A Creativity Checklist

1500 Variables that Create Creativity

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Research Questions:

- 1. How do research and achievement of creativity improve when a tool of much greater comprehensiveness, detail, and level of organization is applied to common assessment, evaluation, and specification tasks?--the secondary question in this paper.
- 2. How do you create a checklist vastly more detailed, comprehensive, and ordered than any prior such tools?--the primary question in this paper.
- 3. What models of creativity if put into a large checklist format offer enough comprehensibility, diversity, and practicality to motivate people to use, study, and fully apply the checklist tool?

This article presents the key variables of each of 20 well-ordered models of creativity, in a checklist format. 1500 variables, organized in checklist format, with 0 to 10 point scales and fill in spaces for each variable, are included. Each of the 20 models is explained as well as some important initial uses of the checklist, by the author and other organizations. The significance, for understanding creativity and impacting it practically, of having more detailed, comprehensive, well-ordered, and articulated models of it is examined in the context of an overall program of structural cognition--applying ordinary cognitive operators not to sets of 3 to 6 ideas at a time but to ordered patterns of 50 to 100 ideas at a time. Research, educative, and work improvement uses of the checklist are described.

Method: A model of 60 models of creativity was used to select 20 models, from diverse original model categories, to balance practicality, diversity, and comprehensibility.

The most comprehensive model of creativity models yet published was used to furnish 60 models from which 20 were chosen for this 1500 item checklist. 1500 items were the cut off point because that is the maximum number of items that could be explained and scored by actual groups in a 3 day 8-hour day format. Which of the 60 models was chosen was entirely determined by dozens of consults over a period of years, noting which models were most requested, used, studied, asked about, by hundreds of consulting clients. A count was kept over a five year period of these requests, etc. and a simple summary of it used to pick the models most salient to clients during that time period. This is a non-scientific sampling method that yet has significant practicality.

Result: A checklist of 1500 variables that affect creativity or generate it, from 20 diverse models of what being creative is, in a format that non-professionals can understand and score in a 3 day 8-hour day format, if led by an instructor who explains each of the 1500 items just before each is scored.

Key Words : Creativity, Discover, Invent, Solve, Models, Imaging, Insight, Culture Dynamics

Extending Minds with Checklists

School systems are dedicated, all over the world, to "schooling" minds, that is, brain matter inside people's skulls. However, anthropologists and others have suggested it is tools outside our minds--our so-called "extended minds"--that make us truly intelligent. We differ from other animals in the diversity, number, complexity, and sophistication of tools outside our minds that perform cognitive functions for us. Among such mind extending tools are checklists.

A global movement to improve quality of production in every agency, company, and industry by totalizing responsibility for quality, from a single quality-assurance profession, to entire workforces, called "the total quality movement" made checklists a key tool of quality attainment. The purpose of checklists, in this movement, was the cognitive "reminding" function and a "comprehensiveness" function. People, without checklists, simply forget what they know. They think up a few items in their minds and check for them but anything more than ten or twelve items in length, quickly falls prey to forgetfulness or misremembering. Checklists remind people of all the alternatives or items of a certain type, so people can quickly check them all. Similar to this reminding function but not quite the same as it is the comprehensiveness function. People are quite willing to omit a few items of a certain type when a lot of such items have already been handled or used. If we achieve checking of 95 out of 100 items, we feel, in most real dialy life and work situation, that that is good enough. However, the total quality movement found our casual willingness to check most, 95 out of 100 items, doomed quality of production. Checking most items was not good enough--all items of a particular sort had to be checked, again and again, thoroughly. Checklists reminded people and they kept their checking comprehensive not spotty.

Checklists can be used for research purposes. They are specially simple questionnaires when used this way. Where usual questionnaires consist of dozens of different questions, checklists are the same question(s) repeated for dozens of topics. Where there are multiple competing models of a phenomenon, checklists of key factors from each of those multiple models, if filled in by good samples of populations whose behavior is of interest, can identify which models make most sense to people, which factors within key models make most sense, and the like. If the wording of checklist items is adjusted to

ask for the presence of behaviors or actions associated with intellectual constructs from a theory, the checklist can be used as a true research questionnaire instrument, with scaled scores, fill-ins later turned into new scales, and boolean "yes-no" marking of factors and outcomes present or absent from particular cases. It is worth noting that checklists, thusly modified for research, are often quite a bit faster to fill in, than usual research questionnaires, though checklists can be boringly repetitious to fill in, that undermining the quality of answers obtained with them unless specific countermeasures are included.

Creativity Calls for Checklists

Is there any need of a checklist for creativity? If so, how would we know that? When we consider making cities attractive to global creative elites or when we consider adjusting work environments so as to promote more creativity of given sorts or more sorts of creativity than those currently present, our eventually success depends strongly on how well we articulate what it is that needs support and what it is, overall, that can do supporting functions, how well such things that can do supporting functions support all the amounts and types of creativity that are there, and how well such things that can do supporting functions support establishment of new types of being creative not now present. These four functions:

- articulating what needs support--type of creativity and features per type
- what can do supporting functions
- how well things that can do supporting functions support the types and amounts of creativity present
- how well things that can do supporting functions support establishing types of creativity now missing

are typically treated with levels of detail having ten to fifteen items, in most published research, and in nearly all creativity consulting and practice. That is, ten or so creativity aspects needing support for each of ten or so types of creativity present are handled, typically. In truth, most published research and practice cases handle ten or so aspects of less than ten types of creativity. The way we use our minds, habits put in us by schools, expectations from how others around us use their minds—all these make us satisfied when ten or so items are articulated.

Richard Florida, for example, consults on making cities and companies more creative. Both cities and companies have the problem of attracting and keeping global creative elites, who choose where to live and

where to work based on creativity factors not just pay, wealth, status, or fame concerns. Museums, concert halls, sports stadiums, for example in Prof. Florida's research, were found to be unrelated to attracting global creative elites. They wanted technology, talent, tolerance, and the chance to develop themselves as creative people having "creator" identities. This kind of research is typical of current publishings--stopping at four factors determining what places will attract global creative elites. To be sure, between the lines of Prof. Florida's book, you can discern a dozen other factors, but basically his entire argument is done at the "10 item level" of articulation. What would his same argument look like if done at the 100 to 1000 item level of detailed articulation? What benefits might appear?

Several of the world's top ten universities have serious creativity consulting programs. The best of these programs investigate impact on the ten variables of one model of creativity of dozens, typically between 100 and 200, aspects of work practices and environments. What can do supporting is well articulated (at the 200 level) while what it supports is less well articulated (at the 10 level). This is fine if creativity is one thing. But if creativity is dozens of things, if there are types of creativity, perhaps many types or approaches to it, then finding how hundreds of work aspects support one type, misses the entire point, does it not?

Prior research pointing to 60 types of creativity, each type having 10 to 50 variables that define it, furnishes another constraint and threat. There many be so many approaches to creating, and so many factors defining each, that the overall result is too vast and complex for people to handle well in practice. Some moderate ground may be needed--enough types of creativity to cover the diversity of creating approaches usually there in most workplaces and enough work system aspects supporting them to cover most of what influences those selected approaches to creating. This middle way is what this article presents. It avoids prior research using large numbers of workplace aspects measured for their support for few models of creating and it avoids the opposite, huge numbers of workplace aspects applied to huge numbers of approaches to creating.

The goal of this article is to present a checklist of aspects of creativity--factors that define models of creating--large enough to improve model articulation by one order of magnitude compared to prior published research and cases, yet small enough to be practically manageable.

The Goal of this Article: To Develop

- a checklist large enough to expand by one order of magnitude the articulation of types of creating and factors affecting each type compared to previous literature
- a checklist small enough to be practically manageable and time efficient to use.

Plural Frameworks Enables Seeing More Reality

Reality is not fixed, something out there, that we perceive dimly. It expands as we apply more frameworks, more diverse frameworks orienting where and how we look and what we notice. Send ten people to any movie, and afterwards, at a restaurant, hold a group conversation asking each person, in turn, what they noticed? what at each tenth of the movie's elapsed time they felt? what those feelings brought to mind as associations and remindings? what changes of direction and flow appeared? what names would they give each section between changes of direction and flow? what they now interpreted each segment to mean? what they now were less likely to do and more likely to do as a result of experiencing the movie thusly? If you actually do this (I have done it hundreds of times) you find inevitably all the people notice, feel, associate, segment, interpret, decide different things than all the others. Plural people, seeing a movie and discussing it together afterwards, see more than any of them individually do. Reality of the movie is simply bigger when the variety viewing it is greater. In like fashion, in any life situation, those applying more frameworks, and more diverse frameworks to a situation, notice more stuff going on there than others. Reality is bigger for them.

This is the theoretical reason that justifies developing comprehensive, highly detailed in articulation, checklists on phenomena like creativity. We will notice more creativity and more about it when we see it through more lenses and lenses differing more from each other.

The 20 Models of Creativity of This Checklist

I decided to experiment with a checklist that moved us from considering 15 aspects of one type of creativity to 1500 aspects from 20 types of creativity. This expands types of creativity by one order of magnitude, approximately, from 1 type to

20. This expands aspects in total by two orders of magnitude approximately, from 15 to 1500. This expands aspects per type from 15 per type to 75 per type, or half an order of magnitude. This limit was arrived at via gradually adding types of creativity to the checklist and gradually expanding the level of articulation for each type, that is, expanding the number of aspects used to define each type. As both of these were increased, the following were measured, for users of the checklist:

- time to complete filling in the checklist
- number of skipped items in the checklist;
 number of extremal items as portion of all
- number of items marked as unclear, un-understandable, or ambiguous enough to be difficult to fill in meaningfully for subjects (subjects were instructed to do this)
- reliability, measured as portion of prior answers reproduced weeks later when filled in for the same subject area by the same person
- validity, measured as levels of creative variables marked on the checklist, for each of various types of creativity, when applied by subjects to areas having very narrow well known types of creativity and when applied by subjects to areas having great creativity or no creativity.

The models of creativity, as they were added to the checklist, were deliberately made various--that is, when previous models seemed abstract, concrete new ones were added, when previous models seemed scientific artistic ones were added, when previous models seemed complex and large simpler smaller ones were added. In addition a model of 60 models of creativity, ten sets of six models each, was used to insure that at least one model from each of the ten groups was included. That model of 60 models starts with an initial type called "catalog" models of creativity. These are particularly wide-ranging, having many individual factors (from 64 to 85). Several of these wide-ranging models of many variables each, were included. As initial trial versions of the checklist got applied to diverse creative and non-creative cases, areas missing from the checklist were sensed, and new models added to fill such sensed gaps. A brief description below is given of the 20 models now in the checklist in one form of another. For more complete description of each model see Greene, 2003.

The 60 Models Model of Creativity--the Universal Type

This is a model of models of creativity, combining 60 of them found in interviews of 150

very creative people in 63 different parts of society (Greene, 2005), amplified by matching models in the literature on creativity of 40 different academic fields (over 2000 books surveyed, see the bibliography of this book). The 60 models are organized as ten groups of six models each. These sets of six models are ordered from large scale through middle social scale, to small within the mind cognition scale. Some see creativity as an emergent properties among interaction populations and cultures, some see creativity as a non-linear property of the universe itself (which after all, invented human beings via inventing the natural selection process), and some see creativity as processes going in within individual human minds. These 60 models are dual--each of them purports to explain all creativity of all types and yet each of them is so distinct in its emphasis and approach to creativity that they each define separate "types" of creativity, that is, separate ways of arriving at creations.

The 64 Steps of Becoming Creative and the 64 Steps of Creating Models--Catalog Types

This is the first model within the 60 models of creativity model dealt with just above. It comes from gathering all the recommendations on how to make oneself more creative from 150 interviewed creators and 2000 books and grouping such suggestions by similarity into a hierarchy of categories, then regularized by imposing the same branch factor and principle of ordering throughout the hierarchy, on all levels and across all levels. It breaks down itn 64 steps for becoming a creator, and 64 steps for creating itself. This model of creativity is the only model of the 60 models that actual creators strongly identify with and quickly study in detail. It connects more strongly with actual creators than any other of the 60 models—I am not yet sure why.

The 85 Creativity Conditions of the Darwinian Systems Model of Creativity--a Catalog Type

This is the only model of the 60 models formed by combining two simpler models—the systems model and the darwinian model. From the system model we get person, work, field of people, and domain of knowledge; from darwinian processes we get variation, combination, selection, reproduction. This makes a four by four matrix, the "work" column of which is in reality, cancelled (generalizing across all creative work types is a bit hard and overly general in the results it produces). 85 conditions—cognitive, zeitgeist, and lifespan—that foster, for example, variation in persons creating, that foster, for another example, reproduction in domains of knowledge—are

specified in the model. This model was the principal way that excess individualism in viewing creativity was overcome in Western cultures, allowing Eastern ways of creating for the first time to be seen, examined, and respected in the West.

The 25 Steps of the Insight Model of Creativity--a Mind Type

This is the most interior of all models of creativity--and one of the most common. Folk thinking sees a connection between sudden unexpected "insight" events and creating. This theory shows that such unexpected and sudden happenings of "insight" are always the result of months or years of hard effort, driving the creator to despair over all he knows as try after try fails--it is the accumulation of such overwhelming failure that opens the doorway to "insight" happenings. So insights are "sudden" in one aspect but long-term build ups in another aspect, the latter enabling the former to "happen". This model of insight also sees alternating engagement and detachment, driving towards subinsights (like, my current frame will never work, like all that I know will never work, like what other frameworks have I never tried, till the final solution insight appears), and driving towards more and more abstract representations of problem situations in the form of indexes (of problem aspects of a situation, of difficulty generating aspects of problem aspects, of exactly why particular attempts failed, of exactly what in particular attempts failed and how, and so on).

The 11 Dimensions of the Population Automaton Model of Creativity--a Systems Type

This model achieves a non-individual view of creating of a different sort, a non-linear system dynamics sort. Populations of agents interacting till patterns emerge suddenly, as non-linear system "avalanche" events, similar to joke punch lines that, by suddenly switching frameworks of viewing entirely, give a totally new coherence to a set of prior events in the joke, constitute creativity in this model. You tune interactions among these populations of ideas in minds, of works in fields of people, of domains of knowledge in society in various ways till better-than-expected results emerge. Instead of designing what you create, you design a system of interacting population elements from which some things better than you want emerge, after careful tuning of interactions, and pruning away of noise amid the emergent solution. Creativity is just like religious grace events here, you can prepare the way for them but you cannot make them happen. You merely expose yourself best to the possibility of

making them happen and seeing them when they do happen, and wait for events to transpire. This captures the essential non-linearity nature of creating.

The 7 Dimensions of the Culture Blending Model of Creativity--a Blend Type

Immigrants, youth, newcomers to a field, and the like are disproportionately represented among creators of all sorts. Somehow knowing too much about a field or mastering its contents too well reduces creativity, though, on the contrary, people not masters of its best past accomplishments seldom create. Also, the borders of empires, the ends of empires, the cosmopolises where multiple ethnic groups, cultures, and professions mix are places where disproportionate creativity appears. Clashing diverse viewpoints and ways to see the world spawn and sponsor creativity. Single right viewpoints, on the other hand, deny and destroy the possibility of creating. What is it exactly about two cultures clashing that makes people--immigrants, youth unsocialized to a field, newcomers from outside the field--more creative than good citizens of a field? This model presents seven very particular capabilities wherever cultures clash that foster creativity. These can be measured, fostered, and improved by easy practical measures. Unfortunately the emotional work of tolerating great diversity is beyond the ambition and capability of many normal citizens and people. They wish to be right rather than diverse, solely correct rather than creative.

The 16 Parts of the Subcreations Model of Creativity--a Purity Type

The subcreations model of creativity is based on observation that creators create a lot of lifestyle and workstyle conditions and tooling before they actually create a creative work of any sort. There seems to be an ever-expanding scope of sub-creations that prepare the way for eventual usual creations. It may be that enabling and fostering such divergent ways of life and work is the primary vehicle for improving creative outcomes, since so much of social behavior and organizational requirements condemn and forbid such divergent ways. One person one desk, not one person sixteen desks; one person one job per one year, not one person five companies two jobs per company per year--these foolish consistencies, assumed and enforced everywhere in contemporary societies possibly cut off all creative possibilities for most people. The subcreations model of creativity suggests careful measurement, examination, and support for these smaller, preparatory divergences that enable later great creative outcomes.

The 64 Dynamics of the Accelerated Learning Model of Creativity--a Group Type

This is a model of 64 ways that individuals and organizations learn in practical reality. It holds that creativity is merely the simultaneous presence of many of these forms of learning--how many forms, which particular forms, what kinds of creativity produced--are all valid issues needing further research. People who learn one of these ways at a time are uncreative. People who learn two of these ways at once are uncreative, however, people who learn X number of these ways, turn creative. People learning ways 1, 5, 8, 9, 12, 33, 35, 36, 44, 51 turn creative. Research to find what number X is and to find what particular combinations of learning ways suffice to make someone creative has yet to be done. However, biographies of creators and some autobiographies by them, strongly support this model, as they are filled with simultaneous diverse ways of learning somehow accelerating each other, making wholes much greater than their processual parts.

The 64 Parts of the Traits Model of Creativity--a Catalog Type

This is perhaps the oldest model of creativity of the 60 models. It comes from hundreds of years of casual observation about the traits that make a person creative, the traits shared by creative works in particular fields, and the like. Grouping such traits by similarity and regularizing the hierarchical model that results produced this model. For many years creativity research was merely the generating of such lists of observed traits. After the number and variety of traits became large, researchers sought more cogent models that explained patterns and co-occurrences among these traits.

The 64 Parts of the Question Finding Model of Creativity--a Catalog Type

This is perhaps the second oldest model of creativity of the 60 models. Many people, creators and students of creativity, have noticed that the same effort expended in finding a creative question and in inventing a creative answer to a question, does not produce the same result. Investments in finding creative questions far outperform investments in coming up with creative answers to known questions. Like real estate, value in creativity is location, location, location, in this sense. This model categorizes by similarity hundreds of observations of principles by which people find great questions to tackle.

The 96 Processes of the Scientific Creativity Model--a Catalog Type

Scientific creativity is the touchstone of all creativity, because, in part, it uses rigid procedures but in inspired unusual ways, and, it achieves high leverage, single equations discovered resulting in harnassing the nuclear power of stars, for example. This model uses the categories of the darwinian systems model above, to categorize guidelines on how to be creative from the world's leading scientists and Nobel Prize winners.

The 64 Sources of Entrepreneurship--a Knowledge Evolution Type

Inventing businesses, especially new high technology ones, is a popular contemporary form of creativity, offering wealth opportunities to middle class people with good minds. A lot of recent research has been done on why people become entrepreneurs and this has uncovered a lot of diverse reasons people become "business creative". This model categorizes hundreds of diverse such reasons into a coherent set of categories.

The 64 Functions of the Performance Model of Creativity--a Self Type

The occupation of "singer" is a creative occupation but most singers are distinctly and completely uncreative people. Indeed, the task of singing is uncreative in its core--repeating accurately music someone else wrote, and words someone else wrote, so the song can remind audiences of parts of their own experience and past. If there is creativity in performance, just what is it? We have all experienced it, because we all remember fondly great performances we happened to encounter and how greatly they differ from casual performances (however outrageous the ticket prices for both). This model defines 64 differences of great performances from casual ones, hence, it defines performance creativity, whether business performance, singer performance, actor performance, lover performance, or others.

The 64 Functions of the Composing Model of Creativity--a Self Type

The writers of the US TV epic comedy "Cheers", seeing from focus groups that audiences wanted Sam and Diane to get emotionally close, chose to break them apart with the appearance of a different lover for Diane. They chose to compose something that surprised and frustrated audiences wants. They did not satisfy customer wants but radically departed from them, producing, thereby, revival of the show and expansion of its audience. The art of composing

is tricky in this and 63 other ways, outlined in this model.

The 64 Purposes of All Arts Model of Creativity--a Social Type

Great art does some things to people. Various artists, works, critics, and appreciators of arts have written what they think these things are. By collecting all of them across all art forms, a model of what purposes all arts try to evoke in people resulted. We can use it to measure how great any one art is by how many and which of these 64 functions it evokes. This model fits our intuitive appreciation for moments or art encounters that open whole new worlds of experience and reflection and appreciation of value to us, where we expected something much narrower, and more focussed.

The 64 Stages of Being Creative from the Creating Power Models of Creativity--a Self Type

Power is not creativity but creativity is a kind of power, what kind of power. This model provides an answer, showing the kinds of power of each stage of creating. This model, uniquely among all 60 models, crosses levels from within the mind to social groups to non-linear systems to abstract universal processes. It is a model of the steps of creating with each step simultaneously articulated across these size scales—it is a fractal model in this sense. It expresses the emotional stages of being creative, found in each sequential step of creating. It captures the emotional journey of creating—indeed, it was built by combining creator observations about the emotional content of the various stages they went through when creating.

The 64 Invention Operations of the Information Design TRIZ Model of Creativity--a Purity Type

The Russians, not famed for creativity, nevertheless, in their imperial humongous-size centralized ponderous way managed to project world class scientific education, vast technology development, all the while ignoring civil society, welfare, decency, and ethics. One offshoot of this was a guy Altshuller who studied patent applications noticing that every invention quickly was modified in the same 40 ways to come up with further inventions. You could capture 90% of all patent contents by just blindly applying the same 40 operators to any single new invention, elaborating it in 40 rote ways. This TRIZ model (the letters stand for Russian language terms) has been widely taught world wide. However, invention and technology patenting has evolved beyond Altshuller in internet, cellularity, Japanese technology development method ways, among

others. Thusly, this model updates Altshuller's 40 ways to present 128 operators that can be blindly applied to any one invention to turn it into 128 further inventions. This model captures the inventor aspect, subculture, and part of overall creativity. The creativity operators in the version of the model presented below have been generalized to apply to novel writing, political election winning, scientific discovery, as well as inventing.

The 256 System Effects of Non-Linear Systems Models of Creativity--a Systems Type

Wolfram makes a convincing argument (save for quantum effects entering human technology) that the computational complexity of human minds is not greater than the computational complexity of many systems in nature, perhaps most, so we will never find short cut ways to predict the outcomes of such systems. This limit to scientific discovery and knowledge suggests that creativity of the universe and its contents, largely non-linear systems of myriad sorts, will constantly break in, surprise, and discomfit us. Creativity is not just revenge--we humans devising non-linear human systems to surprise the world with--but also we humans anticipating non-linearities breaking through into the systems of our lives and blunting ahead of time their disruptive potential. We create when we blunt destructive creativity injections of the universe in human affairs. Thus a map of the system effects of universal non-linearities as they break into various contexts of our lives, allows us to be creative by anticipating and redirecting or blunting such effects.

The 64 Dimensions of Any Culture Model of Creativity--a Blend Type

When the culture of total quality management impacts the culture of US management, when the culture of Disney products impacts the culture of French consumers, when the culture of Joe impacts the culture of Morgan Stanley's Brazilian office--what exactly is impacting what? Without a specific, exact, detailed map of what in culture A impacts what in culture B, we can do nothing practical and useful with culture blends. A model of the dimensions that define cultures, and how they differ from each other, has to be general enough to apply to lots of specific cases but detailed enough that it guides decisions and practice. The 8 factors of Hofstede, Bond, Hampden-Turner, and Tropenaars, for example, are cogent enough to be easy to learn but useless practically as they are so general that when, where, how, and why they apply to particular cases can never be guessed--Japanese are loyal to social

roles not persons so who should I ask to pass me the pepper, for example. We need intermediate models, beyond 8 dimensions, but less than 100 dimensions. I suggest 64 dimensions, well orderd into sets of 4 and 16, and present the best model of such dimensions for characterizing and distinguishing cultures, from the literature.

In any Organization or Person: What Supports and Hinders the 1500 Checklist Creativity Items

To use the Creativity Checklist presented in this article requires articulating the "what" whose creativity is being scored on the checklist items. Take San Francisco, Xerox PARC, the Toronto Symphony Orchestra, and Okinawan Pop Music--how do they score? At the level of comparing:

- how many models of creativity,
- what models of creativity,
- how many aspects of any given model,
- · what aspects of any given model

across these four--a city, a research lab, an art performer, a genre of music--general "creativity" scores on the checklist would be useful. If San Francisco, Boston, Tokyo, and Paris were compared, such scores would be even more useful. At the level of trying to improve the creativity of a city or a research lab or a performer or a genre of music, scores comparing city with city, lab with lab, performer with performer, and genre with genre would be useful, but scores comparing a city with a lab with a perfomer with a genre would not be useful. If one city is strong in one model of creativity while other cities are weak in it, that draws attention to how the weak cities might improve by looking at how the one city achieves its strong showing in that one model. At the level of trying to improve the creativity of a city, lab, performer, genre, and so forth, another level of results would be more useful--what aspects of all the cities might be improved. So far, in this paper, there is nothing about what aspects of a city, lab, performer, or genre should be separately scored on all the 1500 items of this article's checklist.

A model of social processes, shared by all social entities--humans, groups, firms, societies, civilizations, institutions--was developed in the second half of the 20th century by white North Americans and later extended by people from East, South, North, and Central Asia (Greene, 1999). The full model has 256 processes in it, but usually only the highest level (most abstract and general) 64 are

used, 16 processes each under economy, polity, culture, social change. It makes a lot of sense to examine how economic, political, cultural, and social changes aspects of cities and labs support each of the 1500 checklist creativity items. It is a bit obscure how examining such aspects of performers and music genres support the 1500 will benefit us. A bit of practice, using the social process model, however, clears this up, showing just as much benefit by examining the economic aspects of orchestras and genres of music affecting creativity items as for economic aspects of cities and labs, for example. Social processes are not all, however. There are 64 processes by which organizations learn. We can examine how each of them supports or hiinders the 1500 creativity items in the checklist, in general, and abstractly, then we can examine which of the 64 organizational learning processes are robust in a particular city, lab, performer, or genre and how those particular learning processes affect each of the 1500 creativity checklist items. We can do this for models of not just organizational learning but all sorts of other such categorical models. One of many worth mentioning is the model of 64 dimensions of culture. If we characterize the culture of San Francisco, Xerox PARC, the Toronto Symphony Orchestra, or the genre of Okinawan Pop Music along those 64 dimensions, then examine how those culture traits impact the 1500 creativity checklist items, much can be learned about the creativity effects of particular apsects (dimensions) of a entity's culture. So, among many applicable models, we have social processes, organizational learning processes, and culture dimensions.

If I have 64 social processes of San Francisco examined as to how each of them affects each of 1500 creativity factors in the checklist, that is a big matrix--64 x 1500 = 96000 intersections in the matrix. We can imagine, however, 64 teams, one for each social process type of San Francisco (or any other city), with each team spending two or three days scoring how its assigned social process supports or hinders each of the 1500 creativity factors in the checklist. 64 such teams working together could generate an essay, actual measures they invent, and scores for all 1500 items in a book form in two or three days of intense work together. The same goes for major research labs--teams for each organizational learning or social process, checking their assigned process against 1500 creativity checklist items, then writing an essay, from invented measures, and item scores. Such events have already been held.

Using This Checklist

The 1500 middle column items can be left unmarked or X-ed out, that is, they can each be marked as "present" or "absent", "funded" or "unfunded", "common" or "rare" in this binary way. In addition, each of the 1500 middle column items can be scored from 0 to 10 with 5 being neutral in the fourth column. It could be how the economy of X scores on each item, or how the polity of X, or how its culture scores, and so on for all 64 social processes. It could be how the vicarious learning process scores, or the legitimating peripheral participation process scores on each item that is scored. That is, the entire checklist can be filled out once for any one such aspect of a group. If you wish to measure 64 aspects of the group, the entire checklist gets filled out for each of those 64 aspects, or a total of 64 times. Finally, there is a fill in space in the fifth column of the checklist, into which any of a number of things can be put. Explanations of all items scored 1 or below or 9 and above, all extreme items, can be put there, or free form unrestricted comments of any sort, or recommended ways to improve scores that are low on any item, and any of a number of other rather obvious possibilities.

Experience shows that exposure to a one hour video tape explaining all 1500 items, suffices to enable anyone to take the checklist and score all 1500 items, at an average rate of 100 items scored/filled-in/X-ed per hour, taking 15 hours to complete scoring. This is, however, hard work if done alone, so the perferred method is not using the videotape and not scoring alone but entire groups, each member of which is assigned to score a different dimension of an organization, doing their scoring together, right after each item is explained by the author of this paper, over a two or three 8-hour day period. This has the side-benefit of training everyone in 1500 creativity dynamics while developing accurate scores and accurate shared understandings of what each of the 1500 items means. This is particularly important as a method of scoring the checklist, when different people are assigned to score different aspects of their organization on the 1500 items--because this second method exposes everyone at the same time to a common understanding of the meaning of each item with live opportunity for feedback on what each item means. Without this, there is danger of scores differing not because of different creativity conditions but because people understood items differently--a clear threat to validity of the checklist.

Note, the 1500 variables on this checklist have

not been validated by solid research as of yet. That sort of validation by research is not likely to eventuate anytime in the next twenty years. The amount of work involved in validating 1500 items as varied as these is immense and beyond the financial capacity of all but the most famous (and busy) research universities. Using checklists of variables supposed by various theories and theorists, practitioners and consultants to affect creativity is risky, but not as risky as having no checklist at all for hundreds of years till funding permits immense research work to validate each of 1500 supposed variables. Use of this checklist in its present form is the lesser of two evils, not an optimal state of affairs.

Some Initial Uses of this Checklist

The research literature on creativity has not achieved concentration, focus, and convergence on well established truths, for the most part. There are some powerful regularities uncovered, like the linear relation between hours of practice and fame, and the linear relation between creative works produced and fame. However, for the most part, the research on creativity is fanning out, one model leading to more other models, rather than models being tested thoroughly. The deep reason behind this is an illusion when we use words like "creativity". Because we have a word for "it" we imagine it as one thing, having many forms perhaps. This should not be assumed--it is a matter needing empirical testing to determine whether creativity is one thing or many, and if many, how many things of what sorts. Each model, already published, of what creativity is, constitute a way of viewing what creativity is, with strengths and benefits compared to other viewpoints. When a number of such models are used, and when such models differ greatly from each other, chances are more of creativity will be seen and noticed. When few such models are used or when the ones used do not differ greatly, little about creativity will be noticed. Checklists, then, can be used to tell us which models, and which combinations of diverse models, match what actual creators of various sorts experience creativity to be, and experience their own particular processes of creating to include. This should be carefully done, however, as creators may operate based on highly abstract creation operations that they are unaware of using. Just because a creator likes the factors of a particular creativity model and checks them as things he uses, in a checklist, does not mean that unchecked items from more abstract models in the checklist, are not there. It just means the creator is unaware of them.

To use checklists to get beyond measuring what models of creativity actual creators recognize and affirm, we have to reword checklist items so as to get at how abstract theory constructs might actually appear in the work of actual creators, so that checked items truly indicate presence of the abstract operator. Checklists need modification, especialloy where constructs of models on them are highly abstract, so that respondents, not checking something, are not checking it because it is truly not a part of their work, not not-checking-it only because they do not understand what something that abstract has to do with their work. When multiple models of creating are tested together in one checklist, one finds, universally, that more concrete models are more present and more abstract models are less present--this is false, it rather reflects ease of recognizing concrete factors compared to abstract ones. To avoid getting such results, one has to reword factors for abstract models in form likely to be encountered by creators. This often requires several items on the checklist for any one abstract construct from a model.

Beyond research, there are educative uses of checklists on creativity. Exposure to dozens of models, all of the same phenomenon, opens up to view all sorts of dimensions and operations of creating new to creators filling in the checklist. There is a distinct possibility, probability even, that such exposure increases the creativity of actual creators. Just as meta-cognition, cognition aware of how it is working, improves intellectual performances of various sorts, meta-creation, creation aware of how it creates, may improve creation performance of various sorts. Creators who fill in comprehensive plurform creativity checklists may end up more creative as a result.

Beyond research and educative effects, there is the issue of enabling and supporting creativity in organizations and workplaces and lives. The hinderances and supports for creating of any one group, place, approach, person can only mean something useful when "what creating is" is specified precisely. It is inevitable that conditions that support one form of creating or one step in that form, hinder other forms of creating or other steps in that form. Nothing supports creativity in general. Researchers, for example, found that better connections, communication, tools for cooperation and the like, from modern computer, communication, and software technologies ruined the concept design phase of product development but helped the concept prototype resourcing stage (Gallagher, 1988). Checklists, like the one in this article, allow how

any one aspect supports or hinders 1500 aspects of creating to be measured. If such checklists are filled in dozens of times, one time for each of dozens of aspects of the environment or work or life, then they show how all aspects of an organization impact all 1500 aspects of creating captured in checklist items. This is a lot of work, but it is at this level of detail that specific improvements, that do not hinder other aspects of creating, are identified for improvement.

A Recommended Sequence of Uses of the Creativity Checklist

Having had some years of experience with previous versions of this checklist, I have gradually converged on the following sequence of uses.

- 1 teach, in the order presented in the checklist, all 20 models of creativity and all their 1500 constituent factors--to teach creativity in the context of factors that cause it and outcomes included in it, while presenting plural competing models of it
- 2 require people to fill in each checklist section, corresponding to a particular creativity model, scoring themselves on each item--to ground each checklist item in the experience of the people using it
- 3 require people to fill in each checklist section, corresponding to a particular creativity model, scoring each other (one other student each) on each item--to see the difference between how we score ourselves and how others score us on the same 1500 creativity checklist items
- 4 people fill in the entire checklist, applied to one organization they all share (college, nation, profession, etc.), four times, once each for the economics, politics, culture, and social change aspects of that organization they all share--to see how fundamentally different dimensions of an organization differ in the type of contribution to creativity they make and the amount they make
- 5 people get others holding responsible positions in that organization the people all share to fill in the checklist four times, once for each of the economics, politics, culture, and social change aspects of that organization--to see how insiders differ from outsiders in perception of what contribution to creativity comes from each fundamentally different dimension of the organization
- 6 people, organized in groups, interview several creators whose creative works highly impress

- them, scoring the creator and/or his work on all 1500 checklist items--to see how well creativity that excites people shows up in unique patterns of items checked on the creativity checklist
- 7 people identify highly effective people, highly educated people, highly creative people, and great leaders from the same organization and score all of them on all 1500 checklist items--to see how well scores on the checklist

measure creativity instead of other forms of excellent performance

8 find parts of an organization favoring one model of creativity, then other parts favoring another model, and still other parts favoring still other creativity models on the checklist, then get people in those parts of the organization to fill in the entire checklist--to see which models of creativity participants in an organization see and use

OVERALL CREATIVITY CHECKLIST, 1526 Basic Items from 20 Models of Creativity, Non-Consulting Public Version, 18 December 2004

60 Models of Creativity, 64 Steps of Becoming Creative, 64 Steps of Creating, Darwinian Systems, Insight, Population Automaton, Culture Blending, Subcreations, Accelerated Learning, Traits, Question Finding, Scientific Creativity, Entrepreneurship, Performance, Composing, Art Purposes, Creation Power, Info Design TRIZ, System Effects, Culture Dimensions

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	60 Models of Creativity			
	Recommendations	I collect recommendations from mentors, peers, and others on how to be creative in	012345678910	
		general or on how I can be more creative, organize them, and regularly review them to		
		improve the creativity of my work.		
	Traits	2. I collect traits that creative people, works, domains, and fields have, organize them, and	012345678910	
		regularly review them to improve the creativity of my work.		
1 2	Question Finding	3. I collect ways that creative people find great questions to tackle, organize them, and	012345678910	
		regularly review them to improve the creativity of my work.		
4	Darwinian Systems	4. I notice how persons and works in my domain, and how my domain itself and the	012345678910	
 ₩		people who run it, all four, foster the basic evolution functions of variation, combination,		
(C)	G 11 100 1	selection, and reproduction. I use the result to position myself for maximal creativity.		
	Combined Thought	5. I select certain types of thinking and develop them individually as well as exploring	012345678910	
	Types	possible combinations of them till creativity results.	0.1.2.2.4.5.6.7.0.0.10	
	Garbage Can	6. I use nearly all fundamental parts of my existence from personal identity to social	012345678910	
		dynamics around me to ways of work to develop partial creations of life and work style		
	Culture Mixing	that become tools for making creative works. 7. I use the various cultures I have been exposed to, have within me, or live among now,	012345678910	
	Culture Mixing	blending them till creation emerges.	012343078910	
	Discipline Combines	8. I use the various fields I have been exposed to, have mastered, or live among now,	012345678910	
	Discipline combines	blending them till creation emerges.	012343070310	
	Tuning	I position myself between extremes and polar opposites, tuning my approach toward	012345678910	
		subtle points between extremes where creativity happens.		
ΙĘ	Paradox Doorway	10. I seek out paradoxes and force myself against them till they, in turn, force my	012345678910	
\(\text{\tint{\text{\tin}\}}}}}}}}}}}}}}}}}}}}}}} \endrestimes \end{eng}}}}}}}}}}}} \endrestimes \text{\texi}}}}}}}}}}}} \end{eng}}}} } \end{eng}}}}}}}}}}}}}}}}}}}}}}}}} \endthintegrees \text{\tex	,	thinking out of its ruts and into lateral, peripheral new paths that open up creativity to me.		
=	Scale Blend	11. I seek out phenomena on multiple size scales, aligning them by similarities of various	012345678910	
		sorts, till phenomena on one size scale solve major problems on other size scales.		
	Idea Marketing	12. I market ideas within my own mind to various viewpoints I can develop mentally,	012345678910	
		then select best fit ideas to market, again within my own mind to representations of actual		
		social market forces in my field, till I come up with a creative work as the package that		
		transmits that idea to those social market forces in my field effectively.		
SOCIAL BLEND CATALOG	Community of Ideas	13. I assemble possibly relevant ideas and let them interact as their own natures dictate,	012345678910	
		noticing how they pair up, conflict, sequence themselves and in general inter-relate, till		
	System Model	powerful interesting such idea assemblages come to my attention as possible creations.	012345678910	
	System Model	14. I influence the social judgement dynamics of that field of people who judge what works are creative or not in the domain in which I work by tuning the dialog among	012343678910	
		myself, my creative work, those judges, and rules of the domain till creation appears.		
	Social Computation	15. I am in the midst of a community of people among whom flow various social	012345678910	
	Social Computation	computations having inputs, outputs, and processors consisting of layers each more flexible	012343070310	
		than the next of hardware, firmware, software, in each layer of which are operations each		
1		having input, output, and processor (repeating the above endlessly). I manage that flow till		
₹		at where I am in the community a critical mass of ideas appears that becomes creativity.		
\Box	Social Movement	16. I am in the midst of a community of people among whom frustration builds up till	012345678910	
$ \mathbf{s} $		released into a social movement of new ideas by the slightest particular new idea,		
		avalanching the entire community into a new overall idea configuration.		
	Space Sharing	17. I share the same intellectual space with a community of like-minded others, inventing	012345678910	
		tools that intensify that sharing and pursuing competitively similar intellectual goals till		
		rather unpredictable slightnesses among us and the ideas we work with cause creativity to		
		appear somewhere among us.		
	Participatory Design	18. I notice how in modern societies specialization of function has stripped certain kinds	012345678910	
		of thought, thinking, collaboration, feeling, from entire populations concentrating it in		
		profit-making centralized industries and create by undoing important pieces of that harmful		
		over-centralization and over-concentration.		

	Mass Solving	19. I define a certain solving process and get many people to simultaneously apply it while interacting with each other tuning their motivations, interactions, and configurations till creativity emerges.	012345678910
	Process Deployment	20. I come up with one interesting process after another and deploy them across certain social configurations of people, tuning motivations, interactions, and configurations till creativity emerges.	012345678910
ГР	Optimize Ideal Flow	21. I identify the intended flow of energy through particular systems and optimize the design, environments, conditions, and controls of the system to get as close as possible all of the energy to flow in the intended path through the system till performance or qualities never seen before emerge.	0.1.2.3.4.5.6.7.8.9.10
GROUP	Meta-Cognition	22. I organize my tools, facilities, collaborators, associated institutions and relationships for heightened meta-cognitionawareness of how we think and work till creativity emerges.	012345678910
	Social Connectionism	23. I work in certain idea layers and social relationship layers combining and selecting what comes both to my conscious symbolic mind and what comes to my unconscious associative mind, coaxing ideas and relationships through phase changes till creative new patterns emerge.	012345678910
	Demystification	24. I return power to people who have been habituated to giving power to things outside themselves via creating works that communicate a demystifying-of-the-world-message-that makes people conscious of how they have given power and options to things outside themselves that rule them unwholesomely.	012345678910
KNOWLEDGE EVOLUTION	Dialectics	25. I find myself embedded in large evolving forces and patterns, defining myself by opposing large established ways, as younger ones gradually define themselves by opposing my work as large established way.	012345678910
	Compilation Cycle	26. I work with many different traits that knowledge has, compiling knowledge from one format to another watching how that affects those traits till gaps, distortions, elaborations or the like in those traits reveal creative possibilities to me.	012345678910
	Relocating Idea Ecosystems	27. I work in several different ecosystems of ideas and by bridging particular ideas from one ecosystem to another or from one idea ecosystem to a different social ecosystem, I turn them into creations.	012345678910
	Idea Waves	28. I find myself in an ocean of ideas where waves of coherent different sets of ideas wash over the diverse parts of society, including me, regularly such that by setting up tools and workstyles that catch these passing waves and combine ideas across them, I end up creating.	012345678910
NOWLE	Fractal Recurrence	29. I live among different schools of thought that arise and oppose one another, fuse and split, so that I use how very abstract idea polarities and oppositions keep reappearing through time and on different scales of thinking to, by doing the next inevitable step in this process, create.	012345678910
¥	Simple Programs	30. I analyze situations till I find a way to model all the interesting and important complexity of the situations using the simplest thinkable system types yet capable of generating all that complexity, then by changing such simplest system parameters I generate hosts of creations.	012345678910
	Solution Culture	31. I notice how people often choose exactly those solutions guaranteed to perpetuate their problems, how failures and missed opportunities are not accidents so much as logical extensions of entire "cultures of failing" that build up unseen in peopleby reversing traits of such failure cultures I invent and apply solution cultures that then create solutions to long standing recalcitrant problems.	012345678910
EXPERIMENT	Policy by Experiments	32. I try certain strategies or policies in order to generate data about how reality is really working, then use that revealed data to redefine the problem and devise better strategies and policies revealing in turn better data on the basis of which to devise better strategies and policies, repeated endlessly till creation emerges.	012345678910
	Creation Events	33. I gradually find and combine components of an idea or approach, assembling various people, resources, ideas into a series of events, designed around particular idea or people combination procedures, taken from experts, from which emerges a final creation.	012345678910
	Fractal Model Expansion	34. I organize ideas into multi-scale hierarchies, tightly ordered vertically in layers and horizontally in idea-categories, then I expand the geometry configuration of the ideas, inventing new ideas at every level and category, coming up with dozens of creations at once.	012345678910
	Social Automata	35. I tune the interactions among many interacting people, arranged in certain neighborhoods and trained in certain behaviors of interacting, adjusting connectedness, diversity, and deployment of initiative-taking in the system till creations emerge.	012345678910
	Create by Balancing	36. I envision my domains of thinking and work using very comprehensive abstract models to spot slighted dynamics and over-emphasized one, then create by devising tactics that rebalance the domain by emphasizing slighted dynamics on my abstract models or slighting over-emphasized ones.	012345678910

	Non-Linear Systems	37. I build models of my domain as a network of non-linear interactions among	012345678910
		populations of agents with butterfly effects, system avalanches from one attractor to	
		another, first mover advantage, and I tune interactions among agents till better than	
		expected results simply emerge from sudden system-wide avalanche events.	
	Darwinian	38. I set up competing ideas, approaches, relationships, or events, such that traits of successful	012345678910
		ones combined with variants I invent populate a new population of competing entities, the	
		whole system evolving till a creation emerges from this natural selection like process.	
	System Effects	39. I, like everyone else, suffer from surprises as system effects, unanticipated and	012345678910
l	System Effects	unanticipatable in the non-linear realities of our lives, intrude, but, unlike everyone else, I	0.11.12.13.11.11.13.11.11.11.11.11.11.11.11.11.
≥			
E		catalog, explore, and develop tools for using these non-linear effects till they become	
SYSTEM		dependable creations.	
5	Surprise	40. I catalog and study system effects and I catalog and collect unusual frameworks for	012345678910
S		viewing matters in my domains, using the former to anticipate surprise types and the latter	
		to reveal surprising phenomena, till one such surprise turns into my creation.	
	Adjacent Beyond	41. I start with small tiny creations, that accumulate and combine with each new such creation	012345678910
	rajacent Beyona	I make, to make myriad new combinations, some of which are creative, which when identified,	012343070910
		pruned of noise, and combined with my past creations, spawn still more combination possibilities,	
		some of which turn out to be creations, exponentially continuing my stream of creations.	
	Population Automaton	42. I manage populations of interacting ideas on multiple levels of ideas-in-mind, feeling	012345678910
		responses, performance moves and improvs, parts of organizations till insights as non-	
		linear system avalanche events happen, generating creations.	
	Subcreations	43. I invent little tools and processes, decor and arrangements of my personal living and	012345678910
	Subti tanolis		012373076910
		workplaces to help me create still more creative tools, processes, decor, and work	
		arrangements, in a continuing exponential stream till later ones turn out to be creations or	
		to enable me, using them, to create what others, lacking such tools and work arrangements,	
		cannot imagine or produce.	
	Productivity	44. I generate a lot of ideas and throw away the bad ones, and, by generating ways of	012345678910
		producing more ideas than nearly anyone else in the same periods of time, and accumulating	
		experience from throwing away bad ones, more and more of my ideas become creations.	
	D 6		0.1.2.2.1.5.6.7.0.0.10
	Performance	45. I understand that I am a performer, and my performances are the ideas I produce,	012345678910
		which perform before various audiences, using an anthropological stance of seeing the	
>		limitations of culture of my audiences and the theological stance of seeing the limitations	
		of life itself and how my audiences position themselves within them to make my ideas	
PURITY		creations.	
⊋	Influence	46. I seek to influence people and the world via explosively producing disillusionment	012345678910
1 =	minuence	1 1 1 21 0	012343078910
		with existing frameworks with what I create which must be timed and positioned,	
		packaged and expressed so as to influence the field of people in my domain.	
	Investing	47. I manage a portfolio of diversified investments of time, idea, and effort in parallel	012345678910
		simultaneous projects attempting unlikely outcomes, mixing venturesome and conservative	
		strategies, till one is a hit, and turns creative.	
	Info Design	48. I find myself in webs and configurations of structured information such that particular	012345678910
	into Design	structural features of these information distributions result in creativityso I work to locate	0.11.2.0
		such webs and locate my self and my work in such webs till I am where creativity emerges	
		in them. I study operations on accumulated past creations that produce new ones then	
		extrapolate them to invent my own creations.	
	Courage	49. I have the strange ability to fully appreciate the worth and inventiveness of others and	012345678910
		traditions around me while simultaneously challenging and overthrowing all of that in	
		everything I do, resulting in occasional creations where my challenges get accepted.	
	Anxiety Channel	50. I notice how the fundamental anxieties of existence inevitably get side-stepped,	012345678910
	Amarety Chamier		012343070710
		omitted, and slighted by people in my domain and the works they generate till I spot such	
1		11 12 11 21 41 4 1 1 12 616 1	
		slightings and by correcting them reconnect my domain to the deep realities of life, hence,	
		a creation.	
	Extended Self Development		012345678910
	Extended Self Development	a creation.	012345678910
LF.	Extended Self Development	a creation. 51. The first creation I made was myself, which I made by undoing automatic parts of me put there by where and how I grew up, substituting the best from history and the	012345678910
ELF	Extended Self Development	a creation. 51. The first creation I made was myself, which I made by undoing automatic parts of me put there by where and how I grew up, substituting the best from history and the contemporary world, and continuing this invention of myself seamlessly turned into	012345678910
SELF		a creation. 51. The first creation I made was myself, which I made by undoing automatic parts of me put there by where and how I grew up, substituting the best from history and the contemporary world, and continuing this invention of myself seamlessly turned into creating in every field I entered as the idea of extending my self via works I create.	
	Extended Self Development Interest Ecstasy	a creation. 51. The first creation I made was myself, which I made by undoing automatic parts of me put there by where and how I grew up, substituting the best from history and the contemporary world, and continuing this invention of myself seamlessly turned into creating in every field I entered as the idea of extending my self via works I create. 52. I pursue interest in everything I do, balancing myself at the very edge of all my	012345678910
		a creation. 51. The first creation I made was myself, which I made by undoing automatic parts of me put there by where and how I grew up, substituting the best from history and the contemporary world, and continuing this invention of myself seamlessly turned into creating in every field I entered as the idea of extending my self via works I create. 52. I pursue interest in everything I do, balancing myself at the very edge of all my capabilities and motives, till I am transported beyond myself where forces of the universe	
	Interest Ecstasy	a creation. 51. The first creation I made was myself, which I made by undoing automatic parts of me put there by where and how I grew up, substituting the best from history and the contemporary world, and continuing this invention of myself seamlessly turned into creating in every field I entered as the idea of extending my self via works I create. 52. I pursue interest in everything I do, balancing myself at the very edge of all my capabilities and motives, till I am transported beyond myself where forces of the universe take hold of me and use me as a vehicle for their own creating.	0.1.2.3.4.5.6.7.8.9.10
		a creation. 51. The first creation I made was myself, which I made by undoing automatic parts of me put there by where and how I grew up, substituting the best from history and the contemporary world, and continuing this invention of myself seamlessly turned into creating in every field I entered as the idea of extending my self via works I create. 52. I pursue interest in everything I do, balancing myself at the very edge of all my capabilities and motives, till I am transported beyond myself where forces of the universe take hold of me and use me as a vehicle for their own creating. 53. I create my self, then I create my own career through this world, then as I transition to	
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	Interest Ecstasy	a creation. 51. The first creation I made was myself, which I made by undoing automatic parts of me put there by where and how I grew up, substituting the best from history and the contemporary world, and continuing this invention of myself seamlessly turned into creating in every field I entered as the idea of extending my self via works I create. 52. I pursue interest in everything I do, balancing myself at the very edge of all my capabilities and motives, till I am transported beyond myself where forces of the universe take hold of me and use me as a vehicle for their own creating. 53. I create my self, then I create my own career through this world, then as I transition to	0.1.2.3.4.5.6.7.8.9.10
	Interest Ecstasy Career Invent	a creation. 51. The first creation I made was myself, which I made by undoing automatic parts of me put there by where and how I grew up, substituting the best from history and the contemporary world, and continuing this invention of myself seamlessly turned into creating in every field I entered as the idea of extending my self via works I create. 52. I pursue interest in everything I do, balancing myself at the very edge of all my capabilities and motives, till I am transported beyond myself where forces of the universe take hold of me and use me as a vehicle for their own creating. 53. I create my self, then I create my own career through this world, then as I transition to bolder and more interesting career paths, I run out of pre-made ones and start inventing new career paths never seen before, till one of these transitions becomes creation.	012345678910
	Interest Ecstasy	a creation. 51. The first creation I made was myself, which I made by undoing automatic parts of me put there by where and how I grew up, substituting the best from history and the contemporary world, and continuing this invention of myself seamlessly turned into creating in every field I entered as the idea of extending my self via works I create. 52. I pursue interest in everything I do, balancing myself at the very edge of all my capabilities and motives, till I am transported beyond myself where forces of the universe take hold of me and use me as a vehicle for their own creating. 53. I create my self, then I create my own career through this world, then as I transition to bolder and more interesting career paths, I run out of pre-made ones and start inventing new career paths never seen before, till one of these transitions becomes creation. 54. I get ideas to perform before me till one set of them captures my interest then I	0.1.2.3.4.5.6.7.8.9.10
	Interest Ecstasy Career Invent	a creation. 51. The first creation I made was myself, which I made by undoing automatic parts of me put there by where and how I grew up, substituting the best from history and the contemporary world, and continuing this invention of myself seamlessly turned into creating in every field I entered as the idea of extending my self via works I create. 52. I pursue interest in everything I do, balancing myself at the very edge of all my capabilities and motives, till I am transported beyond myself where forces of the universe take hold of me and use me as a vehicle for their own creating. 53. I create my self, then I create my own career through this world, then as I transition to bolder and more interesting career paths, I run out of pre-made ones and start inventing new career paths never seen before, till one of these transitions becomes creation.	012345678910

	Insight	55. I alternate engagement and detachment as I apply known frames to a challenge, till I	012345678910
		run out of existing frames and have to invent new ones, accumulating failures till they	
		begin to specify, inversely, what eventual solutions must be like, till a slight new idea	
		avalanches the entire set of ideas before me into an emergent sudden insight, that when	
		carefully pruned of noise, reveals a creation.	
	Cognitive Operator	56. I drive my use of certain common cognitive operators in the mind far beyond the	012345678910
	Extremes	intensities of use of them by others till results that no one has seen before obtain, some of	
		them later being judged creative.	0.1.2.2.4.5.6.7.0.0.10
	Making Sense	57. I find nearly everything in the world flawed, sloppy, half baked, deeply	012345678910
		unsatisfactory, and lacking basic sense, and I cultivate this negative vision capability till I	
Ω		see hundreds of ways to improve virtually everything in life around me, focussing on a few	
MIND	Percept Invent	which I actually fix till judged creative. 58. I am drawn to the paradoxes, contradictions, gaps, omissions, anomalies, circular arguments	012345678910
Σ	1 creept invent	in everything around me, seeing spaces where everyone else sees objects in scenes, till I dislocate	012343076310
		my own perceptions enough that I see things to fix that when I fix them become creations.	
	Experience Realization	59. I keep careful track of my experiences accepting no common thoughts, explanations,	012345678910
	1	without making sure they make complete sense to me and completely explain my	
		experience of things, till I find something everyone else accepts and depends on that has a	
		deep gap in it that does not fit my experienceby fixing it I do what others judge creating.	
	Substrate Update	60. I watch as a never-ending stream of new substrates for doing functions enters the	012345678910
		world, from global commerce, research, and technology every day and year, and observe	
		when existing functions and institutions hold onto past substrates at great cost way past the	
		time when there are good alternatives substratesby pioneering replacement of past	
		substrates for doing functions with new ones from that never-ending stream, I create.	
		64 Steps of Becoming Creative	
	Create Emotional	61. avoid dissipative encounters: just say no to excess activity	012345678910
	Space	62. manage necessities well	012345678910
		63. relinquish your insecurity-based need for praise	012345678910
я		64. practice the courage of going your own way	012345678910
ō	Find Your Self	65. keep a feeling diary	012345678910
Make Interior Room		66. develop expressive involvements	012345678910
or		67. establish a personal people museum	012345678910
eri	Liberate Your Self	68. daily life performances	0.1.2.3.4.5.6.7.8.9.10
E	Liberate Your Sell	69. avoid: constrained choice, expected rewards, evaluation, peer pressure, surveillance 70. shrink: jobs, necessities, guilt, distraction	012345678910
[e]		71. game the world: probe, text, experiment	012345678910
[zk		72. make your days into life microcosms	012345678910
Σ	Create Sub-Worlds	73. touch every situation	012345678910
		74. be an environment	012345678910
		75. make network of project spaces	012345678910
		76. invent new types of creativity	012345678910
	Locate the Creation	77. structure and schedule for creation	012345678910
	Process	78. focus creative efforts	012345678910
		79. build network in potential audiences	012345678910
E		80. de-personalize ideas, personalize timing	012345678910
8	Create Creation Environments	81. put self in environments that grow you 82. create micro environments	0.1.2.3.4.5.6.7.8.9.10
~	Environments	83. sequence of your works becomes environment for audiences	012345678910
<u>.</u>		84. evolve kinds of creativity across the lifespan	012345678910
Make Exterior Room	Focus Production	85. exercise mental muscles	012345678910
EX	1 ocus 1 routicus	86. create swarm of potential projects	012345678910
[e]		87. 1 day = 1 creation	012345678910
Ē		88. network of enterprises rhythm	012345678910
\geq	Optimize Activity	89. eradicate disliked activity	012345678910
		90. focus on doing like to dos	012345678910
		91. invest in growth, build on weaknesses not strengths	012345678910
		92. collect intersections	012345678910
	Mystify	93. actively seek misunderstanding	012345678910
		94. zazen mundainities	012345678910
		95. enter fathomless fields 96. collect: anomalies, exceptions, paradoxes	012345678910
×	Demystify	97. delay fear & anger reactions	012345678910
do		98. demystify fears	012345678910
Ľa		99. dismiss your natural solutions	012345678910
Pa		100. take plans as specs of where to improvise	012345678910
ve	Balance	101. avoid pressing	012345678910
ei,		102. balance exploration & exploitation	012345678910
Perceive Paradox		103. practice polarity alternation	012345678910
P		104. jointly express opposites	012345678910
	Un-balance	105. see points as trends	012345678910
		106. favor slighted poles	012345678910
		107. break equilibrium assumptions	012345678910
		108. find contradictory assumptions	012345678910

	7.1	100 1 1	
	Diversify	109. keep surprise diary	012345678910
		110. smell & investigate the roses	012345678910
		111. improvise daily life performances	012345678910
		112. de-rut: avoid solving routines	012345678910
_	Broaden	113. read outside of your discipline	012345678910
Mental Travel		114. link to connectors and cosmopolises	012345678910
្ទ		115. change to new field every 10 years	012345678910
		116. promote your self	012345678910
<u> </u>	Extend Horizons	117. practice persistence	012345678910
l E		118. practice multi-year commitments	012345678910
Ĭ		119. find baby fields	012345678910
-		120. find baby tools & techniques	012345678910
	Travel through Time	121. model past practice	012345678910
		122. legitimate peripheral participation	012345678910
		123. notice destinal encounters	012345678910
		124. collect tools diachronically	012345678910
		64 Steps of Creating	-
	Select Creation Type	125. expressive spontaneity	0 1 2 2 4 5 6 7 8 0 10
	Select Creation Type	126. skill virtuosity	0.1.2.3.4.5.6.7.8.9.10
			0.1.2.3.4.5.6.7.8.9.10
ne		127. combinatorial innovation: reframing knowns	0.1.2.3.4.5.6.7.8.9.10
Create Creation Machine	Instant Country of Total	128. manage emergence	012345678910
၂ ဆ	Invent Creation Tools	129. stretch mental detail handling capability	012345678910
🗵		130. develop mind extensions	012345678910
<u>E</u>		131. turn encounters into theories and methods	012345678910
ĕ	7.111.6	132. make network of mental models	012345678910
25	Establish Creation	133. inform-incubate loop	012345678910
しさ	Loops	134. incubate-illuminate loop	012345678910
يو		135. illuminate-verify loop	012345678910
8		136. verify-elaborate/communicate loop	012345678910
5	Recursively Create	137. life process fractality	012345678910
•	Problems	138. field process fractality	012345678910
		139. creation process fractality	012345678910
		140. insight process fractality	012345678910
	Generate	141. contrarian: field reversal, counter-factuality, unlikelihoods	012345678910
		142. brainstorm: split generate/evaluate, 1st private then group, take turns	012345678910
		143. prepare daily dream work	012345678910
		144. invent cross-field analogous methods	012345678910
	Associate	145. try generative ideas over valid ones	012345678910
		146. establish low arousal conditions	012345678910
-		147. establish Jansian duality, bisociate, remote associate, try opposites	012345678910
Think	D	148. recognize patterns	012345678910
	Decompose	149. rearrange problem elements	012345678910
		150. solve main elements, then details	012345678910
		151. relate classes then elements	0.1.2.3.4.5.6.7.8.9.10
	Marchaeler	152. find steps to reduce distance to goal	012345678910
	Map Analogies	153. personal analogies	0.1.2.3.4.5.6.7.8.9.10
		154. domain analogies	012345678910
		155. symbolic analogies 156. fantasy analogies	012345678910
	Commit to Vieter		
	Commit to Victory	157. if resources lack, 1st step = create them 158. be invention	0.1.2.3.4.5.6.7.8.9.10
		159. teach without teaching	012345678910 012345678910
		160. domain specific aesthetics	012345678910
	Establish Work	161. dual investment: build on strengths, fix weaknesses	012345678910
		162. practice recognition asceticism	012345678910
_ <u>_</u>	Discipline		
ne		163. measure creativity degree & progress 164. update your major bouts history	012345678910
Conquer	Normalize Creativity	165. align structures to support creating	012345678910
<u>,</u>	1101 manze Creativity	166. align processes to support creating	012345678910
		167. align events to support creating	012345678910
		168. align personalities to support creating	012345678910
	Establish Flow	169. joy of effectance	012345678910
	Latabiiali Flow	170. use talent to create experiences	012345678910
		171. develop interest in novelty for its own sake	012345678910
		172. develop interest in novelty for its own sake	012345678910
		1/20 develop invincionity conviction	012343076910

	Establish F	Convilation	173 outo	maton element sets complete	012345678910
	Auton			maton element sets complete	012345678910
	Auton	iaton		maton element sets ordered	012345678910
				maton element sets ordered	012345678910
9	Establish I	Doflovivity		planned goals	012345678910
Manage Emergence	12Stablish 1	CHEATVILY		emergent goals	012345678910
50				planned combinations	012345678910
ne				emergent combinations	012345678910
짚	Tune the A	utomoton		st what is near and far	012345678910
e.	Tune the A	utomatom		st what is rical and laid st what is visible and hidden	012345678910
185				st what is visible and inducti st what is emerging and disappearing	012345678910
ar				st what is energing and disappearing	012345678910
Σ	Prune the A	utomoton		th secondary goals and results	012345678910
	Trunc the A	tutomaton		th marginal variables	012345678910
				th obvious results	012345678910
				th cumbersome methods	012345678910
		95 C			
				Ostering Conditions of the Darwinian Systems Model of Creat	
	cognitive	What cognit	-	189. network of enterprises	012345678910
	process	generates va		190. immune to social conformist pressures	012345678910
	creative people?			191. de-rutting by deliberate radical change of environment	012345678910
		What cognit	-	192. images of wide scope	012345678910
			mbinations in	193. selective combination	012345678910
		creative peop	ple?	194. use of unusual metaphors	012345678910
				195. simultaneous presence of contradictions without choosing one pole as right	012345678910
				196. abstracting features of a problem sufficiently to see relations to other	012345678910
				fields and problems and scan past experiences/cases	
		What cognit		197. select problems to work on for high leverage	012345678910
		selects comb		198. selective coding (relevance) and selective comparison	012345678910
		creative peop	ple?	199. building up failure indices as tries fail that further specify features of	012345678910
		****		possible solutions	0.1.2.2.4.5.6.7.0.0.10
	What cogni			200. excite network with works 201. marketing by the person throughout their career	0.1.2.3.4.5.6.7.8.9.10
		-	elected items	202. wide distribution of one's works then networking with holders of them	0.1.2.3.4.5.6.7.8.9.10
		in creative p	eopie:	to arrange higher market salience and value for them	012345678910
				203. selection of visibility gaining innovationd devices over subtler ones	012345678910
	environment	What enviro	nment and	203. Selection of visibility gaining innovationa devices over subtlet ones 204. end of empire	012345678910
	and zeitgeist		reative people	205. borderline metropoli	012345678910
	and zengeist	generate var		206. self-built "crafted world" of tools and images	012345678910
		What enviro		207. competition among disciplines	012345678910
		zeitgeist of c		207. Competition unlong disciplines	0.11.2.3.4.3.0.7.0.7.10
		people gener		208. venues wherein different disciplines are co-exhibited/co-evaluated	012345678910
E		combination		200. Vendes wherein america disciplines are eo estimologico estadated	0.11.2.03.1 1.10.10.17 1.10.13 1.10
Person		What enviro		209. intrinsic motivation	012345678910
ē			reative people	210. lack of direct supervision	012345678910
_		select combin		211. local informal meeting places for multiple arts or disciplines where	012345678910
				new ideas can be improvised and tried out safely	
		What enviro	nment and	212. discipline districts wherein word spreads fast and inexpensively	012345678910
			rative people		
		_	elected items?		
	lifespan	What lifespa		213. immigration	012345678910
	1	_	ics of creative	214. cross-discipline work	012345678910
		people gener		215. lasting experience of two or more cultures	012345678910
		variation?		216. being new to a field	012345678910
				217. being self taught	012345678910
				218. being very young	012345678910
				219. having changed fields	012345678910
		What lifespa	ın	220. exposure to creative adults as child	012345678910
		characteristi	ics of creative		
		people gener	ate	221. great personal productivity	012345678910
		combination	s?		
		What lifespa	ın	222. being new to the field/domain	012345678910
		characteristi	ics of creative		
		people select		223. applying techniques from other fields within the field	012345678910
		combination			
		What lifespa		224. self promotion activity during or after production	012345678910
			ics of creative		
İ			duce selected	225. having formed new organizations with peers before withdrawing into	012345678910
		items?		mid-career competitive isolation	

	cognitive	What cognitive process of	226. tire of own methods or subjects	012345678910
	process	creative fields generates	227. turn on or foster own cannon	012345678910
	process	variations?	228. training by abstract principles versus training by cases or master-disciple relationship	012345678910
		What cognitive process of	229. compose cannon representing history of best of the domain	012345678910
		creative fields generates	22). Compose cumon representing instory of best of the domain	012343078710
		combinations?	230. factionalization of the field (division into competing schools)	012345678910
		What cognitive process of	231. select boundary challenges to applaud or discard	012345678910
		creative fields selects	232. build failure indices as funders of efforts till accumulated failed tries	012345678910
		combinations?	specify solution enough that someone succeeded	
		What cognitive process of	233. solicit emulators of best performers/performances directly or indirectly	012345678910
		creative fields reproduces	by acclaim	
		selected items?	234. training by master-disciple relationship	012345678910
	environment	What environment and	235. offer better rewards than other fields so as to attract the best people	012345678910
	and zeitgeist	zeitgeists of creative fields	236. have to compete with other fields for growing rewards/opportunities	012345678910
	una zengeist	generate variations?	/people (photos destroying realistic painting in early 1900s)	0.11.2.0
		5	237. openness of the field fosters variant solicitation and acceptance	012345678910
			(hierarchical fields tend to resist variants till they are approved)	0.11.2.0
		What environment and	238. cross-discipline projects, funding, and prize competitions	012345678910
		zeitgeists of creative fields	250. cross discipline projects, randing, and prize competitions	012343070710
_		generate combinations?	239. major society multi-discipline project opportunities	012345678910
Field		S	225	
臣		What environment and	240. competition to obtain leading critic positions	012345678910
		zeitgeists of creative fields	241. generation change among critics and display/publicity means	012345678910
		select combinations?	242. change of fundamental infrastructure	012345678910
			243. autonomy of field from other fields for evaluating its own results (=	012345678910
			degree of codification, codification = autonomy)	0.11.2.03.1 1.00.7 1.00.9 1.10
		What environment and	244. cross-inspiration achieved of one discipline by accomplishments of others	012345678910
		zeitgeists of creative fields	245. documenting era and age in entirety	012345678910
		reproduce selected items?	246. social supersaturation (example: due to end of empire, sujddenly	012345678910
		reproduce selected items	freeing simultaneous dammed up forces for change)	0.11.2.0
	lifespan	What lifespan	247. not over-educate own field members yet make cannon methods training	012345678910
	P	characteristics of creative	widely available	
		fields generate variations?		
		What lifespan character-	248. events joining misfits of field with leading figures	012345678910
		istics of creative fields	249. reorganizations that combine distant subdisciplines	012345678910
		generate combinations?	250. value centrality attracts people from many other domains	012345678910
		What lifespan character-	251. circulation from achievers to critic positions and vice versa	012345678910
		istics of creative fields	*	
		select combinations?		
		What lifespan character-	252. degree of cumulativeness of technique or results required/encouraged	012345678910
		istics of creative fields	253. institutions for teaching the canon in the context of improvements to be	012345678910
		reproduce selected items?	made in it	
	cognitive	What cognitive processes	254. lend itself to plural representations	012345678910
	process	of creaive domains		
		generate variations?		
		What cognitive processes	255. express itself in symbol system supporting many inter-relations among	012345678910
		of creative domains	symbols	
		generate combinations?		
		What cognitive processes	256. standard expression vocabulary and standards of work making	012345678910
		of creative domains select	excellence visible	
		combinations?	257. build up of failure indices in history of efforts in a field till solution	012345678910
			breakthroughs	
		What cognitive processes	258. an immortality vehicle of awards, events, publishings that bring the best	012345678910
		of creative domains	to attention of entire field	
_ u	•	reproduce selected items?	250 (1)	010015
<u></u>	environment	What environments and	259. takes up and extends themes of the era/zeit	012345678910
Domain	and zeitgeist	zeitgeists of creative domains		
Ă		generate variations?		0.1.2.2.1.5.6.7.0.0.10
		What environments and	260. collaborates with other disciplines in holistic projects	012345678910
		zeitgeists of creative	261	0 1 2 2 4 5 6 7 9 9 19
		domains generate	261. events, seminars, exhibitions of arts criss-crossing sciences and vice	012345678910
		combinations?	versa, technologies crossing arts	012245670010
		What environments and zeitgeists of creative	262. finds analogous creations to express era's issues, concerns, contradictions = domain becomes metaphor for era	012345678910
		"	•	012345678910
		domains select	263. domains in eras seeing themselves as unique in history 264. domains in eras seeing themselves as modern repeats of classical	012345678910
		combinations?	previous eras of excellence	012343070710
		What environments and	265. academic departments teaching the canon of the field to novices	012345678910
		zeitgeists of creative	200. deadenine departments teaching the canon of the field to novices	012343070710
		domains reproduce	266. domains in environments of intense competition among leading cities	012345678910
		selected items?	for attracting world best art, science, etc.	
	1		1 9 11 11 11 11 11 11 11 11 11 11 11 11	l .

	lifespan V	What lifespan	267. normal science versus paradigm change science	012345678910
	c	haracteristics of creative	268. backwater status so long that all intellectual trends can interactively be	012345678910
	d	lomains generate	applied suddenly at once, revolutionizing the field	
		ariations?	269. backwater status attracting a few pioneering individuals attracted by	012345678910
			lack of competition and many obvious improvement opportunities	
	 	X/L = 4 126		012345678910
		What lifespan	270. inevitable inventions as myriad efforts converge on same set of problem	0123430/8910
		haracteristics of creative	approaches and prerequisite knowledge accumulates	
. ≣	d	lomains generate	271. domains recently revolutionized seek inter-domain interactions to	012345678910
E	c	ombinations?	export own worth and import fodder for further revolution	
Domain	ī	What lifespan character-	272. creativity critics that compare and contrast output quality of various	012345678910
-		stics of creative domains	fields	
		elect combinations?		
	l —	What lifespan character-	273. domains that are useless in some sense last longer than domains that are	012345678910
				012545078710
		stics of creative domains	usefulfor example abstract science outlasts particular engineering principles	
	r	reproduce selected items?	274. on the contrary, domains that have transformed conditions of life for all	012345678910
			of civilization repeatedly, like medicine or physics, also reproduce their	
			innovations lastingly and well	
			25 Steps from the Insight Model of Creativity	
	TDV EX	CTING EDAME	<u> </u>	0 1 2 2 1 5 6 7 0 0 10
		STING FRAME	275. 1. Select Problem both problem and features of the problem to attend to	012345678910
	Represe	ent the Problem	276. 2. Abstract Features from problem descriptions of others and new	012345678910
			descriptions you generate	
<u>.</u>	Engagemen	t, Inductive Model	277. 3. Case IndexMatch Cases find past problems similar to current one	012345678910
S E.		problem consists of X	278. 4. Represent Problem in multiple ways, as many ways as possible,	012345678910
Exhausting First Impressions	3,	-	both careful and playful	1
56.52 Si-52			279. 5. Find Representation Invariants to problem across various	012345678910
es E			•	012343076910
us pr	CTOB EX	ICTING ED AND	representations, these will be rather abstract	012245670010
n n		ISTING FRAME	280. 6. Select Assumptions (Implicit in the problem, you, your background)	012345678910
ĮΣ,Τ		sent the Problem	281. 7. Abstract Constraints (witting and unwitting)	012345678910
	Detachment,	Model Breaking and	282. 8. Context IndexSwitch Contexts and activities	012345678910
	Expanding, tl	nings that are X have	283. 9. Apply Outside of Field knowledge, images, techniques	012345678910
	not b	een tried yet	284. 10. Find Representation Variants what varies as you change ways to	012345678910
		•	represent the problem	
	SPECIE	Y NEW FRAME	285. 11. Select Solution Attempts that failed thus far	012345678910
			286. 12. Abstract Failed Hypotheses abstract hypotheses from failed	012345678910
	Represent Points of Failure			0123430/8910
	Engagement Industive Model		solution attempts	0.1.2.2.1.5.6.7.0.0.10
S		t, Inductive Model	287. 13. Failure IndexSpecify Causes of Failure state why and how each	012345678910
Despair Doorway to Inventing New Frames		'ailure Points), things	hypothesis failed	
≥ <u>@</u>	that are	e X don't work	288. 14. Reverse Failure Causes reverse causes of failure to find what	012345678910
\\$ \(\(\(\) \)			each tells you about nature of eventual solution	
₹ ≱			289. 15. Find Eventual Solution Attribute Invariants find invariants in	012345678910
١٥٩			all solutions tries that failed and all reverse specifications of eventual solution	
- 's	GENERA	TE CANDIDATE	290. 16. Select Parallel Project Involvements multi-task in wildly different	012345678910
i.≝.⊞		N COMPONENTS	projects to refresh frames, contexts, morale, images	
E E		Alternative Partial	291. 17. Abstract Analogies in Other Domains to find what is common	012345678910
s s				012343078910
		ns and Solution	about problems across domains and potential solutions across them	0.1.2.2.1.5.6.7.0.0.10
		mponents	292. 18. Discourse IndexSeek Out New Discourse Partners and discuss	012345678910
		Model Breaking and	your stuck-nesses with them	
	Expanding,	what about trying X	293. 19. Apply Out-of-Field Solutions Components inside your own field	012345678910
			294. 20. Find Invariants in Aspects of Partial Solutions that work partially	012345678910
	REDUC	CE AND TEST	295. 21. Select Combinations of partial solutions and solution elements	012345678910
, n	Recognize an	d Combine Solution	gained from analogies with other domains	
⊈ ∑.	_	mponents	296. 22. Abstract Patterns from combinations and analogies to try	012345678910
Insight as Victory		t, Inductive Model	297. 23. Partial Solution Indexseparate helpful from unhelpful patterns	012345678910
1.20.21		(of best solution	among solution elements	
				0 1 2 2 4 5 6 7 8 0 10
_		n), things that are X	298. 24. Specify What Part of Each Pattern Works and does not work	012345678910
	hel	p in way Y	299. 25. Find Invariants Among Working Patterns as your overall solution	
		11 Dimensions of	of Creativity from The Population Automaton Model of Creati	vity
	POPULATION	Automation	300. number and types of basic units in the population	012345678910
Ω	AUTOMATON	Parameters	301. number and types of states/behaviors per basic unit type	012345678910
E		- arameters	302. number and types of states/benaviors per basic unit type	
2.5				0.1.2.3.4.5.6.7.8.9.10
			303. number and types of interactions among units sharing a neighborhood type	0.1.2.3.4.5.6.7.8.9.10
0.5			304. number and types of interactions between neighborhoods of the same and different type	012345678910
		Population Parameters	305. connectedness parametershow connected (communicativeness of link	012345678910
			and number of links)	
S			306. diversity parametershow many types	012345678910
			307. patchings parameterhow many centers of initiative (of various types) in the population	012345678910
125		Complexity Amount	308. niches created per new niche created	012345678910
HA		Parameters (Kauffman's	309. subsystems created by combining previous subsystems	012345678910
POPULATIONS ORGANIZED AS AUTOMATONS		· ·	310. new processes created by combining previous processes	
		"adjacent beyond")		012345678910
교		Reflexivity Parameters	311. distributedness achieved of emergent pattern recognizer function	012345678910
0			312. distributedness achieved of purpose setter function	012345678910
			313. distributedness achieved of fittest pattern recognizer function	012345678910

	GENETIC	Natural Selection	314. variant generation	012345678910
	AUTOMATON	Parameters	315. random mutation	012345678910
			316. heuristic mutation	012345678910
			317. variant combination	0.1.2.3.4.5.6.7.8.9.10
			318. proximate combination	0.1.2.3.4.5.6.7.8.9.10
			319. distant combination 320. diffusive combination	012345678910
			321. variant selection	012345678910
			322. levels of selectionselection of trait codes, selection of trait controlling	012345678910
			codes, selection of codes that control trait controls	0.11.2.13.14.13.10.17.10.13.110
			323. variant reproduction	012345678910
		Natural Selection	324. natural selection processes selected for (natural selection process type	012345678910
		Selections	selection)embedded fractal natural selection processes within natural	
			selection processes in creation	
			325. faster/slower mutation selected for (mutation rate selection)	012345678910
			326. invented new forms of sexuality (combination) selected for (sexuality	012345678910
S			type selection)	
Ō			327. environment preferences selected for (environment type selection).	012345678910
ΥŢ	GENERATIVE	The Cognition	328. precision of count of main points	012345678910
W	AUTOMATON	Automaton, of	329. precision of naming of main points	012345678910
Ō		Populations of	330. precision of ordering of main points	0.1.2.3.4.5.6.7.8.9.10
Ţ		Thoughts in Minds	331. clarity of ordering of main points	0.1.2.3.4.5.6.7.8.9.10
ΑI			332. recall/retrievability of ordering of main points	0.1.2.3.4.5.6.7.8.9.10
S		The Incidht	333. fractality of branch factor in ordering of main points 334. number and unobviousness of features abstracted	012345678910
A (The Insight Automaton, of	335. number and unobviousness of reatures abstracted 335. number and unobviousness of frames selected	012345678910
EI		Populations of Failed	336. number and unobviousness of problem representations selected	012345678910
IZ		Solution Attempts in	337. number and unobviousness of solution attempts tried that failed	012345678910
Z		Minds	338. number and unobviousness of cross-domain analogies seen and attempted	012345678910
GA		1	339. number and unobviousness of reasons identified of why failed attempts	012345678910
Ř			failed	
3			340. thoroughness of indexing of features, frames, representations, failed	012345678910
POPULATIONS ORGANIZED AS AUTOMATONS			attempts, domain analogies, reasons for failure	
10			341. recall/retrievability of indexing of features, frames, representations,	012345678910
T			failed attempts, domain analogies, and reasons for failure	
[A		The Social	342. the commitment to marketing of the creator	012345678910
PU		Automaton, of	343. the inherent visibility of the creative work itself, independently of its	012345678910
ō		Populations of Voices	worth or eventual destiny	0 1 2 2 4 5 6 5 0 0 10
Ь		in the Field or Works	344. the hunger of the field for further developments in present incipient trends	0.1.2.3.4.5.6.7.8.9.10
		in the Domain	345. the creative explosive re-interpretation in audience minds when particular creative works in a domain are combined	012345678910
			346. the interplay of person, personae, and work in a field/domain	012345678910
		The Domain	347. the rigidity and clarity of the status hierarchy among domains	012345678910
		Automaton, of	348. the plurality of sources of judgement and funding within and among	012345678910
		Populations of	domains	
		Domains Interacting	349. the number of domains sharing the same technical symbol systems	012345678910
		in a Society	350. the hunger of particular domains for new methods	012345678910
			351. the hunger of particular domains for new objects of study	012345678910
			352. the analogy types among domains:	012345678910
			353. number of circumstantial analogies and elaborateness of feature	012345678910
			matchesthings facing same environment develop similar responses	0 1 2 2 4 5 6 7 9 0 10
			354. number of mimicry analogies and elaborateness of feature matchesthings that copy other things end up similar	012345678910
			and copy other things end up similar 355. number of recruitment analogies and elaborateness of feature matches	012345678910
			finding another use of a thing once it is found of use in one place and way	012343078910
			356. number of building block analogies and elaborateness of feature	012345678910
			matchesfinding all the possible uses of a thing once it is found of use in one	0.1112.1011.1101.1711.01191.110
			place and way.	
	PARADOX	Negation	357. simultaneous opposites generated by negation in the mind (so-called	012345678910
	GENERATORS		Jansian thinking)	
			358. degree of oppositeness achieved	012345678910
\mathbf{S}			359. equality of investment in both ends of various polarities	012345678910
ΧŌ			360. capability of performing both ends of various polarities	012345678910
₹T		Hubris	361. broken illusions, as attempts fail, generated by hubris	012345678910
32			362. degree of disappointment at failed attempts tolerated without stopping	012345678910
為			the generation of new attempts	0.1.0.2.4.5.6.7.0.0.10
PARADOX GENERATORS			363. degree of emotional detachment (skepticalness) maintained about own	012345678910
5			solution attempts so that failure does not provoke stopping the process of solving	012245670010
			364. degree to which the constraints and frustrations of the world are embedded in the creator's model of the world as a trying place without	012345678910
			creating image of the world as impossible or undesirable place	
			creating image of the world as impossible of undestrable place	l

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NTERPRETATION SYSTEM 391. size of avalanche events 01.23.45
PARAMETERS: 393. degree of self organized criticality in the system before and after the avalanche 0.1.23.45
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PARAMETERS, FOR 395. the unobviousness of the re-interpretations generated 0.1.23.45 395. the unobviousness of the re-interpretation of the works of the domain 396. the amount of elapsed time of the re-interpretation of the works of the domain 397. the number of previous solution attempts re-interpreted by a particular insight 0.1.23.45 398. the unobviousness of the re-interpretation generated 0.1.23.45
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PARAMETERS, FOR CREATIVE WORKS AS AVALANCHES: AS AVALANCHES: AVALANCHES: PARAMETERS, FOR INSIGHTS AS AVALANCHES: 395. the unobviousness of the re-interpretation of the works of the domain 396. the amount of elapsed time of the re-interpretation of the works of the domain 397. the number of previous solution attempts re-interpreted by a particular insight 0.1.2.3.4.3 398. the unobviousness of the re-interpretation generated 0.1.2.3.4.3 399. the amount of elapsed time of the re-interpretation of those solution attempts in a particular insight event
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CREATIVE WORKS AS AVALANCHES: AVALANCHE EFFECT PARAMETERS, FOR INSIGHTS AS AVALANCHES: OBVIOUSNESS PHENOMENA, CREATIVE WORKS AS AVALANCHES: AVALANCHE EFFECT PARAMETERS: OBVIOUSNESS PARAMETERS

	THE SOCIO- LOGICAL	PERSON PARAMETERS:	406. life history event types that foster creative dispositional elements like personal productivity, non-conformism, and so on	012345678910
×		PARAMETERS:		0 1 2 2 4 5 6 7 8 0 10
SOCIO-PSYCHIC LEVELS MATRIX	LEVELS		407. social support configuration that makes a particular creator isolated enough	012345678910
I			to break boundaries yet connected enough that those breakings contribute to others	0.1.2.2.1.5.6.7.0.0.10
T.		WORK	408. attentional properties of the work, independent of its initial or final	012345678910
2		PARAMETERS:	worth and destiny	0.1.2.2.1.5.6.7.0.0.10
Ľ			409. semiotic properties of the work, linking it to trends in the field	012345678910
Œ			410. opportunistic properties of the work, creating appeal in particular	012345678910
E			configurations of people, funders, and critics at particular times facing	
Γ			particular exigencies	
Γ		FIELD	411. salience of a field among others in competing for best people, works,	012345678910
H		PARAMETERS:	methods	
$^{\prime}$ C			412. connectedness, diversity, and patchings parameter settings of a field	012345678910
S			relative to others for fostering many variants and many frames for positively	
ŀ			evaluating variants	
2		DOMAIN	413. presence of standard symbolic language across the domain, making	012345678910
\Box		PARAMETERS:	judgements of worth of contribution more easily evaluated	
õ			414. recent history of previous struggles in the domain and the disposition	012345678910
9 1			towards radicality or conservative evolution it fosters	
	THE POPULA	ATION LEVELS	415. thoughts, emotions, social relations, organized domains	012345678910
	THE	FLEXIBLE	416. how rich is the creator's environment in variety of things	012345678910
	TWELVE	BRICOLAGE,	opportunistically usable in different contexts	
	PARADOXES	ASSOCIATIONS	417. how flexible is the creator's imagination at putting things to use in	012345678910
		PARAMETERS:	frames other than their standard use ones	
			418. how unobvious and intellectually/emotionally distant are the associations	012345678910
			the creator makes to any stimulus	
		TOLERANCE FOR	419. how disposed to preserver in the face of failure and difficulty is the creator	012345678910
		FAILURE	420. how many failures of what type does it take to reduce the commitment	012345678910
		PARAMETERS:	of the creator to a particular line of attack	
			421. how does the creator balance need for perserverence with need for	012345678910
			flexibility of approach	
		MARGINALITY,	422. how much commitment to and mastery of existing technique and	012345678910
		INGENUE, IN BUT	knowledge of a domain does it take to reduce ability to innovate a certain	
		NOT OF,	amount	
		SUPPORTED LONER	423. what single link of what level of quality does it take to remove just	012345678910
		PARAMETERS:	enough of the loner-ness of the creator to make him/her impact a field	
		METHOD,	424. how many different domains furnish possible analogies for a situation	012345678910
		PROCESS,	in a particular domain	
S		APPROACH,	425. how widely read is the creator	012345678910
Ä		SIMILIARITY	426. how diverse are the person's with whom the creator speaks on a regular	012345678910
2		METAPHOR	basis	
A7		PARAMETERS:	427. how many different domains can the creator easily converse with	012345678910
(R			someone in, when need arises	
Ż			428. how specific is the mapping of parts of any one analogy from one	012345678910
Ξ			domain to parts of another domain	
9		COMPETING	429. how many different authorities are funded and respected in the field at	012345678910
\sim			any one time	
		AUTHORITY	any one unie	
D0		AUTHORITY PARAMETERS:	<u> </u>	012345678910
ADO			430. how different are the approaches and values of the different authorities	012345678910
ARADO			430. how different are the approaches and values of the different authorities tolerated in the field at any one time	
PARADOX GENERATORS			 430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and 	
PARADO		PARAMETERS:	 430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 	012345678910
PARADO		PARAMETERS: PLAYFULNESS,	 430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the 	012345678910
PARADO		PLAYFULNESS, REGRESSION IN	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind	012345678910 012345678910
PARADO		PLAYFULNESS, REGRESSION IN SERVICE OF THE	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative	012345678910 012345678910
PARADO		PARAMETERS: PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance	012345678910 012345678910 012345678910
PARADO		PLAYFULNESS, REGRESSION IN SERVICE OF THE	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more	012345678910 012345678910 012345678910
PARADO		PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO PARAMETERS:	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more emotive, associatively rich, childish capabilities	012345678910 012345678910 012345678910 012345678910
PARADO		PARAMETERS: PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO PARAMETERS: DISINTERESTED	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more emotive, associatively rich, childish capabilities 435. how assiduously did the creator learn and link him/herself to the social	012345678910 012345678910 012345678910 012345678910
PARADO		PARAMETERS: PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO PARAMETERS: DISINTERESTED SELF PROMOTION	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more emotive, associatively rich, childish capabilities 435. how assiduously did the creator learn and link him/herself to the social substructures of his/her field	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
PARADO		PARAMETERS: PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO PARAMETERS: DISINTERESTED	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more emotive, associatively rich, childish capabilities 435. how assiduously did the creator learn and link him/herself to the social substructures of his/her field 436. what minimum amount and quality of links suffices to create possibility	012345678910 012345678910 012345678910 012345678910 012345678910
PARADO		PARAMETERS: PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO PARAMETERS: DISINTERESTED SELF PROMOTION	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more emotive, associatively rich, childish capabilities 435. how assiduously did the creator learn and link him/herself to the social substructures of his/her field 436. what minimum amount and quality of links suffices to create possibility of impacting a field	012345678910 012345678910 012345678910 012345678910 012345678910 012345678910
PARADO		PARAMETERS: PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO PARAMETERS: DISINTERESTED SELF PROMOTION	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more emotive, associatively rich, childish capabilities 435. how assiduously did the creator learn and link him/herself to the social substructures of his/her field 436. what minimum amount and quality of links suffices to create possibility of impacting a field 437. what properties of the person and his/her work make such linkages	012345678910 012345678910 012345678910 012345678910 012345678910 012345678910
PARADO		PARAMETERS: PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO PARAMETERS: DISINTERESTED SELF PROMOTION PARAMETERS:	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more emotive, associatively rich, childish capabilities 435. how assiduously did the creator learn and link him/herself to the social substructures of his/her field 436. what minimum amount and quality of links suffices to create possibility of impacting a field 437. what properties of the person and his/her work make such linkages work well in creating impact and work poorly	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
PARADO		PARAMETERS: PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO PARAMETERS: DISINTERESTED SELF PROMOTION PARAMETERS: PERSONAL	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more emotive, associatively rich, childish capabilities 435. how assiduously did the creator learn and link him/herself to the social substructures of his/her field 436. what minimum amount and quality of links suffices to create possibility of impacting a field 437. what properties of the person and his/her work make such linkages work well in creating impact and work poorly 438. how much more productive than normal persons not contributing	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
PARADO		PARAMETERS: PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO PARAMETERS: DISINTERESTED SELF PROMOTION PARAMETERS: PERSONAL PRODUCTIVITY	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more emotive, associatively rich, childish capabilities 435. how assiduously did the creator learn and link him/herself to the social substructures of his/her field 436. what minimum amount and quality of links suffices to create possibility of impacting a field 437. what properties of the person and his/her work make such linkages work well in creating impact and work poorly 438. how much more productive than normal persons not contributing creatively in a domain is the creative person	012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910
PARADO		PARAMETERS: PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO PARAMETERS: DISINTERESTED SELF PROMOTION PARAMETERS: PERSONAL	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more emotive, associatively rich, childish capabilities 435. how assiduously did the creator learn and link him/herself to the social substructures of his/her field 436. what minimum amount and quality of links suffices to create possibility of impacting a field 437. what properties of the person and his/her work make such linkages work well in creating impact and work poorly 438. how much more productive than normal persons not contributing creatively in a domain is the creative person 439. can creative contribution take place by someone not more productive	012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910
PARADO		PARAMETERS: PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO PARAMETERS: DISINTERESTED SELF PROMOTION PARAMETERS: PERSONAL PRODUCTIVITY	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more emotive, associatively rich, childish capabilities 435. how assiduously did the creator learn and link him/herself to the social substructures of his/her field 436. what minimum amount and quality of links suffices to create possibility of impacting a field 437. what properties of the person and his/her work make such linkages work well in creating impact and work poorly 438. how much more productive than normal persons not contributing creatively in a domain is the creative person 439. can creative contribution take place by someone not more productive than usual persons in the domain	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
PARADO		PARAMETERS: PLAYFULNESS, REGRESSION IN SERVICE OF THE EGO PARAMETERS: DISINTERESTED SELF PROMOTION PARAMETERS: PERSONAL PRODUCTIVITY	430. how different are the approaches and values of the different authorities tolerated in the field at any one time 431. how easy is access to these authorities by newcomers, novices, and mediocre contributors of the field 432. how much is the childhood mind's over-connectedness preserved in the adult mind 433. how essential is such over-connectedness preservation to creative performance 434. how well does the mind professionally and disinterestedly use its more emotive, associatively rich, childish capabilities 435. how assiduously did the creator learn and link him/herself to the social substructures of his/her field 436. what minimum amount and quality of links suffices to create possibility of impacting a field 437. what properties of the person and his/her work make such linkages work well in creating impact and work poorly 438. how much more productive than normal persons not contributing creatively in a domain is the creative person 439. can creative contribution take place by someone not more productive	012345678910 012345678910

			T	
	THE	TAKING POINTS AS	441. what points that others take as points does the creator take as places	012345678910
S	TWELVE	TRENDS	within trends	
PARADOX GENERATORS	PARADOXES	PARAMETERS:	442. how much interpolation does the creator use	012345678910
1			443. how much extrapolation does the creator use	012345678910
¥		RE-CONNECTING	444. the degree of frustration of audiences in the field and in society	012345678910
X		TO SPONSORS/	supporting the field with outputs of the field	
Ë		AUDIENCES	445. the degree of satisfaction of audiences/sponsors in the field with the	012345678910
国		PARAMETERS:	present outputs of the field	
9		CANON AS	446. the degree to which particular creations re-configure parts of the canon/tradition	012345678910
×		BUILDING BLOCK	447. the number and salience of items in the canon that are reconfigured by	012345678910
\simeq		PARAMETERS:	any one creation	0.17.12.13.11.10.10.17.11.01.3.11.10
A		DOMAIN/TRADITION	448. the degree of idea-richness and sponsor-richness attained (and required	012345678910
~		INVENTION	to cause a single creation or insight to become a new domain)	012343070710
PA		PARAMETERS:	449. the supercriticality of a domain that causes it to be a likely sponsor of	012345678910
_		FARAMETERS:		012343078910
			spin-off new domains	l
			tive Intersection Types from Crossing/Blending Cultures	
	Loosen hold o		450. 1) expanded repertoires of ways to do thingssuggest alternatives and	012345678910
	unthinking wa	ys of doing things	variants not imaginable in one culture	
7			451. 2) creative surprises from incompatible frameworkstrain and rehearse	012345678910
je			people in the creativity inherent in people who invent civilizations and ways	
Frameworks Loosened & Plurified			of living and unique selves while getting them used to and expecting surprise	
₽	Vacuum that	draws out new	452. 3) external quietudelike vacuum power, shuts down the constant	012345678910
1 2	responses and	ideas	bombardment of one's own culture (mostly from seeing and hearing messages	
9			in its language, but also repetition of the same attitudes and tastes, daily) in	
eq			the resultant quiet thus produced, one's own internal visions and imaginings	
en			grow without prejudice, external evaluation, or opinions of others	
S			453. 4) available emotionrenews the heart and mind with feeling richness	012345678910
3			that, on a daily basis, was never experienced before; the experience of living	012343070710
· S			itself simply becomes fuller	
Ę	Alternative wa	ave roportoiro	454. 5) relativization of valuesseeing two cultures totally incompatible	012345678910
8	Alternative wa	ays repertone		012343078910
ě			with each other yet each wholly believing it is right and natural, makes one	
an			doubt all values, beliefs, and relicts of how one was born and raised,	
Ē			lubricating the change of values, making it easier to change values	
_			455. 6) practice mapping differencesdone dozens of times per day or hour,	012345678910
			practices the mind in making slight, subtle distinctions not made by people	
			comfortably living within a culture they unconsciously imbibed while growing up	
Solut	tions as New Cu	ltures Penetrated	456. 7) metaphor for discoveryquotidian discovery of the other culture as a	012345678910
			metaphor for the eventual solution as a similar discovery of a coherent other	
			world of meaning.	
		16 Sub	creation Types from the Subcreations Model of Creativity	
	Spaces		457. space for making, producing, composing, giving final form to ideas	012345678910
	_		458. space for combining, blending, mixing, fusing, using variations as	012345678910
			words in sentences	
			459. space without distraction, hassle free space, reliable periods of non-	012345678910
			interruption, elevated mood	
			460. time space, that is, schedule and rhythm of work, uninterrupted,	012345678910
			undisturbed, unevaluated	
	Social Extensi	ons	461. peers, competitors, allies	012345678910
			462. students, schools of followers, recruits	012345678910
			463. cognitive friend network (of people who perform specific cognitive	012345678910
us			functions for you: news, edits, etc.)	0.12343070510
.0			464. avenues of built up past impression, contribution, authority, customer	012345678910
ş			contact, customer trust	012343078910
3	Mind Extension	and .	465. mental tools, work environments, life environments, presence to audiences	012345678910
ubcreations	Willia Extensio	ліз		
\mathbf{S}			466. work environments	0.1.2.3.4.5.6.7.8.9.10
			467. living environments	0.1.2.3.4.5.6.7.8.9.10
	A 4'C 4 . C 1		468. presence to audiences	012345678910
	Artifacts of A	ction	469. cannon operations artifactstools invented for mastering the cannon of	012345678910
			past works in a field	
			470. question finding artifactstools invented for discerning the questions	012345678910
			worth answering	
			471. alternative generating artifactstools invented for diverging from the	012345678910
			usual/norm/center/popular	
			472. breakthru and impact artifactstools invented for conquering particular	012345678910
			resistances	

		T	he 64 Creativity-as-Accelerated-Learning Dynamics	
	simulate	devil's advocate	473. skepticism embodied in personal challenging of one's own interests,	012345678910
	experience	role play	proposals, hypotheses 474, put on the role of someone else to see what things look like from their	012345678910
		possible futures search	point of view 475. consult all stakeholders for asynchronous conversational workshop on	012345678910
		conference causal maps	what futures are possible, likely, desirable 476. articulate what causes what, what effects what, build maps of what such	012345678910
	social	standard cognitive tool	models others have in their minds 477. every few months or years master a new set of inter-related tools for	012345678910
	computation	vertical horizontal	improved mental work 478. cross different scales of idea, rank orderings of fields or ideas by importance;	012345678910
		cascade processes	cross different ideas or fields or issues at the same level of scale of importance	0.1.2.2.4.5.6.7.0.0.10
l g		computation deployments JIT self configuring	479. deploy computation processes vertically or horizontally within your mind 480. revisit groupings of ideas in your mind gradually observing how they	012345678910
ati		structures	interact within groupings	012343070710
orm	narration events	incidental encounter spaces	481. create times, activities, or events within your mind wherein ideas not normally together can join and meet each other	012345678910
nce I		cellular workspaces	482. connect yourself with appropriate others at exactly the times and places where their advice is needed	012345678910
Experience Formation		corporate cabaret events	483. periodically celebrate by yourself all you have accomplished in life, rehearsing again and again what was faced, what was suffered/endured, what was overcome, what was learned	012345678910
		gossip compilation	484. periodically (weekly perhaps) collect all snippets of information, notes, jottings, overheard ideas, and put them into a more permanent, ordered, and usable form	012345678910
	organization reflection	capture crises as learning	485. when unexpected failures occur to you, whether through your fault or not, examine them in great detail, thoroughly finding all they can teach you about actual dynamics at play	012345678910
		deploy functions continually	486. whatever new functions or procedures one part of your mind invents or learns deploy to other parts of your mind	012345678910
		SWAT organization forms	487. replace standard ways of organizing your mind, files, and work with a repertoire of many ways, one or several of which you combine for each case as needed	012345678910
		Organization cognition management	488. study how you study, learn how you learn, think how you thinkmeta-cognition in other wordsthe manage how you study, learn, and think	012345678910
	counter rules	coalition building	489. recruit disparate areas of knowledge or experience in your mind to respond instead of one more appropriate one	012345678910
		interest groupings	490. find your own interests, all of them, and regularly develop them all, often combining them	012345678910
		business hobbies	491. develop your hobbies to extremes till they turn profitable	012345678910
		campaign management	492. use past experiences and areas of knowledge in your mind as a library from which you draw mixtures of capabilities into mental campaigns of invention.	012345678910
	counter norms	fit espoused to enacted	invention 493. find gaps between what you say you are and what you actually do, and between what others say you are and what you actually do and remove them	012345678910
		fit technical to social	494. find gaps in yourself and your own work ways between technical systems and social system needs/capabilities/uses and remove them	012345678910
		propagate standards	495. when something works well in one area of your mind, simplify it to its core, generalize its form and function, then apply it to similar situations in other parts of your mind	012345678910
Violations		invent solution cultures	496. when things are not working what culture inside you is sustaining your inability to win, reverse all attributes of that culture into a solution culture and apply that	012345678910
Ž	counter roles	crossing boundaries	497. find all sorts of boundaries inside your mind and violate them	012345678910
ler		under-studying leaders	498. find you greatest weaknesses and get involved in things that challenge	012345678910
Borde		elsewhere legitimate peripheral participation	you to fix them instead of building on strengths 499. study the limits, boundaries, shynesses, fears, and avoidances inside your mind, thoughts you dare not think, methods you dare not master and	012345678910
		participation	master them	
		discipline intensification exercises	500. punctuate your ordinary work rhythm with periods wherein you accomplish vastly more faster better of some function than you usually would, take these new stretched capabilities back to improve your ordinary way of work	012345678910
	counter neuroses	counter personal neuroses	501. find all your strengths, interests, and talents and what the cost of having each iswhat you do not develop because you focussed on developing itthen undo those costs	012345678910
		counter organization neuroses	502. find the organizations you are in and what their talents, interests, and strengths are and the costs of each, then undo them	012345678910
		counter national neuroses	503. find what the strengths, interests, and talents of your nation are and their costs, then undo them	012345678910
		counter life neuroses	504. find the strengths, interests, and talents of life itself and their costs, then undo them	012345678910
	l .			

	1.1		505 1 1 1 1 1 1 1 1 1 1	0.1.2.2.4.5.6.7.8.0.10
	balance	vicarious learning	505. learn by observing what is happening to others	0.1.2.3.4.5.6.7.8.9.10
	learning	exploitation learning	506. learn how to apply what you already know	012345678910
		exploration learning graft learning	507. learn by exploring unknown areas 508. learn by partnering or marrying or hiring a brilliant other	012345678910
	surface	tragedy of the commons	509. examine problem situations to see if tragedy of the commons dynamics	012345678910
	feedbacks	tragedy of the continons	are underlying them	012343078910
	recubucks	delayed feedbacks	510. examine problem situations to see if unrecognized delayed feedbacks	012345678910
		delayed recubicits	are underlying them	0.11.2.03.1.0.0.7.10.13.110
		escalating hidden	511. examine problem situations to see if underlying them are actions you are	012345678910
		feedbacks	taking are escalating feedback strength	
		counter-productivity	512. examine problem situation to see if side-effects countering your	012345678910
n		effects	intended main effect are underlying them	
Ξ	manage by	work events	513. regularly punctuate your regular work with "workday events" wherein	012345678910
Content Evolution	events		you radically clean, order, move, rearrange, computerize, install your life or	
ξ			workspaces	
=		workouts and solving	514. concentrate all external and inside your mind resources needed for	012345678910
Ę.		events	solving something on one time and place and push through to complete	
e			solution in a short time event then and there	
Ü		research assemblies	515. concentrate all external and inside your mind resources needed for	012345678910
			investigating or inventing something on one time and place and push through	
			to complete discovery in a short time event then and there	
		cognitive algorithm	516. take an idea, new framework, or model and turn it into a procedure that	012345678910
		cascade event	can apply to many areas then deploy it successively to different types of	
	.1	sequences	mental process or knowledge contents in your mind	0.1.2.2.4.5.6.7.0.0.10
	unlearn	update assumed facts	517. change what you believe and act on as new data comes in	0.1.2.3.4.5.6.7.8.9.10
		revise automated processes	518. undo past routines and habits and replace them as new data comes in	012345678910
		surface unconscious	519. find values inside you that you were unconscious of and revise them based on all you now know	012343678910
		values undo influence of past	520. find ways that each past victory that you have had have narrowed you	012345678910
		victories	and made you lazy and undo them	012343078910
	organization	policy by experiment	521. examine your strategies and plans and change them into experiments	012345678910
	experiments	poney by experiment	optimized for teaching you what to do next	012343070710
	caperaments	process by experiment	522. turn each mental process or social process or work process you have into	012345678910
		, reason of any	an experiment optimized to show you new things about yourself and the world	
		structure by experiment	523. turn each knowledge structure in your mind into an experiment	012345678910
		, ,	optimized to show you new things about yourself and the world	
		purpose by experiment	524. turn each purpose you have into an experiment to reveal new things	012345678910
			about your self and your world	
	expanded	plurify knowledge	525. survey thoroughly all your sources of knowledge and develop all	012345678910
	repertoires	sources	varieties of sources not found in yours now	
		plurify process	526. survey thoroughly all the mental, work, and social processes you	012345678910
		capabilities	primarily depend on and like using, and where they came from; then develop	
		1 10 1	varieties of sources for processes beyond them	0.1.2.2.4.5.6.7.0.0.10
		plurify values and	527. survey thoroughly all the values and viewpoints that characterize you at	012345678910
		viewpoints	your worst and best, where did they all come from? then identify sources	
ч		institutionalize	very different than those for developing new values and viewpoints. 528. build some regular habit of checking and plurifying your sources of	012345678910
Organization Research		plurification	knowledge, processes of thought, and values and viewpoints	012343078910
ea	elaborate	from name to role/task	529. list all the people you know and consult with, whether frequently or	012345678910
ě	indexes	indexing	rarely; organize them not by name but by topic to consult them about or role	012343070710
			they perform in some of your mental processes	
.2		from role/task to	530. identify all of your processes that people participate in and events others	012345678910
Zal		process step/event	participate in; what step in those processes or events does each person you know play;	
Ξ.		indexing	build an index allowing you to access them by those steps instead of by their names	
500		from process step to	531. identify all your failed attempts in some long important project and	012345678910
Ō		failed attempts indexing	build an index allowing access to ideas, methods, etc. based on knowing what	
			failed attempt they were involved with	
		from failed attempts to	532. identify all your partial solutions in some long important project and	012345678910
		partial solutions	build an index allowing access to ideas, methods, etc. based on knowing what	
		indexing	partial solution they were involved with	
	manage	create perception	533. inside your mind or among your immediate work colleagues create a	012345678910
	organization	bid/offer markets	market wherein different projects/capabilities of your mind or colleagues bid	
	mind	aranta salvir -	to assist a goal, stating their price to cooperate	0 1 2 2 4 5 6 7 9 0 10
		create solving	534. organize inside your mind or among your immediate work colleagues a	012345678910
		collaboration markets	market wherein different mental areas or colleagues offer "bid" possible	
		create problem finding	solutions to some problem 535. organize inside your mind or among your immediate work colleagues a	012345678910
		collaboration markets	market wherein different mental areas or colleagues offer "bid" possible	012373070710
		Conaudianon markets	problems for you and them to tackle	
		create method	536. organize inside your mind or among your immediate work colleagues a	012345678910
		institutionalization	market wherein different mental areas or colleagues offer "bid" ways to	
		markets	institutionalize new methods or mental processes	

		64 C	Creation Dynamics from the Traits Model of Creativity	
	Problem Finding	impossible problems attempted	537. the problems that others avoid or give up on can propel you to fame	012345678910
	rinding	problems of high leverage sought	538. finding a dozen problems that though superficially different, abstractly are identical, allows one solution effort to end up having immensely broad and deep repercussions	012345678910
		representation changes	539. having or inventing a dozen differengt frameworks for viewing and representing entities and relations in a problem, reveals aspects no one else noticed that allow solution	012345678910
		commonsense ideas challenges	540. the core of each field is based on elemental concepts no one examines, often these are circular ideas from previous ages, challenge them successfully and much else in the field is revolutionaized	012345678910
	Bricolage	seek out minority views and dissent	541. unlikely soolution components can come from those intentionally or by traditional bias excluded from discourse, publishing, and official support	012345678910
		network of enterprises	542. simultaneous parallel engagement in diverse projects allows opportunistic borrowing of ideas and items from one domain for instant application in another entirely different one	012345678910
		items in 1 domain used in another	543. systematic search through other domains, and deliberate graduate mastery of plural other domains, allows casual use of items from a different domain	0.1.2.3.4.5.6.7.8.9.10
ion		wildly change contexts and activities	(unknown to your competitors) to handle situations in your own domain 544. in the midst of the intense, persistent engagement of creating, creators suddenly break off and do utterly different things, allowing associative neural net mind work to replace conscious symbolic mind work	012345678910
Variation	Violation	of boundaries and conformities	545. creative people legitimate their own snooping (peripheral participation in communities new to them); they go where they are forbidden to go, they use what they are forbidden to use; they test boundaries ruthlessly	012345678910
		use others	546. creative people use other people and their ideas, regardless of social norms and boundaries; they do not let prejudice or social niceties prevent using what people offer	012345678910
		Faustian bargain	547. once creative people latch onto a way to release their creativity, the imbalanced social, family, lifestyle, or workstyle features it embodies may become a high price they are willing continually to pay for creative accomplishments	012345678910
		stay on margins	548. fame, success, and supportive colleagues annoy and are fled from by many creatorsthey need the darkness of margins (not centers) in order to have enough "edge" to want to create	012345678910
	Ingenue	immigrant	549. working in cultures other than your own fosters creativity; a disproportionate share of creators are immigrants	012345678910
		new to a discipline	550. working in disciplines other than the ones you originally were trained in fosters creation; many creators change fields every nine or so years	012345678910
		2 culture 2 field experience	551. working in a culture and a field other than what one was raised/trained in fosters creativity; more such culture mixes increase creativity achieved if cognitive skills of idea sensing and ordering grow commensurately	012345678910
		self taught or very young	552. people who are self taught or who enter fields while very young miss the respect dynamics that cause too much respect of the past and authority figures and traditions in the field, allow naive questions to open up new inventions	012345678910
	Metaphor	cross discipline metaphors	553. seeing how chemical things are like literature plot situations and like metaphors allows unlikely things to be combined	012345678910
		images of wide scope	554. images that fuse entirely disperate phenomena from many areas (hence, abstract images) like Darwin's tree of life drawings in his notebooks, can guide extensive creative processes coherently, causing insights to cumulate	012345678910
		feature and operation analogies	555. moving beyond analogies for the obvious featgures of a domain to ones for operationson those features, allows unification, on a conceptual basis, of many operations/features, revealing new operations to try on feature of any one domain	012345678910
nation		various precise mappings per metaphor tried	556. precisely mapping what in one domain corresponds to what in another, exactly how, for each metaphor used, reveals aspecs of eatures, operations, constraints that would otherwise be entirely missed	012345678910
Combination	Abstraction	selective encoding and comparison	557. what phenomen are "noticed" and how noticed ones are categorized, are determined by often-unconscious abstract models in the mindpluralizing such models and making them conscious allows new combinations of ideas	012345678910
		abstracted features, operations, constraints	558. abstracting features, operations on features, and constraints on those operations, allows uniting ideas on all three levels from concrete, static entities to abstract, dynamic restrictions on what is done	012345678910
		mental model and simulation	559. building mental models and running, in your mind, simulations using them of what happens when such and such effects obtain, encourages appaarently separate ideas to be seen as connected	012345678910
		model directed search	50. using mental models to direct mental searches for new features, operationsk or constraints on operations, allows intuitions to marry systematic categories to broaden and deepen what is searched for and found	012345678910

Index Events	wide ovelty principles on 12345678910 work, as a insights recative that what al 012345678910 on 12345678910
abstract models of what is tried and untried in a field, encouraging n failure index 562. all past failed attempts at a solution, if indexed well, reveal general of what fails, how it fails, why it fails, hence, inversely, what might gradually built up specification, that becomes the basis of "sudden" 563. casual discourse with unassociated diverse outsiders of one's c work or closely related co-workers, can spawn index building insigh allow patterns and commonalities to be suddenly seen partial solutions index 616. Inding among various partially successful solution attempts, w worked in them all and what lacked in them all, allows parts of parti solutions to be combined into full ones 616. semi-conscious dreamy reverie wherein contradictory ideas are images tolerated associated things disunited associated things dissociating united things, often allows new combinations to be inven multi-tasking in parallel projects unthinkable combinations 618. shunning obvious or easy combinations of ideas for difficult or extremely unpopular and unlikely ones, will ocassionally turn up ent concepts from entirely unthought combinations of ideas 619. Counter	ovelty principles work, as a insights reative that al 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 1.2.3.4.5.6.7.8.9.10 1.2.3.4.5.6.7.8.9.10 1.2.3.4.5.6.7.8.9.10 1.2.3.4.5.6.7.8.9.10 1.2.3.4.5.6.7.8.9.10
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others, working across scales	
unlikely pattern 570. creators sense the intuitions of others, reproducing them within then	nselves, in 012345678910
order to go beyond them, seeking patterns that others would not see or va	
unlikely combination 571. uncreative and creative combinations of others are both surpass	
creators go beyond them toward combinations no one else thinks of	
unlikely analogy 572. the easy and outstanding analogies are voided by creators, who	
instead, unlikely analogies that no one else would notice	
Articulation what works in each 573. creeative people articulate, describe exactly, what works in par	rtial 01234567891
partial solution solutions, shunning all exaggeration	
what does not work in 574. creative people articulate what does not work, exactly, in each	partial 012345678910
each partial solution solution and why and how it does not work, expressing these with gr	
precision, often diagramming them, or otherwise making them visua	ıl
what prevents each 575. creative people study and articulate with precision exactly what	nt prevents 012345678910
partial solutions from each partial solution from solving entirely, doing their best to articul	ate the
solving entirely nature and size of the gap and what sustains it	
what is missing from 576. creative people articulate precisely what is missing from each p	partial 012345678910
each partial solution solution, what it needs to have but lacks, what the eventual solution	requires
but the partial solution lacks	
Aesthetics beautifully simple 577. creation requires a certain minimality, in order to shock, surprinoticesolutions that are elegantly simple, make everyone wonder "could I have missed something so simple and elegant?"	se, attract 012345678910
noticesolutions that are elegantly simple, make everyone wonder "	how
could I have missed something so simple and elegant?"	
beautifully 5/8. creation requires wonderful patterns, that attract attention and a	
interconnected admirationcomponents if beautifully interconnected in a solution, p	please
entire fields of people with the elegance of their pattern	
beautifully unlikely 579. creation requires a certain contrarianness to solutions, a certain	
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Saturated Fields Saturated F	and often fairly y invents rork inizing eative act, and so on w patterns on them to be paradigm paradigm on the past of the past of them to be calculated better than one on the patterns one one one of the past of them to be calculated better than one one one one of the past of the past one one one of the past one one of the past one one of the past of

	Tool & Frame	distinguishes field phenomena	589. frameworks or tools that better distinguish phenomena in a fieldoften new ways to measure or judge or compare thingsget reproduced and widely	012345678910
	Invention		used by others	
		fuses field phenomena	590. frameworks or tools that fuse phenomena in a field hithertofore	012345678910
			considered separate or antagonisticoften new measures or evaluation frameworksget reproduced and widely used by others	
		discovers new phenomena	591. frameworks or tools that uncover hithertofore unknown or under-valued phenomena in a field get widely used and reproduced	012345678910
		invent new tools	592. frameworks or tools that result in the invention of still other new	012345678910
			frameworks or tools get widely used and reproduced	0.1.1.2
	Question	same facts different	593. seeing the same facts as others but using different frameworks often	012345678910
	Invention	frames	results in new questions emerging that fascinate others, inciting solution attempts by them	
_		same frame different	594. applying usual frames in a field to unusual or different facts in the field	012345678910
Reproduction		facts	often results in new questions emerging that fascinate others, inciting solution	
ĭ		separated facts and	attempts by them 595. putting together facts not usually viewed with particular frames often	012345678910
2		frame	results in new questions drawing follow up efforts by others	012343078910
da		united facts and frame	596. separating frameworks and sets of facts usually considered together in a	012345678910
ž		separated	field, for example, by proving limitations of such unities, often opens up new questions that others persue	
	Zeitgeist	intermingling fields,	597. societies that encourage many fields, cultures, and domains to inter-	012345678910
	Zengeist	cultures, and domains	mingle freely without prejudice or antagonism spawn more creativity than	0.11.2.0
		i.blil	societies with less such mingling	012345678910
		viable marginal lifestyles	598. societies that are wealthy and tolerant enough to allow decent lifestyles from people having extremely marginal or unusual occupations or interests	012343078910
		inestyles	have more creativity than others	
		competitive funding and	599. societies whose sources of funding and recognition are plural and not	012345678910
		recognition	consensing with each other offer creators more possible avenues to success,	
			spawning thereby more creativity	
		distributed competing	600. societies whose authorities of all sorts are well distributed ethnically,	012345678910
		authorities	intellectually, institutionally and who compete for excellence with each other, trying to	
			outdo each other, offer creators more chances for influence, support, and recognition	
			64 Question Finding Dynamics	
	Reverse	trends	601. identify all the trends in a field then reverse them; if, for example, nanotech is growing, then imagine gigatech	012345678910
		questions	602. identify all the hot questions now in a field then organize and reverse	012345678910
		questions	them; if, for example, "what causes X" is a hot one, generate "what does X	012343070310
			cause", "what blocks the coming of X" as reverse questions	
		priorities	603. identify all the big priorities of self or groups to which you belong then	012345678910
			reverse them; if four year projects are the norm and important, then, for	
		1.	example, commit to an eight and a two year project 604. identify all the biases of self and groups to which you belong, then undo	012345678910
		biases	them. For example, if you are a detail person, then practice big pictures and	012343078910
			sweeping generalizations	
	Depersonalize	competitor approaches	605. identify all competitors you respect greatly or fear, then view them as	012345678910
			teachers and friends; for example, find how your desire to be better tha nthem	
			exaggerates your victories and their weaknesses	
bs		personal limitations	606. identify all of your personal limitations, then view them as advantages;	012345678910
Ē			for example, what errors do they save you from and how has your desire to minimize them caused error in the past and is causing error now	
Ş			607. identify all the interests of your organization(s) then remove your	012345678910
ıit,		organizatinal interests		
Ī		organizatinal interests	personal intimidation by them; for example, how have they distored your	012343070710
rtuni		organizatinal interests	personal intimidation by them; for example, how have they distored your agenda, and how do they self-defeat	
oportunity Gaps		organizatinal interests field publishings	personal intimidation by them; for example, how have they distored your agenda, and how do they self-defeat 608. identify what gets published and not in your field, then remove how it distorts	
Opportuni		field publishings	personal intimidation by them; for example, how have they distored your agenda, and how do they self-defeat 608. identify what gets published and not in your field, then remove how it distorts your work; for example, imagine numerous unpublishable topics of interest	012345678910
nd Opportuni	Undo		personal intimidation by them; for example, how have they distored your agenda, and how do they self-defeat 608. identify what gets published and not in your field, then remove how it distorts your work; for example, imagine numerous unpublishable topics of interest 609. identify all of your own major successes and how you have copied and	
Find Opportuni	Undo Successes	field publishings personal	personal intimidation by them; for example, how have they distored your agenda, and how do they self-defeat 608. identify what gets published and not in your field, then remove how it distorts your work; for example, imagine numerous unpublishable topics of interest 609. identify all of your own major successes and how you have copied and been influencedruttedby each afterwards, then undo their influences	01.2345678910
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Find Opportuni	Successes Expand	field publishings personal organizational domain era add scales	personal intimidation by them; for example, how have they distored your agenda, and how do they self-defeat 608. identify what gets published and not in your field, then remove how it distorts your work; for example, imagine numerous unpublishable topics of interest 609. identify all of your own major successes and how you have copied and been influencedruttedby each afterwards, then undo their influences 610. identify all of your organization's major successes and how you have copied and been influenced otherwiseruttedby each afterwards, then undo their influence 611. identify all of your domain's major successes and how you have copied and been influencedruttedby each afterwards, then undo their influence 612. identify all of your era's major successes and how you have copied and been influencedruttedby each afterwards, then undo their influence 613. identify the dominant size scale of your current models and then produce much smaller size scale and much larger scale extensions of your models 614. identify patterns ordering things in your models and between items interpolate new entities or relations among entities 615. identify patterns ordering things in your models and beyond the ends of	012345678910 012345678910 012345678910 012345678910 012345678910 012345678910
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Find Opportuni	Successes Expand	field publishings personal organizational domain era add scales interpolate sequences	personal intimidation by them; for example, how have they distored your agenda, and how do they self-defeat 608. identify what gets published and not in your field, then remove how it distorts your work; for example, imagine numerous unpublishable topics of interest 609. identify all of your own major successes and how you have copied and been influencedruttedby each afterwards, then undo their influences 610. identify all of your organization's major successes and how you have copied and been influenced otherwiseruttedby each afterwards, then undo their influence 611. identify all of your domain's major successes and how you have copied and been influencedruttedby each afterwards, then undo their influence 612. identify all of your era's major successes and how you have copied and been influencedruttedby each afterwards, then undo their influence 613. identify the dominant size scale of your current models and then produce much smaller size scale and much larger scale extensions of your models 614. identify patterns ordering things in your models and between items interpolate new entities or relations among entities 615. identify patterns ordering things in your models and beyond the ends of	012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910

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	Fully	customer needs	617. find all customers or all outputs and find all their requirements, implicit	012345678910
	Represent		and explicit, latent and present; represent their needs more fully than	
			competitors	
		methods	618. find all the methods in your domain and how they evolved from each	012345678910
			other and now influence each other's further evolution; represent the set of	
			all methods more fully than competitors	
		tackled questions	619. find all the questions currently being tackled seriously in your domain and	012345678910
			being toyed with in it; represent this set more fully and orderdly then competitors	
		underleveraged	620. find all tghe capabilities of yourself, your field, hat are currently being	012345678910
		capabilities	under-utilized or otherwise slighted; represent the set of all capabilities in the	
			field more fully than competitors	
	Socially	needs	621. measure what all the needs of improtant stakeholders to you are and	012345678910
	Index		measure the degree to which you and your field are aware of them; then	
			index all these needs yourself, better than competitors	
		interests	622. measure what all the interests of important stakeholders to you are and	012345678910
			measure the degree to which you and your field are aware of them; then index	
			all these interests yourself, better than competitors	
		capabilities	623. measure what all the side discoveries of important stakeholders to your	012345678910
			are and measure the degree to which you and your field are aware of them;	
e			then index all these side discoveries yourself better than competitors	
50		side discoveries/	624. measure what all the problems/solutions of important stakeholders to	012345678910
e		poblems-solutions	you are and measure the degree to which you and your field are aware of	
Find Leverage		r	them; then index all these yourself better than competitors	
_	Seek	of problems	625. plot all problems of interest and all interests on various categhorical	012345678910
ᄓ	Intersections	or problems	models, to find what dynamic of the model clumps of them congregage in;	012343070710
氢	Intersections		use those cagtegories to raise new questions	
		of causes	626. plot all causes of phonemona in a domain on various categorical models,	012345678910
		of causes	to find what dynamic of the model clumps of them congregate in; use those	012343078910
			categories to raise new questions	
		6 1 4	0 1	0 1 2 2 4 5 6 7 8 0 16
		of solutions	627. plot all solutions of interest on various categorical models, to find what	012345678910
			dynamic of the model clumps of them congregate in; use those categories to	
			raise new questions	0.1.2.2.4.5.6.7.9.0.16
		of constraints	628. plot constraints of interest in a prob lem on various categorical models,	012345678910
			to find what dynamic of the model clumps of them congregate in; use those	
			categories to raise new questions	
	Index	approaches	629. build an index of what varies and what does not vary among all the	012345678910
			approaches you or others tried;; use that index to invent better questions	
		failures	630. build an index of what varies and what does not vary among all the	012345678910
			failures you or others had trying to solve a particular problem; use that index	
			to invent better questions	
		causes of failures	631. build an index of what varies and does not vary among all the causes of	012345678910
			failure you or others had trying to solve a particular problem; use that index	
			to invent better qwuestions	
		constraints on solutions	632. build and index of what varies and what does not vary among all the	0 1 2 2 4 5 6 7 9 0 10
		1 1		012345678910
			constraints on your eventual solutions; use that index to invent better questions	
	Change	measure the	633. find aspects of the domain or situation that are unmeasured and measure	
	Change Measures		633. find aspects of the domain or situation that are unmeasured and measure them	012345678910
		measure the	633. find aspects of the domain or situation that are unmeasured and measure	012345678910
		measure the unmeasured	633. find aspects of the domain or situation that are unmeasured and measure them	012345678910
		measure the unmeasured measure the	633. find aspects of the domain or situation that are unmeasured and measure them634. find aspects of the domain or situation that people or you yourself have	01.2345678910
		measure the unmeasured measure the	633. find aspects of the domain or situation that are unmeasured and measure them634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in	01.2345678910
		measure the unmeasured measure the unmeasurable	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt	01.2345678910
		measure the unmeasured measure the unmeasurable make subgite effect	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
l uo		measure the unmeasured measure the unmeasurable make subgtle effect easily observable	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
ation		measure the unmeasured measure the unmeasurable make subgtle effect easily observable make obvious effect	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
ntation	Measures	measure the unmeasured measure the unmeasurable make subgile effect easily observable make obvious effect much less important	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
sentation	Measures	measure the unmeasured measure the unmeasurable make subgtle effect easily observable make obvious effect much less important operate on larger size	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before	0.1.2.3.4.5.6.7.8.9.1(0.1.2.3.4.5.6.7.8.9.1(0.1.2.3.4.5.6.7.8.9.1(0.1.2.3.4.5.6.7.8.9.1(0.1.2.3.4.5.6.7.8.9.1(
resentation	Measures	measure the unmeasured measure the unmeasurable unmeasurable make subgtle effect easily observable make obvious effect much less important operate on larger size scale than others	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale	0.1.2.3.4.5.6.7.8.9.1(0.1.2.3.4.5.6.7.8.9.1(0.1.2.3.4.5.6.7.8.9.1(0.1.2.3.4.5.6.7.8.9.1(0.1.2.3.4.5.6.7.8.9.1(
epresentation	Measures	measure the unmeasured measure the unmeasurable make subgile effect easily observable make obvious effect much less important operate on larger size scale than others operate on smaller size scale than others	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale 638. find what size scale all existing work in an area has been done on and operate on a smaller size scale	012345678910 012345678910 012345678910 012345678910 012345678910
Representation	Measures	measure the unmeasured measure the unmeasurable unmesurable make subgtle effect easily observable make obvious effect much less important operate on larger size scale than others operate on smaller size scale than others hypothesize on several	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale 638. find what size scale all existing work in an area has been done on and operate on a smaller size scale 639. find hypotheses, proved and unproved as yet, made on one size scale	012345678910 012345678910 012345678910 012345678910 012345678910
ge Representation	Measures	measure the unmeasured measure the unmeasurable make subgtle effect easily observable make obvious effect much less important operate on larger size scale than others operate on smaller size scale than others hypothesize on several simultaneous size scales	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale 638. find what size scale all existing work in an area has been done on and operate on a smaller size scale	012345678910 012345678910 012345678910 012345678910 012345678910
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Change Representation	Measures	measure the unmeasured measure the unmeasurable make subgile effect easily observable make obvious effect much less important operate on larger size scale than others operate on smaller size scale than others hypothesize on several simultaneous size scales or across scales find change of scale	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale 638. find what size scale all existing work in an area has been done on and operate on a smaller size scale 639. find hypotheses, proved and unproved as yet, made on one size scale and extend them to larger and/or smaller size scales 640. find what varies and does not vary when scale of viewing or operating is	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
Change Representation	Measures Change Scales	measure the unmeasured measure the unmeasurable make subgtle effect easily observable make obvious effect much less important operate on larger size scale than others operate on smaller size scale than others hypothesize on several simultaneous size scales or across scales find change of scale variants and invariants	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale 638. find what size scale all existing work in an area has been done on and operate on a smaller size scale 639. find hypotheses, proved and unproved as yet, made on one size scale and extend them to larger and/or smaller size scales 640. find what varies and does not vary when scale of viewing or operating is changed larger or smaller	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
Change Representation	Change Scales Change	measure the unmeasured measure the unmeasurable make subgtle effect easily observable make obvious effect much less important operate on larger size scale than others operate on smaller size scale than others hypothesize on several simultaneous size scales or across scales find change of scale variants and invariants combine several	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale 638. find what size scale all existing work in an area has been done on and operate on a smaller size scale 639. find hypotheses, proved and unproved as yet, made on one size scale and extend them to larger and/or smaller size scales 640. find what varies and does not vary when scale of viewing or operating is changed larger or smaller	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
Change Representation	Measures Change Scales	measure the unmeasured measure the unmeasurable make subgtle effect easily observable make obvious effect much less important operate on larger size scale than others operate on smaller size scale than others hypothesize on several simultaneous size scales or across scales find change of scale variants and invariants combine several functions in one device	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale 638. find what size scale all existing work in an area has been done on and operate on a smaller size scale 639. find hypotheses, proved and unproved as yet, made on one size scale and extend them to larger and/or smaller size scales 640. find what varies and does not vary when scale of viewing or operating is changed larger or smaller 641. find several functions now done by separate mechanisms or processes and devise a way for one to do them	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
Change Representation	Change Scales Change	measure the unmeasured measure the unmeasured the unmeasurable make subgile effect easily observable make obvious effect much less important operate on larger size scale than others operate on smaller size scale than others hypothesize on several simultaneous size scales or across scales find change of scale variants and invariants combine several functions in one device find easy variables for	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale 638. find what size scale all existing work in an area has been done on and operate on a smaller size scale 639. find hypotheses, proved and unproved as yet, made on one size scale and extend them to larger and/or smaller size scales 640. find what varies and does not vary when scale of viewing or operating is changed larger or smaller 641. find several functions now done by separate mechanisms or processes and devise a way for one to do them 642. find factors that allow the main effect to be changed easily or at low cost	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
Change Representation	Change Scales Change	measure the unmeasured measure the unmeasured the unmeasurable make subgile effect easily observable make obvious effect much less important operate on larger size scale than others operate on smaller size scale than others hypothesize on several simultaneous size scales find change of scale variants and invariants combine several functions in one device find easy variables for changing the main effect	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale 638. find what size scale all existing work in an area has been done on and operate on a smaller size scale 639. find hypotheses, proved and unproved as yet, made on one size scale and extend them to larger and/or smaller size scales 640. find what varies and does not vary when scale of viewing or operating is changed larger or smaller 641. find several functions now done by separate mechanisms or processes and devise a way for one to do them 642. find factors that allow the main effect to be changed easily or at low cost in resources including time and human effort	01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910
Change Representation	Change Scales Change	measure the unmeasured measure the unmeasured measure the unmeasurable make subgtle effect easily observable make obvious effect much less important operate on larger size scale than others operate on smaller size scale than others hypothesize on several simultaneous size scales or across scales find change of scale variants and invariants combine several functions in one device find casy variables for changing the main effect find which componnet	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale 638. find what size scale all existing work in an area has been done on and operate on a smaller size scale 639. find hypotheses, proved and unproved as yet, made on one size scale and extend them to larger and/or smaller size scales 640. find what varies and does not vary when scale of viewing or operating is changed larger or smaller 641. find several functions now done by separate mechanisms or processes and devise a way for one to do them 642. find factors that allow the main effect to be changed easily or at low cost in resources including time and human effort 643. find which component of a system out of many is causing a particular	01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910
Change Representation	Change Scales Change	measure the unmeasured measure the unmeasurable make subgtle effect easily observable make obvious effect much less important operate on larger size scale than others operate on smaller size scale than others hypothesize on several simultaneous size scales or across scales find change of scale variants and invariants combine several functions in one device find easy variables for changing the main effect find which componnet is causing an effect	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale 638. find what size scale all existing work in an area has been done on and operate on a smaller size scale 639. find hypotheses, proved and unproved as yet, made on one size scale and extend them to larger and/or smaller size scales 640. find what varies and does not vary when scale of viewing or operating is changed larger or smaller 641. find several functions now done by separate mechanisms or processes and devise a way for one to do them 642. find factors that allow the main effect to be changed easily or at low cost in resources including time and human effort 643. find which component of a system out of many is causing a particular effort	01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910 01.2345678910
Change Representation	Change Scales Change	measure the unmeasured measure the unmeasured measure the unmeasurable make subgtle effect easily observable make obvious effect much less important operate on larger size scale than others operate on smaller size scale than others hypothesize on several simultaneous size scales or across scales find change of scale variants and invariants combine several functions in one device find casy variables for changing the main effect find which componnet	633. find aspects of the domain or situation that are unmeasured and measure them 634. find aspects of the domain or situation that people or you yourself have tried to measure in the past and invent a way to measure it now, keeping in mind technologies developed since the last measurement attempt 635. invent a way to make subtle effects easily and highly visible 636. invent a way to reduce the salience, visibility, attention, and masking effects of main effects so as to reveal subtle effects never attended to before 637. find what size scale all existing work in an area has been done on and operate on a larger size scale 638. find what size scale all existing work in an area has been done on and operate on a smaller size scale 639. find hypotheses, proved and unproved as yet, made on one size scale and extend them to larger and/or smaller size scales 640. find what varies and does not vary when scale of viewing or operating is changed larger or smaller 641. find several functions now done by separate mechanisms or processes and devise a way for one to do them 642. find factors that allow the main effect to be changed easily or at low cost in resources including time and human effort 643. find which component of a system out of many is causing a particular	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10

_	Change Models	categorize all	645. build a categorical model that includes all the phenomena in a particular	012345678910
Change Representation	Models	phenomena in a field build model that	field or related to a particular topicordered multi-scale models are preferred 646. build a simulation that mimics key system behaviors allowing behavior	012345678910
E ag		reprosuces system	discovery as different inputs/outputs are tried	012343076710
e n		behavior	anservery as anterent inputs/outputs are area	
14.3		automate tedious	647. invent a way to do quickly, errorlessly, and automatically research	012345678910
		research processes	processes now done with difficulty, or expensively, and therefore rarely	
∡		parallelize serial	648. invent a way to do many things now done sequentially simultaneously	012345678910
		situations	instead	
	Relate	discover unexplainable	649. find phenomena for which there is no current valid explanationfind a	012345678910
		phenomena	mystery 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.1.2.2.4.5.6.7.9.0.10
		turn side-effect into main effect	650. find a context to put around a phenomenon that turns a side-effect into the main effect in a system	012345678910
		disprove assumed	651. prove that a variable that is supposed to cause some outcome does not	012345678910
		causal connection	cause that outcome or, it is a smaller one of several more important causes	0.11.2.0.11.0.0.7.10.0.7.110
		prove unsuspected	652. prove that a variable that no one has seriously considered before is	012345678910
		causal relation	actually the cause of an outcome of interest	
	Imply	find contradictory	653. find unsuspected implications of some already established goal; find	012345678910
		implications of a goal	dessiderata for meeting that goal that no one suspects	
		find implications of a	654. find unsuspected implications of some already established goal that are	012345678910
		goal find unusual	contradictory, putting the attainment of the goal in jeopardy 655. find implications of a theory that no one has noticed; find situations a	012345678910
		implications of a theory	theory was thought irrelevant to are actually highly relevant	012343070710
ی		find contradictory	656. find implications of a theory taht no one has noticed that are	012345678910
. <u>g</u>		implications of a theory	contradictory, putting teh validity of the theory in jeopardy	
4	Unify	show how plural	657. show that several separate relationships are really cases of one overall	012345678910
g		relations are	more fundamental or abstract relationship	
Change Logic		specializations of one	650 -h 4h -4 h 4h	0 1 2 2 4 5 6 7 9 0 10
ご		unify incompatible theories	658. show that hithertofore incompatible theories are actually one theory with different specializations or show how specific incompatibilities can be	012345678910
		theories	resolved theoretically or practically	
		find invariants in	659. find things that do not change when you change representation of or	012345678910
		changes of perspective	perspective on a situation	
		or representation		
		find invariants to changes	660. find things that do not change when you change the operation applied to a situation	012345678910
	Cross Fields	in operator applied apply problem from one	661. take a problem in one field and apply that problem to another, by	012345678910
	Cross relas	field to another	finding a similar problem or a large effect of the problem in that other field	0.11.2.0.1.1.0.1.7.1.0.1.7.1.0
		apply method from one	662. take a method in one field and apply it to problems in another field	012345678910
		field to another		
		apply solution from one	663. take a solution to a problem in one field and find problems in another	012345678910
		field to another apply result from one	field that it also solves 664. take results from one field and apply them to solve or frame or	012345678910
		field to another	understand or discover things in another field	012343070710
	1		96 Principles of Scientific Creativity	1
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	variation	lots of ideas	667. productivity route to creating: create lots of idea, throw away the bad	012345678910
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ons	Associations	abstract analogy	673. good = analogy among things; great = analogy among analogiesUlam	012345678910
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yariation tools Bernstein 715. do not build on other's results that you have not derived yourself you need rather than trusting their work funding without strings for independence of politics many small research funds not few big ones funds not few big ones 717. create small exploratory research funds so people can try many ideas out enough to see if they are possibly interesting (rather than deep funding of deep development of one approach/idea)—Burch 718. fund backwater institutions to get institutions to get not dominate institutions so technique and perfectionism snobbery do not dominate institutions 718. fund backwater institutions so technique and perfectionism snobbery do not dominate instight—burch		Cranks	borrow other fields'	714. train in tools others lack from several fields and emerging fieldsRoot	0123456789
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beyond mere technique excellence	.		-	not dominate magne-outen	

	Stochastic	perfectly organized	719. perfectly organized systems are on the verge of collapseTruesdell	012345678910
	Leaky	systems are near collapse	720 1	0 1 2 2 4 5 6 7 8 0 10
	Systems combination	slack creates = creative inefficiency	720. keep people under-employed = slack for play, the creativity of inefficiencyRoot Bernstein	012345678910
		fund people not projects	721. fund people not projects, with lifetime grants for proven explorers to encourage field changeBurch	012345678910
		work at plural grad schools not one	722. work at other institutions during grad school to pluralize tools and approaches and contextsRoot Bernstein	012345678910
sma		multi-task among	723. tackle several fields and problems at once, rest by switching among projects Root Bernstein	012345678910
Syste		change fields every 5 to	724. change fields every 5 to 10 years; rebegin beginningRoot Bernstein	012345678910
ا برد د	Plurify &	10 years simple minimal solutions	725 simple minimales tools precedures interpretations Boot Permetain	012345678910
ele (Explode	retry in other contexts	725. simple minimals: tools, procedures, interpretationsRoot Bernstein 726. retry ideas in other contexts: an idea failing in one may succeed in	012345678910
Peol	Contexts selection	early independent	anotherRoot Bernstein 727. early independent research experience for young researchersRoot	012345678910
$\frac{rid}{d}$		research experience	Bernstein 728. fund ideas independently of initial results; fund retries under new	012345678910
Hyb fiel		fund ideas not results needed	contextsRoot Bernstein	
]		fund threats to	729. more important criterion is threat to cherished field ideas from new	012345678910
<u>5</u> 0		established ideas	workRoot Bernstein	
		publish counter ideas to	730. change peer review to reward countering of peer ideasedit editing	012345678910
ĕ	DIP	peer reviewers ideas	processes that edit away disagreement, divergence, difference, and challenge	0.1.0.0.1.5.5.5.5.5.5
ğ l	Pluralize	foster competing	731. foster competitive journals on the same topic in the same fieldGreene	012345678910
<u> </u>	Plurality	journals on same field	720 6 1 (2) 1 (2)	0 1 2 2 4 5 6 7 0 0 10
Plurify Breeding of Hybrid People & Systems field	Types reproduction	fund competing subgroups researching same topics	732. fund competitive subgroups of different rank/status in a subfield on a topicGreene	012345678910
,		fund ideas for 5 year units	733. fund ideas in year units so ideas can be developed enough to see implications—Burch	012345678910
		institutionalize doubting	734. institutionalize doubting what you most believe; doubt data you most	012345678910
		not biologic but age in	believeAgassi 735. not biologic age but age in a field sets limit of 5 to 10 years for creative	012345678910
		field minimize what is vali-	contributionSimonton 736. past successes if taken to validate more than their exact specific contents	012345678910
	Tool	dated by past successes new tools = observations	ruin scienceChandrasekhar 737. great observations come from tool inventionsHarwit	012345678910
	Invention	new tools = discoveries	738. most new discoveries come just after new tools comeHarwit	012345678910
	variation	discovery decrease as tools age	739. rapid decrease in discovery after new tools—the intro bang effect—	012345678910
		discovery by field outsiders = outsider tools	740. discovery by people outside the field = new ideas by using borrowed new toolsHarwit	012345678910
		military use tools = discoveries	741. many new discoveries using tools invented for military useHarwit	012345678910
		breakthru researchers invent own tools	742. breakthrough researchers invent own tools and use them by themselves-Harwit	012345678910
hs	Discipline &	observational luck +	743. many discoveries from observational luck ,were recognized by right	012345678910
rut	Context	right context of viewing	contexts of viewingHarwit	
ter]	Combinatorics combination	mentors teach handling ambiguity	744. we learn from mentors, not facts, but how to handle ambiguity and confusionGlashow	012345678910
On		exact for what happened; slop for spot unexpecteds	745. sloppy enough to spot unexpecteds, but exact enough to know what happenedDelbruck	012345678910
Blocks to Outer Truths omain		problems as environments that make	746. some problems can only be seen and solved in the midst (environment) of othersEigen	012345678910
r Blocks domain		better problems visible	747. domains that welcome hybridization with other fields are creativeRoot	0 1 2 2 4 5 6 7 9 0 10
		domains that hybridize with other domains =	Bernstein	012343678910
l I		creative	740	0.1.0.1.5
[<u>.</u>		subdomain glass bead	748. domains that regularly restructure and recombine subfields are creative-	012345678910
iga	Rut	games create never trust the obvious	Root Bernstein 749. never trust the obvious; never skip surfacing/challenging own	012345678910
ا <u>تح</u> ا	Surfacing		assumptionsMacfarlane	
\ o	Repertoires	theory determines whats	750. theory determines what's observable; so do not induct theory from data aloneMaier	012345678910
Investigate Inner	selection	observable		0 1 2 2 4 5 6 7 9 0 10
Inve		minimize formal training	751. minimize formal training and rove outside your field regularly Carruthers	012343678910
Inves		minimize formal	Carruthers 752. develop solving menu, seek abstractions, decompose till solvable; match	
Inve		minimize formal training develop solving menu maximize bad/	Carruthers 752. develop solving menu, seek abstractions, decompose till solvable; match approach to subproblem; solve by analogy; reason from knownsInfeld 753. maximize unexpected bad or side effects then change what you	012345678910
Inves		minimize formal training develop solving menu	Carruthers 752. develop solving menu, seek abstractions, decompose till solvable; match approach to subproblem; solve by analogy; reason from knownsInfeld	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10

	Outer	prune assumed contexts	755. popular/assumed/wrong methods and contexts around a problem can	012345678910
Investigate Inner Blocks to Outer Truths domain	Exploring is	around problmes	make it unsolvable, till they are changedKeller	0 1 2 2 4 5 6 7 8 0 10
Blocks domain	Inner	we observe not nature	756. what we observe is not nature but nature exposed by our method of	012345678910
20	Exploring	but portion our	questionningHeisenberg	
₽ B	reproduction	approach makes visible	777 11 1 2 11 12 11 12 11 12 11 12 11	0.1.2.2.4.5.6.7.0.0.10
ser		ideas have social	757. ideas have social territories just as animals doRoot Bernstein	012345678910
vestigate Inner Outer Truths		territories like animals	750	0 1 2 2 4 5 6 7 8 0 10
두모		simplicity from	758. get simplicity not by simplifying but by applying principlesBates	012345678910
E T		principles	750 4	012345678910
të.		only do experiments that could overturn you	759. trust own failures to understand; only do experiments that can overturn your own ideasMedawar	012343078910
es Ou		own ideas	your own ideasiviedawar	
ú		find abandoned old	760. search the history of your field for abandoned old ideas to retrySzent-	012345678910
_		ideas and revive them	Gyorgyi	012343070710
		1	64 Sources of Entrepreneurship	<u> </u>
	Slack	rise in wealth changes	761. when populations become wealthier they aspire to new things = market	012345678910
		aspirations	opportunity	0.11.2.03.107070
		rise in productivity	762. when productivity increases, free time appears that people will spend on	012345678910
		creates play time	something = market opportunity	
		plural competing	763. when authorities are many, diverse, and disagree, new ideas have many	012345678910
		authorities	possible homes and supports	
		viable marginality	764. when marginal ideas and lifestyles are made minimally livable = viable,	012345678910
			new ideas they contain can hang around enough and interact enough and get	
			enough human development/elaboration that their worth can be found	
	Trend	entooling popularity	765. people compete for what is newest, best, most popular = market	012345678910
	Riding	competitions	opportunity	
		equipping youthful	766. people distinguish themselves and their entire community or generation	012345678910
		divergence	from others = market opportunity	
		reflecting generational	767. people in groups prefer to see themselves in certain ways that evolve =	012345678910
es		identities	market opportunity	
Social Waves		turning styles into	768. people do in style formats what they later do in facility and investment	012345678910
1		lifestyles	formatsvalues continue but embodiments become heftier and more expensive	
ial	Substrate	replacing established	769. all functions of life and work have to be continually re-examined for	012345678910
9	Evolution	technologies	whether new technologies allow them to be better done now	0.1.2.2.4.5.6.7.0.0.10
S		upgrading established	770. new technologies and aspirations continually appear and suggest new	012345678910
		functions	functions never possible before 771. overshoot and undershoot customerswhere your product is too much/	012345678910
		extending established customer sets	complex for them and where yours is too little/simple for theminvite extension	012343078910
		extending established	772. extending interfaces as new substrates and technologies come along	012345678910
		interfaces	involves building interfaces among them, tying new to old	012343078910
	Rule	cost obliterations	773. cost obliteration happens when new choices/technologies obviate old	012345678910
	Discontinuity	Cost contentions	cost relationships	012343070710
	,	tool or interface	774. learning costs, time to master, errors per time learning, often are a	012345678910
		learning cost	barrier to purchase or change of brand	
		obliterations	· · · · · · · · · · · · · · · · · · ·	
		life & work style	775. obliterating a life or work style happens with substrate or technology	012345678910
		obliterations	change makes an entire style unviable, unattractive	
		aspiration obliterations	776. aspiration obliteration happens when substrate or technology change	012345678910
			wipes out what people used to hope for	
	Combining	cultivating technology	777. one product/service becomes a niche inviting others, exponentially	012345678910
	Technologies	ecosystem dynamics	increasing	
		(pc printers: niches		
ý		make niches)		
Combinatorics		instancing intellectual	778. abstract functions and ideas, in the form of one technology often are	012345678910
<u>5</u>		movements in new	upgraded by others, allowing unlikely combinations among technologies	
na		subtrates (cellularity)		0.1.0.0.1.5.6.7.0.0.10
iði		refounding technologies	779. when two different technical areas are seen via one very abstract idea to	012345678910
O III		on new abstractions	be similar, entire new industries, like bio-informatics uniting DNA as	
ರ		(DNA & computers as	programs with software computer programs) can appear	
		programs)	790	0.1.0.2.4.5.6.7.0.0.10
		refounding technologies	780. much of scientific progress comes from new tools extending scales at	012345678910
1		at new size scales	which people observe or create to larger or smaller scales	
1	l	(nanofabrics)		l .

	Combining Cultures	tribal entrepreneur diasporas	781. particular ethnic groups spread around the world as immigrant waves of entrepreneursIndians in Africa, Chinese in Southasia, Jews in Europe and the Americas, Japanese in Brazil	012345678910
		immigration from constrained to unconstrained	782. people tend to move from constraint to less constrained economies, offering more room for ordinary citizens to build and progress	012345678910
		solving one culture's neuroses (re-engineering as the femininity of productivity)	783. many management fads, fashions, and techniques are masculine looking versions of things not at all masculine, or US looking things that are not US-like, or technical looking things that are not at all technical—making some culturally different actions palatable via cultural movements, technologies and	012345678910
		framework repertoire	the like is a primary business avenue 784. encountering otherness expands one's repertoires of response, even when no particular new actions were undertaken while "abroad"	012345678910
	Combining Industries	expansions societal infrastructure minimal industry sets	when no particular new actions were undertaken while abroad 785, certain products cannot be even imagined except by a combination of certain extremely different industries	012345678910
orics	and a series	(automobile navigation)	786. certain products make no sense except as what present times allow as a	012345678910
Combinatorics		replacement time staging (driving automation)	step towards a much more powerful overall product/goal for the distant futureprogress products rather than arrival products	
Con		explosive research acceleration (bio-informatics)	787. certain products can only be imagined when order of magnitude differences in research are undertaken, allowing entire new tool sets and infrastructures to get invented together	012345678910
		communicating more of human experience (erotic haptic devices)	788. certain products can only be imagined when a host of new techniques and technologies are configured so as to magnify the power and sensitivity of particular core human sensation machineries or thought machineries	012345678910
	Cluster Dynamics	ideas flowing to institutional homes	789. ideas flow between firms looking for people and organization and resources matching potentials	012345678910
		talent flowing to idea homes	790. people flow between ideas, embodied in firms, looking for somethiing evoking their passions and capabilities	012345678910
		funding flowing to realizable idea products	791. funds flow between ideas and firms, looking for paybacks possible in certain time windows	012345678910
		disciplinary refounding of ideas resourced	792. ideas flow across practices and disciplines of knowledge (across functions in firms) with greater difficulty than across firms because ideas have to be reinvented in different practices/disciplinestranslated into different preferred knowledge model types	012345678910
	Righting Business	finding or following	793. entire industries have arisen from finding and following customer wants better	012345678910
	Equation Imbalances	customers better finding or developing suppliers better	794. entire industries have arisen from finding and following suppliers better	012345678910
		inventing or improving processes better	795. entire industries have arisen from finding and following process improvements better (Dell for example)	012345678910
		inventing or revolutionizing customer satisfactions better	796. entire industries have arisen from finding and following changes and changers of customer wants better	012345678910
	Filling Structural	bridging satisfaction gaps	797. gaps between what products do and what satisfies customers invite new firms	012345678910
	Holes	bridging idea network gaps	798. gaps between key networks of ideas invite new firms	012345678910
ints		bridging organization gaps	799. gaps between key organizations invite new firms	012345678910
Focal Points		creating new gaps	800. creating new technologies, organization forms, market events that cause satisfaction/idea/org gaps invites new firms	012345678910
	Institutionalizing Non-Linearity	finding and using tipping points	801. finding tipping points in large non-linear systems invites new firms	0.1.2.3.4.5.6.7.8.9.10
Structural	Effects	tuning interacting populations till avalanches occur	802. tuning populations interacting till avalanche effects across the entire system appear invites new firms	012345678910
Strı		productizing side-effects	803. discovery of side-effects invites using them as main effects of a new firm or technology	012345678910
		pruning away chaff from emergents	804. being first to clear away junk/noise from emerging results of myriad interacting things to spot discoveries or innovations intives new firms	012345678910
	Idea Manufacture	morphological forecasting	805. new subtrates, ideas, tools, technologies plotted against themselves in giant matrices, with rows and columns grouped in various ways by similarity, looking for intersection areas of high value, invents new firms	012345678910
		dimensions of difference analysis	806. plotting chronologically all new entrants/ideas in a market by all firms, noting dimensions along which each differs, grouping such dimensions, then interpolating and extrapolating new firms along them invents new firms	012345678910
		the 40 TRIZ moves of inventing	807. studying all patents in one particular product finds 40 general operators for turning one invention into 100s of others, the same across all domains-applying the 40 to any one new idea/product invents new firms	012345678910
	1	creativity dynamics	808. each of 60 models of creativity applied to one new invention or	012345678910

	Refusal to	revenge for being	809. people invent firms for revenge	012345678910
	Salute	crushed by exploitation		
		(drive to be own boss or		
		lord over others)		
		escape male monkey-	810. people invent firms for cultural escape from animalistic organization life	012345678910
		like hierarchy		
		reject costs of	811. people invent firms to be free of conformity and social pressures	012345678910
		conformities		
		frustrated by rejection	812. people invent firms to get ideas seen, funded, and respected that were	012345678910
		of own ideas	slighted before	0.11.2.0.1.1.0.1.7.1.0.1.7.1.10
	Personal	want to work with	813. people invent firms to get paid to hand around with people they like	012345678910
	Chemistry	someone	spending time with	012343076710
	Chemistry	friends happen to fill	814. people invent firms because their friends happen to fit together if a	012345678910
				012343078910
us		key venture role set	certain business is invented	012345678910
.2		work to fund	815. people invent firms and products in order to get paid to continue certain	012343678910
ā		continuance of great	high quality conversations with others	
Ę		conversations		0.1.2.2.4.5.6.7.0.0.10
Personal Motivations		sharing dreams	816. people invent firms in order to realize a common idea or dream they share	012345678910
	Refusal of	the show off personality	817. people invent firms who have to be the life of the party, the center of	012345678910
na	Anonymity		attention	
20		the polis drive (reject	818. people invent firms who must have an identity, a name, a basis of	012345678910
ė		anonymity from	respect in greater society, they must be visible in large scale society	
Д		increased organization		
		size)		
		drive for historic	819. people invent firms who wish to be remembered after they die by those	012345678910
		audience of the unborn	yet unborn	
		drive to leave personal	820. people invent firms who wish to leave every situation changed and	012345678910
		mark on every situation	influenced	
	Parenting	fathering ideas that	821. people invent firms because they wish to parent historically rich and	012345678910
	Invention	stand up to entire	unusual ideas	
		history and tradition		
		mothering baby ideas	822. people invent firms because they wish to nurture small fragile	012345678910
		past demons of the past	uniquenesses/ideas that old social forces threaten to kill	012343070710
		civilizing new	823. people invent firms because they spot frontiers in danger of staying	012345678910
			barbarous and harmful unless civilized	012343078910
		wildernesses	824. people invent firms because they feel responsible to make love more	012345678910
		re-embodying love in a	central and visible in a world of cold selfish barbarians	012343078910
		world that erodes it		
			64 Dynamics of Creative Performance	
	Inspiration	illusion of first time	825. performances have to be repeated again and again, each time creating	012345678910
	on		the illusion within the performer and the audience that it is the first time	
	Command	insight on cue	826. repeating performances again and again amounts to requiring insight to	012345678910
			appear on cue, inspiration to appear on cue, a contradiction	
		consistent creativity	827. consistent creativity is nearly impossibleresearch finds that creators	012345678910
			cannot predict which of their works or performances are judged great and	
			which are judged trash, they do not get better over time at such predictingyet	
			repeated performances require being interior and creative and being exterior	
			again and again, consistently	
		simultaneous creation	828. performance is both real time live composition and real time live	012345678910
		evaluation	performing at the same time, with real time live evaluation and tuning of	
		Crandation	composition and performance	
	Self as Tool	performer as violinist	829. performers are both the violinist and the violin at the same timethe	012345678910
	Sci as 1001	and violin both	instrument being played and the player of the instrument	0122 7 2070710
ဥ		relaxation = tuning	830. relaxation, blanking the heart and mind before and during performing, is	012345678910
nergence		violin	like tuning a violin, getting it on pitch, strung neither too tight nor too loose	012373070710
50		tune self and	831. performers tune their selves and their environment both, the former by	012345678910
ű				0123430/8910
圍		environment	relaxation, the latter by context setting and relaxation inducing dialog with co-	
Design En			players	012345678910
Sig		nature of life is the	832. performers always convey the same messagethis is truly lifelife is	012345678910
e		message	truly thisbeing alive is thisthis lived experience is that, the ground from	
_			which all being arises, this is that, as ancient Hindu mystics said	
	Illusory	live through a role	833. performers live situations through their assigned rehearsed role, playing	012345678910
	Reality		the role as it plays the situation with other roles being played by others	
		respond to imaginary	834. performers during performing respond to imagined objects and persons	012345678910
			as if they were real and presentthey strip all trace of "being an audience" or	
		objects as if to real ones		
		objects as if to real ones	having "audience reactions" to their own performing out entirely	
		objects as if to real ones see eternity but go on		012345678910
			having "audience reactions" to their own performing out entirely	012345678910
		see eternity but go on	having "audience reactions" to their own performing out entirely 835. performers drive each interaction of roles, each scene from mundaneity,	012345678910
		see eternity but go on	having "audience reactions" to their own performing out entirely 835. performers drive each interaction of roles, each scene from mundaneity, through experience, through symbol, to eternal meaning, but go on living into	012345678910
		see eternity but go on	having "audience reactions" to their own performing out entirely 835. performers drive each interaction of roles, each scene from mundaneity, through experience, through symbol, to eternal meaning, but go on living into the next scenetouching the divine again and again without choosing	0.1.2.3.4.5.6.7.8.910
		see eternity but go on living	having "audience reactions" to their own performing out entirely 835. performers drive each interaction of roles, each scene from mundaneity, through experience, through symbol, to eternal meaning, but go on living into the next scenetouching the divine again and again without choosing godlyness of humanity	
		see eternity but go on living out of life in order to be	having "audience reactions" to their own performing out entirely 835. performers drive each interaction of roles, each scene from mundaneity, through experience, through symbol, to eternal meaning, but go on living into the next scenetouching the divine again and again without choosing godlyness of humanity 836. performers are cool detached in the midst of their most emotive and moving work, they leave situations and feelings, watching from afar from a	
		see eternity but go on living out of life in order to be	having "audience reactions" to their own performing out entirely 835. performers drive each interaction of roles, each scene from mundaneity, through experience, through symbol, to eternal meaning, but go on living into the next scenetouching the divine again and again without choosing godlyness of humanity 836. performers are cool detached in the midst of their most emotive and	

Design Emergence	No Mind Obstruction	find and keep flow	837. performers seek out that balance of working slightly beyond all one's own best abilities fully engaging all aspects of one's situation, at the absolute limit of what one can now grow to do, that causes "flow" the transcendent feeling of the universe working through you, using you, to work its own magic powers	012345678910
		it creates itself stance	838. the roles that performers perform create themselves, they are not created by the performer	012345678910
		true desire for moksha, release	839. performers seek and find moksha, true mystic release from the burden of the cycle of life, the suffering that being conscious in a world is, and at that moment in the performance touch and awaken the audience's desire for moksha, all seeing all in the depths of their struggle to be happy in a world of suffering	012345678910
		own mind as show (self consciousness = choking)	840. performers avoid choking, self conscious awareness and tinkering with details of their performing, via seeing their own minds as shows, before them, letting their own minds operate while watching the contents of their minds from a rational and emotional distant points, the same point reached in zacen meditation = one's own mind as generator of worries	012345678910
	Repetition	fresh versus repeat	841. performances are fresh but repeated such freshness, a contradiction	012345678910
		spontaneous versus script	842. performances are spontaneous doings of entirely scripted things, a contradiction	012345678910
		open-ended versus known outcome	843. performances are open-ended lived moments having fully known rehearsed scriped outcomes, a contradiction	0.1.2.3.4.5.6.7.8.9.10
		rehearse versus appear improvised	844. performances appear improvised and surprising but are rehearsed and repeated, a contradiction	012345678910
	Recreation	truth versus imitation	845. performances are encounters with Truth, yet done via imitation of truth	012345678910
		private versus public privacy	846. performances are public exposures of very private moments, public forms of privacy	012345678910
NO X		rehearsal work versus performance work	847. performances are the work of repeating, in rehearsal, and the work of repeating, in performanceswatched by professionals work and watched by non-professionals workdual audiences	012345678910
ad		create not imitate reality	848. performances create reality while imitating it repeatedly	012345678910
Par	Role Expresses	face versus mask (self versus tool)	849. performance roles are masks, that is tools, that reveal faces, that is selves	012345678910
Manage Paradox		physical versus spiritual makeup	850. performance roles use physical make up to signal and evoke spiritual makeup	012345678910
		event versus plot	851. performance roles enact events, one after another, that are sensed and seen as events, surprising unique ones, that constitute afterwards a sequential coherent plot of a story	012345678910
		internalize versus express	852. performance roles internalize feelings and experience deeply, in order to, exteriorize them fully; going out by going in first	012345678910
	Detached Engagement	move audience remain unmoved	853. performers move audiences while remaining unmoved themselves- viewing their own generation of role passions from detached perspectives	012345678910
		relaxation versus concentration	854. performers achieve concentration by relaxing not by marshalling intensity	012345678910
Perfect Parts		calculation versus warmth	855. performers evoke warmth via calculated moves that project subtle interior things using overt moves, acts, gestures	012345678910
		dead versus alive	856. performers pick up the dead areas of life and people and after handling them within their assigned roles, leave them live	012345678910
	Connection	sing song versus sing piece of life	857. performers sing songs if they are bad and sing pieces of life they and their audiences have experienced if they are good–great technique viewed versus "a piece of my life I had forgotten or overlooked or undervalued" viewed	0.1.2.3.4.5.6.7.8.9.10
		see performer versus see life	858. if audiences see a performer performing the performance is a non- performance; if the audiences see life, there again before them, as a live moment, a re-living of moments of real lives, the performance is a performance	012345678910
Perfe		create reality of script situation versus wanted	859. performers struggle while performing to create the reality that the script circumscribes and approaches, performers do not struggle to impact	012345678910
		audience reaction celebrate versus critique the times	audiencesit is the reality the script circumscribes that impacts audiences 860. performers even when their role critiques the times and their people are celebrating the joy of being alive in a world one finds fault withall performed critique is also celebration	012345678910

	Expression	personal habits of	861. performers rehearse in order to overcome personal habits of expression	012345678910
		expression block	that get in the way of projecting, that is, expressing adequately to real	
		expressing	audiences, contents not amenable to happenstance, casual, habits of	
			expressing	
		actor concentration	862. performers fully doing their assigned role, in interaction with related	012345678910
		produces audience	roles and situations, induce audience response, performers trying to induce	
		response	audience response directly fail to do so	012345678910
		structural finding of	863. performers aware of the symbolic meanings embedded as subtexts	012343678910
		subtexts in texts	around and in texts weave frameworks of interpretation and association and	
			feeling around performed role parts that evoke audience impact; performers	
			unaware of these subtext contexts leave just what is on stage to evoke audience impactit is inadequate for that task	
		substitute experience	864. performers develop a menu of own experiences matching role	012345678910
		memory menu	experiences they must project and protray, expanding that menu and	012343078310
		memory mena	improving its matching	
	Grounding	memory, intellectual,	865. performers develop kinds of memoryintellectual, physical, sensual,	012345678910
	Grounding	physical, sensual,	emotionalamazing audiences by using them to recall, to audiences, parts of	012545070710
		emotional grounding	life and experience they cannot face or remember, as audiences try to hold	
		emotional grounding	onto experience using only one or two of these four types of memory, not	
			professionally trained and honed	
ıts		cues: plot, event, sense,	866. performers seek plot cues, event cues, sensation cues, and emotion cues	012345678910
Pa		emotion	that put them into what to say and do next, what their role's response is	
Perfect Parts		experience: author,	867. performers weave 1) author experience, 2) their own personal	012345678910
		actor, audience	experience, 3) their own actor experience, 4) the audience's personal	
		,	experience in general, and 5) the audience's experience of the performance	
		performers as audience	868. performers are audiences of their own and other actors' performances	012345678910
			but they dare not react to their own audience experience with the actual	
			audienceinstead they react purely as their role	
	Timelessness	character, gesture, role	869. we do not see the life we live while living itonly art, only performance	012345678910
		as message	allows us to see our experience, to experience our experience, the weigh and	
			judge, appreciate and marvel at it	
		reasonableness and	870. while living an experience we automatically edit out the vast majority of	012345678910
		unreasonableness of	its contents, keeping ideas, beliefs, and habits in our lives consistentbut in	
		each fragment of life	art, we open ourselves to unedited vaster versions of the contents of our own	
			lives, finding all sorts of things we edited out, and what we left out tells us	
			who we are and need to become	
		epiphantic journey till	871. performances bring audiences to epiphany points, where self imagery	012345678910
		illusion is lost	and self awareness change forever, stripping comfortable illusions, making	
			lives wider, deeper, more tolerant, more appreciative of life's richness &	
			limitation	
		omphalotic stance of	872. performance wipes out time's erosion of feeling, value, memory by	012345678910
		whole performance	reconstituting lived moments, repeating them, bringing our past back to us as	
			present, making us, for moments, eternal, not doomed and mortalthe eternity	
			of humanity lives through us, constitutes us, is us, and the ego we mistake for	
	Tuoining	b b till	us, merely gets in the way causing suffering and error	0 1 2 2 4 5 6 7 9 0 10
Performances	Training	game: search heuristics sports: can versus will	873. games are performances testing our ability to search, find, and recognize 874. sports are performances testing our ability to will all that we can do	012345678910
		business: impression	875. business requires high performance testing our ability to fully manage	012345678910
		permits reality	impressions while actually dealing with realities	012343076710
		war: habit saves	876. wars are performances testing our ability to let habit save us from errors	012345678910
		thought	thought causes	01234307070
	Compassion	love: disclose	877. love cannot be manufactured or faked because it is continual live real	012345678910
		vulnerable self	disclosure of vulnerabilities to another we trust, in performance, the audience	
			must be embarrassed for the lover as he/she reveals what audience members	
			would shudder to have anyone know about them	
E		leader: lead by	878. leadership is performance that induces others into leading, risking, going	012345678910
Peri		l	beyond comfortable safe skilled responses to situations prepared forleaders	
		following		
		following	are the people who volunteer to handle messes, blow ups, threats that wilt the	
		following	are the people who volunteer to handle messes, blow ups, threats that wilt the rest of us	
		high performance:		012345678910
			rest of us	012345678910
Distinguish Perf		high performance:	rest of us 879. high performance is erecting a culture of shared automated routines among	012345678910
		high performance:	rest of us 879. high performance is erecting a culture of shared automated routines among a group—all cultures are high performances vice versa, all high performances are	0.1.2.3.4.5.6.7.8.9.10
		high performance:	rest of us 879. high performance is erecting a culture of shared automated routines among a group—all cultures are high performances vice versa, all high performances are erected cultures; high performers weave people around them into sharing a	0.1.2.3.4.5.6.7.8.9.10
		high performance: historic dream community	rest of us 879. high performance is erecting a culture of shared automated routines among a group—all cultures are high performances vice versa, all high performances are erected cultures; high performers weave people around them into sharing a historic dream and erecting a community around realizing that dream	

	Empathy	public speaker: teach	881. public speakers as a type of performer teach audiences to require better	012345678910
		audience better self	more stringent things of themselvesthey invite people to live using higher	
		requirements	standards than the societies they were born into and are now in	
		artist (singer etc.):	882. artists as performers repeat freshness, repeat inspiration, repeat unique	0 1 2 3 4 5 6 7 8 9 10
		repeated inspiration	experiences, an impossible feat, amazing audiences with their ability to do	012343070710
		repeated inspiration		
			freshly an experience for the 1000th time; artists as performers invoke and	
			embody possibilities as soon as possible, turning the utterly new into instant	
			embodied, named, experienced, used toolthey civilize emotive wilderness,	
S			name new demons and conquests	
၂ ဗ		actor: seeming reality	883. actors as performers make the seeming-to-be that is most of life real and	012345678910
an l		"	make the reality of life seem to be here, now, in front of us, again, as a live	
Ë			matter, re-experiencable	
=		4-:1 1:66		0 1 2 3 4 5 6 7 8 0 10
£		daily life performance:	884. daily life as performance overcomes all the messages, status rankings, and	012343078910
Pe		impression fame	narcissisms telling us we are not central, others are importantfinding the center	
			of all of life and all of life's meaning again here now daily with us, unfamous as	
is.			we beenacting the inability of civilization to strip ordinary lives of centrality	
ng l			for the sake of profit-making industries in large cities and empires	
E.	Balance	device: negative trade-	885. devices entice us into certain performances at a cost, usually hidden and	012345678910
Distinguish Performances		offs	unadmited, in dropping other performances	
				0 1 2 3 4 5 6 7 8 0 10
, · ·		interview: read while	886. interviews entice us into reading our lives while telling or writing them	012343078910
		writing	out	
		society: success creates	887. societies entice us into successes that produce failure as their results	012345678910
		failure	our attempts to be better than others and life guaranteeing that we spent lots of	
			time being worse	
		everyman as performer:	888. centralize broadcast industires that have stripped performance from	012345678910
		broadcast liberation	daily lives, condemned tens of millions into just sitting while rich central	
		broadcast nociation	elites perform have gradually caused invention of new media allowing	
			everyone to be their own theatre, performer, broadcasterdivine justice at last	
			64 Dynamics of Creative Composing	
	Structure for	entool to capture chance	889. insights can occur in any circumstance at any timecomposers have	012345678910
	Insight	insights/inspirations	some notebook or other tool for capturing ideas anywhere anytime	
	-		890. composers, though working mainly on some one project, have minds,	0 1 2 2 4 5 6 7 9 0 10
	Emergence	entool to organize		012343078910
		scattered bits of various	emotions, imaginations constantly flitting hither and thither to other projects	
		projects	and possibilities, requiring tools for catching and combining scattered insights	
			into coherent bodies of knowledge for particular projects	
		mix stimulation and	891. composers alternate among spaces for stimulating thought and spaces	012345678910
		formulation spaces	for turning stimulation into concrete outputs and products	
		throughout each day		
		alternate "in the	892. composers have to leave their selves, work, imaginations, projects,	0 1 2 3 4 5 6 7 8 9 10
		business" time with	responsibilities for long periods to refresh idea, emotion, motive, meansso	0.11.12.13.11.11.01.71.10.13.11.10
	G	hermit time	they alternate between full engagement time and complete detachment time	0 1 2 2 1 5 6 7 0 0 10
r.	Structure for	establish insight and	893. composers combine two disciplinesone for insight production	012345678910
ಕ್ಷ	Productivity	production disciplines	involving alternating egagement with detachment on one problemone for	
5		and keep to them	producing tangible outputs from a host of insights;	
Ē	1			
夏		alternate and separate	894. composers separate generating and evaluatingoften by years or	012345678910
ian		_		012345678910
Dian		generating and	thousands of kilometers, having separate years or homes for eachas over-	012345678910 012345678910 012345678910 012345678910
to Dian		_	thousands of kilometers, having separate years or homes for eachas over- active evaluation prevents generation entirely and over-active generation turns	
into Dian		generating and evaluating	thousands of kilometers, having separate years or homes for each—as over- active evaluation prevents generation entirely and over-active generation turns quickly into junk	
fe into Dian		generating and evaluating after your best: seek	thousands of kilometers, having separate years or homes for eachas over- active evaluation prevents generation entirely and over-active generation turns quickly into junk 895. composers do their best, their very best-	
Life into Dian		generating and evaluating	thousands of kilometers, having separate years or homes for eachas over- active evaluation prevents generation entirely and over-active generation turns quickly into junk 895. composers do their best, their very bestwhen that is attained they are ready to expose it to others for shallow, bad-minded, or valid critiquethen	
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Wrestle Life into Diamonds		generating and evaluating after your best: seek outside opinion then rewrite write first to discover your thought, second to	thousands of kilometers, having separate years or homes for eachas overactive evaluation prevents generation entirely and over-active generation turns quickly into junk 895. composers do their best, their very bestwhen that is attained they are ready to expose it to others for shallow, bad-minded, or valid critiquethen they respond to that feedback, not by following its recommendations but merely by inventing unique responses to its points 896. writing is always tripleto find what one feels or thinks, to organize that, the convey that organization to particular others/audiences; what do I	012345678910
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Wrestle Life into Dian		generating and evaluating after your best: seek outside opinion then rewrite write first to discover your thought, second to order it, third to convey that order to audience	thousands of kilometers, having separate years or homes for eachas overactive evaluation prevents generation entirely and over-active generation turns quickly into junk 895. composers do their best, their very bestwhen that is attained they are ready to expose it to others for shallow, bad-minded, or valid critiquethen they respond to that feedback, not by following its recommendations but merely by inventing unique responses to its points 896. writing is always tripleto find what one feels or thinks, to organize that, the convey that organization to particular others/audiences; what do I think/feel? what do these thoughts amount to? how can this particular audience/person be made to see or feel that?	012345678910
Wrestle Life into Dian	Life Anchor	generating and evaluating after your best: seek outside opinion then rewrite write first to discover your thought, second to order it, third to convey that order to audience drive your work	thousands of kilometers, having separate years or homes for eachas overactive evaluation prevents generation entirely and over-active generation turns quickly into junk 895. composers do their best, their very bestwhen that is attained they are ready to expose it to others for shallow, bad-minded, or valid critiquethen they respond to that feedback, not by following its recommendations but merely by inventing unique responses to its points 896. writing is always tripleto find what one feels or thinks, to organize that, the convey that organization to particular others/audiences; what do I think/feel? what do these thoughts amount to? how can this particular audience/person be made to see or feel that? 897. composers seek crucial moments in life through which to open windows	012345678910
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Wrestle Life into Dian	Life Anchor	generating and evaluating after your best: seek outside opinion then rewrite write first to discover your thought, second to order it, third to convey that order to audience drive your work through one of life's key moments peel back defenses let your clear grasp of a powerful part of life,	thousands of kilometers, having separate years or homes for eachas overactive evaluation prevents generation entirely and over-active generation turns quickly into junk 895. composers do their best, their very bestwhen that is attained they are ready to expose it to others for shallow, bad-minded, or valid critiquethen they respond to that feedback, not by following its recommendations but merely by inventing unique responses to its points 896. writing is always tripleto find what one feels or thinks, to organize that, the convey that organization to particular others/audiences; what do I think/feel? what do these thoughts amount to? how can this particular audience/person be made to see or feel that? 897. composers seek crucial moments in life through which to open windows on experience, meaning, invention 898. composers study exactly how people flee from, hide from, avoid responsibility, honesty, truth, sincerity, and the like and peel back such defenses 899. composers let the parts of life they capture and reproduce impact	012345678910 012345678910 012345678910 012345678910
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Wrestle Life into Diamonds	Epiphantic Development	announce setting and	901. composers announce the setting and main story involved clearly and	012345678910
<u> </u>	Development	storyline early and clearly	early to orient performers and audiences, allowing them to know how to interpret what is being said	
an		balance structure and	902. composers say somethings but suggest far more, present forms but only	012345678910
Ä		association; insight and	to stimulate insight via those forms—they use direct messages only for basic	012343078910
2		form	communicative orientation, and use indirect messages for nearly all important	
Ξ.		Tomi	meaning content	
įį		go beyond past practice	903. composers master all past forms and genres then go beyond them, using	012345678910
-a		after mastering it	the entire past as a library of materials to be rethought and recombined into	
Ħ			some new inventions now	
Ľ		target moments when	904. composers make lists of the types of moments when lives transform and	012345678910
≥		lives transform	work to populate their works so they are filled with such moments	
	Use Media	demonstrate what the	905. composers demonstrate the power that particular media have to	012345678910
		media can communicate	communicate	
		avoid demonstrating the	906. composers avoid demonstrating the media themselves	012345678910
		media by themselves		
		blend the media roles	907. composers blend media so media interact, each medium playing	012345678910
		for synergy and	different roles, often unlikely ones	
		unlikelihood		012215670016
		make the media help the	908. composers make the media subservient to the message being conveyed	012345678910
	Find Cares	message	000 composers are in touch with themselves	012345678910
	riiu Cares	get in touch with yourself	909. composers are in touch with themselves	012343078910
		get in touch with best	910. composers study the best expressions in history, all media, of each	012345678910
<u> </u>		expressions in the	human situation, response, emotion	012343070710
ie.		history of your field	naman statusin, response, emotion	
Connect to Self and Audience		get in touch with your	911. composers study their times in immense detail and breadth, amazing	012345678910
Ā		times	audiences with economy of exact reference, slight words bringing into	
nd			emotive reality huge complex current situations	
ಪ		get in touch with the	912. composers study their audiences, particularly, life as encountered by and	012345678910
še		lives of your audiences	faced/fled from by audiences	
0	Find Timing	make room for insight	913. composers use plans and plot outlines as locales for insight, not things to	012345678910
;			execute	
e		find the rhythms of your	914. composers sense the fads, fashions, illusions, fears, politics-based-	012345678910
Ē		field	distortions of their own fields and inject into the rhythms of illusion there,	
ರ		find the shuthme of your	rhythms of disillusion, reality, encounter 915. composers work at and embody interactions having the rhythm of their	012345678910
		find the rhythms of your times and audiences	times blended or contradicted by the rhythms of other times, past or future	012343078910
		arrange for surprising	916. composers release works to punctuate their times, hit tipping points,	012345678910
		release of works	where slight inputs can have large effects	0.11.2.0.0.11.0.0.7.10.0.7.110
	Excel	fully meet your own	917. composers fully meet their own criteria of excellence before enduring	012345678910
		criteria of excellence	evaluation by others	
		go beyond your field's	918. composers use their own field's criteria of excellence and cannon of	012345678910
		past forms of excellence	famous forms as something to go beyond not something to fit into	
		excel in what you excel	919. composers carry their own particular points of excellence to ridiculous	012345678910
		in and how you excel in it	extremes so visibility is possible	
		set up co-invention	920. composers via sequences of released works set up dialogs with their	012345678910
	Vanionina	dialog community	audiences co-inventing next works via how they react to previous ones	0 1 2 2 4 5 6 7 0 0 16
	Versioning	drafts for self edits	921. composers make one draft for self editing	012345678910
		drafts for feedback from others	922. composers make another draft for getting the feedback of others	012343078910
		drafts or observing	923. composers make other drafts for observing how strangers respond	012345678910
		responses of strangers	7	
		and evaluators		
		drafts for impact	924. composers make other drafts for judging size and kind of impact	012345678910
			possible from a work	
	T3 1141	edit out elements that	925. each part of each work has both a rational, emotional, and interaction	012345678910
	Editing			
	Editing	don't further the	goal, with editing done so that anything not contributing to realizing these	
þ;	Editing	don't further the emotive point	goals is stripped out of the work	
bean	Editing	don't further the emotive point time the interaction of	goals is stripped out of the work 926. each part of a work interacts with other parts in complex patterns till	012345678910
beanpo	Editing	don't further the emotive point time the interaction of elements till good	goals is stripped out of the work	012345678910
Produceq	Editing	don't further the emotive point time the interaction of elements till good things emerge	goals is stripped out of the work 926. each part of a work interacts with other parts in complex patterns till things and experiences beyond what is there, written or performed, emerge	
Produced	Editing	don't further the emotive point time the interaction of elements till good things emerge balance unlikelihood	goals is stripped out of the work 926. each part of a work interacts with other parts in complex patterns till things and experiences beyond what is there, written or performed, emerge 927. each part of a work is as comprehensible as possible while still being	
Produced	Editing	don't further the emotive point time the interaction of elements till good things emerge balance unlikelihood with comprehensability	goals is stripped out of the work 926. each part of a work interacts with other parts in complex patterns till things and experiences beyond what is there, written or performed, emerge 927. each part of a work is as comprehensible as possible while still being unlikely and as unlikely as possible while still being comprehensible	012345678910
Produced	Editing	don't further the emotive point time the interaction of elements till good things emerge balance unlikelihood	goals is stripped out of the work 926. each part of a work interacts with other parts in complex patterns till things and experiences beyond what is there, written or performed, emerge 927. each part of a work is as comprehensible as possible while still being unlikely and as unlikely as possible while still being comprehensible 928. each part of a work is aimed at a possible tipping point inside the psyche	012345678910
Produced		don't further the emotive point time the interaction of elements till good things emerge balance unlikelihood with comprehensability seed avalanches	goals is stripped out of the work 926. each part of a work interacts with other parts in complex patterns till things and experiences beyond what is there, written or performed, emerge 927. each part of a work is as comprehensible as possible while still being unlikely and as unlikely as possible while still being comprehensible 928. each part of a work is aimed at a possible tipping point inside the psyche of audience members or in society's networks of concerns and institutions	012345678910
Produced	Testing	don't further the emotive point time the interaction of elements till good things emerge balance unlikelihood with comprehensability	goals is stripped out of the work 926. each part of a work interacts with other parts in complex patterns till things and experiences beyond what is there, written or performed, emerge 927. each part of a work is as comprehensible as possible while still being unlikely and as unlikely as possible while still being comprehensible 928. each part of a work is aimed at a possible tipping point inside the psyche of audience members or in society's networks of concerns and institutions 929. works are tested, stripped of who wrote them, and any fame of that	012345678910
Produced		don't further the emotive point time the interaction of elements till good things emerge balance unlikelihood with comprehensability seed avalanches	goals is stripped out of the work 926. each part of a work interacts with other parts in complex patterns till things and experiences beyond what is there, written or performed, emerge 927. each part of a work is as comprehensible as possible while still being unlikely and as unlikely as possible while still being comprehensible 928. each part of a work is aimed at a possible tipping point inside the psyche of audience members or in society's networks of concerns and institutions	01.2345678910 012345678910 012345678910
Produced		don't further the emotive point time the interaction of elements till good things emerge balance unlikelihood with comprehensability seed avalanches anonymous tests	goals is stripped out of the work 926. each part of a work interacts with other parts in complex patterns till things and experiences beyond what is there, written or performed, emerge 927. each part of a work is as comprehensible as possible while still being unlikely and as unlikely as possible while still being comprehensible 928. each part of a work is aimed at a possible tipping point inside the psyche of audience members or in society's networks of concerns and institutions 929. works are tested, stripped of who wrote them, and any fame of that author, to get non-status impacts	012345678910 012345678910 012345678910
Produced		don't further the emotive point time the interaction of elements till good things emerge balance unlikelihood with comprehensability seed avalanches anonymous tests	goals is stripped out of the work 926. each part of a work interacts with other parts in complex patterns till things and experiences beyond what is there, written or performed, emerge 927. each part of a work is as comprehensible as possible while still being unlikely and as unlikely as possible while still being comprehensible 928. each part of a work is aimed at a possible tipping point inside the psyche of audience members or in society's networks of concerns and institutions 929. works are tested, stripped of who wrote them, and any fame of that author, to get non-status impacts 930. works are tested, with author identification, to get non-status combined	012345678910 012345678910 012345678910 012345678910
Produced		don't further the emotive point time the interaction of elements till good things emerge balance unlikelihood with comprehensability seed avalanches anonymous tests	goals is stripped out of the work 926. each part of a work interacts with other parts in complex patterns till things and experiences beyond what is there, written or performed, emerge 927. each part of a work is as comprehensible as possible while still being unlikely and as unlikely as possible while still being comprehensible 928. each part of a work is aimed at a possible tipping point inside the psyche of audience members or in society's networks of concerns and institutions 929. works are tested, stripped of who wrote them, and any fame of that author, to get non-status impacts 930. works are tested, with author identification, to get non-status combined with status/fame effects	012345678910 012345678910 012345678910 012345678910 012345678910 012345678910

	Danamina	I ,	022	0 1 2 2 4 5 6 7 9 0 10
	Becoming Incomparable	design surprises	933. composing is the design of surprises that get beyond what people expect, are prepared to defend themselves from, and prefer to view	012345678910
bes		revision of canon of your field	934. composing revises the canon of the field, arranging and prioritizing and looking at it from new points of view	012345678910
Produced		make latent contents of field explicit	935. composing makes explicit latent contents of a field	012345678910
P.		fit society best,	936. composing makes products that fit society perfectly, that is, fit realities	012345678910
		avoiding society's cliches	perfectly, while shunning completely cliche, habit, tradition, bias, delusion, lies, and fleeing from reality	
	Insight Emergence	keep environments rich and diverse	937. composing takes place amid environments rich in diversity and makes works that are such environments for audiences	012345678910
		alternate engagement with detachment	938. composing takes place in alternate periods of engagement and detachment and erects such periods in audiences	012345678910
		practice applying	939. composing takes place amid carefully selected or experimentally	012345678910
		foreign frameworks	selected foreign un-habitual environments and erects such environments for audiences	
		follow up slight hunches	940. composing follows up the slightest hints and hunches in life and gets audiences to do the same when interacting with the composed work	012345678910
	Work Emergence	plural simultaneous projects	941. composers engage in plural simultaneous diverse projects, resting from one project by engaging with another	012345678910
	Emergence	canabalize past works	942. composers use ruthlessly parts of their own and others' past works as	012345678910
ence		bricolage	words in new works as sentences built of such words 943. composers freely use items taken from one context in entirely different	012345678910
erg		create and plurify	contexts 944. composers create new markets and make markets more diverse and	012345678910
Make Room for Emergence	0 1 1	markets	tolerant	
loj u	Opportunity Emergence	befriend connectors	945. composers befriend well connected people, seeking particular resources across wide social networks, rather than being friendly to many people or	012345678910
Coon		network peers and	everyone they meetthey are judicious socially 946. composers live and work in networks of peers and competitors and pulse	012345678910
ke F		competitors	with idea waves and contending movements 947. composers collect mentors from several different age and generation	012345678910
Ma		collect cross-generation mentors	groups to keep the power of ideas and advice relative	
		seed success via extreme productivity	948. composers produce, produce, produce, and distribute, distribute, distribute,-depending on gradually accumulated responses to find and	012345678910
	Career	and distribution surprise strings	suddenly one day propel their entire oevre to fame or wide exposure 949. composers construct their careers as strings of surprising contributions	012345678910
	Emergence		and directions, not predictable ones	
		build own social movement	950. composers build their own social movements, using their works from time to time to mobilize supporters/customers around the world via events,	012345678910
		match attracted	exhibitions, and performances 951. composers match resources they attract with followers they attract to	012345678910
		resources and followers en-school	fund entire schools of similar or supportive efforts 952. composers from time to time formalize their accomplishments and	012345678910
		en-school	methods and approaches and followers	012343078910
	I =		The 64 Purposes of All Arts	
lves;	Reveal the Hidden	performance flaws: error, mistake	953. people avoid seeing and admitting error; only fiction, art, or history accurately present error; comedy and tragedy are based on making error	012345678910
onr se	personal and social factors	goal flaws: greed, lust	visible, felt, palpable 954. we paint our faces and world always making things look better than they	012345678910
the world and our selves; gination	cause us to		are, till we forget how they really are; our real animal nature and drives	
world	hide from much of	mood flaws: tiredness,	embarrass us, so we hide them till art reminds us of their power and reality 955. we like to feel in control of self and world so much we lie to ourselves	012345678910
nd the worl	realityart brings us back	disagreement, loneliness, weakness	about it; art lets us see and admit the gap between what we really feel and what we socially should feel	
life ar	realities we have hidden	criteria divergences: virtue, aspiration	956. our primary group of family and close firends is the primary barrier to self change/improvement; they hate it if our criteria of performance differ	012345678910
nits in mits v	from		from theirs; art lets us be more than we and they now are	
he lim	Overcome Fixed Life	time limits: death, busyness, career	957. time powerfully limits our lives in many ways; death makes life short and competitive; busyness makes us forget and hurt those we love; short	012345678910
art overcomes the limits in life and it goes beyond such limits with imag	Limits we get tired of		lifespan forces focus and choice on us that we often dread and delay or do badly; art reminds us of all this	
overco	this one world	physical limits: place,	958. thru art we imagine beyond the physical limits of our workd, and create	012345678910
	and its one way of doing; art	transport, tree height	motivation to invent actual ways to get beyond such limits; media technologies continually get invented to make us present in all spaces and	
mits	lets us imagine other worlds	social limits: wasted	times 959. art lets us vent frustration with social limits on all we aspire to and do;	012345678910
e Lin	and ways	lifespan, politicizations, herd conformities	art lets us name and mock social harms hiding amid social goods and traditions; the costs of being social ar revealed and refelt via art	
Pierce Limits		self limits: self	960. art lets us imagine a better us and life in which love is true, we do what	012345678910
170		centeredness, sin, loss	we promise, and we care for others more than our selves; art overcomes limits from our selves	
		of live	mints from our serves	

PIETCE LIMITS art overcomes the limits in life and the world and our selves; it goes beyond such limits with imagination	Name New Terrors & Dreams	external threats	961. we sense and peripherally see things we are not aware of or can articulate; art invites us to name these incipient feelings; new threats may linger on the margins of consciousness till art by naming them allows us to see and respond to them	012345678910
<u> </u>	gradual	internal threats	962. we threaten ourselves in various ways, make compromises that erode	012345678910
ang ang		internal tilicats	our primary images, confidence, and values, waste time or relationships out of	01234307671
overcomes the limits in life and the world a goes beyond such limits with imagination	incipient unnamed things		fear of dying denial, and the like; art lets us name building but subliminal	
nd the nimagi	grow below the edge of our	external opportunity	internal disappointments of our selves by ourselves 963. things may become possible for us gradually so we are not aware, or avoid awareness	01234567891
ife a	awareness till		due to disruption costs of real chances for change;; art names such building oossibility	
s in I	art names them	internal opportunity	964. we can change internally in ways we are not aware of or deny; art	01234567891
E E	and parades them before us		shows us new identities, feelings, styles, relations, aspiractions possible now for us and names them so we can respond to them and do them	
d su	Make	cross size scale	965. art builds bridges between the tiny and the gigantic, the eon and the everyday; art	01234567891
nes t eyon	Impossible	combinations	fractally frames and spots patterns; it repeats themes on many size scales simultaneously	01234307891
es P	Combinations	cross time scale	966. art stands in timeless eternal points beyond existence viewing all history and	01234567891
# §	our world is	combinations	possible futures; art plays the eternal return of past theme in future guises; it bridges eons	
Ħ	split by all sorts	cross discipline and	967. art overcomes the divisions, languages, cultures that forever split us; it	01234567891
3	of divisions	culture combinations	binds together what men split; it uses and values diversity that hurts or	
	overcome by art		irritates or overwhelms us;; it presents a bigger more diverse world that we	
- -	that combines		personally choose to deal with and live in	01224567001
S La	what in reality is usually never	crosss abstraction metaphoric	968. art stands at very abstract viewpoints seeing pattern and unity missed in our quotidian busyness of local viewing; art spots patterns acrosss widely separated	01234567891
Ξ	joined	combinations	and differing realms; it makes the world's diversity more manageable this way	
	Admit Gaps	self gaps: word/deed	969. we disappoint ourselves then forget that we do so; art recovers these	01234567891
	the gaps in life	dream/career	self disappointments, these gaps between our social images and our personal	
	between word		realities, our aspirations and our real accomplishments	
	and deed, self	social gaps: self/other	970. we each have a love-hate relation to society and others; we need them but wish	01234567891
	and other,	love/care	independence of them; we go beyond them but fall behind them too; we daily pretend	
	immortal		to have nothing but social adequacy but art forces us to see that is mere pretense	0.1.2.2.4.5.6.7.0.0
	imagination	performance gaps:	971. we think of ourselves as always meeting our needs or working towards	01234567891
	and mortal body are	need/supply reality/possibility	that but in reality we ignore or block many of our most important needs; art is where we admit the tinyness of our lives and deeds	
	recalled by art	anxiety of existing gaps:	972. our consciousness of our selves, our deaths, our limited lifespans,	0123456789
	and admitted	imagination/mortality	spawns profound anxieties within us that we flee or deny or fail to admit; art	0.11.2.0
		plan/side-effects	shows us the true parameters of our lives without flight or denial	
it reflects us to ourselves	Recall Life's	know yourself	973. music can instantly transport us back to a specific wonderful past	01234567891
Since	Best &		moment; other arts can also do the same; art indexes our experiences,	
9	Worst		allowing us instant access to our lives and selves in earlier forms; art is a time	
ts us	Experiences		machine for the self	
əgə	our experience	know others	974. we have so many experiences, so many places, so many other people	01234567891
ä	of life is so rich we cannot bear		that constitute us, our lives, our memory, yet access is hard or impossible till art opens doors to people and places we have forgot	
Cause Kellection parts of life that we normally forget or flee;	it in mind for	know what you know	975. we in daily life consciousness cannot really know what we know, feel	01234567891
tor	long, losing		what we experienced, think what we thought, remember who we are or who	
n orge	awareness of it		they were in our lives, till art maps journeys across our lives and feelings	
<u> </u>	till art lets us	know what you do not	976. we pretent to competence, control, influence, trying always to appear	01234567891
E E	recall its	know	more important and powerful than we really are, till art brings us face to face	
9 9 E	moments		with all we do not yet control or know	0.1.2.2.4.5.6.7.0.0.1
# # #	Find the	minimal movements	977. our minds are highly suggestible so that a tiny single gesture can recall	01234567891
Cause Kellection of life that we normally for	Minimal Essential		an entire person or era for us; art plays with such powers of our brains; it explores the minimal gesture needed to recall maximal contents/import	
3 =	Traits that	minimal form	978. a photo fragment or long forgotten news clipping can transport us to lost	01234567891
arts	Define		eras and places instantly; art explores the minimal traits, smells, colors, or	0.11.2.0.11.0.0.7.10.17.1
see p	we love		shapes needed to thusly transport us to large lost worlds or persons of experience	
we	impersonators and	minimal reference	979. there are particular ways to refer to something that bring it all back well;	01234567891
hich	mimes for they		art explores just hat these ways are, the ideal most compact most suggestive	
[A	exercise our minds'		powerful representations of anything and everything in life; art seeks actively	
is a mirror in which	great powers of		what the slightest way to effectively refer to something is	0 1 2 2 4 5 6 7 9 0
曺	suggestion; art	minimal recognition	980. there are edges to the mind's capabilities that art explores thoroughly; art seeks out what the slightest sorts of input are that suffice to recall or	01234567891
E S	exercises these powers		recreate the largest fogotten or denied realities	
ä	Exchange	novelty as historic	981. the exciting inventions of our time and age seem impressively new only	0123456789
	Local for	swing from one pole to	because we forget or never learned the past; often radical novelties are merely	
	Distant	the other	swings done over decades from one pole to another of some polarity, revealed by art	
	Frameworks	value of present	982. the value in what or how we do something now may lie entirely in what	0123456789
	art lets us view	practice from what it	that practice replaced when it was first invented and popularized; art shows	
	our selves and	replaced	us the relativity of values undoing our absolutizing of them in daily life	0122456780
	world using	solutions that perpetuate	983. people tend to call or name a "solution" only things guaranteed to perpetuate their deepest problems; art shows this to us, forcing us to see the	01234567891
	unusual distant frameworks so	our problems	bias, bigotry, and blindness in our goodness, morality, tactics, efforts,	
			budgets, and institutions; art humiliates our solution attempts	
	we see patterns			i .
	we see patterns never seen	our selves and world as	984. we erect artificial nice worlds to live our lives in, denying most of reality;	01234567891

	Missing Polis	see wanted liberations	985. giant central broadcast industries have stripped performance from the	012345678910
	& Limelight	. 16	daily lives of all; so we forget what we seek liberation from till art reminds us	0 1 2 2 4 5 6 7 8 0 10
	art lets us see	see wanted free	986. the world comes to us prestructured, so we rarely if ever, act freely to	012345678910
	what we lack,	collaborations	invent new social institutions; art reminds us that all imposing rules and	
	our desire to		things around us finally are made by aand sustained by men; art reminds us it	
	perform, the	. 111	is our world to remake, anytime	0 1 2 2 4 5 6 7 8 0 10
	attention we	see wanted historic	987. for eons in rural villages all people performed roles in village festivals,	012345678910
	crave; it	dreams	getting limelight and attention for growth; modern societies have lost this tll	
	reminds of	. 1 1	art reminds us of this loss and our need for audience	0.1.2.2.4.5.6.7.0.0.10
	liberations	see wanted novelty	988. art causes us to see true novelty, newly born into this world, as it gets	012345678910
	wanted or dreamed of	conserved	attacked by established old powerss-that-be; it reveals the ferocity with which	
	Neurotic &	the cost of talents	the old fights against the new 989. every talent we have is developed by focus which means inattention to	012345678910
	Paradoxic	neurosis	other matters, the lack of the developing of which constitutes the cost of our	012343078910
_	Goals	licurosis	talentsneurosis; we are unaware of these costs of our talents till art forces us	
be in	art helps us to		to see and feel them and their powers	
2	see how we are	conntradictory goals	990. we want to fit in yet stand out, we want fame and daily anonymity, we	012345678910
된	our own	communication goals	want money and loveour goals contradict; art forces us to see the	012343078710
world	enemhy, how		contradictions in what we want and seek; it forces use to measure the	
ofa	there are costs		necessary costs of pursuing or getting what we want	
	of our talents	imbalances manitained	991. we often do or repeat things because we are unaware that ther are	012345678910
more	and how our	because alternatives	alternative values or ways to be; art, by showing dramatically such	012545070710
s ns		unknown	alternatives often as lived by others, reveals our ways as traps, and opens us to	
ive	contradictory		possible change	
See Better more accurately; it gives		side-effects overwhelm	992. we build up our selves and plans and deeds so much that we continually	012345678910
늄충		intended effects	are blind to unintended effects of our actions that are much larger than the	0.11.2.03.1 1.10.10.17 1.10.13 1.110
rate 3		intended erreets	intended ones; art reveals these costs of doing what we promise	
See Better ore accurately	Culture as	assumed goodness of born	993. without examining or experiencing the vast majority of places, ways to	012345678910
e a	Blindness	into: self, gender, home,	live, or people we have confidence that the way we were born is best; art	
S	what we love	nation, era, profession	attackes this basic bias/error in all of us	
e it	the most, what	distaste of or refusal of	994. our own ways of doing are automated by lots of practice and lubricated	012345678910
d see	we are,	other cultures/ways	by unthinking social supports; others' ways are hard to do, unautomated and	
and	enslaves us,		unsupported; art shows how we misinterpret that difficulty as error or	
more	revealed by art		weakness or inferiority of others' ways	
E	that	tiny personal repertoires	995. as we grow older and nearer to death, we find we occupy a tinier and	012345678910
l s	investigates the	of thought or act	tinier fragment of ways of biieng and frameworks for viewing life; art shows	
us to see	certainties of		us just how tiny our views, values, and ways are, and other who have larger	
8	belief, the costs		selves and lives via culture encounters and blends	
t hel	of growing up	lack of skills of spotting	996. art reveals our unpreparedness for a world of diverse values, views, and	012345678910
art	local	and learning other ways	ways; it shows how we avoid learning and change; it shows how hard we	
	T • • •		work to miss or slight the ways of others	0.1.2.2.4.5.6.7.0.0.10
	Incipient	pop trends: news,	997. the basics of the world are continually changing but art updates us, by	012345678910
	Edges of	music, lingo, pop	concentrating the slight and incipient changes in all domains of life into	
	Consciousness	£1: -1-4/£: -1-4-	dramatic or funny or otherwise memorable events	0 1 2 2 4 5 6 7 8 0 10
	slight continual	flight/fight:	998. our emotions are also continually changing, sensing new fears or	012345678910
	incipient	fears/dreams	possibilities; art updates our emotions by making large, clear, dramatic, and	
	changes go on all the time, not	threats/chances mismatches: lifestyle,	visible the slight changes in mood and emotion in and around us 999. as we continually change and things around us change, so change	012345678910
	seen or named	family, culture	mismatches appear where what we provide no longer fits what we or others	012343076710
	till art sees and	iy, cuituit	need, art reveals these emergiling mismatches	
	names them	insincerity: issue	1000. responses become habits and new values in us that as things change,	012345678910
	names them	responses, ruoles	gradually become ineffective then insincere responses; art reveals how our	012343070710
		(reversals)	best efforts or intents have unwittingly become insincere and ineffective	
		(reversus)	responses	
.g 2:	Find New	find new opportunity	1001. art shows us gaps all around us that, by filling, we might revolutionize	012345678910
becoming reativity	Ouestions	gaps	the world; art reveals chances to become creative by spotting and fillilng	
s for t	art reveals		such gaps	
te conditions for b and individual cr	entirely new	find leverage	1002. art shows us places where small actions can have giant	012345678910
and ir.	questions that		disproportionate effects; by highlighting such non-linearities in life art shows	
youp your	mystify us and		us ways to revolutionize knowledge or deed via minimal but well focussed	
sin us s up §	change what		and located inputthe doorways to impact	
	we investigate	change representations	1003. art gives us entirely new ways to represent things which changes of	012345678910
blishe : it set			representation can reveal solutions to longstanding problems or new problems	
t establishe eative; it set	and pursue		worth tackling	
ll art establishes in us all th creative; it sets up group	and pursue		worth tacking	
ation artestablishe creative; it set	and pursue	change logic	1004. art giv es us entirely new logics by which to link one thought to	012345678910
Creation artestablishe creative; it set	and pursue	change logic		012345678910
Spawn Creation artestablishes in us all the conditions for creative; it sets up group and individual c	and pursue	change logic	1004. art giv es us entirely new logics by which to link one thought to	012345678910

	Create	make interior and	1005. art can stop the habits and priorities of our daily lives and give us new	012345678910
	Creation	exterior room	physical and emotional space in which imagination can grow toward full	
	Capability		creativity; art can set us free of enough to unleash forces of creation in us	
	art gives us step	mental travel and find	1006. art can transport us mentally and expose paradox far and wide to us till	012345678910
		paradox	we re-see the world and discover how to create it anew or populate it with	0.12343070510
creativity	by step the	paradox		
l É	wherewithal to		creations we invent	
l ä	create our	create creation machine	1007. art can expose us to precisely the creation dynamics or devices we	012345678910
=	selves; it	and use it to create	have avoided or omitted, thereby pushing us over the edge from self doubt	
1 5	inspires the		and hesitancy to bold atempts and brazen innovations	
individual	mental room for	conquer emergent	1008. we design and plan good things but often there emerges something	012345678910
				012343076710
and	imagining and	failures, manage	better than we planned, which we miss if we love or attend to our plans too	
	changing all else	emergent insights	well; art helps us see and value emergent results	
m	Improve	choosing and	1009. art can reveal audiences to us, possible audiences, and particular	012345678910
20	Quality	understanding your	dynamics in such audiences; by doing so it can give us the idea of how to	
=	art raises the	audiences	create what those audiences would value or admire	
ets	question of the	mastering changing	1010. art can reveal new substrates for doing old functions and new funtions	012345678910
≘ ∷	question of the			012343076710
ಚಿ ⊆ಿ.	quality of all we	technologies of supply	to do with old and new substrates; by doing so, art invites use to radically	
i arti	see and do, and	and production	renew what we do and how we do it, turning everything we attempt into	
5 E	inspires us to		creation	
\Box	improve quite	improving production	1011. art can reveal new ways of work that no one has tried yet or pioneer	012345678910
∎ ∰	generally the	process	lives of people doing things entirely new ways; seeing this can cause us to	
3 6	quality of all	F		
Spawn Creation or becoming creative; it	quality of all		greatly improve how we work or spur us to attempt better deeds due to new	
Spawn Creation for becoming creative; it sets up group	about us		means of getting things done	
ls f		inducing higher quality	1012. art can enlarge your view of what your audience can aspire to and	012345678910
19.		requirements in your	attempt; it can inspire you to lead your audience beyond what presently	
ŧ		customer-audience	satisfies it; it can inspire you to improve what your audience requires	
in us all the conditions	Beyond All	dimensions of difference	1013. art can show the sequence of innovations in a field so we notice the	012345678910
je j	Deyond All		•	012343078910
Ξ	art invites us to	analysis	abstract ways ne items got envisioned and done; by extrapolating or	
E S	go continually		interpolating along those seen dimensions or inventing new ones of our own,	
=	beyond all we		we become creative contributors to those fields	
s.	have seen and	historic levels of	1014. art can show the abstract principles by which all techniques in the past	012345678910
establishes	done before; it	improvement in	were improved; by interpolating and extrapolating along them or inventing	0.1112.1311 1113.10117.110117.110
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sta	invites extreme	technique	new such dimensions we can become creators ourselves	
	trespass and	historic levels of	1015. art can review for us the history of how people have seen or expressed	012345678910
art	extrapolation;l	perception/expression of	parts of experience or the world; by viewing this we can imagine better	
	it shows limits	emotion/feeling	percepts or expressions of our own that make us creative contributors	
	to overcome	cognitive fault lines	1016. art can reveal to us he fault lines in idea territories along which major	012345678910
	to over come			012343078710
		found and tripped into	idea quakes may occur; art shows us tipping points where small inputs have	
		societal tipping points	huge outcomes	
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			64 Dynamics of Creation Power	
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	death	STUBBORN REALITY	1017. Mind as Repeated Labor; repeated blocking or failure; drawing five	012345678910
	sentence		1017. Mind as Repeated Labor; repeated blocking or failure; drawing five jacks	
	sentence Limitless	STUBBORN REALITY FAILURE OF ENTIRE	1017. Mind as Repeated Labor; repeated blocking or failure; drawing five jacks 1018. Inevitability of Despair; exhaustion of all you do and know; quicksand,	0.1.2.3.4.5.6.7.8.9.10
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	sentence Limitless	FAILURE OF ENTIRE	1017. Mind as Repeated Labor; repeated blocking or failure; drawing five jacks 1018. Inevitability of Despair; exhaustion of all you do and know; quicksand, every move sinks me deeper	
	sentence Limitless Inadequacy	FAILURE OF ENTIRE SELF	1017. Mind as Repeated Labor; repeated blocking or failure; drawing five jacks 1018. Inevitability of Despair; exhaustion of all you do and know; quicksand, every move sinks me deeper 1019. Letting Go of Self and World; something fundamental in who you are	012345678910
	sentence Limitless Inadequacy	FAILURE OF ENTIRE SELF I AM MY ENEMY	1017. Mind as Repeated Labor; repeated blocking or failure; drawing five jacks 1018. Inevitability of Despair; exhaustion of all you do and know; quicksand, every move sinks me deeper 1019. Letting Go of Self and World; something fundamental in who you are or what the world is, is at fault; house of mirrors	012345678910
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Discoveri	sentence Limitless Inadequacy DESPAIR last straw Absurd Turning Point HOMELESS act of rebellion Inventing Your Self THE BREAK entry to no man's land	FAILURE OF ENTIRE SELF I AM MY ENEMY THIS LIFE IS OVER AT LIMIT OF TOLERANCE; BEYOND TOLERANCE; COLLAPSE OF THE OLD SELF; COMMIT TO UNKNOWN; HAVING SHEER EXISTENCE DEFINING MYSELF WANTING CHALLENGE WANTING VICTORY NECESSITHY FOR ME UNSEEABLE	1017. Mind as Repeated Labor; repeated blocking or failure; drawing five jacks 1018. Inevitability of Despair; exhaustion of all you do and know; quicksand, every move sinks me deeper 1019. Letting Go of Self and World; something fundamental in who you are or what the world is, is at fault; house of mirrors 1020. Letting Go of All Provisos and Excuses; utter despair at continuing, having a life, as at present; caught in the headlights 1021. Forced to Change; saturation; end of the road 1022. Forced to Radical Totalizing Change; super saturation; not even close, miss by a mile 1023. Anihilation of All Partial Responses; tipping point releases systemwide avalanches in me; the butterfly flaps one wing 1024. Nothingness Embraced as Better; absolute end of road of existing system and you; Alice alls through the rabbit hole into another world 1025. Standing Against; the act of courage of saying "no"; choosingmy destiny, so this is my battleground 1026. Forcing Response, burned bridges, a bulls eye on my forehead 1027. Forcing Death of Old Ways; refused compromises and threats; the rat rejects its cheese 1028. Meeting the Onslaught; start of war of liberation; they just don't get the point 1029. Practically Impractical; utter loneliness; the road never before taken 1030. The Optimism of Hopelessness; hopeless odds; the outrageous is my	01.2345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910
Discoveri	last straw Absurd Turning Point HOMELESS act of rebellion Inventing Your Self THE BREAK entry to no man's land Impossible	FAILURE OF ENTIRE SELF I AM MY ENEMY THIS LIFE IS OVER AT LIMIT OF TOLERANCE; BEYOND TOLERANCE; COLLAPSE OF THE OLD SELF; COMMIT TO UNKNOWN; HAVING SHEER EXISTENCE DEFINING MYSELF WANTING CHALLENGE WANTING VICTORY NECESSITHY FOR ME UNSEEABLE VICTORY	1017. Mind as Repeated Labor; repeated blocking or failure; drawing five jacks 1018. Inevitability of Despair; exhaustion of all you do and know; quicksand, every move sinks me deeper 1019. Letting Go of Self and World; something fundamental in who you are or what the world is, is at fault; house of mirrors 1020. Letting Go of All Provisos and Excuses; utter despair at continuing, having a life, as at present; caught in the headlights 1021. Forced to Change; saturation; end of the road 1022. Forced to Radical Totalizing Change; super saturation; not even close, miss by a mile 1023. Anihilation of All Partial Responses; tipping point releases system-wide avalanches in me; the butterfly flaps one wing 1024. Nothingness Embraced as Better; absolute end of road of existing system and you; Alice alls through the rabbit hole into another world 1025. Standing Against; the act of courage of saying "no"; choosingmy destiny, so this is my battleground 1026. Forcing Response, burned bridges, a bulls eye on my forehead 1027. Forcing Death of Old Ways; refused compromises and threats; the rat rejects its cheese 1028. Meeting the Onslaught; start of war of liberation; they just don't get the point 1029. Practically Impractical; utter loneliness; the road never before taken 1030. The Optimism of Hopelessness; hopeless odds; the outrageous is my normaley	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
Discoveri	last straw Absurd Turning Point HOMELESS act of rebellion Inventing Your Self THE BREAK entry to no man's land Impossible Task	FAILURE OF ENTIRE SELF I AM MY ENEMY THIS LIFE IS OVER AT LIMIT OF TOLERANCE; BEYOND TOLERANCE; COLLAPSE OF THE OLD SELF; COMMIT TO UNKNOWN; HAVING SHEER EXISTENCE DEFINING MYSELF WANTING CHALLENGE WANTING VICTORY NECESSITHY FOR ME UNSEEABLE	1017. Mind as Repeated Labor; repeated blocking or failure; drawing five jacks 1018. Inevitability of Despair; exhaustion of all you do and know; quicksand, every move sinks me deeper 1019. Letting Go of Self and World; something fundamental in who you are or what the world is, is at fault; house of mirrors 1020. Letting Go of All Provisos and Excuses; utter despair at continuing, having a life, as at present; caught in the headlights 1021. Forced to Change; saturation; end of the road 1022. Forced to Radical Totalizing Change; super saturation; not even close, miss by a mile 1023. Anihilation of All Partial Responses; tipping point releases system-wide avalanches in me; the butterfly flaps one wing 1024. Nothingness Embraced as Better; absolute end of road of existing system and you; Alice alls through the rabbit hole into another world 1025. Standing Against; the act of courage of saying "no"; choosingmy destiny, so this is my battleground 1026. Forcing Response, burned bridges, a bulls eye on my forehead 1027. Forcing Death of Old Ways; refused compromises and threats; the rat rejects its cheese 1028. Meeting the Onslaught; start of war of liberation; they just don't get the point 1029. Practically Impractical; utter loneliness; the road never before taken 1030. The Optimism of Hopelessness; hopeless odds; the outrageous is my normalcy	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
Discoveri	last straw Absurd Turning Point HOMELESS act of rebellion Inventing Your Self THE BREAK entry to no man's land Impossible	FAILURE OF ENTIRE SELF I AM MY ENEMY THIS LIFE IS OVER AT LIMIT OF TOLERANCE; BEYOND TOLERANCE; COLLAPSE OF THE OLD SELF; COMMIT TO UNKNOWN; HAVING SHEER EXISTENCE DEFINING MYSELF WANTING CHALLENGE WANTING VICTORY NECESSITHY FOR ME UNSEEABLE VICTORY	1017. Mind as Repeated Labor; repeated blocking or failure; drawing five jacks 1018. Inevitability of Despair; exhaustion of all you do and know; quicksand, every move sinks me deeper 1019. Letting Go of Self and World; something fundamental in who you are or what the world is, is at fault; house of mirrors 1020. Letting Go of All Provisos and Excuses; utter despair at continuing, having a life, as at present; caught in the headlights 1021. Forced to Change; saturation; end of the road 1022. Forced to Radical Totalizing Change; super saturation; not even close, miss by a mile 1023. Anihilation of All Partial Responses; tipping point releases system-wide avalanches in me; the butterfly flaps one wing 1024. Nothingness Embraced as Better; absolute end of road of existing system and you; Alice alls through the rabbit hole into another world 1025. Standing Against; the act of courage of saying "no"; choosingmy destiny, so this is my battleground 1026. Forcing Response, burned bridges, a bulls eye on my forehead 1027. Forcing Death of Old Ways; refused compromises and threats; the rat rejects its cheese 1028. Meeting the Onslaught; start of war of liberation; they just don't get the point 1029. Practically Impractical; utter loneliness; the road never before taken 1030. The Optimism of Hopelessness; hopeless odds; the outrageous is my normalcy 1031. Confirmationlessness; the whole world is my enemy; with friends like you who needs enemies	01.23.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910
Discoveri	last straw Absurd Turning Point HOMELESS act of rebellion Inventing Your Self THE BREAK entry to no man's land Impossible Task	FAILURE OF ENTIRE SELF I AM MY ENEMY THIS LIFE IS OVER AT LIMIT OF TOLERANCE; BEYOND TOLERANCE; COLLAPSE OF THE OLD SELF; COMMIT TO UNKNOWN; HAVING SHEER EXISTENCE DEFINING MYSELF WANTING CHALLENGE WANTING VICTORY NECESSITHY FOR ME UNSEEABLE VICTORY	1017. Mind as Repeated Labor; repeated blocking or failure; drawing five jacks 1018. Inevitability of Despair; exhaustion of all you do and know; quicksand, every move sinks me deeper 1019. Letting Go of Self and World; something fundamental in who you are or what the world is, is at fault; house of mirrors 1020. Letting Go of All Provisos and Excuses; utter despair at continuing, having a life, as at present; caught in the headlights 1021. Forced to Change; saturation; end of the road 1022. Forced to Radical Totalizing Change; super saturation; not even close, miss by a mile 1023. Anihilation of All Partial Responses; tipping point releases system-wide avalanches in me; the butterfly flaps one wing 1024. Nothingness Embraced as Better; absolute end of road of existing system and you; Alice alls through the rabbit hole into another world 1025. Standing Against; the act of courage of saying "no"; choosingmy destiny, so this is my battleground 1026. Forcing Response, burned bridges, a bulls eye on my forehead 1027. Forcing Death of Old Ways; refused compromises and threats; the rat rejects its cheese 1028. Meeting the Onslaught; start of war of liberation; they just don't get the point 1029. Practically Impractical; utter loneliness; the road never before taken 1030. The Optimism of Hopelessness; hopeless odds; the outrageous is my normalcy	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
Discoveri	last straw Absurd Turning Point HOMELESS act of rebellion Inventing Your Self THE BREAK entry to no man's land Impossible Task UNCER-	FAILURE OF ENTIRE SELF I AM MY ENEMY THIS LIFE IS OVER AT LIMIT OF TOLERANCE; BEYOND TOLERANCE; COLLAPSE OF THE OLD SELF; COMMIT TO UNKNOWN; HAVING SHEER EXISTENCE DEFINING MYSELF WANTING CHALLENGE WANTING VICTORY NECESSITHY FOR ME UNSEEABLE VICTORY FIGHTING ALL	1017. Mind as Repeated Labor; repeated blocking or failure; drawing five jacks 1018. Inevitability of Despair; exhaustion of all you do and know; quicksand, every move sinks me deeper 1019. Letting Go of Self and World; something fundamental in who you are or what the world is, is at fault; house of mirrors 1020. Letting Go of All Provisos and Excuses; utter despair at continuing, having a life, as at present; caught in the headlights 1021. Forced to Change; saturation; end of the road 1022. Forced to Radical Totalizing Change; super saturation; not even close, miss by a mile 1023. Anihilation of All Partial Responses; tipping point releases system-wide avalanches in me; the butterfly flaps one wing 1024. Nothingness Embraced as Better; absolute end of road of existing system and you; Alice alls through the rabbit hole into another world 1025. Standing Against; the act of courage of saying "no"; choosingmy destiny, so this is my battleground 1026. Forcing Response, burned bridges, a bulls eye on my forehead 1027. Forcing Death of Old Ways; refused compromises and threats; the rat rejects its cheese 1028. Meeting the Onslaught; start of war of liberation; they just don't get the point 1029. Practically Impractical; utter loneliness; the road never before taken 1030. The Optimism of Hopelessness; hopeless odds; the outrageous is my normalcy 1031. Confirmationlessness; the whole world is my enemy; with friends like you who needs enemies	01.23.45678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910

	1		T	
	emergence of	TOUGH	1033. Saved by Dire Threat; fighting for survival together; eleven fingers in	012345678910
	colleagues	TOGETHERNESS	the dike	
	Wealth of the	VISION BEYOND	1034. Unencumbered Actions; imagining alternative worlds and institutions	012345678910
	Not Yet	TOUGHNESS AND	together; living fantasy	
	SURVIVAL	THE PAST		
	COMMUNITY	BEYOND EXCUSES	1035. Rethinking All; refusal of past inside selves in own operatons; reflective garbage disposal	012345678910
		POSESSING ONLY	1036. Living in Visions; making and keeping promises to each others;	012345678910
		HONOR	building houses with words	
	emergence of	LIVING SHEER	1037. Unencumbered Actions; novel intents and means attempted; bricolage	012345678910
	novelty	EXPERIMENT		
	From Trying	SURVIVING	1038. Handling Essentials with Innovations; focus from survival struggles; a	012345678910
8	to Trying	EXPERIMENTALLY	boat made of balloons	
SNE	MICRO INSTI- TUTION	SURPRISED BY NOVELTY	1039. Insights as Doors Not Contents; emergence of solutions better than imagined or planned ones; my ideas are birth leavings of the real ideas	012345678910
_ Š	DEVELOP-	SEPARATING	1040. Perceiving Emergents; struggle to see and preserve what emerges; in	012345678910
Obeying Freedom Surprise Natality CONSCIOUSNESS	MENT	NOVELTY FROM CHAFF	this haystack there is a needle somewhere I believe	0.11.2.0.1 1.10.10.17 1.0.17 1.10
15 S	emegence of	CAPTIVATED BY	1041. Investing All Self, Time, Past; labor to create really new vision and	012345678910
g I	power from	POSSIBILITY OF	realize it; sweating inventions	
ğ İİ.	nothing	NEW NOVELTY		
ey	The Promise	FASHIONING THE	1042. Projecting New Designs; one new niche deserves/requires another;	012345678910
J.	Land	NEW NOVELTY	forced into more innovation than planned; this innovation has a hole there	
	PROMISE	ECOLOGICALLY	requiring that innovation; fashioning and plugging holes in being	
vin,	POWER	ENACTING THE	1043. Launch Initiatives Handle Consequences; risk-filled action to realize	012345678910
Spawing		NEW NOVELTY	novelty; pulling bottom cards form a house of cards	
~		SURPRISED BY	1044. Power from Honor; emergence of new power beyond planned or	012345678910
		POWER	envisioned powers; the story retelling game done with inventionsour process	
			is better than our intended result so let's institutionalize that	
	emergence of	ESCAPE FROM	1045. Settling for Unsettledness; abandonment of personal lifestyle goals; a	012345678910
	public forms	LIFESTYLES	cityscape made of tightropes	
	of happiness	RELEASED FROM	1046. Happily Unhappy; immolation of daily happinesses; work as one long	012345678910
	Completely	PRIVATE	party; my old self and life and happinesses were but hobbies, these new ones	
	Expended	HAPPINESS	are real	
	Life "flow"	THESE BEGINNINGS	1047. Victory Realized; realization that colleague interactions already are	012345678910
	PIONEER	ARE ENDINGS	your new envirioned world; the hut is really a castle	0.1.0.2.4.5.6.7.0.6.10
	HAPPINESS	SURPRISED BY	1048. Beyond All Dreams; sudden emergence of a new public form of	012345678910
		HAPPINESS	happiness; if I were to live for a 1000 years; I am doing daily what others	
	drama "see	AGAINST ALL ODDS	only dream about or read about in books 1049. David versus Goliath; the unfair fight; root for the underdog	012345678910
	what is happen-	RADICAL	1050. All Responses Inventions; the unimagined tactics; unheard of acts	012345678910
	ing here"	IMPROVISATION	applied at unheard of places	012343078910
	Whistle	SURPRISED BY	1051. Resistance Becomes Conquest; the miracle of victories; the slammed	012345678910
	Points Found	VICTORY	door becomes archway into a new world	
	GLOBAL	ENTIRE OLD WAY	1052. Loyality Switchby Bystander Masses; hints of entire systems	012345678910
	VISIBILITY	UNDERMINED	crumbling; one pillar pulled and the entire ediface tumbles	
	representative	I AM THIS FUTURE	1053. Transformational Identity; new personal, group, mankind identities	012345678910
	-ness "show		discovered; continually remaking "I" not inheriting it	
	the way"	I LIBERATE	1054. Globalization of Local Acts; possibility for everyone now changed by	012345678910
S	The Most	EVERYONE	what we do here and now; changing the definition of humanness	0.1.0.2.4.5.6.7.0.0.10
rical Dreams	Individual Becomes the	I LEAD THE WORLD	1055. Global last Straw Generation; unity of mankind experienced in shared vision of new future; eyes lighting up with hope worldwide	012345678910
] § ≅	Most Social	I AM THE WAY	1056. Instructionless Instructing; my life becomes teaching; the garbageman	012345678910
E D	GLOBAL	THE WAT	professor	0
rical Dre	POSSIBILITY		F	
ıra	haven "send me	POSSIBILITY FOR	1057. Demonstrating Possibility; exported hope; people everywhere seeing	012345678910
Sto Pr	your huddled	OTHERS	possibility where before there was none	
Hity	masses"	INVITING ALL	1058. Novelty's Generosity; limitless sympathy; seeing all those others	012345678910
Global and Histo	Replication	OTHERS	trapped in their selves and lives	
a	Your Selves	NEW RECRUITS	1059. Training the World; immigration; volunteer army	012345678910
2a	A WORLD OF	MY STORY	1060. Inspiring Emulation; replicated liberation and freedom; baby	012345678910
lol (LIBERATIONS	COPIOUSLY COPIED	revolutions spawned everywhere	
175		POWERLESS PAST	1061. Status from Transformation Contribution; beyond the past; beyond past	012345678910
	audience of	DAH V.TOT:	status hierarchies; new monkeys, new bananas	0.1.0.2.4.5.6.7.0.0.10
			1062. Pioneering Normalcy; completely relevant daily lives; my privacy	012345678910
	the unborn	DAILY TOTAL		
	the unborn and ancestors"	RELEVANCE	published 1063 Emergent Divinity: living archetynes: alympion destiny; the purpose	012245670010
	the unborn and ancestors" Humanity's	RELEVANCE AVATAR	1063. Emergent Divinity; living archetypes; olympion destiny; the purpose	012345678910
	the unborn and ancestors" Humanity's Drama	RELEVANCE	1063. Emergent Divinity; living archetypes; olympion destiny; the purpose of my life was this all along though I was probably never going to discover it	012345678910
	the unborn and ancestors" Humanity's Drama HISTORICIZA-	RELEVANCE AVATAR EXISTENCE	1063. Emergent Divinity; living archetypes; olympion destiny; the purpose of my life was this all along though I was probably never going to discover it in my old way of living	
	the unborn and ancestors" Humanity's Drama HISTORICIZA- TION OF PER-	RELEVANCE AVATAR EXISTENCE WRITING HISTORY	1063. Emergent Divinity; living archetypes; olympion destiny; the purpose of my life was this all along though I was probably never going to discover it in my old way of living 1064. I Write History; writing history ourselves, writing with deeds not	012345678910
	the unborn and ancestors" Humanity's Drama HISTORICIZA-	RELEVANCE AVATAR EXISTENCE WRITING HISTORY WITH DEEDS,	1063. Emergent Divinity; living archetypes; olympion destiny; the purpose of my life was this all along though I was probably never going to discover it in my old way of living	
	the unborn and ancestors" Humanity's Drama HISTORICIZA- TION OF PER-	RELEVANCE AVATAR EXISTENCE WRITING HISTORY	1063. Emergent Divinity; living archetypes; olympion destiny; the purpose of my life was this all along though I was probably never going to discover it in my old way of living 1064. I Write History; writing history ourselves, writing with deeds not	

	measuring	INSTITUTIONAL	1065. Ecosystems Disrupted; the new encounters all institutinal	012345678910
	fragility of	MISFIT	arrangements; the old church beside the cell phone store	
	the new	RELATIONSHIPS	1066. Emotions Disrupted; the new counters all personal habits; powers that	012345678910
	Baby Care	MISFIT	be besides themselves	
	RISKS OF	COOPERATION	1067. Agreement Disrupted; the new is not well defined enough to be	012345678910
	BIRTH	MISFIT	consensed on; suddenly people must stay awake during meetings	
		UNFATHOMED	1068. Novelty as Door Not Content; the new as it first appears may only be	012345678910
			the tip of an iceberg of further novelty; pull the string and a new sun appears	
	countering	COUNTER	1069. Breaking Inter-Organization Dependencies; the past assimilate the new	012345678910
	eroding	INSTITUTIONAL	institutionally; old things are easy to do	
	powers of the	ASSIMILATION		
	past	COUNTER PERSONAL	1070. Breaking Inter-Personal Dependencies; the past assimilates the new	012345678910
	Distinguish-	PROCESS ASSIMILATION	procedurally; old things are automatic	
	ing	COUNTER INTERPRETIVE	1071. Breaking Misinterpretations; the past assimilates the new into plural	012345678910
C.	ASSIMILA-	ASSIMILATION	diverse past frameworks of interpretation; "oh we used to that all the time"	012343070710
e ₹	TION	COUNTER OFFENSE	1072. Breaking Mindlessness; the passage of time causes forgetting of "last	012345678910
<u>∃</u>	THREATS	FORGETTING	straw" violations, the arrogance of past systems now overthrown, the harm	012343076710
E E	THREATS	PORGETTING	they did gets forgotten; "what was I revolting about"	
Defending the Future erving Novelty Immortality PEA	acting to	MONITOR EROSIONS	1073. Erosion Watches; set up monitoring of specific erosion types; keeping	012345678910
日日	_	MONTOR EROSIONS		012343078910
2 2	protect the new	GOLDWED ED OGLOVA	watch on the sneaky past	0 1 2 2 4 5 6 7 0 0 10
Hir vel	from the old	COUNTER EROSIONS	1074. Erosions Blocked; counter particular erosion actions; blocking and	012345678910
Ĭ	Socializing		tackling the past	
efe	Transfor-	INSTITUTIONALIZ-	1075. New orthodoxy Establishment; institutionalizing entinual monitoring	012345678910
ě Ď	mation	ING COUNTERING	and countering of erosion forces; ossification vaccines	
Defending the Future Conserving Novetry Immortality PEACE	NEW PARA-	MONITORING INSTI-	1076. Inviting Liberation from Your Just Created Novelty; monitoring of	012345678910
3	DIGM ESTAB-	TUTIONALIZING	effectiveness of institutionalizing of continual monitoring and countering;	
	LISHED		self criticism of self ossifications	
	acting to	SEEING WITH NEW	1077. Persuing Other Possible Liberations; seeing the entire past differently	012345678910
	revise the old	EYES	from new viewpoints; poking society lookking for soft spots	
	in light of the	ANALOGOUS	1078. Surveying Possible Liberations; finding analogous parts of the past	012345678910
	new	LIBERATIONS	needing analogous liberations; investigating each possible such liberation	
	Back to Zero		spot; detecting revolution	
	OLD	SPOTTING	1079. Self Editing of Strained Analogies; overweening analogous wanted	012345678910
	PARADIGM	OVERWEENING	changed found and debunked; editing own ideas, finding borders of validity	
	REPLACED		of own recently installed innovations, subtracting enthusiams out to see	
			novelties naked for what they are, good and bad mixed	
		SEEKING	1080. Normalization of New Liberation Seeking; institutionalizing continual	012345678910
				0.11.2.03.10.17.1.0.17.110
		ANALOGOUS LIBERATIONS	search for further similar revisions of past; liquefying society; from solid to	0.1.1.2.1011.1.10117.1.0117.1.10
		ANALOGOUS LIBERATIONS	search for further similar revisions of past; liquefying society; from solid to gas, from gas to plasma	
	D	ANALOGOUS LIBERATIONS 128 Ways to	search for further similar revisions of past; liquefying society; from solid to gas, from gas to plasma Create from the Information Design TRIZ Model of Creativit	y
	Resource	ANALOGOUS LIBERATIONS 128 Ways to focus on steps, space,	search for further similar revisions of past; liquefying society; from solid to gas, from gas to plasma Create from the Information Design TRIZ Model of Creativit 1081. reduce resources needed for steps, reduce space needed, reduce time,	
	Resource	ANALOGOUS LIBERATIONS 128 Ways to focus on steps, space, time, value add	search for further similar revisions of past; liquefying society; from solid to gas, from gas to plasma Create from the Information Design TRIZ Model of Creativit 1081. reduce resources needed for steps, reduce space needed, reduce time, increase value added via making all steps add value that final users/customers see	y 01.2345678910
	Resource	ANALOGOUS LIBERATIONS 128 Ways to focus on steps, space, time, value add redirect wastes from	search for further similar revisions of past; liquefying society; from solid to gas, from gas to plasma Create from the Information Design TRIZ Model of Creativit 1081. reduce resources needed for steps, reduce space needed, reduce time, increase value added via making all steps add value that final users/customers see 1082. direct wastes from own process to outside; deflect wastes from outside	y
	Resource	ANALOGOUS LIBERATIONS 128 Ways to focus on steps, space, time, value add	search for further similar revisions of past; liquefying society; from solid to gas, from gas to plasma Create from the Information Design TRIZ Model of Creativit 1081. reduce resources needed for steps, reduce space needed, reduce time, increase value added via making all steps add value that final users/customers see 1082. direct wastes from own process to outside; deflect wastes from outside coming in; or use outside wastes coming in a new resources by setting up	y 01.2345678910
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Acquisition	Space	ANALOGOUS LIBERATIONS 128 Ways to focus on steps, space, time, value add redirect wastes from own/other process share/split resources with other subsystems convert other properties and resources into resources compactify segregate space by value use wasted surface, 3 D spaces use spaces within other spaces use spaces intermittantly parallelize eventize sequences and processes eliminate waits, permisssions, checks aggregate components off-line do core not periphery focus step, space, time, value adds reuse own or adjacent waste energies	search for further similar revisions of past; liquefying society; from solid to gas, from gas to plasma Create from the Information Design TRIZ Model of Creativit 1081. reduce resources needed for steps, reduce space needed, reduce time, increase value added via making all steps add value that final users/customers see 1082. direct wastes from own process to outside; deflect wastes from outside coming in; or use outside wastes coming in a new resources by setting up means of converting them 1083. share resources with other subsystems, split resources with other subsystems, alternate use of resources with other subsystems 1084. convert properties of system into resources; convert one type of resource into another type 1085. specialize spaces, making filled ones more filled, empty ones more empty, till new uses for them appear 1086. use surfaces that are now unused, use 3rd dimensions "go vertical"; bunk bed, bunk desks 1087. fractally specialize spaces, using spaces within other spaces on different size scales 1088. have several functions that are made intermittant or digital share the same space, taking turns using it 1089. take sequential steps and get as many of them as possible done simultaneously; take processes and get as many as possible done together in one mass workshop event 1090. distribute authority and information and checking so as to eliminate waits, permissions, and checks 1091. distinguish live on line components from off line supports and specialize spaces, one for on line parts and others for off line suppors 1092. continually kill off peripheral functions and processes so core ones can be better attended to, resourced, and optimally use available time and resource 1093. focus energy on steps, propoer spaces, good timing, and adding value final user receives 1094. convert own or nearby waste energy into use energy	y 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910 012345678910

	Frame	state in non-domain	1097. state problems using language of general discourse, avoiding specialist	012345678910
	Problem	language	terms and vocabulary, to confirm real meaning is there and to freshen	
			contexts beyond hackneyed over-used professional ones	
		fractal space, time,	1098. represent the interactions among size scales (fractality) of space, time,	012345678910
		environment representation	and environments of operation/use	0 1 2 2 4 5 6 5 0 0 1
		constraint release	1099. fantasize about what things could be done or would be like of	012345678910
		fantasies: change ways,	particular constraints could be overcome or ignored, then change ways things	
		levels matrix	are done, make levels matrix of things possible without constraints to trade-	
			off among subsystems till you can "pay" for ways to overcome those	
		. 11 . 11 . 1	constraints	01224567901
		contradictions, ideal	1100. articulate contradictions (what contradicts what exactly), articulate ideal solutions (how they differ exactly from suboptimal solutions), articulate your	012345678910
		solutions, self as	self as environment (what exactly from subopulniar solutions), articulate your self as environment (what exactly are your routines and assumptions embedded	
		environment, way evolution	in use/design processes), articulate how ways (of you or device parts) evolve	
	Resolve	optimize subsystem A	1101. resolve how optimizing subsystem A harms subsystem Btrade-offs	01234567891
	Contradictions	harms B	among subsystem performances	01234307691
	Contradictions	constraints requiring	1102. resolve constraints that require impossible combinations of functions	01234567891
		contradictory functions	1102. Tesorve constraints that require impossione combinations of functions	01234307671
		free energy as unwanted	1103. resolve free energy in a design that wanders around causing trouble	01234567891
		feature	when optimized by design work out of particular parts of the design	01234307071
		voice conflict:	1104. articulate and quantify precisely conflicts among voice of customer,	01234567891
		customer, suppliers,	voice of suppliers, voice of process, and voice of CEO as intersecting in a	01234307071
20		process, CEO	process or design, inventing technology to convert zero-sum conflicts into	
Ĕ.		J	win-win ones	
Solving	Solution	analogize/exapt;	1105. take parts of the environment, user, or device design invented and used	01234567891
Š	Approaches	idealize/adapt	for one purpose and use them for other purposes in entirely different contexts	
			of use from other parts of the design	
		decompose/intergrate;	1106. split unified things, integrate split things, simplify complex interacting	01234567891
		simplify/pluralize	things, and distribute unitary things to interacting populations of things	
		reverse;focus;	1107. reverse means, reverse ends, reverse focus (make environment core,	01234567891
		distribute;self organize	make core environment), distribute concentrated or located functions,	
			substitute self organization for imposed designed organization	
		continuous/discoutinuous;	1108. switch analog to digital, switch digital to analog; switch flexible to	01234567891
		flex/fix	fixed, switch fixed to flexible	
	Tools	effects of effects matrix	1109. make matrix of all parts of a design plus all operations on those parts	01234567891
			by environment of use or users (as rows and same items as columns) putting	
			in intersections effects of all parts/operations on all other parts/operations,	
			then spot intense interdepency areas for redesign using or eliminating those	
			dependencies	
		fractal subsystem separations,	1110. model subsystem interactions fractallythat is, interactions on three or	01234567891
		interactions models	more size scales, among components	
		standard solving	1111. keep list of standard solving approaches, standard contradictions to	01234567891
		contradiction resolving	resolve, and standard design heuristics making such all are examined for each	
		heuristics	component designed	
		embedded agents	1112. empower components with own information plus rules of responding	01234567891
		visualization	to information, particularly, rules allowing visual display and responding to	
			info from other "agent" parts-recognize states parts or sets/configurations of	
	Combinatani	should some of the state of the	parts are in and adjust behaviors of other subsystems appropriately	01224567001
	Combinatorial	shared supports: by several	1113. each high level function having not its own personal supports but	01234567891
	Efficiency	high level functions	general supports that also support some other high level functions	01224567001
		high level fuctions not	1114. prefer high level functions that do not require outside supports over ones that do require them	01234567891
		needing supports core function plurified	1115. enable core functions to do other functions by clever inexpensive add-	01234567891
		by tweaking add-ons		01234307891
		by tweaking add-ons	ons that redirect or otherwise modify its forces, directions of applications, or effects	
		plural functions		01234567891
_		combined in one	1116. simplify interactions among subsystems by making one interface that allows plural functions to be accessed, modified, or used rather than separate	0123430707
<u> </u>		interface	interfaces for each function	
ቜ	Boundary	technology removal:	1117. review entire design to eliminate technologies, reduce complexities, for	01234567891
Technique Evolution	Innovations	properties replace	example, replacing sensors with physical holes, replacing chains of force	0123430707
3	11110 · tations	subsystems	transmission with single invented links	
ĭ		boundary/interface	1118. standardize interfaces and boundary interaction paths across all design	01234567891
Ę		standards	subsystems and parts so as many things as possible can be combined and can	0.11.12.10.11.11.01.71.01.71.01.71.1
룕			interact without redesign work or design tweaking	
ĕ		part population	1119. get functions not done by parts specially designed for each but instead	01234567891
_		combined into function	done by more generally capable populations of elements each doing very	0.11.2.0
		population	simple generic functions well that are combined to do more elaborate	
		r-panation	functions: hence, a population of function modules combines to do millions	
			of functions, using reconfiguring of the same elements, instead of new	
			elements for each complex new function	
		self sense, repair,	1120. add data and sensation to key subsystems and parts so they repair and	01234567891
	l .	_	tune performance and develop themselves rather than having to be fixed by	
		develop tune		

	Self	mobile+continuous-	1121. make subsystems self configuring: make parts mobile, make parts	012345678910
	Configuring	dimensionality+	continuously variable, make parts capable of composition into second or third	
			dimensions	
		self evolving	1122. make subsystems with configurations of elements that self organize to	012345678910
		configurations and	do particular functions, rather than having fixed configurations for limited	
		functions	function repertoires	
		increase voids	1123. review all design aspects to eliminate specified traits and functions that	012345678910
			are not essential, so all things can vary along dimensions not having to be	
Ē			fixedthese "design voids" allow parts and subsystems to be tuned and	
ij			configured to do new behaviors automatically by adding info to the design or	
Technique Evolution			as easy reconfiguration redesigns at later dates	
۶		self monitor, adapt,	1124. add information and sensation to design elements so they monitor	012345678910
e E		reconfigure	themselves, adapt, and reconfigure as user and environment conditions	
Ē.	C 16		require	0.1.2.2.4.5.6.7.0.0.16
Ē	Self	symbiotic parasitic	1125. use ecosystem models to make parts that work symbiotically on others	012345678910
ਓ	Simplifying	systems	or parasitically on others	012345678910
E-		complementary system	1126. spot the generic types of functions each subsystem does and generalize	012343078910
-		nets	and make flexible the amounts and types of such behaviors each is capable of	
			so subsystems can do complementary functions, each compensating for limitations or weaknesses of others	
		hi		012345678910
		hierarchy of systems	1127. generalize functioning capabilities across size scales for all generic	012343078910
			functions can components that can inform, monitor, and do them at all size	
			scales across the design, not just one intended size scale	01224567901
		convolving:	1128. allow systems of interacting subsystems to identify highly focussed	012345678910
		dimensionality shrinkage	repeated behavior sets needing only tiny subsets of configurations and parts	
	Nanda Canda		possible, so the device self optimizes to automate doing such behaviors	01224567901
	Needs-Seeds	see intrinsic use of new	1129. distinguish intrinsic core (usually abstract) functions possible of a new	012345678910
	Combines	phenomenon	phenom from first seen functions as it intrudes into your habits and	
			consciousness for the first time	012345678910
		see use for useless	1130. find all wastes and useless actions and results of all parts of a design	0123430/8910
		phenomenon	and imagine uses for them 1131. find the overarching purpose and function in which a part is now	012345678910
		see use for phenomenon	imagined and used in a design and find other purposes, functions, designs in	012343078910
		with other use (exapt,	which it could be used (exaptedly as bricolage)	
		bricolage) match need without	1132. keep catalog of needs without current means that a new invention or	012345678910
			approach might someday be able to satisfy and review all invented solutions	012343078910
		means to phenomenon	against that list to see if any of them meet any of those needs; index all your	
			inventions and solutions regularly	
	Update	device features replace	1133. invent devices or features of device parts that replace efforts or	012345678910
	Means/Ends	users effort	attention needed by usersdo not let users choose or decide things that users	012343070710
			do not need to choose or decidemore freedom is not always better for users	
		compress related	1134. take separate, diverse, but related functions now done by separate	012345678910
S		functions into 1 device	inventions, parts, or devices and get them done by one more generic design	
bě			capable of being adjusted, tuned, or tweaked while in operation	
乤		existing function means	1135. automate updating of how functions are done as new technical means	012345678910
Inventioin Types		updated as means evolve	get invented and come on market	0.11.2.0.10.10.17.10.17.11
:₫		exapt functions for new	1136. as new technical means come along, be sure to examine each of them,	012345678910
u		functions as means	in contexts other than those contexts they present themselves in, to see if	
š		evolve	functions different than they purport to do, can be gotten from them by using	
크			them in unusual contexts	
	Domain	optimize/reconfigure	1137. make sets of components capable of simplifying, speeding up, and	012345678910
	Trades	components for subset of	automating their interactions when repeated use patterns reach certain	
	Within/	functions	thresholds	
	Without	extremize trade-offs	1138. redesign configuration components so that when trade-offs among	012345678910
		between	them become extreme (one or another use pattern dominates) redisual	
			component interdependencies drop away, allowing one configuration subset	
		components/subsystems		
		components/subsystems for new uses	to take over all functioning, reducing wear and quality variation caused by	
		1 ' '		
		1 ' '	to take over all functioning, reducing wear and quality variation caused by	012345678910
		for new uses	to take over all functioning, reducing wear and quality variation caused by interacting with other components	012345678910
		for new uses other domain ways	to take over all functioning, reducing wear and quality variation caused by interacting with other components 1139. consider function analogs in entiirely different domains or part analogs	012345678910
		for new uses other domain ways	to take over all functioning, reducing wear and quality variation caused by interacting with other components 1139. consider function analogs in entiirely different domains or part analogs in other domains, to see if they suggest ways to improve performance (for	012345678910
		for new uses other domain ways	to take over all functioning, reducing wear and quality variation caused by interacting with other components 1139. consider function analogs in entiirely different domains or part analogs in other domains, to see if they suggest ways to improve performance (for example, Southwest Airlines is to shipping people as What is to shipping	
		other domain ways improve performance	to take over all functioning, reducing wear and quality variation caused by interacting with other components 1139. consider function analogs in entiirely different domains or part analogs in other domains, to see if they suggest ways to improve performance (for example, Southwest Airlines is to shipping people as What is to shipping Federal Express or UPS packages?)	01.2.3.4.5.6.7.8.9.10
		for new uses other domain ways improve performance turn unused	to take over all functioning, reducing wear and quality variation caused by interacting with other components 1139. consider function analogs in entiirely different domains or part analogs in other domains, to see if they suggest ways to improve performance (for example, Southwest Airlines is to shipping people as What is to shipping Federal Express or UPS packages?) 1140. find properties of parts or subsystems or functions/side-effects of them	

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	Use System Effects	other parts, past acts = environment of 1 part/act	1141. all other parts, all other functions-going-on-while-using, are the environment of any one part or function in a devicedo such environments help or hinder, specialize or generalize behavior in wanted ways?	012345678910
Inventioin Types		use, means, function, environment evolutions matching	1142. as uses evolve of a thing, as functions it supports or is composed of evolve, as the environments it fits or is used in evolve, as the environments all its other parts/functions are of any one of its parts/functions evolvedo these things interact positively or negatively as they evolve?	012345678910
Inventio		component grammars evolved	1143. turn specialized components into smaller, cheaper, more general populations of components that get configurated by a kind of "grammar" into sentences that do particular functionsmany more functions than the initial more specialized complicated forms of them were capable of	0.12345678910
		higher order side-effects made main	1144. ferret out all side-effects produced by attaining any main effect and seek out ways to usefully use them or eliminate them entirely	012345678910
	Flex by Decompose	decompose, modularize, mass fragmentation	1145. decompose unitary things, modularize hosts of varied things, change fragmentation scale from several things into masses or populations of things	012345678910
		replace fixed big with reconfigurable small; fixed with temporary	1146. replace fixed big things with reconfigurable collections of smaller things, replaced fixed things with temporarily fixed reconfigurable things	012345678910
		adjustable setting , flexible form, self organizing replaces complex design	1147. replace complexly design things with reconfigurable self adjusting self organizing simple collections of things	012345678910
		all parts diverse + optimal environment for other parts	1148. optimize all parts to make them as diverse from each other as possible, then optimize them again to make them an optimal environment for the intended functions of each other (Taguchi technique = optimize along linear functions of values not point performance values, so tunable to each other)	0.1.2.3.4.5.6.7.8.9.10
	Plurify	recycle: wastes to uses/products, dynamics to functions; use to self repair	1149. recycle wastes to get them used or sold as products; recycle dynamics or motions to get them to perform functions; recycle uses and wear to get them repair their own side-effects	012345678910
		concentrate/disperse/alternate and mix/unmix for effects	1150. concentrate scattered things, disperse concentrated things, alternate continuously done things, mix distinct things, unmix blended things	012345678910
		use frequency differences, do other functions in intervals, get use from down cycles	1151. use differences in frequency of occurence, use intervals between one function to do other functions, use down time or slack to do other functions	012345678910
		replace sole object with populations interacting	1152. replace one object doing a function with populations of simpler things interacting to do that function, while also interacting to do thousands of other functions	012345678910
Simplify	Focus	separate core/periphery function/waste function variety/means variety, force/direction/timing	1153. separate core and periphery in physical or abstract functional terms; separate function intended and waste functioning, separate function variety and means of doing function variety; separate force from direction and timing of applying that force	0.1.2.3.4.5.6.7.8.9.10
		replace counter/avoid; material/field; field/event; environment	1154. replace countering a force with avoiding it; replace material with a force field doing something; replace a field with an event doing something, replace environments imposing control with devices self controlling themselves	0.1.2.3.4.5.6.7.8.9.10
		control/self control replace motion/position, objects/particles: in fields	1155. replace motions with positions in a field, replade objects with particle configurations in a field	012345678910
		platforms: redirect/combine for functions if interact same material/parts	1156. replace parts optimized for particular functions with platforms having components that combine for functions	012345678910
	Facsimiles	use facsimile/model, trial, not actual	1157. do tests and trials on facsimiles or models not actual products if possible	012345678910
		focus model on core; optimize signal/noise ratio	1158. focus models on core functions and ideal energy flows; optimize not performance alone but ratio of performance against variations actually found in the environment-of-use of a device	012345678910
		more+removal, less+add repalces accuracy; temporary part to help produce/use	1159. removing some from more or adding onto less replaces accurate fixed performance in a design; replace permanent part with temporary part	012345678910
		use/user designs models/products	1160. get users to design parts of products rather than trying to expensively get designers to master what is inside user heads: designers invent devices enabling users to design themselves rather than designers invent devices to do what they "guess" users want	0.1.2345678910
	Counter	pre-position counter forces/properties to production/use	1161. pre-position things for where and how they will be used rather than delaying use by positioning when they are needed	012345678910
ıre		turn use actions or parts into properties	1162. turn actions of using something or parts used into properties of use to end-users	012345678910
Reconfigure		insulate/optimize subsystems for unreliable subsystems/users/uses/	1163. insulate or optimize subsystems so they enable other nearby subsystems to attain their needed performance values rather than hinder it (optimize performance around line values not point performance values so performs one so that they do had so they subsystems received their scale.)	0.1.2.3.4.5.6.7.8.9.10
×		environments optimize away free energy in designs	performances can be tuned to help other subsystems reach their goals) 1164. optimize away free energy in a design rather than optimizing away what bothers customers/users (if you do not do this, you end up optimizing away the same free energy appearing in different places as you optimize it away from previous places- chasing the free energy all over the design rather than getting rid of it altogether)	012345678910

	Reverse and	invert acts: cool not heat	1165. invert actionscool to loosen rather than heat, slow need for something	012345678910
	Inverse	to loosen; slow need not	rather than speeding use of something	
		speed use		
		invert locales: move	1166. invert what gets moved or used: move tool not the part, move user not	012345678910
		tool not part, user not	the product	
		product		
		fix motions and move	1167. fix motions and move fixed things; put outsides inside and put insides	012345678910
		ficities; put outsides	outside	
		inside and vice versa	1160	0.1.2.2.4.5.6.7.0.0.10
		reorient: easy big move	1168. reorient: easy big move replaces hard small accurate moves	012345678910
	Challa Dalla	replaces hard accurate move	1160	0 1 2 2 4 5 6 7 8 0 10
I e	Shells, Balls,	replace unnecessary linearity;	1169. replace unnecessary linearityreplace sequences with surrounds	012345678910
ng.	Holes	surround replaces sequence	1170. support/insulate/position using inflatables, buoyance, lifts rather than	0 1 2 2 4 5 6 7 8 0 10
Reconfigure		support/insulate/position with inflatables, buoyanc, lifts	fixed mechanics	012345678910
၂ ဥ		add fractal holes, spaces,	1171. add holes fractally on all size scales and use those spaces for other	012345678910
№		intervales + use them for	functions	012343078310
		other fucntions	Tunetons	
		reuse fallow functions	1172. reuse temporarily non-engaged functions for preparatory actions for	012345678910
		for preparatory acts	other functions	0.11.2.03.1 11.0.17.1.0.17.110
	Symmetry	create or increase	1173. create symmetry or increase use of it; create assymmetry or increase	012345678910
1		asymmetry	use of it	
		make asymmetric	1174. make asymmetric functions symmetric pairs for new functioning	012345678910
		functions symmetric	, <u>.</u>	
		pairs for new functions		
		take slight imbalances to	1175. take slight imbalances to extremes for new functions	012345678910
		extremes for new functions		
		try uses for opposite functions	1176. try to find uses for opposite functions	012345678910
	Fix	separate/join in	1177. separate or join in space, separate of join in time, do things done now	012345678910
	Contradictions	space/time;	in intervals simultaneously instead; do things now done simultaneously in	
		simul/interval use of	intervals instead; do system and do its oppositefind uses for anti-system, or	
		system+anti-sys	the system with parameters in the least useful settings or least used settings	
		different levels use	1178. use the system on one level and the anti-system on another; change	012345678910
		system/anti-sys; change	scales the system operates at; change the scales the anti-system operates at	
		scale higher/lower	4450	
		escape/meet via phase	1179. escape a function via phase changing; meet/attain a function via phase	012345678910
		change; tunable phase;	changing; make phase tunable by environment or by something inside the	
		use dual phases	system; use dual phases in sequence, in paralle, alternating	012345678910
		turn use, waste, wear reaction into information	1180. turn use, waste, or wear reactions into information	012343078910
	Make/Break	directional/bidirectional/	1181. evolve directional use to bidirectional use to broadcasted use to	012345678910
	Links	broadcast/narrowcast/	narrowcasted use to sampling use	012345070710
		sampling	manoweasted use to sampling use	
		delay/select/modify;	1182. delay, select, modify, combine, or time function uses	012345678910
		time/combine	, , , , , , , , , , , , , , , , , , ,	
		use/affect/set node	1183. use, affect, or set different potentials or states for a node in a network	012345678910
		different potentials or states	-	
Redirect		+/-/dual feedbacks,	1184. find the same use for both positive and negative feedback; find distinct	012345678910
ļ.		reflexive: past actgs	uses for positive and negative feedback; use past actions as current	
\ \&		now environment	environment, avoid letting past actions become current environment	
-	Exaptations	use uses/users: use eats	1185. use users or device uses; example: use eats package, user eats	012345678910
		package, use repairs, use	package, using device repairs it; use senses: color, smell, sounds	
		senses: color, smell, sounds	1100	0.1.0.0.1.5.5.5.5.5.5
		use intermediaries: expand	1186. use intermediaries: expand functions, blunt functions, redirect harms	012345678910
		function/blunt/redirect harm	into other uses	0.1.2.2.4.5.6.7.0.0.10
		induce/reduce/counter/	1187. exploit feedbacks beyond context that generates them: induce, reduce,	012345678910
		redirect/match feedback redirect/convert/reflex	counter, redirect, or match feedbacks 1188. redirect harmful forces; convert harmful forces into something useful,	012345678910
		harmful forces	reflect harmful forces to counter other harmful forces	01234070710
	Motion	smooth, periodic, resonant,	1189. smooth functioning, make functioning periodic, make functions	012345678910
		pulsed, blast motions	resonate, pulse functioning, make functions blast, make motions blast	012373070310
		exapt user/use/environment	1190. use the user, use particular use functions, use environment reactions as	012345678910
		motions	motions	
		use frequency, amplitude,	1191. use properties of motions: use frequency, use amplitude, use direction,	012345678910
		direction, medium,	use medium, use inertia	
		inertia of motions		
		fuse in space/time:	1192. fuse motions in space, fuse in time, link reactions, separate reactions,	012345678910
		linke/move reactives; net	move readtions; link interactions, network interactions	
	I .	interactions		
		meractions		

	I			
	Recursions	spatial: nested spaces	1193. create and use nested spaces	012345678910
		temporal: fractal	1194. create and use nested procedures or apply procedures on fractally	012345678910
		sequences	nested size scales or time scales	
		functional: fractal	1195. create or use fractal functioning: the same functioning applied on	012345678910
		functions	different size scales	
		use: use results of own use	1196. use results of own use	012345678910
	Dimensions	+/-/move D; +/- moves	1197. use dimension positively, use dimension negatively, move the	012345678910
		per D	dimension itself; move within dimension	
		add 3D layers/uses	1198. expand dimensionality of use, action, information; from one	012345678910
			dimension to two, from two to three, from three to four via information or	
			feedback in time	
		use entire shape of	1199. use entire shape of objects and paths of motion; use interruptions and	012345678910
•		objects, paths of motions;	waits; use return and move motions	
Ę		use interruptions/waits/		
င္သ		returns/moves		
ij		bound motions into	1200. bind motions to turn them into objects having functioning; bound	012345678910
0		objects/functions	motions to turn them into objects having functioning	0.11.2.0
Change Scope or Scale	Combinations	replace: solid/liq, liq/gas,	1201. replace solid with liquid, liquid with gas, gas with plasma, plasma with	012345678910
ĕ	Combinations	gas/plasma;	solid, solid with gas, liquid with plams, etc.	012343070710
ده		support/buoyancy,	sond, sond with gas, riquid with plants, etc.	
ng G				
펺		pressure/vacuum; solid/foam	1202 di	0 1 2 2 4 5 6 7 8 0 10
ວ		disperse/concentrate;	1202. disperse concentrated things; concentrate scattered things; make rigid	012345678910
		regidify/flex	flexible things; make flexible rigid things	0 1 2 2 1 5 6 7 0 0 10
		heat/cool; move/fix;	1203. combine heat with cool; moving with fixing, roughen with smoothing	012345678910
		roughen/smooth	etc.	
		digital/analog;	1204. combine digial with analog, computed with looked up, etc.	012345678910
		computed/looked up		
	Criticality	detect critical points	1205. detect system critical points and system super-saturation	012345678910
		detect emergent critical	1206. detect emergent patterns at system critical points	012345678910
		point patterns		
		use critical point effect	1207. use critical point effects and emergents to drive system to edge of	012345678910
		emergents, edge of	chaos or to system wide avalanches at tipping points	
		chaos, avalanches		
		be last straw, whistle	1208. be the last straw, the whistle point, that tips the system toward entirely	012345678910
		point	different trajectories in phase space	
		Point	arreferit trajectories in phase space	
		1.^		
	effect	SYS	TEM EFFECTS, ONE: Attention Distraction Effects	0 1 2 3 4 5 6 7 8 9 10
	effect	SYS unplanned second order	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of	012345678910
	effect omission	SYS unplanned second order effects	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons	
		SYS unplanned second order	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession	0.1.2.3.4.5.6.7.8.9.10
		SYS unplanned second order effects ownerless problems	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle	012345678910
		SYS unplanned second order effects ownerless problems emergents from	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of	012345678910
		SYS unplanned second order effects ownerless problems emergents from interactions	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives	012345678910
		SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success	012345678910
	omission	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away	01.23.45678910 0123.45678910 012345678910
	omission	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing	01.23.45678910 0123.45678910 012345678910
	omission	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
	omission	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
	omission	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal	01.23.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910
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lind	omission	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent staff combines	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
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ne Blind	omission	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent staff combines counter intent launch manner counters	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent	01.23.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910
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Time Blind	counter effect	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent staff combines counter intent launch manner counters intent	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
Time Blind	counter effect	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent staff combines counter intent launch manner counters intent self-reinforcing growth self limits	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent	01.23.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910
Time Blind	counter effect	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent launch manner counters intent launch manner counters intent self-reinforcing growth self limits moderate solution bad so	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
Time Blind	counter effect	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent launch manner counters intent launch manner counters intent self-reinforcing growth self-limits moderate solution bad so miss good larger one	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent 1217. an act can have result that cause more such results continually till negative feedback self limit process grows big and reverses 1218. when initial small solution tries fail badly, people give up and miss fact that much larger such tries would work well	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
Time Blind	counter effect	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent staff combines counter intent launch manner counters intent self-reinforcing growth self limits moderate solution bad so miss good larger one side-effects of result worse	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent 1217. an act can have result that cause more such results continually till negative feedback self limit process grows big and reverses 1218. when initial small solution tries fail badly, people give up and miss fact that much larger such tries would work well 1219. the side-effects may be much worse than the benefits of getting the	01.23.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910 0123.45678910
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Time Blind	counter effect	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent launch manner counters intent launch manner counters intent self-reinforcing growth self limits moderate solution bad so miss good larger one side-effects of result worse than benefits of result result done is not	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent 1217. an act can have result that cause more such results continually till negative feedback self limit process grows big and reverses 1218. when initial small solution tries fail badly, people give up and miss fact that much larger such tries would work well 1219. the side-effects may be much worse than the benefits of getting the intended main effects 1220. some intended results when actually attained and experienced do not	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
Time Blind	counter effect result surprise	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent staff combines counter intent launch manner counters intent self-reinforcing growth self limits moderate solution bad so miss good larger one side-effects of result worse than benefits of result result done is not satisfying/wanted similar input very	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent 1217. an act can have result that cause more such results continually till negative feedback self limit process grows big and reverses 1218. when initial small solution tries fail badly, people give up and miss fact that much larger such tries would work well 1219. the side-effects may be much worse than the benefits of getting the intended main effects 1220. some intended results when actually attained and experienced do not satisfy	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
Time Blind	counter effect result surprise	sys unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent staff combines counter intent launch manner counters intent self-reinforcing growth self limits moderate solution bad so miss good larger one side-effects of result worse than benefits of result result done is not satisfying/wanted similar input very different outputs	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent 1217. an act can have result that cause more such results continually till negative feedback self limit process grows big and reverses 1218. when initial small solution tries fail badly, people give up and miss fact that much larger such tries would work well 1219. the side-effects may be much worse than the benefits of getting the intended main effects 1220. some intended results when actually attained and experienced do not satisfy 1221. similar inputs, even extremely similar ones, can produce extremely different output types in any non-linear system	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
Time Blind	counter effect result surprise	SYS unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent staff combines counter intent launch manner counters intent launch manner counters intent self-reinforcing growth self-limits moderate solution bad so miss good larger one side-effects of result worse than benefits of result result done is not satisfying/wanted similar input very different outputs usual input whole system	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent 1217. an act can have result that cause more such results continually till negative feedback self limit process grows big and reverses 1218. when initial small solution tries fail badly, people give up and miss fact that much larger such tries would work well 1219. the side-effects may be much worse than the benefits of getting the intended main effects 1220. some intended results when actually attained and experienced do not satisfy 1221. similar inputs, even extremely similar ones, can produce extremely different output types in any non-linear system 1222. an input just like usual ones done many times already can yet produce	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
Time Blind	counter effect result surprise	sys unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent launch manner counters intent launch manner counters intent self-reinforcing growth self-limits moderate solution bad so miss good larger one side-effects of result worse than benefits of result result done is not satisfying/wanted similar input very different outputs usual input whole system changes	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent 1217. an act can have result that cause more such results continually till negative feedback self limit process grows big and reverses 1218. when initial small solution tries fail badly, people give up and miss fact that much larger such tries would work well 1219. the side-effects may be much worse than the benefits of getting the intended main effects 1220. some intended results when actually attained and experienced do not satisfy 1221. similar inputs, even extremely similar ones, can produce extremely different output types in any non-linear system 1222. an input just like usual ones done many times already can yet produce entirely different never seen before results	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
Time Blind	counter effect result surprise	sys unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent launch manner counters intent self-reinforcing growth self limits moderate solution bad so miss good larger one side-effects of result worse than benefits of result result done is not satisfying/wanted similar input very different outputs usual input whole system changes fast good results then	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent 1217. an act can have result that cause more such results continually till negative feedback self limit process grows big and reverses 1218. when initial small solution tries fail badly, people give up and miss fact that much larger such tries would work well 1219. the side-effects may be much worse than the benefits of getting the intended main effects 1220. some intended results when actually attained and experienced do not satisfy 1221. similar inputs, even extremely similar ones, can produce extremely different output types in any non-linear system 1222. an input just like usual ones done many times already can yet produce entirely different never seen before results	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
Time Blind	counter effect result surprise	sys unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent staff combines counter intent launch manner counters intent self-reinforcing growth self limits moderate solution bad so miss good larger one side-effects of result worse than benefits of result result done is not satisfying/wanted similar input very different outputs usual input whole system changes fast good results then huge bad ones	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent 1217. an act can have result that cause more such results continually till negative feedback self limit process grows big and reverses 1218. when initial small solution tries fail badly, people give up and miss fact that much larger such tries would work well 1219. the side-effects may be much worse than the benefits of getting the intended main effects 1220. some intended results when actually attained and experienced do not satisfy 1221. similar inputs, even extremely similar ones, can produce extremely different output types in any non-linear system 1222. an input just like usual ones done many times already can yet produce entirely different never seen before results 1223. early or easy initial results can be good lulling people till huge bad ones suddenly emerge from unseen negative feedback force	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910
Time Blind	counter effect result surprise	sys unplanned second order effects ownerless problems emergents from interactions partial solution lowers standards side-effects counteract main one act combines counter intent launch manner counters intent self-reinforcing growth self limits moderate solution bad so miss good larger one side-effects of result worse than benefits of result result done is not satisfying/wanted similar input very different outputs usual input whole system changes fast good results then	TEM EFFECTS, ONE: Attention Distraction Effects 1209. people plan and intend wanted outcomes not envisioning responses of myriad involved system elements/forces/persons 1210. problems without obvious owner, beyond simple profession boundaries often too unfocused for any one group to handle 1211. totally unplanned outcomes often emerge from the myriad parts of systems interacting as a result of 1 or several moves/initiatives 1212. partial successes often change people's ambitions or criteria of success lower, so accept transient solution that go away 1213. many side-effects directly counter the main intended effect, undoing it, or distracting from it via huge costs worse than want 1214. the actions done to reach a goal though individually toward goal combine to counter the goal 1215. the people working to reach goal though individually helping reach it combine to prevent it happening 1216. the manner a solution is launched with counters overall intent 1217. an act can have result that cause more such results continually till negative feedback self limit process grows big and reverses 1218. when initial small solution tries fail badly, people give up and miss fact that much larger such tries would work well 1219. the side-effects may be much worse than the benefits of getting the intended main effects 1220. some intended results when actually attained and experienced do not satisfy 1221. similar inputs, even extremely similar ones, can produce extremely different output types in any non-linear system 1222. an input just like usual ones done many times already can yet produce entirely different never seen before results	01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910 01.23.45678910

	cause allocation	cause at problem locale only is attacked	1225. people can completely handle causes acting near where problem appears and thereby miss many other bigger causes acting in far flung other parts of the system	012345678910
		cause of other causes not attacked	1226. many causes can be handled well but since what causes them is left untouched problem reappears continually, especially when one cause after another is handled	012345678910
		system caused variation "solved" w/o system changes	1227. when design or configuration of the system causes some problem, solutions that miss it will allow the problem to reappear	012345678910
		big environment caused failure blamed on weak/1 component	1228. environment or whole system design caused failure gets blamed on one component or weak one, letting problem reappear	012345678910
	environment	other part as envt undoes	1229. functions of one system part can be undone or blocked or made	012345678910
	allocation	1 part fn lack of leeway in other	harmful by functions of other parts acting as environment of it 1230. each part doing its own function very well can cause overall failure	012345678910
		parts stifles 1 part's function	because they do not have leeway helping each other do their individual functions well	
Space Blind		environment changes during solving	1231. the solving process can take enough time that the environment around it changes so as to undo its effects	012345678910
ace]		solution so particular to 1 environment cannot be used	1232. a solution can be so particular to 1 environment that it cannot be used or its effects are transient as the environment evolves	012345678910
Sp_i	support allocation	credit & rewards not to those who solved	1233. systems can reward people who did not actually solve so in the future	012345678910
	unocation	outside help used till own capability atrophies	they do not solve things 1234. outside help can assist you so long and well that your ability to live without it atrophies causing disaster when it is no longer available	012345678910
		great solution for situation too weak to last	1235. great solutions can be too weak to last and keep problems at bay	012345678910
		great solution gets enemies cuz of who supports it	1236. great solution can assemble and motivate scattered ones who dislike it or who does it or fame from the doing of it	012345678910
	order allocation	enough chaos: local act effect goes unnoticed	1237. enough chaos can prevail that good effects go unnoticed and unappreciated	012345678910
	anocation	enough order: local act	1238. tight interconnections in a system can make for such stasis that	012345678910
		cannot affect system sequence of solving	nothing can change enough to constitute solution of problems 1239. the particular sequence of acts in a solution process can create user	012345678910
		exacerbate user dissatisfactn solution delivery	dissatisfaction that overwhelms their overall result 1240. how a solution is delivered can undo any of its benefits	012345678910
	others'	configuration harms overfishing	1241. people getting less than needed can try harder, getting even less, so	012345678910
	response	rich get richer	trying harder till no common resource is left 1242. those with slight initial resource advantages can be so favored with	012345678910
		price war	results that their advantages grow hugely 1243. several parties can undermine their competitors' prices, till everyone	012345678910
			together goes broke	
		envy isolate	1244. successes can produce such envy caused isolation that benefits are unusable	012345678910
	customer response	when get what want, dislike it	1245. people can find negatives of losing goal to achieve outweigh attaining concrete goals	012345678910
		when live with result, hate it	1246. people can find that experienced result dissatisfies them	012345678910
-		solving process raises expectations so hate result	1247. solving process can raise expectations to than any likely result dissatisfies	012345678910
Reaction Blind		representative of customer's spec are wrong	1248. how we represent what the customer requires can distort or miss actual customer requirements or miss customer changes	012345678910
tion	response to	producers become/supplant customers	1249. the requirements of producers can supplant needs of customers in projects so customer hate the result	012345678910
Seac	production	during production	1250. while producing something enough time elapses that components or	012345678910
_		parts/requirements change parts hijacked during	overall requirements change 1251. parts during a project get noticed by others and taken for other	012345678910
		production way something produced	purposes 1252. the way something is done can undermine the purpose behind it	012345678910
	response	factors from unincluded	1253. professions omitted from an effort usually have been omitted because	012345678910
	to professionals	profession, kill profession not customers	they have vital but unpopular knowledge needed by it 1254. producers of a project or designers of it may supplant requirements of	012345678910
		make requirements inter-profession	customer of it with their own requirements 1255. the plural diverse professions required by a project may be unable to	012345678910
		disagreement on basics solution more complex	agree on even the most basic aspects of it 1256. solutions may dwarf in complexity the problems they are to solve	012345678910
		than problem		

	attitudes	fatalist and hermit	1257. the world cannot be trusted, withdraw and minimize harmthis	012345678910
		1:4:	attitude makes the world horrid so withdrawal is needed 1258. the world is dangerous and untrustable, we have only each other, so	012345678910
		egalitarian	stick together above allthis drives merit away	012343078910
		individualist	1259. small errors and big errors have mild consequences, the world is	012345678910
			trustable so anything goesthis eventually produce disasters	
		hierarchist	1260. parts of the world are very dangerous, parts okay, must know	012345678910
			boundariesthis eventually produces dated distinctions	
	scales	components too big	1261. the scale of problem/causal elements differs from the scale of solution	012345678910
		components too small	elements 1262. the scale of problem/causal elements differs from the scale of solution	012345678910
		components too sman	elements	012343070710
		overkill solutions or cut	1263. the scale of problem/causal elements differs from the scale of solution	012345678910
		vital stuff as waste	elements	
		overly incremental	1264. solution too incremental may allow drastic changes of situation during	012345678910
<u> </u>	flexibility	solutions	long implementation periods	012345678910
E	Hexibility	solution perfect for present situation only	1265. solutions may be so specialized around current situation that slight changes of environment vitiate them	012343078910
Scale Blind		parts config lost in	1266. inter-relations needed among solution components may be lost during	012345678910
Sc		responding so problems	the chaos of implementation so problems reappear	
		reappear		
		new parts added rather	1267. situations tend to get solved by adding things rather than replacing	012345678910
		than reconfigure old ones culture of designers	present things so complexity builds and dissipates efforts 1268. the culture of designers/solvers may be so much narrower than that of	012345678910
		narrower than culture of	customers of a system that requirements of customers get missed or distorted	01240/0910
		customers	terribly making outcomes unfit	
	diversity	social ranks block	1269. social status and merit rankings can be boundaries across which	012345678910
		feedback flows	feedbacks do not flow so leaders miss results of their own acts	
		firms or department	1270. functional departments of sets of firms may block the flow of feedback so leaders miss results of their own acts	012345678910
		functions block feedback flows	reedback so leaders miss results of their own acts	
		single solver pushed to	1271. solvers acting alone may be driven to extreme heroic level efforts that,	012345678910
		heroics because alone	lacking subtlety and patience, ruin solutions	
		committee forced	1272. committees doing solutions may force forms of diversity on a project	012345678910
		unneeded diversity	that disintegrate it and make it unwieldy	
			EFFECTS, TWO: Ineffective Organization System Handling	
	attempt	long cycle times allow	1273. long cycle times for doing things allow time for many errors to	012345678910
	home runs	time for many errors	accumulate	
		giant greenfield initiatives	12/4 totally new goals and means in a project fail to link to already built iin	0 1 2 3 4 5 6 7 8 9 10
		giant greenfield initiatives that don't build on past	1274. totally new goals and means in a project fail to link to already built up and tested capabilities, making achievements unstable	012345678910
		-		012345678910
		that don't build on past career system rewards distinguishing self from	and tested capabilities, making achievements unstable 1275. career systems can end up rewarding flashy launches of new initiatives not patient solid doing of hard long things, so rewards can reduce building on	
		that don't build on past career system rewards distinguishing self from others not building on	and tested capabilities, making achievements unstable 1275. career systems can end up rewarding flashy launches of new initiatives	
		that don't build on past career system rewards distinguishing self from others not building on their work	and tested capabilities, making achievements unstable 1275. career systems can end up rewarding flashy launches of new initiatives not patient solid doing of hard long things, so rewards can reduce building on work of others or cooperating	012345678910
		that don't build on past career system rewards distinguishing self from others not building on their work aggressive specs that	and tested capabilities, making achievements unstable 1275. career systems can end up rewarding flashy launches of new initiatives not patient solid doing of hard long things, so rewards can reduce building on work of others or cooperating 1276. leaders can force extreme specs utterly unconnected with actual	
	unknown	that don't build on past career system rewards distinguishing self from others not building on their work	and tested capabilities, making achievements unstable 1275. career systems can end up rewarding flashy launches of new initiatives not patient solid doing of hard long things, so rewards can reduce building on work of others or cooperating 1276. leaders can force extreme specs utterly unconnected with actual people and process capabilities 1277. long cycle times in a project give time for outside environment,	012345678910
	unknown requirement	that don't build on past career system rewards distinguishing self from others not building on their work aggressive specs that ignore real capabilities long cycle times allow many outside market	and tested capabilities, making achievements unstable 1275. career systems can end up rewarding flashy launches of new initiatives not patient solid doing of hard long things, so rewards can reduce building on work of others or cooperating 1276. leaders can force extreme specs utterly unconnected with actual people and process capabilities	012345678910
		that don't build on past career system rewards distinguishing self from others not building on their work aggressive specs that ignore real capabilities long cycle times allow many outside market changes	and tested capabilities, making achievements unstable 1275. career systems can end up rewarding flashy launches of new initiatives not patient solid doing of hard long things, so rewards can reduce building on work of others or cooperating 1276. leaders can force extreme specs utterly unconnected with actual people and process capabilities 1277. long cycle times in a project give time for outside environment, customer, and market changes to undermine what is done	012345678910 012345678910 012345678910
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_	tradition	products/projects often	1285. tradition of leaders suddenly cancelling projects cause entire	012345678910
ij	of quitting	cancelled	workforces to underinvest in projects till nearly completed	
) ii		no manager action till	1286. hierarchies can cause local problems to get unresolved locally, instead	012345678910
da		problems are huge	escalating to VP level, delaying solutions	
en		resources adequate only	1287. managers can fear early resource flows, hold back resources, so errors	012345678910
Undependability		at product end	build up expensively treated at project end	0.1.2.2.4.5.6.7.9.0.10
lq		subsystem team	1288. subsystem teams may refuse trade-offs among each other, hence,	012345678910
n		arguments escalate cuz	escalate arguments to VP level, delaying solutions	
		refuse trade-offs	1280	0.1.2.2.4.5.6.7.9.0.10
	missing	team members not co-	1289. teams split geographically can result in "in" groups jerking other	012345678910
	coordination	located; global suppliers	around suddenly without context, warning, or consideration of local	
		jerked around without	conditions and capabilities	
		context	1200 hisrarchies can impose levels of parmissions which only some to delay	012345678910
		unprincipled manage- ment causes waits for	1290. hierarchies can impose levels of permissions which only serve to delay key actions through projects dangerously	012343078910
			key actions through projects dangerously	
		many sign offs	1291. the logistics of communicating and documenting a project can become	012345678910
		travel, waiting, reporting		012343078910
		are most of development work time	half or more of all work, supplanting real design	
		reviews distort actual	1292. leader reviews can be unprofessional due to remote leaders or	012345678910
		capabilities	delusional due to leader political distortions of reality	012343078910
	faked	no incentives for needed	1293. all the incentives in a project can favor errorlessly and quickly doing	012345678910
	solutions	behaviors: building	things impossible to due errorlessly and quickly without development of	012343078910
	Solutions	reliable technology	technique/technology base that is unfunded	
		leaders remote and	1294. Western leaders want social class superiority to workers hence do not	012345678910
		ignorant, do not like nuts	get hands dirty, lose sense of real capability, become totally dependent on	012343078910
		and bolts solving	politics distorted reports	
		waiting till problems	1295. leaders prefer to let problems grow so huge that they kill entire	012345678910
		huge then killing entire	projects as that spreads blame beyond one leader; smaller problems can be	012343076710
		project preferred as it	blamed on one leader so dangerous	
		spreads blame	blamed on one leader so dangerous	
		no personal, social,	1296. managers so competitive that no rational negotiated solitons are	012345678910
_		knowledge basis for	possible among them, instead only political agreements are possible making	0
[0]		inter-manager agree-	technically irrational solutions	
at		ment, so solution is	toomically material solutions	
)ai		political		
Separation	faked	managers lack the social	1297. managers may lack the social skills to work with or encourage own	012345678910
• •	relationships	skills to guide without	employees, instead, such managers are hated whenever they are around	
	remeionismps	punitiveness	others, acting punitively among them	
		managers force symptom	1298. managers unwilling to imagine or solve deep issues or political ones,	012345678910
		only solving by tacit	may force solving of only superficial aspects by intimidating people	
		intimidation	,	
		promotions not based on	1299. leaders may be recognized and promoted based on things other than	012345678910
		actual problems faced	actual problems faced and solved so incompetent contexts in higher leaders	
		and solved	judge/distort lower competent ones	
		no consensus building	1300. overall product strategies of a group may be contested and not agreed	012345678910
		process on product	on so individual projects do not add up or synergize	
		strategies	1 7 0	
	learning-	no building on success	1301. leaders to show own worth may deny worth and value built up by	012345678910
	lessness	/failure of previous	predecessor managers, ignoring previous team learnings	
		teams		
		missing project	1302. leaders may ignore reviews of completed projects to find learnings as	012345678910
		postmortems	they do not intend to apply past learning in future	
		tradition of hiding slack	1303. project aspects that cause one role to work harder than others not	012345678910
		time and no one	recognized and equalized so people hide slack and other private benefits that	
		covering for others on	compensate them for unfair work loads	
		team; no pain sharing	1	
		system		
		creativity valued over	1304. creative solutions that bring visibility may be preferred to humdrum	012345678910
		effectiveness	but cheap reliable ones that work better	
	1			1

			1205 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 2 2 4 5 6 7 9 0 10
	consultation	consulting =	1305. leaders can consult genba for genba's reactions then ignore them and	012345678910
	solving	participating	consider that a participatory system	
		roles assigned by	1306. leaders can structure all present projects just as past ones were	012345678910
		precedent not need	ignoring unique needs and opportunities of the present	
		social will not mind used	1307. getting everyone to fail together is worth as much as getting everyone	012345678910
		to solve	to succeedtogetherness considered solution	
		rotating everyone before	1308. rotating all leaders before an issue is considered adequate even if not	012345678910
		an issue	consensus or insight occurs and leaders sleep	
	social	ignore = solve	1309. ignoring a problem for generations is as good as solving it, the Charlie	012345678910
	solving		Brown strategy, ignore it till it goes away	
		admit issue = create	1310. admitting you have a problem is the same as creating the problem	012345678910
		issue	this attitude	
<u>E</u>		agreement all interpret	1311. consensing on a vaguely worded agreement that everyone interprets	012345678910
2		different is agreement	completely differently considered agreement	
g		agreement fact	1312. social fact of agreement being announced more important than	012345678910
🖹		outweighs content	whether anyone really agrees with anyone else	
m	hiding in	intolerance of slight	1313. slight differences of one group to another, one project to another,	012345678910
ä	uniformity	differences	hated and resisted, forcing all into same mold	
Person as Bureaucrat		information hiding	1314. hiding information and problems is as good as actual solvingthis	012345678910
SI			attitude	
<u>P</u>		if new, not an issue, only	1315. new issues are not really issues, only issues that have been seen before	012345678910
		old issues are issues	are treated as issues	
		copying rivals outweighs	1316. copying competitor moves is considered more important than	012345678910
	1 00	inventing solutions	inventing own solutions	0 1 2 2 4 5 6 7 9 0 10
	issue	issues are just distraction	1317. issues are considered distractions of real work of doing past routines	012345678910
	irrelevance	from real work	without thinking	0.1.2.2.4.5.6.7.9.0.10
		good managing =	1318. good leading is considered leading that avoids any issues and deals	012345678910
		issuelessness	with no issues	0 1 2 2 4 5 6 7 8 0 10
		changes in environment	1319. environment changes are all assimilated to inside of group already	012345678910
		interpreted as already	known phenomenonso nothing is ever really new, that is, nothing requires new thought or effort	
		found inside group	1320. consideration processes are so thorough and long and detailed that	012345678910
		considering whether to	they are more complicated than actually doing what is considered	012343078910
		do so thorough it = doing	1321. any social unit that might generate issues is coopted by payouts early,	012345678910
	issue	issue generators neutralized coopted early	that is, paid to not generate issues	012343078910
	buying	attitude discrepancies	1322. differences of attitude are considered issues so opponent positions are	012345678910
	buying	responded to as issues	constantly folded into own position, remove ing debate	012343078710
		long standing irrational	1323. long standing unfair or irrational situations are, because long around,	012345678910
		situation is natural = not	considered non-issue, and never improved	0.12343070710
		issue	constacted non issue, and never improved	
		pay money to all parties	1324. instead of hard choosing and thought, just pay all parties money to	012345678910
		= solving	make issues go away	
	appearance	ritual process repetition is	1325. following social rituals of consideration considered how to handle	012345678910
	is reality	work, not issue handling	issues even if solutions not invented or tried	
	•	cost of issues is lost	1326. issues considered harmful because they distract people from the	012345678910
		focus on unity of group	mystic unity of the group and society	
		social surface: establish-	1327. getting everyone to call something, anything, a solution is considered	012345678910
		ing a thing called a	a way to solve issues, regardless of whether it really works or changes	
		solution = solving	arrangements in society	
SS		super direct solutions,	1328. getting people to like bad situations is considered good solution, better	012345678910
Mindlessness		bypassing causes	than removing bad situations	
ess	faked	easy meeting tradition:	1329. meetings that just ritually endorse opinions of whoever is oldest in the	012345678910
₫	interactions	discuss = repeat elder	meeting, after consulting/ignoring everyone	
j		opinions	1000	
~		group wrongs better than	1330. wrongs perpetuated by a community are better than disrupting	012345678910
		interrupting unity with	community by eliminating such wrong at cost of lost unity	
		issue	1221 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.1.2.2.4.5.6.7.9.0.10
		trance-like "no mind"	1331. clear minds, without issues, is a goal of governing	012345678910
		state is ideal		
		consciousness	1322 action is ideally the mastery and externation reposition of all	012245670010
		mastery & automation of routines = ideal action	1332. action is ideally the mastery and automatic repetition of old established routines, not the hectic scurrying to solve issues	012345678910
	peaceful	perfecting everyday life	1333. inventing and living a perfected polished smooth everyday life	012345678910
	literalness	= greatness	personally is what society issue handling is for	525 . 50/0/10
	nterunicos	issue preventing =	1334. preventing issues is the same as garbage collecting in importance	012345678910
		garbage collecting	222 p. 2. coloning in out of the same an garouge conferring in importance	525 . -15076710
		slight disturbance of "no	1335. anytime and anywhere people get interested in issues is a real problem	012345678910
		mind" daily life state	for society and must be stopped	
		intensely investigated		
		utter meticulousness of	1336. tremendous detail and administrative power applied to trivial	012345678910
		handling trivialities	disturbances of clear mind No Mind consciousness	

	systemness		STEM EFFECTS, THREE: Policy Self Contradiction	
		power from position	1337. instead of groups and individual actors by action making power, most	012345678910
			comes from their position in systems	
		behavior from location	1338. instead of groups and individual actors by action making their	012345678910
			behavior, most comes from their position in systems	
		parts-whole differences	1339. wholes have traits not found in any of their parts	012345678910
		self conscious evolving	1340. systems whose parts think (consciously react) and evolve nearly never	012345678910
L		system	do just what is planned or intended	
	creativity of	complexity from	1341. from simple local actors interacting by simple local rules, global	012345678910
	systemness	simplicity	complexity can emerge	
		dangerous safety	1342. safety measures increase unsafe driving habits causing more injury not	012345678910
		measures	more safety	
		cannot do only 1 thing	1343. humans acting in social systems can never do only 1 thing or only	012345678910
			what is intended	0.1.2.2.4.5.6.7.0.0.10
is		systems change	1344. the system has traits different from traits of its parts, which system	012345678910
mã ⊢	relativity	element traits	traits change context of parts traits = meaning changes	012345678910
System Basics	from	tight linkage =	1345. more tightly linked systems are efficient but subject to widespread failure when small faults appear	012343678910
ste	connectedness	fault widening basic units resist change	1346. many interdependencies mean basic units resist all changes because	012345678910
S.	connecteuress	basic units resist change	relations to other units would also have to change	012343078910
		non-consensus based	1347. some system elements exist only because other elements must	012345678910
		existence	consense to eliminate them, consensus is hard	012545076710
		relations determined	1348. relations between some actors determined by relations between other	012345678910
		relations	actors, not between each other	0.11.2.03.1 11.0.1.7 11.0.1.7 11.0
-	systemness	cats cause flowers	1349. extreme indirectness of effectscats eat mice which therefore cannot	012345678910
	effects	indirectness	eat seeds, causing 1 flower type to dominate/appear	0.11.2.03.10,0
		delayed effects	1350. hard to declare any policy/intervention a success because time period	012345678910
		time fractality	of side-effects is fractal, multiple size scale	
		second best become	1351. second best conditions do not produce second best outcome in non-	012345678910
		disaster	linear systems, but often disasters	
		theoretical best = actual	1352. best in theory can be terrible in practice	012345678910
		worst		
	perceptions	context locality make	1353. context (system parts near) of actor different than act viewers so	012345678910
	as acts	meaning	intended meaning not seen meaning	
		action consistency	1354. our response to this instance seen as info about our response to future	012345678910
		message	similar instances by others in system	0.1.0.0.1.5.6.7.0.0.10
		reacting to reactions	1355. others' reaction to our actions change our preferences, acts, and self	012345678910
		waves of fashion	image, and reactions to their actions 1356. parallel micro-environments and deployed changes taken up by	012345678910
		waves of fashion	parallel micro-environments	012343078910
H	non-	similar inputs different	1357. similar inputs can have vastly different outputs	012345678910
	additivity of	outputs	1337. Shima inputs can have vastry different outputs	012343076310
	effects	diminish returns critical	1358. output decline after certain level of inputs; output appears after certain	012345678910
۱ ـ		mass	level of inputs	
Unobvious Causation		effect from other effects	1359. an effect's existence depends on presence of certain other effects/	012345678910
Sat			variables	
g		input increase reverses	1360. ex: incentive to act morally reduces moral action; increase in input	012345678910
ÜΈ		effect	increases output for a while then suddenly decreases it	
S	path	variable order change	1361. order in which variables act changes outcome produced; ex: baby	012345678910
-5	dependence	outcome	before not after marriage	
~ 등		action timing	1362. when in process plea or proposal happens determines what outcome	012345678910
Ĭ,			they produce or tend towards	
_		transient factor effects	1363. effects of a factor that ceases to exist can yet endure far beyond	012345678910
		endure	lifespan of factor that created them; ex: found firm	0.1.0.0.1.5.6.7.0.0.10
		hysteresis: path	1364. outcome may vary on how variables attained key values; ex: water	012345678910
	4 1.1	dependence	flow from open vs. closed faucet	012345678910
		failing variable may yet be OK	1365. a variable change may fail to produce an outcome not because it is wrong variable but cuz other variables needed also	0123430/8910
	the blame			012345678910
	illusion			
		gradual vs. leap to big	1366. gradual steps to some input value may not produce same output as	012343078910
		gradual vs. leap to big input	single leap to same input value	
		gradual vs. leap to big	single leap to same input value 1367. effect of one variable depends on others so blaming one variable	012345678910
		gradual vs. leap to big input	single leap to same input value	

	futility of plan &	plural OKs = disaster	1369. several slight, individually negligible, faults together can cause disastrous outcome	012345678910
	design	futile to improve 1 part	1370. even giant improvements in one factor can have no effect or bad effect on wanted outcome	012345678910
		false polarities	1371. nature versus nurture type arguments are false because they each are environment for each other; they are a system	012345678910
		evolved over designed traits	1372. evolved traits tend to be far superior to designed traits because invented relative to actual environments encountered	012345678910
	results as environments	small steps create crisis	1373. inadequate first measures can exacerbate a situation while drawing attention making it look worse,so crisis expands involvement	012345678910
<u>8</u>	of later actions	bad people illusion	1374. people bad in one team can be great in another; worth is relative to environment challenge of other personalities interacting	012345678910
Actin		"right" tactic illusion	1375. European softness proved "better" than US hardness, BUT because US hardness was context, established by deeds	012345678910
ntal		enemy focus error	1376. view I enemy policy, miss actual & possible others and relations among actual and possble others as the "1's" meaning	012345678910
onme	strategy ecosystem	effectiveness erosion	1377. professionals surprised when what works for years gradually fails BUT audience changed;ex:rank colleges but fit= worth	012345678910
Environmental Acting		reaction to others' expectations	1378. actors react to what other actors expect; ex: A thinks X hard so Y tries it and wins cuz of A's expectations	012345678910
		blinded by seeing	1379. my clarity on my motives causes me to miss that B mistakes what my motives are, so I misinterpret wat B's motives are	012345678910
		blind to origins of own strategy	1380. I use strategy X with present opponent W because my previous opponent used strategy Y, but W is not Y	0.1.2.3.4.5.6.7.8.9.10
	act to create environment	phony proposing	 1381. many proposals, threats, actions are done because we know or expect other will ignore or stop them, so not genuinely meant 1382. tactics that weaken me actually can make me stronger cuz of effects of 	012345678910
		actuals vs images tactics reacting to environment I	image I create; arm spending excess = strong image 1383. result of my actions become environment determining further actions I	
		create interaction as	1363. Tesuit of my actions become environment determining furtier actions take and results I aim for/achieve; over-react movts 1384. interaction can change aims, beliefs, capabilities of actors; conflict can	0.1.2.3.4.5.6.7.8.9.10
		environment	harden, extremize, mobilize enemies	012343078910
	trapped by environment own actions create	want what denied	1385. interactions become experiences that change our aims, so we want what is denied us more than before denial came	012345678910
		greener grass on other side illusn	1386. we imagine our self with different situation, partner but it is not same self relating thusly to different things, =not better	012345678910
		repetition is not repetition	1387. repeated inputs can produce very different outputs cuz 1st results form new environment of action; Hitler Czeck/Poland	012345678910
		blame environment I created	1388. ex: he hates me so I do it, but I provoked him to hate me, then use result to justify my initial provoking	012345678910
S	control illusion	self fulfilling prophesy	1389. I fear X, defensive build up that provokes X to fear me, justifying my initial fear	012345678910
ssne		fatal solutions	1390. plans and designs not = results; ex: oil spill clean up increases overall pollution	012345678910
System Caused Helplessness		control is less powerful	1391. total control to do incenting acts less powerful that likelihood of error, that uncertainty forces cooperation	012345678910
1 = 1		counter effects	1392. Titanic-safety = careless = danger, ban $X = X$ popular = more X ,	012345678910
nsed	intent not result;	user not giver context	1393. aid or acts given used entirely differently than planned if use context differs from what givers assumed:	012345678910
n Ca	incentive not result	incentive gaming	1394. following incentive leads to bad behaviors: increasing measures supplants service impact;	012345678910
yste		target population evolves	1395. target population of incentives change when incentives seen; ex: aid draws self supporters into dependency as easier way 3	012345678910
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		designed outcomes = inputs	1396. mandated, directly imposed, outcomes are inputs guaranteeing unforeseen bad outcomes later:WWI's peace causesWW2	012345678910
	systems as limits	with X without X illusion	1397. functional substitutes for X abound so without X cases may have X by other means not seen	012345678910
	to knowledge	do A vs. B in case illusion	1398. cannot find identical real cases so difference in results of A vs B from context or evolution differences not seen	012345678910
		power relativity	1399. real & imagined alternatives by us and opponents/peers determine power/fear so generally cannot determine	012345678910
		motive of act indeterminate	1400. X challenges Y because knows Y is strong or because does not know Y is strong—cannot tell generally	012345678910

		SYSTEM	EFFECTS, FOUR: Tools for Handling System Effects Well	
	system narcissism's	success illusion	1401. getting wanted result shifts attention elsewhere, others see so result eroded:speed fees cut speedg&police=more speedg	012345678910
	illusions	last method worked illusion	1402. last in series of negotiations worked so method there is good but only worked cuz context set by earlier methods	012345678910
		see what works several try illusion	1403. cannot make several tries cuz each try changes context	012345678910
		act in own interest fails	1404. many actions directly in own interest hurt own interest cuz others reactions; repress revolt increases revolters	012345678910
4)	misleading truth	unplanned results okay	1405. people use treatments for own purposes (in own context) so unplanned results inevitable	012345678910
rance	appearance in systems	solutions look like failures	1406. solutions applied at priority problem/crisis areas/times so often fail but still great value cuz context=extreme challenge	012345678910
Igno		variable fails/works illusion	1407. variable X fails or works in some cases means nothing cuz those cases when X used are special or extreme somehow	012345678910
Feedback Caused Ignorance		anticipate info effects of acts	1408. when actors know being watched for info on future reactions, changes how act now	0.1.2.3.4.5.6.7.8.9.10
k Ca	indicators mislead	indicator meaning indeterminate	1409. if less of those accepted come maybe cuz we are bad or cuz bad ones don't bother applying	0.1.2.3.4.5.6.7.8.9.10
dbac	in systems	single indicators cause gaming	1410. any intelligent person can distort unmeasured variables to get indicator "high" at huge or counter costs	0.1.2.3.4.5.6.7.8.9.10
Fee		non-causal indicators	1411. indicators can indicate success steps in small increments encouraging inadequate scale efforts till real causes overwhelm 1412. indicators not focussed on real causes or less distributed or numerous	0.1.2.3.4.5.6.7.8.9.10
	feedback	feedback results	distract from needed causal work 1413. positive = growth, negative = stable systems, escalation = symmetric	012345678910
	relativities		1413. positive = growin, negative = statole systems, escalation = symmetric growth, appeasement = compensatory change 1414. within individuals—feeling an emotion makes it bigger;	012345678910
		feedback topologies feedback locale/scale	1415. between levelsalignment/constraint cascades 1416. arms races show positive feedback at ind.l actor level produces	012345678910
		dependent same input plus once	negative feedback at relationship, dyad, level 1417. predator/prey cycles example; winners create envy (neg) but further	012345678910
	negative	minus later success creates failure	wins create partnering/adoption (pos) 1418. expansion creates fear become easier expansion becomes too much	012345678910
	feedback	unstable pride &	expansion till collapse 1419. pride makes more trying till overextension collapse; loss makes less	012345678910
		depression self limiting acts	investment so more depression till collapse 1420. imposed concession produces powerful negative fdbk; successful	012345678910
		info caused negative	methods get copied losing their advantage 1421. lock on door tells thieves where to steal from: success atrophies	012345678910
		feedback	collaboration skills so no help in hard times= failure: using signal causes signal to end (acting on rumor ends it)	
	neutral or lateral	changes create changes	1422. one change creates new issues becoming further changes; feedbacks between fdbk cycles evolve laterally	012345678910
ck	feedback	ideologic poles shift ground	1423. dialectic of bigoted responses automated so moves between poles are lateral shiftings of ground	012345678910
Types of Feedback		expectations inflated to zero	1424. process of implementing design can inflate expectation till they undermine outcome satisfaction forcing new initiative	012345678910
f Fe		what works undoes itself	1425. what works gets copied till org has too little diversity to handle environment change, so success self moderating	012345678910
bes (positive feedback	escalation by identity change	1426. I did bad thing, so I am bad, so I might as well do more bad things: media say bank weak so it becomes weak	012345678910
T,		escalation by public privates	1427. if I see others actualizing what I only wish, my wish become action, causing still others to act = movement	012345678910
		preparations become actuals	1428. I fear X so prepare for it and gather tools and resource for it that appear waste, so they lobby me for actualizing X	012345678910
	knowledge &	accelerating mutualism increasing returns to	1429. integration creates niches for further types of integration 1430. for knowledge products, increasing sales does not increase costs, so	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
	network economy	vaporware, success	prices drop greatly increasing sales 1431. if success is expected then product succeeds so competition to look	012345678910
	feedbacks	expectation escalation by learning costs	most likely to succeed 1432. if better alternative requires much unlearning then it is not chosen	012345678910
		lock in, rich get richer in network	1433. first not best wins (QWERTY); becoming standard raises value greatly so greater growth becoming standard	012345678910

	evolution to	reform causes revolution	1434. rulers fear small reforms will get out of hand so no reforms so	012345678910
	opposites		revolution ensues	
	via positive	reporters create news	1435. reporters ask leaders about stories they want to cover, causing remark-news	012345678910
	feedbacks	conquest evolves into	1436. first victories make second easier so later conquests are more and more	012345678910
		game	nominal till conquest overall is fluff	
		more cycles	1437. violation/news/visibility/sales/wealth;	012345678910
<u>:e</u>			greed/striving/compete/ideas/wealth; care/depend/control/helpless/care;	
II.	reduce non-	prune connections	1438. reduce non-linearity of reaction	012345678910
l a	linearity	undo customer stand-ins	 1439. monitor results of actions on larger and smaller system size scales 1440. find requirements of functions, professions, leaders etc. substituting 	0.1.2.3.4.5.6.7.8.9.10
ļ. <u>.</u>		in system	themselves for what customer require and undo	012345678910
-		self justifying effect	1441. people study second order effects only if and where consonant with	012345678910
ļĢ		study	biases and wanted results	012343070710
Undoing Non-Linearities	use emergents	steer emergents	1442. use emergent side-effects steered to attain your goal	012345678910
ĕ		tune system interactions	1443. till wanted emergents appear; connectedness, diversity, patchings parameters	012345678910
ğ		do population of	1444. do multiple contradictory strategies at once, observing side-effects &	012345678910
5		strategies at once	results, then join emergent winners	
		stop by extrema	1445. tip into chaos to stop, tip into stasis to stop, tip into cycling to stop,	012345678910
	manage side-	domino paradox	1446. small losses erode image so act boldly after small losses	012345678910
	effects	move opposite to your goals	1447. use reactions to that by others/competitors to attain your goal	012345678910
		attract by rejecting	1448. attracting by playing hard to get	012345678910
		stopping continual not 1	1449. blocked action produces work-arounds so continual new blockings are	012345678910
-	manage	time 2 acts: for goal for side-effects	needed if you wish to stop some action 1450. act dually, one to attain goal, one to handle side-effects of attaining goal	012345678910
	linkages	act in twos	1451. acts that appeal to A and that appeal to A's enemy	0122 7 20/0710
		do virtual acts for side-	1452. do actions whose only purpose is eliciting side-effects which are your	012345678910
		effects	wanted main-effects, slough main-effects	
		influence by environment	1453. influence others by creating environments they adapt to	012345678910
	form solving	component compliant	1454. design each system component to do its role while adjusting to help	012345678910
Ē	populations	roles	adjacent "environment" parts to do their roles	
l		cleavage bridging	1455. mobilize all usually ranked, separated, professioned things across	012345678910
ste			borders to envision and implement solutions	0 1 2 2 4 5 6 7 0 0 10
S		process transparency	1456. manage processes till transparent to wants of customers they serve	012345678910
<u>×</u>		pluralize units of	1457. mobilize network of diverse types of firm/org in scale with system	012345678910
Sal	handle	competition distribute probs, causes,	causation of phenomena/opportunities faced 1458. distribute throughout entire system problematic aspects, causes of local	012345678910
Get Causally Systematic	systems	solutions	problems, solutions to undo causes	012545076710
C	causation	act against cause of	1459. determine root causes generating other causes as symptoms then	012345678910
्हें 		causes	address the roots, distributed throughout system	
•		distinguish	1460. address variations in outcome from traits inherent in system's design	012345678910
1		uistinguisii		
		system/special causes	from transient happenstance circumstances	
		system/special causes evolving wants &	from transient happenstance circumstances 1461. find wants unwanted when appear, solution not satisfactory when	012345678910
	undo self contro-	system/special causes evolving wants & satisfaction	from transient happenstance circumstances 1461. find wants unwanted when appear, solution not satisfactory when experienced, design for contexts and outcomes	012345678910
	undo self contra-	system/special causes evolving wants & satisfaction undo producers become	from transient happenstance circumstances 1461. find wants unwanted when appear, solution not satisfactory when experienced, design for contexts and outcomes 1462. producers of a project tend to supplant their needs for end users of the	
64 1	dicting solutions	system/special causes evolving wants & satisfaction undo producers become customers	from transient happenstance circumstances 1461. find wants unwanted when appear, solution not satisfactory when experienced, design for contexts and outcomes 1462. producers of a project tend to supplant their needs for end users of the project's product	0.1.2.3.4.5.6.7.8.9.10
64 I	dicting solutions Dimensions of C	system/special causes evolving wants & satisfaction undo producers become customers ulture from the Cultu	from transient happenstance circumstances 1461. find wants unwanted when appear, solution not satisfactory when experienced, design for contexts and outcomes 1462. producers of a project tend to supplant their needs for end users of the project's product re Mix Model of Creativity: the Culture of Technologies, Devices, Ideas, Pers	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 ons, Professions, Practices
64 I	dicting solutions	system/special causes evolving wants & satisfaction undo producers become customers ulture from the Cultur hierarchy or egalitarian	from transient happenstance circumstances 1461. find wants unwanted when appear, solution not satisfactory when experienced, design for contexts and outcomes 1462. producers of a project tend to supplant their needs for end users of the project's product re Mix Model of Creativity: the Culture of Technologies, Devices, Ideas, Pers 1463. make or encourage status differences or equality among users	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 cons, Professions, Practices 0.1.2.3.4.5.6.7.8.9.10
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FY aars, Nisbet	dicting solutions Dimensions of C RANK GROUP	system/special causes evolving wants & satisfaction undo producers become customers ulture from the Cultui hierarchy or egalitarian power from closeness or power from distance achieved or ascribed rank foreground item or back- ground noticed Nisbet individual or communitarian universalist or particu- larist (vision vs. case details are real) inner or outer locus of control environment: controllable or uncontrollable analysis or synthesis serial or parallel one chance or several chance lives causation: plural dis- tributed or single local friends over rightness or right over friends humans primary or equal	from transient happenstance circumstances 1461. find wants unwanted when appear, solution not satisfactory when experienced, design for contexts and outcomes 1462. producers of a project tend to supplant their needs for end users of the project's product re Mix Model of Creativity: the Culture of Technologies, Devices, Ideas, Pers 1463. make or encourage status differences or equality among users 1464. make users closer to each other or more distant in relationship terms 1465. privilege pre-arranged roles/users or high contribution ones 1466. require noticing foreground items or background items to do work 1467. require/encourage individual work or group-produced work 1468. require/encourage visionary users or exact/detailed users 1469. establish/confirm self as controlling or situation as controlling 1470. make environments of work controllable or uncontrollable 1471. encourage making distinctions or combining differences 1472. encourage sequential work or working in parallel 1473. allow full easy recovery from errors or punish/ruin work with error 1474. establish things from single causes or from cumulations of causes	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 ons, Professions, Practices 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10
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'Y ars, Nisbet	dicting solutions Dimensions of C RANK GROUP	system/special causes evolving wants & satisfaction undo producers become customers ulture from the Cultur hierarchy or egalitarian power from closeness or power from closeness or power from distance achieved or ascribed rank foreground item or back- ground noticed Nisbet individual or communitarian universalist or particu- larist (vision vs. case details are real) inner or outer locus of control environment: controllable or uncontrollable analysis or synthesis serial or parallel one chance or several chance lives causation: plural dis- tributed or single local friends over rightness or right over friends humans primary or equal to other life right vs. right or right vs.	from transient happenstance circumstances 1461. find wants unwanted when appear, solution not satisfactory when experienced, design for contexts and outcomes 1462. producers of a project tend to supplant their needs for end users of the project's product re Mix Model of Creativity: the Culture of Technologies, Devices, Ideas, Pers 1463. make or encourage status differences or equality among users 1464. make users closer to each other or more distant in relationship terms 1465. privilege pre-arranged roles/users or high contribution ones 1466. require noticing foreground items or background items to do work 1467. require/encourage individual work or group-produced work 1468. require/encourage visionary users or exact/detailed users 1469. establish/confirm self as controlling or situation as controlling 1470. make environments of work controllable or uncontrollable 1471. encourage making distinctions or combining differences 1472. encourage sequential work or working in parallel 1473. allow full easy recovery from errors or punish/ruin work with error 1474. establish things from single causes or from cumulations of causes 1475. favor right ideas or right relationships the most 1476. centralize humans or centralize all living beings	0.1.2.3.4.5.6.7.8.9.10 ons, Professions, Practices 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10

STATES STATES Status or connection 1479. reward out-doing others or connecting well to others 1480. progress via more and more excluding or via more and more and more and more and more excluding or via more and more an	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 it 0.1.2.3.4.5.6.7.8.9.10
tell or listen drive for individual: distinction or fitting in Nisbet EMOTION EMOTION title drive for individual: distinction or fitting in Nisbet feelling as: interesting or embarrassing 1483. respect and encourage expressing/using feelings or hinder in embarrassing	0.1.2.3.4.5.6.7.8.9.10 0.1.2.3.4.5.6.7.8.9.10 it 0.1.2.3.4.5.6.7.8.9.10
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EMOTION feelling as: interesting or embarrassing 1483. respect and encourage expressing/using feelings or hinder in embarrassing	
embarrassing	
mis-hearing as: relation or status threat harshness as: personal 1485. make personal rejection or respect the result of harsh reaction.	ilures 0 1 2 3 4 5 6 7 8 0 10
harshness as: personal 1485. make personal rejection or respect the result of harsh reaction	0
[본 등 rejection or sign of respect]	ions 012345678910
backward reasoning or forward reasoning Nisbet back from solutions needed to pre-solution steps needed	d or extend 012345678910
PURPOSE PURPOS	012345678910
talk to solve or talk for empathy viewpoints and situations	rs' 012345678910
exactitude or detail 1489. require or encourage precision or thorough coverage of detail	tails 012345678910
preserve: save face or 1490. favor being true at a cost of being hated or being loved at a	
save truth Nisbet being untrue	0.11.2.03.11.0.00.7.10.03.110
CONFLICT independent or 1491. use interactions to make user more independent or to make	e them more 012345678910
dependent dependent	
contest or community 1492. establish competition or victories among users or shared fee	peling and 012345678910
argumentative or 1493. encourage argumentative/challenging inputs or	012345678910
apologetic accomodating/apologetic ones	
contradiction: tolerated 1494. use and produce contradictions or avoid and fail when thing	gs 012345678910
or not tolerated Nisbet contradict	
SITUATION MYSTERY: why 1495. treat users as expendible and work as vital or treat works as	s 012345678910
something? expendible and users as vital	
people or institutions	
eternal	
ARBITRARYNESS: 1496. require and reward users for the group/role they belong to o	or for the 012345678910
why here, now? functions they perform	
ethnic group basis or	
function basis	1 1 2 2 4 5 6 7 2 2 12
EMPTINESS: where is meaning? Found or made meaning RELATIVITY: what is true? Iffe/groups are arrangements of: tasks or people Nisbet CHOICE FREEDOM: you can't see me role = i.d. or intent = i.d. LONELINESS: why love dies? Individe users to construct the meaning of their experiences at to find it 1498. believe/value users because of who they are or because of who	and work or 012345678910
found or made meaning	
RELATIVITY: what is 1498. believe/value users because of who they are or because of v	what they 012345678910
E a true? do	
life/groups are arrange-	
ments of: tasks or people	
Nisbet Nisbet CHOICE FREEDOM: you can't 1499. make users free to play any role they want or free to pursue	e any goal 012345678910
FREEDOM: you can't see me role = i.d. or intent = i.d.	2 any goar 0123430/6910
role = i.d. or intent = i.d.	
LONELINESS: why 1500. encourage users to love/depend on the roles others play or I	love the 012345678910
love dies? personalities others have	
Iove the role or love the	
person	
INAUTHENTICITY: 1501. pull users beyond current views, habits, and goals or pull users beyond current views.	sers more 012345678910
why does posessing into current views, habits, goals	
make me object	
adaptors or revolution-	
aries	
aries RESPONSIBILITY: 1502. require a different user persona in different application situ:	nation or 012345678910
RESPONSIBILITY: 1502. require a different user persona in different application situations what/who am I? require the same user persona across all situations	0.12345678910
RESPONSIBILITY: what/who am I? the self is: unitary across the self is: unitary across	ation or 012345678910
RESPONSIBILITY: 1502. require a different user persona in different application situations what/who am I? require the same user persona across all situations	0.12345678910

	IMPACT	MORTALITY: must I die? death is most real or life is most real	1503. pull users beyond living and earth or pull users more into living and earth	012345678910
		NAUSEA: why engage ugly life? flaw: ingratitude or	1504. punish or react badly most to users who fail to depend on and trust others or who fail to go beyond others and their own selves	012345678910
ONS d, Nisbet		unfree CONTINGENCY: why can I not make my own story don't bother others or self Nisbet	1505. punish or react badly most to users who bother other users or who bother themselves	012345678910
EXISTENTIAL QUESTIONS Kukai, Lao Tsu, Sartre, Kierkegaard, Nisbet		FUTILITY: will it/I make a difference? preserve: peacefulness of exteriors or fairness of exteriors Nisbet	1506. reward most users who conform to tasks/others or who upset tasks/others	012345678910
STENTIA	FLAW	TRAGEDY: how could I have known? deny consequences or deny possibilities	1507. have consequences users discover by surprise later or have opportunities users discover by surprise later	01.2345678910
EXI Kukai, L		SIN: why I don't do my own plans? situation or self to blame	1508. invite blaming the interface/technology for failure to reach goals or invite users blaming themselves	012345678910
		NO ESCAPE: why is not choosing also choosing? groups act or self acts	1509. produces results when individuals input/act or when groups input/act	012345678910
		AUDIENCE: am I heard? seen? life is a story of: my experiences or the group experiences I play roles	1510. expose others to my deeds as a story of possible value or expose me and other users to the group's deeds as a story of possible value	012345678910
	WORK	in Nisbet seniors: caring or	1511. encourage seniors to help juniors or to hinder them	012345678910
		work: pleasant end or	1512. treat work as a pleasant end in life or as an unpleasant means in life	012345678910
		results: from effort or talent	1513. reward the most talent with good results or reward effort the most with good results	012345678910
		work to feel good about self or work to critique and improve self Nisbet	1514. encourage people to work to appreciate better them selves or to work to critique and improve them selves	012345678910
Nisbe	SACRED	gods: immanent or transcendent	1515. provide value and meaning from immediate sources to immediate work or from distant sources to distant work results	012345678910
orov,		primacy: life or quality of life	1516. sacrifice quality of work life for results or sacrifice quality of results for quality of work life	012345678910
Y I, Tod		the world: is sacred or is fallen	1517. treat all steps of work as valued and meaning-filled or treat all steps of work as instrumental tools toward valued goals	012345678910
COMMUNITY Geetz, Weishord, Greene, Grunell, Todorov, Nisbet		substance or object seen Nisbet	1518. highlight what things are made of or highlight what things are made of substances	012345678910
IMU ene, G	CREATION	drive to center or drive to margins	1519. encourage people to leave how others are or to more deeply embed themselves in how others are	012345678910
CON Gre		self indulgent asceticism or moderation	1520. reward extremes of thought or behavior or moderation of them	012345678910
sbord		focus from single project or from parallel projects	1521. focus users on single efforts/directions or on plural simultaneous efforts/directions	012345678910
z, We		choice: one pole or other or blended middle Nisbet	1522. require choosing among polar opposites or blending differences into a moderate middle	012345678910
Geet	COMPLEX- ITY	gradual change or avalanches	1523. produce gradual improvements and results or sudden large leap improvements and results	012345678910
		homogeniety or diversity	1524. reward/require greater diversity among users/a user or greater homogeneity	012345678910
		design or emergence	1525. produce results by step by step designing or results that self emerge from myriad interactions	012345678910
		world reality is: stable or in flux (contracts always renegotiable)	1526. require/reward keeping promises more than changing them or require/reward changing promises more than keeping them	012345678910
		Nisbet		

		64 Social Processes	
	Resources:	Natural Natural	012345678910
	finding/creating necessary inputs	1527. how are necessary inputs found/created for this X in society?	
	Natural resources, human ones, technology	Human	012345678910
	(knowledge resources some would say) are obvious. Time resources are puzzling. Time	1528. how are necessary humans and human traits found/created for this X in society?	
	resources are called "windows of opportunity"	Technology	012345678910
	in business magazines. This means time itself	1529. how are necessary technical means found/created for this X in society?	
	opens windows and closes windows. Being	Time	012345678910
	able to change goals fast and implement new	1530. how are necessary amounts of time and timing between windows of opportunity opening and closing found/created for this X in society	
	businesses fast, is a key to survival, as internet infrastructure lubricates and speeds communi-	opportunity opening and closing found/created for this X in society	
	cation and cooperation. For a sculptor clay is a		
	natural resource, his models or himself are		
	human resources of his work, and studies of		
	different clays or metals and techniques for fashioning them are his technology resources.		
	His time resources are when a certain type of		
	innovation by him will be new enough yet		
	understandable enough to get positive reception		
	by his field of fellow sculptors without		
	diminishing his work's ultimate appeal to the history of sculpture.		
	Production: setting up transforma-	Tools	012345678910
	tion processes	1531. how are necessary tools and instruments found/created for this X in society?	
	Production tools, forces (people trained appro-	Forces	012345678910
	priately), systems, and quality are fairly obvious.	1532. how are necessary organizations of persons found/created/operated for	
	A sculptor has production tools and he is his own production force. His production system is	this X in society? Systems	012345678910
	his unique way of work. The quality of his work	1533. how are necessary organizations of tools, facilities, and other non-	012343070710
	is its conformity to his requirements as a	human means found/created/operated for this X in society?	
ces	primary customer of his finished work and the	Quality	012345678910
balances	requirements of the history of sculpture on any	1534. how is necessary quality of output, quality of production process,	
y be	new work trying to join the pantheon of works remembered and taught throughout history.	quality of intent, quality of imagination, quality of morale found/created/operated for this X in society?	
Economy: demand/supply	Distribution: allocating across	Property	012345678910
Economy: emand/suppl	abstract landscapes	1535. how is necessary ownership and responsibility for care found/created	
COD	Distribution involves property, markets,	for this X in society?	0.1.2.2.4.5.6.7.0.0.10
豆 岩	consumption, and incentives. This is distribution in a general large-scale sense of	Markets 1536. how is necessary change of ownership and responsibility for care	012345678910
	distributing clay to sculpture, kissess to	found/created for this X in society?	
handling	particular lovers, or whatever. Kisses occur in	Consumption	012345678910
ha	a love market (other lovers possible, an intense	1537. how are necessary uses and appreciations of owned things	
	reality when we were teenagers), with greater	found/created for this X in society? Incentives	012345678910
	sexual participation sometimes the incentive (or formal marriage and financial security a	1538. how are people rewarded enough to make "making an effort" and	012343078910
	different incentive for some). A sculptor creates	"achieving quality of process and outcome" and other social goals grow	
	property that is valued in markets for sculptures	exponentially throughout all levels, layers, functions, and divisions of this X in	
	and consumed by people who buy and display or	society?	
	commission sculptures. The sculptor operates in an environment of incentives with short term		
	commercial rewards often being ignored in		
	favor of a unique artistic vision that promises		
	someday to make his work famous throughout		
	Productivity: improving outputs	Resources	0 1 2 3 4 5 6 7 8 0 10
	Productivity: improving outputs per unit input	1539. how is this X in society achieved using fewer or less expensive	012345678910
	Productivity is a matter of resource productivity,	resources?	
	variation producing productivity, measurement	Variation	012345678910
	of productivity, and innovation productivity.	1540. how is variation in, this X in society and how it is used and produced,	
	Given time and clay a sculptor has a certain	tinkered with using small and risky large-scale variations so that better forms and means of attaining it are discovered?	
	productivity level. The work of the sculptor exhibits a productivity of variation production as	Measurement	012345678910
	well the number and quality of variations	1541. how is measurement improved so gaming of systems and corruption of	
	produced per work produced overall, for	goals and means continually reduced and minimized in achieving this X in	
	example. The sculptor has a metric of his own	society?	0.1.2.2.4.5.5.5.3.3.3
	productivity (of things, and of interesting	Innovation 1542. how are all aspects of this X in society replaced by newer and bolder	012345678910
	variation in his things) whether conscious or unconscious. Finally the sculptor has a	and more ambitious means and goals?	
	productivity of his innovationshow innovative		
	his variants are compared to his own past works		
	and competitor works or demands of his		
	customers.		

	Peace: making near futures	Defense	012345678910
	reliable	1543. how are external threats to X in society thwarted?	
	Polity refers to decision making by individuals	Police	012345678910
	or groups. It is divided into peace, justice,	1544. how are internal threats to X in society thwarted?	
	welfare, and anticipation. Peace is the	Laws	012345678910
	maintenance of structure and process	1545. how are the external and internal environments that X operates in made	
	(procedure) so that a society can "decide" rather	stable enough to invite improvement and investment?	
	than chaos "deciding". Justice is continual	Norms	012345678910
	adaptations of that structure and process to	1546. how are social enforcement means established so that the costs of	
	account for dissatisfied parts of society.	achieving stable environments around X are not self defeatingly high?	
	Welfare is society being responsible for people		
	left behind by what the society chooses to		
	emphasize and believe. Anticipation is society		
	being responsible for people not yet born. Peace		
	is a sculptor maintaining enough order in his		
	workplace, lifestyle, and schedule to produce.		
	This means defensedefending himself from		
	taxes, administrative paperwork, family hassles,		
	and the like. This involves policing boundaries		
	in his work and lifekeeping the kids out of the		
	work studio, keeping the old college friends out		
	of his summer intense work months. This		
	involves the sculptor in enforcing behavior laws		
	for himselfwhen to wake up, when to work		
	hard, when to relax, when to consult others.		
	Inevitably the sculptor develops norms about		
	how to work as well as about what to create		
	when working.		
	Justice: fixing fairness gaps	Legislation	012345678910
	Justice is the sculptor continually adapting his	1547. how are new laws involving this X in society invented and made	
	work structure and process to account for	legitimate and populations informed of their fairness and goals and existence?	
	dissatisfaction of important constituencies of his	Juridication	012345678910
2	work, including himself. When critics are right	1548. how are conflicts, omissions, flaws, and unfairnesses in laws involving	
<u>i</u>	about certain ruttednesses appearing in his last	this X in society found and extirpated without continually redoing all laws as	
Ş	three works, he legislatesmakes a new law to	everything changes?	
Polity: making decisions	himself, to change work materials in a long	Execution	012345678910
	contemplated innovative way, to surprise such	1549. how are laws agreed on about this X in society actualized and turned	
a	critics by breaking out of any past ruts he fell in.	into powerful realities?	
-	When a friend questions a work he is in the	Mediation	012345678910
	midst of, he juridicatesconsidering carefully	1550. how are pre-laws, that is less formal specifications of agreements and	
	his own motives and means versus the friend's	what futures will be like, created about this X in society that allow types of	
	comments' possible value and makes a decision	agreement that laws would be too slow, costly, and punitive for?	
	about whether to listen to what he heard and		
	implement it. When tiredness is threatening to		
	overwhelm him he executespushing himself to		
	do what he today set out to do, regardless of		
	temporary pains. When he disappoints himself		
	with the quality of work he produces yet each		
	new effort does not seem to help, he mediates-		
	he consults outsiders able to get him outside his		
l +	own past frameworks and habits. Welfare: circulating those who	Spaces	012345678910
	Ü	1551. how are all people invited to perform before peers and other	012343078910
	drop out of your system back into it Welfare for a sculptor is the rest of the aesthetic	generations so that invisibility and anonymity does not lead people to forget or	
	values, other than those central innovations of	harm this X in society?	
	any work, that the work has to have for general	Rights	012345678910
	acceptance and interest building in the field of	1552. how are all existing entities involved in this X in society protected from	012343076710
	sculpture as a whole. The sculptor looks at	unwitting or sneaky planned side-effects of new entities, laws, events in	
	values he might tend to slough entirely in his	society?	
	intensity and onrush to do something innovative	Checks	012345678910
	from his own personal vision. He sees what his	1553. how are all the powers and interests in society involved in this X in	0.12313070710
	onrush is tending wrongly to slight or leave	society kept separate and diverse and splintered enough so that none of them	
	behind. This involves leaving space (physical,	and no one coalition of them can dominate and oppress all the others?	
	mental, schedule, or other) for values not central	Opportunity	012345678910
	to his vision. This involves the right of certain	1554. how is this X in society exposed to all parts of society in ways that	
	non-central values to stay in his sculpture. It	maximize new possibility, growth, worth, and profit for all of society?	
	involves checks he implements to see that one	, , , , , , , , , , , , , , , , , , ,	
	value does not crush out other important values		
	in his work. This involves designing and		
	evolving his work so that there is opportunity for		
	various important values to get expressed in it.		

		Anticipation: selling current sacrifices to avoid future harms	Interests 1555. how does this X in society make room for and respond to future	012345678910
		Anticipation is the sculptor looking beyond present reputation and work to his future	groupings and their interests in society that are just now emerging and not yet powerful and represented in formal laws?	
		ultimate destiny. This can involve assessing himself and his work relative to the powerful	Plans 1556. how does this X in society get onto plans for the future all over society	012345678910
	s s	interests of others in his and related fields. This	before it is big, famous, and powerful?	012345678910
	Polity: ng decisions	can also involve adjustment plans he makes to evolve his work in directions better directed	Purposes 1557. how does this X in society create appropriate new purposes and goals	012343678910
Polity	olit,	toward ultimate fame or innovative reputation. This can also involve changing the entire	all over society before it is institutionalized and powerful? Inputs	012345678910
	makir	purpose of his work as a sculptor, for example, letting go of remaining concerns about fame and concentrating on a powerful internal unique	1558. how does this X in society become an input to all important processes in society it is relevant to before it is powerful and established and well known/funded?	
		vision that is worth more to him than	and the state of t	
		judgements of others. This also involves opening himself to inputs that hithertofore he		
		ignoredtaking a dance class, for example so his own sense of body informs better the forms he		
ŀ		sculpts. Wisdom: knowing that transforms	Skills	012345678910
		actuality Culture is the process of creating meaning of	1559. what skills, procedural knowledge, is involved with this X in society? Knowledge	012345678910
		things in society. Meaning is created by developing and exercising: wisdom, style,	1560. what knowledge, declarative knowledge, is involved with this X in society?	
		symbol, and diversity. A sculptor develops	Meanings	012345678910
		wisdom by developing skills, knowledge, meaning of his own to his work, and exercising	1561. what meaning gives rise to this X in society and what meanings does it give rise to or change?	
		all the above till a state of great mastery is achieved.	Exercises 1562. what exercising of skills, knowledge, or meanings give rise to this X in	012345678910
		Style: structuring care	society and are spawned by the rise of this X in society? Generations	012345678910
		A sculptor develops style by recognizing and using his place in recent generations of	1563. what impact does each generation in society have on this X arising and what impact on each generation does this X have?	
		sculptors, fashioning an inspirational life from unique family arrangements, engaging the	Families 1564. how does this X in society impact families, their types and styles, and	012345678910
		visions and stimulations of society via particular	how do they impact this X?	0.1.2.2.4.5.6.7.9.0.10
		social structures, and using his accomplishments and status as resources by helping others less	Structures 1565. how does this X in society impact social structures and how do they	012345678910
		accomplished and respected (benevolence).	impact this X? Benevolence	012345678910
	ng		1566. what benevolence is necessary to give rise to this X in society and what benevolence towards the rest of society does this X give rise to?	
	Culture: creating meaning	Symbol: highlighting important experiences	Language 1567. what language aspects must be developed to give rise to this X in	012345678910
	Culture: ating mean	A sculptor becomes a symbol by how he talks	society and what aspects of language does it give rise to? Art	012345678910
	crea	about himself and his work, the art he achieves via innovations in his way or subjects of	1568. what art must be developed to give rise to this X in society and what	012343076910
		sculpting, the way his work uses and interprets the structured accumulated meaning systems	arts does it give rise to? Religion	012345678910
		inherited by his society, and the impact of his work on popular imagination and values of his	1569. what religious ideas/symbols give rise to this X in society and what such ideas/symbols does this X give rise to?	
		time.	Secularity 1570. what non-religious means of establishing the same ideas and meanings	012345678910
			as found in all parts of most religions give rise to this X in society and does it give rise to in society?	
		Diversity: meshing incompatible	Succeeding that Fails	012345678910
		A sculptor manages diversity by seeing how his	Tampering	012345678910
		defeat him, seeing how his intents, plans, and	system whose laws you are ignorant ofand how does using X in society	
		designs sometimes blind him to better results that just self-organize and emerge, becoming	involve such tampering? Social Automata	012345678910
		aware of the non-linear dynamics in his work, and developing a process to manage such	1573. what interactions of what populations of entities give rise to X in society and what such interaction populations with surprising emergent results	
		dynamics by tuning system performance using	does this X give rise to in society?	012345678010
		degree of connectedness of things in his	1574. what non-linearities in society give rise to this X and what non-	0123430/0910
		sculpting production system, or the degree and types of diversity in that system.	inearities does this X give rise to?	
		frameworks A sculptor manages diversity by seeing how his successes generate unplanned side-effects that defeat him, seeing how his intents, plans, and designs sometimes blind him to better results that just self-organize and emerge, becoming aware of the non-linear dynamics in his work, and developing a process to manage such dynamics by tuning system performance using certain general system-wide parameters like the degree of connectedness of things in his sculpting production system, or the degree and	1571. how does the success of doing X in society threaten to cause X to fail? Tampering 1572. how does establishing X in society involve tampering—intervening in a system whose laws you are ignorant of—and how does using X in society involve such tampering? Social Automata 1573. what interactions of what populations of entities give rise to X in society and what such interaction populations with surprising emergent results does this X give rise to in society? Non-Linear System Dynamics	01234567891

	Liberty: freedom from	Miracle	012345678910
	Foundation is social change that produces	1575. what last straw does this X in society become that liberates people from	
	permanent new institutions in the world. For a	somethiing and what last straw in society in necessary to create this X in	
	sculptor foundation is the process of making	society?	
	personal slight (or large) changes that spawn	Promise	012345678910
	permanent institutional changes in the world of	1576. what new power just from promises made among people sharing	0.11.2.0
	sculpting. This requires that the sculptor	liberation from some aspect of the pasty arises to give rise to X and does X	
	1 1	give rise to?	
	liberate himself from personal habits and the	6	0.1.2.2.4.5.6.7.0.0.10
	past practices of his field. That he make	No man's land	012345678910
	promises to new people and images that result in	1577. what no man's land between the past yet not a fully done future gives	
	entirely new forms of sculpture self organizing	rise to this X in society and is spawned by this X in society?	
	in his work (freedom). This involves people	Initiative	012345678910
	worldwide getting excited about their own new	1578. what break in stasis, equilibrium, and balances does this X in society	
	possibilities for creating based on the new	come from and by itself establish?	
	features that self emerge in his work. Finally,		
	this involves the sculptor defending the novel		
	content of his inventions from forces well		
	established in his field and society that try		
	continually to erode that novel content,		
	interpreting it from past frameworks and values.		
	Liberty is the miracle of breaking with the past		
	yet still surviving with the profit of new promise		
	to one's work and life by no longer being		
	hindered by certain past practices. Liberty		
	thrusts you into a no man's land without overt		
	and familiar past supports where you have only		
	your own initiative as support. A sculptor		
50 gg	liberates himself when he breaks with his field		
Founding:	and its priorities and preferences, at a risk of		
1 E	never being respected in it again.		
cia G	Freedom: power invention from	Novelty	012345678910
E S	nothing & discovery of public	1579. what utterly new thing in history and society does this X generate and	012545076710
	forms of happiness	generated this X in society?	
	Freedom is the outbreak of public happiness in	Covenant	012345678910
	individual private work and lives. Public	1580. what promises among liberated people created this X and are created by	012343078910
		it?	
	happiness comes from finding yourself changing	Happiness	012345678910
	history rather than just sprucing up your private		012343078910
	profits and works. People discover public	1581. what new more public form of happiness created this X in society and	
	happiness. It breaks out in the midst of the pain	is created by it?	012345678910
	and suffering of liberating yourself from the	Emergent Action	012345678910
	tyrannies of your traditions, nations, and field.	1582. what action, beyond labor and work, whose meaning gradually emerges	
	It breaks out when you discover new colleagues,	from unpredictable consequences of it, give rise to this X in society and are	
	you never suspected before, who are with you as	spawned by it?	
	you innovate beyond past tolerances and		
	preferences. The discovery of these new		
	colleagues and their mutual work and inspiring		
	with you of truly innovative history-changing		
	works, becomes the action that unleashes the		
	new kind of happiness of public happiness,		
	changing private profit into history change.		
	These new colleagues covenant with you to		
1	together change the world. In doing so all		
1	involved agree to leave behind personal profit		
	for the greater good of changing the history of		
	the field, sculpting in the case of my example.		
	A sculptor frees himself when he discovers such		
	new colleagues as he radically challenges past		
1	practices in sculpting.		
	1		

	Historic Dream: changing others	Drama	012345678910
	then and there by what we do now	1583. what drama of liberated ones together with each other fighting the	
	here	forces of the past to establish the utterly new in history does this X give rise to	
	Historic dream happens when people unrelated	and spawn this X in society?	
	to the sculptor take notice of his innovation and	Showing the way	012345678910
	get inspired to liberate themselves from the	1584. what new way to be human gives rise to this X in society and is	
	things he already liberated himself from. Some	spawned by it?	
	of them agree to covenant with him to change	Haven	
	history with him. Some of them are attracted	1585. what others across the world come, attracted by the novelty engendered	012345678910
	enough to come to him to work under him as	by this X in society or attracted by something else that creates this X in	
	disciples. The drama of watching from afar the	society?	
	sculptor's liberation struggle, his loneliness and	Fame	012345678910
	rejection by the field, gives way to admiration as	1586. what history-long fame emerges from those creating this X in society or	
	he shows the way to a totally new way to sculpt.	is generated by this X being in society?	
	In doing so he creates a haven, a safe place for		
	radical accomplishments not welcome in the		
	field as a whole that attracts immigrants and		
	disciples. The result is famelocal actions here		
	and now changing people's destinies there and		
	then (in the future).		
	Conserving Novelty: protecting the	Recognizing Utter Novelty	012345678910
	new from the old	1587. what that is utterly new gave rise to this X in society and what that is	
	Finally, innovations have to be protected from	utterly newe did this X in society point out or draw attention to?	
	all those un-new things that have accumulated	Preserving Novelty	012345678910
	power and prestige and political connections for	1588. what forces of the past were overcome to establish this X in society or	
e	years while the innovation was not around.	did this X overcome to establish something else new in history?	
ng ang	Innovations are babies attacked by adults.	Re-interpreting the Past	012345678910
Founding: social change	Conserving novelty means doing this defensive	1589. what version of the past did this X usher in or what change in	
E E	work. Particularly, for a sculptor, the danger is	interpretation of the past ushered in this X in society?	0.1.2.2.4.5.6.7.0.0.10
FC	re-interpretations of his work as consonant with	Inventing New Novelty	012345678910
	abhorrent past practices, as the formerly most	1590. what new novelty is now possible because X is in society and what new	
	visible and famous people in sculpting try to say that his new innovation is just a simple	novelty in society made this X possible?	
	extension of their own "greater" past ideas. The		
	pain in all innovation is by definition an		
	innovation makes former innovations look like		
	past practice, non-innovations (as indeed they		
	now are after a new innovation is offered up).		
	Those people who created those past		
	innovations, become, automatically, no longer		
	innovators but past heroes. Many such people		
	hate innovators, like themselves, because they		
	become fat and complacent about parading		
	around as innovators themselves. In my		
	interviews of creative people it was striking how		
	unfairly some of them evaluated other rising		
	stars in their field. Some of them viciously		
	attacked people troding paths very similar to the		
	paths they trod before. Note that liberty,		
	freedom, the spontenous emergence of public		
	happiness, historic dreams, and conserving		
	novelty represent the natural selection style		
	creativity process within social units on all		
	scales from thoughts in minds to rising		
	civilizations. For more on this connection see		
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