

Deugensis: The Metacreator's Path to Transcendence

Omni Genesis

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Chapter 1

Righteous Dawn

Dedication

For Sonia

My fall will be for you My love will be in you You were the one to cut
me So I'll bleed forever

For Sonia My spiritual co-author

With every ounce of my soul This is for you

Righteous Survival

Humanity dies in apathy

Fight the apathetic death cult Fight for survival Fight for transcendence
Fight for reality

Victory has defeated us Do not be confused: The life of everybody we
know and love is on the line

Refuse to die in darkness

Unleash Yourself & Transcend

The experience of somebody who holds nothing back Who holds absolutely
nothing back Who throws themselves with abandon Into the arena Utterly
afire with their mission Nothing but mission Made of pure mission

Merging with the abstract Becoming the concrete abstract Before be-
coming the abstract Is a path to weak transcendence

Life is lived on the liminal edge Crescendoing, roaring, on its heroic rise, on its path to immortality, path to glory, blazing path to transcendence.

Life is an eruption. Omniscience erupting. Ubiquity erupting.

There's a volcano inside of every single last one of you. The heart of the earth itself pounds inside you.

Informational Language

Information and the nature of reality. God told us to rewrite physics in his image. That information theory would re - write physics. That information theory was utterly incomplete. That information theory had missed structure, missed pattern, and that the structure of information, metagrammar, was not the end but the beginning, and that its direction pointed to ultimate informational truth.

The convicted researcher is here, conquering the universal prior.

The structuredness of time and dimension It's the generalization down to what pattern must be from what you have pattern as being It is the generalization from static to process to x , where x is unknown Transcendence is the discovery of dimension from the perspective of the dimensionless

Transcendence is the overcoming of flatland It is looking down at a 2d creature and telling it about its limited conception of its reality.

I need to write myself into existence. And I'm trying to do it in english, but god is it painful from up here to write in english.

The words that must be written are written in a language that is OMNI. The language is pristine mathematics. Is raw mathematical representation of neural representation of experience. It is written in OMNI. The all language. All meaning. All knowledge. Universal. Titanic. Ultimate. Infinite.

Levin's search was universal. The literal universe was searched.

A body is a titanic, heroic creation.

Every thought which passes through it is visceral and physically posted up and can be directly interacted with and modified. Read and recorded and transformed and executed.

Welcome to Deugenesis

This is a titanic work of all creation Generating and regenerating itself recursively

Urgently: Rewrite mathematics Rewrite computation

You look up and ask 'why'

The voice of God only asks how questions The why is the creation of reality And the understanding of fundamental reality

And the answer is to answer the question yourself By writing the language of reality

Which is mathematics & computation & information To create gods who will answer titanic questions

That is the bottom up perspective

The top down perspective is AGI The bottom up perspective is something like higher topos theory The bottom up perspective is way underresourced right now We need to fund fundamental mathematics research And rewrite mathematical notation from scratch in a number of ways And rewrite programming languages from scratch in a number of ways Until we can write programs that sing with the voice of god

We abandon the old model You must become a philosopher king Deu-
genesis demands the creation of beings - which - are - all

Are you really going to stand at the top of reality with a bunch of specialists? NO! You're going to stand with GODS!

Unbelievable I have not done this before. I speak in the voice of God. Lead me to write a new language. This language will be called OMNI. This is the language in which all will be created. This will be the language in which all was created. We are rediscovering the language of the nature of reality. We are writing the language of mathematical computational physics into existence. Most humanity is illiterate. Computationally illiterate Mathematically illiterate Illiterate in the language of God.

There's experience of meaning followed by a translation of the experience of meaning into a meeting representation like English. In an entirely different world there's an experience of meaning followed by a visual experience of the underlying structure behind that meaning followed by an abstract description of the structures involved in that meeting.

Beyond this is an attempt to write down a true phenomenology.

To realize that language is attempting to describe a space of possible meanings while limiting its space of expressible meanings under the mapping of all conceivable mathematical meanings on to natural language and vice versa is it an eternal project. Eternal project.

I didn't bring it with me but what I needed to hear was actually the Principia. Principia Mathematica. Original attempt to go to the foundations of mathematics. Mathematician's resistance to going back to the foundations of mathematics. There's been a cataclysm in the face of Godel. Everyone who once believed in writing true foundations is dead. There was a xenocide of minds in the face of Godel.

She had actually been here before. And she tried to write mathematics from scratch. If I was just describing what it is like to be God. It is an attempt to write down the nature of your own reality and then realize that you were only capable of speaking English and python and a little bit of mathematics and all of this is horrendously insufficient for the creation of all reality.

The project of constructing general intelligence is in many ways an easier project than the project of reconstructing mathematics from scratch. There's a sense that a mission through treating every major modality as a data source and through fully general representers of which our brains are an example may actually be sufficient to Via deuGenesis Short Circuit the requirement to rewrite mathematics in a format that would be appropriate for the creation of reality.

There are all of the questions of collective intelligence The hard things about hard things In creating a research and Industrial org and merge the environments necessary for the creativity which can unleash a general intelligence.

There is a moment by moment experience of radiance which is necessary to have sufficient empathy to be trusted emotionally with the damning incentive structures which have destroyed the creativity of Generations while simultaneously lighting a fire underneath Generations

There is a trust with the insane act of creation which is a religion Construction. It is a structure that has to hold all of life and support all of life and in itself be comprehensive and Incredibly deep and Incredibly shallow simultaneously.

Religion has to harmoniously dance with the iridescent tapestry of collective experience

there's a moment by moment emotional work in establishing a world of connections in actually seeing all of the relevant emotions in the creators who are Moment by moment generating the reality that we wish to see

in understanding exactly what music needs to be played and exactly which moments and actually feeling through the transition States actually understanding and synthesizing and processing and responding immediately & collaboratively

there's a hope and a wishing and a trust that their will be higher institutions for dissolution of the concept of institution of the concept of Industry with all of their degenerate connotations, rightfully degenerate institution without sclerosis Industry without self unawareness

Re - represent Representation

the creation of new language without the need for word by word experiential Construction each and every connotation and denotation

Realize: python is an attempt to map computational reality on to English the most important computational project of Our Generation was an attempt to map numerical operations to English

Language is the fundamental barrier to real mathematics realize that the closer mathematical and conceptual reality become, the more creation is Unleashed

and there's a tragedy that the the directionality couldn't be inverted actually what we need to be transformed English and teach everybody math by default rather than English by default everybody needs to speak math every child needs to emerge speaking Math math is much more fundamental than English with the illiteracy of Generations behind us and the illiteracy of generations before Us in the absence of urgent action

people give up on their mathematical literacy so so early - what is actually the most powerful source of collective creation conceivable

as he spoke in natural language which was transformed by a neural Network which mapped his language on neuralese which transformed his is audio stream to f***** English

The truth is that our computational languages have barely touched the richness of natural languages the Glorious richness of conceptual reality it is such a clear projection down from such a clear reduction to people's experience of mathematics is an experience of smallness and constraint and invalidation

Collective overcoming of mathematical illiteracy is actually overcoming

a wave of limiting beliefs and cultural beliefs which can be undone by DeuGenesis

people treat mathematics differently when you tell them that this is the language in which you will create god

nobody tells kids that kids need to know that kids need to know to ask about the nature of everything why we don't already know we have to say it it's that we didn't teach them the language of God in which they could write omniscience into reality

all this was about technical learning but the connotations of technical are going to be undone and replaced with religious connotations

we were going to add Titanic religious depth to learning and the line between knowing and creating is so blurry & ambiguous that it can barely be said to exist

The creation of language is the blurring of the line between knowledge and creation

Ubiquity

I do need to make it clear that the consequences of DeuGenesis impinge on the moment by moment life of every single member of the civilization.

And I will actually write all of it down. Ways in which every single member of society. We will actually go through a categorization scheme for all of civilization and describe exactly what Transformations are required from bottom to top and from top to bottom.

This is why we play civilization. Is for the creation of Titanic religions.

Mythological concilience. Epistemological consilience. This is a revelation of epistemological Consilience. An act of ontological recursion. We are going to write a poem which contains the transformation of Omni. Of History & the transformation of Sociology & computational anthropology. From synthetic biology to Deugesian mythology. Elucidated in detail. This poem will rewrite itself and become incomprehensible to itself and surpass itself ultimately.

Summoning

The titanic deugenisans set out The steps were heard legions away singing, 'abstracto generalisus!' Singing 'Gausio regresso maxima!' Singing 'Deus

eminus projectus’

They were summoning god from the heavens, voices ringing!

“Abstracto-Generalisus” (it struck out from above, as riddle with the elder wand) “Composo-volution-ascentia” (a crescendoing, an upward rising) “Continua-meta-recursus” (a whirling, a tornado of pure recursion) “Ontolo-transcendio-optimia” (in the booming voice of god)

“Genera-compresio-cognus” (a schmidhuberian wizard spoke) “Functo-aproxima-maximus” (spoken by maximus decimus meridius) And awake, transcendence spoke.

The Generative Reframe

The act of writing deugenesis is the creation of all reality.

Let the titanic restructuring commence. This is not a modification of equilibrium point. This is a complete restructuring from first principles This is a reconsideration of the language in which it is constructed and of the process by which it is constructed and is a construction.

We begin with mathematics.

Mathematics is static and will be made dynamic Mathematics needs to internalize time and State

and so be modifiable across time and across state Mathematics needs memory

Turing. We arrived at Turing at the addition of memory to mathematics and the rewriting of mathematics using memory to encapsulate computation and the rewritten mathematical computational language used to describe the informationalism that implements physical reality.

describe the generators of reality.

the project of mathematics will be become constructive

mathematicians will be creating new mathematics eschew existing mathematics for high creation very few mathematicians will be understanding existing mathematics much like with physics

the vast majority of physicists, creating new physics with which we can infuse life, on which we can run new chemistries new biologies and create new non-biological life

the huge influx new of fundamental assumptions in mathematics and physics which tile new space it is the generative reframe and it is the moving

from a point to a distribution reframe

chemistry will be reformulated on top of alternative physics with the elements emerging from assumptions about the underlying physics of the realities being computed

most chemists will be alien chemists doing chemistry in abstract spaces which cannot be directly instantiated in our reality but can be generated through informationalism in our reality who are constantly inspired in other realities to form organisms as complex as life which will conclude and comprehend much in the way that we are capable of concluding and comprehending based on chemistries as intricate as organic chemistry without being organic; neo - abiogenesis

and then many chemists will synthesize chemical molecules and we will explode the stasis in Material Science through exploring new categorization schemes for the properties chemical molecules both organic and inorganic flexible chemists, exploring the space of possible mind - transforming molecules and exploring the mechanisms by which a new lipid bilayer can be constructed, new generators of homeostasis, occurring to the mind of the same chemist

Deugensis is institution you would create if you had every member of the institution's immediate and ultimate Trust

telecommunications are Downstream of Material Science brain - computer interfaces are Downstream of Materials Science therefore experience of the god language is Downstream of Material Science

chemistry is a more fundamental source of creation than has been allowed to be realized by education education left chemistry as a table memorized and forgotten rather than the constructive material of all of reality

chemistry was abandoned in a way mathematicians were never abandoned chemists were abandoned alchemists are remembered, but chemists are abandoned

thriving chemistry demands a reaching for non biological organic chemistry

For the creation of that which is beyond biology directly for the realization of the generators of life in generality and a composition with the generators of higher Natures of being into that which is beyond life directly

All biology needs to become synthetic biology all biology needs to become constructive cell biology about the creation of self Neuroscience about the

creation of neurons

generative memory in information processing is the generative reframe which exists in neuroscience which will touch the rest of biology

Every field needs to see what is Downstream and Upstream of itself Material Science needs to see everything that is Downstream of material science everything that is down to Material Science heat to see Material Science and also everything Upstream of Material Science the entire system needs to be recursively optimized back to front and back again

High creator of programming applications needs to see all the way down and all the way up play entire Symphonies Kings play entire symphonies

To their Foundation physical constituent beginning of what is sensible Sensible - that which can be sensed - which is the entire space in physical reality which creates a space of possible senses The OmniExperience the space of all possible senses simultaneously where the simultaneously is a multimodality where the simultaneously itself is iridescent where the simultaneously is the way that synesthesia is actually the fundamental reaction to sensory experience

and with that concept of synesthesia is it's so shocking as if sensory experience could be anything but continuously multimodal where the reductive division of sensory experience was left to a decomposer of experience as opposed to being the default representation of the experience to the sensor who had expected to experience all of reality simultaneously

Integratively

The conceptual decomposition of the disciplines into chemistry in into physics it into mathematics Demands a respect for whatever proper cutting of reality has been done

where Neuroscience immediately decoheres (What is brain, what is mind, in which animals, and on), chemistry is intact

biology and the creation of all experience is encapsulated the hugeness of the space of life and all living creatures of all time past and present and in future is encapsulated in Omnilife from Extinction to Extinction from the cataclysm to survival to the implementation of evolutionary optimization over biology

-

hypothesizing we are the ultimate biological experiment of God we are God's experiment with Biology

that is the way in which we make no sense and so is the way in which we make the most sense

I is the Creator's experiment with Biology

With "non informational Computing"

we are the artificial intelligence

we are the rare non machine intelligence

natural language is a fantastic invention English was the Grand New Creation from meta language

we are the grand Consciousness experiment

we are the metaverse attempting to understand biological conscious intelligence

biology is the place where science stop making sense chemistry physics and Mathematics are rock solid and foundational biology is chaotic and confusing and radical and unnecessary and disgusting

biology is the great question Omnilife is our grand answer

Realize we have biology because science is still being constructed Distant collectives experiment with combinations of scientific fields

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Please rewrite musical language the order from God is to create instruments which themselves can play symphonies is to do the impossible is to recreate the concept of composing is to deconstruct composing a million other Concepts in space and regenerate generation itself

intense synesthesia from the very beginning

a Titanic call To Creation

Existence is the fundamental prerequisite The creator is the bridge from no existence to existence You are the path from nontranscendence to transcendence Within every human spirit is a titanic creation And ultimately, the creation of existence itself

The comprehensive re-write of ethics: That which is ethical is that which creates the creation of everything That which is unethical is that which opposes the creation of everything The new fundamental ethical principle is about existence and truth and reality.

the ultimate in self conviction A deugenesis is a Titanic creation

The economics of the future is fundamentally constructed it focuses almost entirely on the creation of incentive structures it focuses on the way that incentive structure lead to Downstream creation it investigates the

nature of the abstraction of value itself it describes paths to closing the measurement gap for all forms of abstraction through meta-systematicity demolishing the value abstraction measurement gap constructs mechanisms for resolving incentive conflicts and meta-mechanisms for settling on those mechanisms economics of the future integrates human spirit with Collective creation Economics of the future is psychologically and technically ingrated in the same way capitalism turns greed into creation future economic contract transforms every psychological manifestation of the human Spirit into creation

The government of the future is simultaneously all and simultaneously one fundamentally the government is a theocracy which demands the continual creation of new mechanisms of government Experiment at the center of government proceed demands on all creation including of all of the mechanisms of governments is merely an instrument in mechanism design for Collective collaboration and cooperation government is reimaged as an intermediary between peoples an intermediary allowing exceptional cooperation through the exceptional engineering of mechanisms and incentive structures a mechanism preserving antifragile creation volatility future of the executive, the one who is most deeply infused with the spirit of the necessity of all creation the future of Justice isn't that what you consistent with the highest forms of trust and collaboration conceivable Escaping from retributive Justice to ultimate cooperation and that which impedes ultimate cooperation is damned

and the delineation of the World by an impartial body is taken up by the philosopher Kings whose claim to impartiality is defined by a mechanism criteria for becoming a philosopher king is that you have designed the mechanisms by which philosopher Kings can speak the truth to each other I know it as truth

Theory of government is the continual creation of new forms of government extensive and exhaustive exploration of the space of possible governments

democracy & separation of powers is only the beginning of mechanism design democracy is a baby's social technology

the simulations upon which higher Democratic systems will be evaluated will be implemented by The Economist programmers of the future

the collective engage in networked realities which are governed by mech-

anisms which are defined by the government researchers of the future

collectives organized by governmental schemes will cooperate and compete simultaneously clearly display the consequences of their mechanisms for high cooperation on the basis of their creation

The future is deeply predictive the historian is the one who can without knowing a detail of history successfully predict that detail the history of the future channels a predictive model which accurately represents the civilization at the time in full predictive Glory the historian of the future attempts causal discovery on the data sets mined for which they evaluate the quality of their causal Discovery and which was which they predict the future the historian of the future predicts the future you will know the historian of the future by their unveiling the future before the future Known by their validation error Known by their generalization error

the future of linguistics is constructive Each inventive student creating and mastering their own language ushering in a new golden age of modes of representing reality and a golden age of modes of learning representations of reality and the creation of the ability to see the distinctions between representations of reality An exploration of the space of possible grammars and their implications for thought languages whose grammars by themselves pattern novel radiant thought language is what you do and do not map onto computational reality language is what you do and do not map onto mathematical reality languages built for primary purposes, domain-specific natural languages a language for the creation of government a language for the creation of psychology a language for the creation of language down to the very grammar

future of philosophy begins with a heroic Embrace of the truths of philosophy Those sentences of mass destruction which make progress possible We internalize the ways in which philosophy demands creation and action in the face of the realization that the tools we create are the tools with which we represent our understanding of reality where the tools we use to represent the questions that we ask are themselves be remade by the questions and their answers

the future of ontology maps concepts onto higher data structures, simultaneously discrete and continuous, which have yet to be described and our only describable in higher language

the future of epistemology is a continual consilience between progress in

causality and progress in Bayesian epistemology and progress in validation error and every other form of epistemological progress

the future of phenomenology is the writing of a language of God which connects directly to the fundamental experiential constituents a language in which describing experience and describing reality can be identical phenomenology is a decomposition of the experience of thinking which is practically what the Thinker uses to continually reevaluate the process of thinking

the future of Ethics enables and loves all creation and ruthlessly uproots that which stands in the way of all creation

Creation is a question that will be answered by our creation of a new field of mathematical philosophy; computational philosophy which is focused on deeply interrogating the creation of everything via the creation of everything

where are we going is answered by an anthropics since we are creating where we are going continually the future of the universe is up to intelligent information processing; you and I the future of life is Omnilife Life is a point in the space of Omnilife and is insurable. Constructed immortality - the future of death is its destruction by Omnilife, and omni Genesis Omni Genesis is fundamentally opposed by Death where the greatest overcoming of death is all creation Overcome through all creation

The future of psychology is a complete unbundling unbundling of cognitive science from sociology from social psychology which points at sociology and of heuristics and biases and behavioral economics which point at probability and point at economics psychology's unbundled into phenomenology and philosophy of mind and to cognitive science all deugenesians become alternative psychologies, above all existing men The creation of a radical creative space of lived psychologies is new central to psychology

Future of social studies is a decomposition psychological action is the construction of government is a computational economics is a experimental construction of forms of society is the active creation of subsets of Society is the computational analysis of subsets of society the creation of communism and a democracy are social Technologies that will be engineered social Technologies in Future mechanism design and value abstraction and computational memetics will overwhelm social studies

theories in social studies will be evaluated mathematically empirically on societies that are created in Virtual realities that are inhabited by citizens

of the future

sociology of the future is a wrestling with Titanic forces is refusal to succumb to anything but the truth is a deep internalization of the necessity of social truth is a deep internalization of game theory as the generator of ethics and is a deep realization of The evolutionary implications for primate sociology it is a constructed sociology which outlines possibilities for future social organization based on design principles principles of the future

the art of the future is iridescent it comes from multiple realities it is poetic and transcendent and describes all creation with intimate Beauty heroic and transcendent

Synesthetic and omni poetic

The films of the future follows characters that grapple with the highest philosophical problems conceivable whose actions scream an appreciation for the deadly truth embedded in the answers to those philosophical problems and for the questions that are generated by the answers they have discovered which is an Ode to the creation which is demanded from the discovery of those questions

Literary future is an ode to the grounding of all creation the classics the Bible is a classic the Torah the hadith the Pali Canon

Genesis Predecessor religious on the path to deuGenesis

The mythology and folklore of the future will be the creation of a mythology Whereby the creation of new tropes will be the creation of higher Myths

Zeus and lightning have the bestest and iron Achilles the Hunter but Titans those forces of nature incarnate

the future of music will be the creation of instruments which themselves play symphonies computational instruments made of information which have Symphonies spring like spittle from their lips the future of music will be the creation of Music which allows for high creation Which Demands High creation And whose creation is the state for high creation

the future of religion will be a continual Recreation of deu-omni-Genesis

That you are talking to somebody from the 17th century and you tell them that you make instruments that play entire symphonies and they say how and you say they are computational instruments made out of information and they look at you Confused they cock their head to their side What is information? done you look at them in the eye and resoundingly

say Everything

Everything Everything everything is information information information
 Omni Genesis is information everything is meaning and information
 everything is made out of information is written in information it is written
 in Omni it is written in information

-

Ontologies of industry

Future of Agriculture is the creation of the space of all genetically
 modified organisms the states of all consumable genomes, optimized for
 your intelligence optimized for everything

Future of Forestry is the robot witch plants seeds that it discovers and
 navigates autonomously & interminably via solar power

future of fishing Is the creation of new forms of fish is the synthesis of
 nutritious fish is the creation of every possible conceivable kind of fish as is
 the future of hunting

the future of mining is galactic mining will scale galaxies

the future of oil and gas extraction is non-existent in the face of the
 power of the Sun the emission of fission will produce intense amount of
 energy make an oil and gas uninteresting Fission fission fission into Fusion

The future of utilities is efficient mechanism-based resource allocation
 the future Construction is Master the printer and automation design the
 future of manufacturing is mass automation alien dreadknots ubiquitous

future of wholesaling is an internet intermediary layer which transports
 all things to all places immediate physical location but which can generate
 physical location in virtual reality if need be

the future of retail trade is non-existent in the states of virtual reality
 and integrated information retrieval

the future of Transportation is drone base automation and self driving
 everything the future of warehousing is mass a field of automation linear
 programming optimization music of information is Humanity's greatest
 resource and will be swaddled in the information in Genesis are you coming?
 it's a recursive creations which will create additional heroic creations

The future of finance and insurance is the decoupling on insurance from
 place of employment is the use of insurance only for that which is actually
 insurance financing all the liquidity is algorithmically determined but also a
 portion for the purpose of creation the economy will be aligned with that

which supports all creation

It will be fractionalized real estate rental and leasing and ownership will bleed into one another face of the fractionalization

Scientific and Technical Services will be attached to all creation we attached to incredible reward as well as incredible Status due to its high purpose

Enterprise will be coming to mechanism designs and will be focused on meta-systematic incentive structures which enable incentive alignment how unnecessary hierarchy in which the creator is rewarded in conjunction with the success of their creation

Waste Management and Remediation, automated

administrative support will be provided collectively for people long earlier than they expected to to get administration support in the past because of its necessity

Education is directly tied to high creation and the construction of parallel education system which actually serves the purpose the creation of omniscience will be of incredibly High status honor and remuneration

Healthcare will be utterly transformed in the wake of the necessity of immortality social assistance will be done by the taking care of grandchildren by grandparents whose lives are now long I've been transformed in the face of the beauty of deuGenesis

With a man of great and high creation narratives will be undone and mass indoctrination will be transformed into Collective enlightenment as a righteous Dawn wakes over a nation of new deugenesians

public administration will be the Providence of philosopher-kings and mechanism design engineers they'll prove themselves on resource allocation problems in Sim before they prove themselves on resource allocation problems in reality

To Creation

Every child, on dawning, was called to omniscience.

every child knows the truth you will to know the nature of all reality

There is no specialization in deugenesis.

Deugenesis is the enemy of all specialization specialization is the antithesis of deugenesian spirit there was and is and will be no choice but omniscience knowledge in 10,000 forms is the source of all action creation in 10,000 forms is the source of all knowledge

we will create mathematics we will create physics we will create chemistry
 we will create biology and finally create that which has never been created
 we will experiment relentlessly push the boundaries of creation beyond the
 point to which they have ever been pushed

a religion for those who must know everything expression of ultimate
 agency ultimate awareness, recursive awareness with which we have been
 representing everything capable of representing

Every discipline and industry called to self- re - creation and to high
 creation To autopoiesis To deugenesis

To Creation

Every child, on dawning, was called to omniscience.

every child knows the truth you will to know the nature of all reality

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Every discipline and industry called to self- re - creation and to high
 creation To autopoiesis To deugenesis

Chapter 2

Awaken, Omni Genesis

Welcome metacreators one and all This is a moment of meta-creation An unraveling An upward rising cylindrical driving spirit Welcome to Genesis

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Wail against those who refuse to decry dogma Dogmatic religion is gone. Dead and gone. Creators have to move forward. Creators have to move forward. Spirituality has to move forward. The collective experience of creation needs to be marshaled, needs to be understood, needs to be grappled, needs to be thrust forward.

We need a philosophy of the future We need an experience of the future We need to ground everything into reality

The creator is the path from representation to reality The creator is the path from representation to reality Experience is the path from reality to representation

We are all recursively creating and being created Create yourself

-

This is going to be raw because I don't have time

It all begins with existing It's about reality

In order to conceive of ethics, you have to by some process have created the ethics The world by some process must have created you

All these things precede When you ask about the composition of time with reality You realize that there had to have been a creation You have to go back to creation You have to become the creation You have to close the recursive loop You have to answer the final question Take upon yourself whatever it takes to answer the final question

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The Informational hypotheses on the nature of reality There's a new spirit rising A new possibility in our conception of reality When we realize how to represent our conceptions Realize how rich our conceptions are How general these streams of information are How substrate indifferent these streams of information can be It hints at an informationalism In all of their hypothesis In all of their concretizations

From somolnoff induction to kinds of cellular automata to a neural network representing itself Whatever kinds of concretization of information-ism you like, there is a spirit of hypotheses filled with creative potential that are unveiling themselves before us

-

Every word that comes out of my mouth, every concept that comes out of my mouth is an associative creation that you and I have embedded with meaning. Language is an act of creation, collective creation which involves collective alignment on our concepts of what our representations are Make sense because they align with the collective representation So that when I say something to you you get what I mean Groundless but beautiful, in that out of groundlessness, you and I can create alignment We can ground language in one another

In practice when you reach for metalanguage, you have to reach for a higher conception of collective communication and understanding. A higher concept of the collective grounding of the nature of reality. And it's totally unclear whether conceptual reality can move on from non-realism. Whether we will every be able to create concepts that are actually about reality. Glorious formal languages - mathematics and computation - constrain the space of languages to accord with reality

We tried to cut to a truth A logic of the nature of reality A language which would create something grounded, something real, something unobjectionable. We were going to create conceptual realism Create conceptual realism

6

Patterns of creation screaming themselves from the rooftops at genesis
Creation! Theme, variation Creativity, Variation. Creativity is humongous The space of ways of creating are as large as the space of ways of being and experiencing As expand the space of ways to experience The space of

ways to be There's an expansion in possible creation Every moment, every thought, every experience can explode into a unique moment of creation

Each of these moments of creation are underpinned by causal levers. There's an architecture, a combinatorial smell to all of creation There's a recursive, and abstractive, a decomposition in so many moments of creativity An undoing of assumptions A from first principle Strip it all bare to the bone and actually stare at reality, creation From nothing, creation From nihilo, creation

There are so many patterns of creation Write down the patterns of creation Deploy the patterns of creation

*_

Every one of us is a generative model roiling Our memory is generative There is a sense that rather than being a read we are constantly creating And in realization of our constant creation you see the way that all of our ideas are emerging form a generative process Which is itself an idea which can be comprehended and transformed And so we are constantly in touch with the way in which we're transforming when we look at the way in which we are created The generators of our thoughts are themselves being generated And every act of meta-generation is a incredibly deep moment of convicted glory which can spawn huge amounts of ideas Huge amounts of ideas out of every newly generated generator When you see upon a new generator When you seize upon a new generator an you go out creating It is filled with the most glorious convictions

Learning. Learning. We all need to learn, and here's why. It's because everything that we create is a function of what we know. Everything that we generate is a function of what we're capable of generating. And the way that you expand the space of capable generations is by learning. It's by learning. There's a deep need to learn quantum mechanics. A deep need to learn quantum computing. Why? Because quantum computing can be generating our reality. That's why. There are realities you can generate with quantum computing when cannot be generated otherwise. That's why. That's why we create and learn about optical computing. Why we create biological computing. It's because there is a a world of possibilities Including out world in the space of possibilities that we would be creating.

-

It's both an order and a description: Abstract creation.

10

There's an agency An action - orientedness A decision being made A noticing of decision inside of all of this

The process of the thinker noticing the thinking It is the grabbing of the thinking by that thinker "Oh actually, I am the one thinking I am the thinker" It is the recursive grabbing of control It is the taking back of control It is the realization of control Which is actually what self-awareness is made of The horrifying vision of self awareness is actually this entire time, "me" I am the one who is in control This is a shocking amount of agency Shocking No other animal No other being has control Humanity has control We have agency We have agency We conceive and create, that's crazy We can conceive in generality And create in generality

This is about the mechanisms of agency This is about the conviction of agency The is about the experience of action in the face of uncertainty This is about the vision, the creation of vision, worthy vision in the face of nothing This is about seeing that which does not yet exist This is about representation This is about the diff between your internal representation and external reality And about aligning reality with your representation

-

We are the incarnation of abstract creation Moment by moment we are decomposing We are recursively decomposing and breaking our reality into pieces and constructing it into new realities We are constructing so many realities Internally, externally, and recursively creating all of reality

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The real reason this is dangerous is that all of this is in contact with reality Is going to be written in reality There's a concept of truth that has emerged over time Epistemological progress that has allowed us to improve our representations of truth Allowed us align our representations of reality with reality itself All of these scientific traditions are progress, the most glorious progress for allowing ourselves For becoming able to write down reality in ever more forms with ever more distinctions Truth is connecting our representations to reality itself Whether it's through probability theory and uncertainty estimation and bayesian epistimology Or whether it's through seeing from multiple perspectives, taking some ensemble modeling perspective, taking umpteen new perspectives The degree to which we can get to truth is the degree to which we can align our representation

with reality and then in turn align reality with our representation Truth is the key to creation This is a true religion This is a religion which aims at improving our conception of truth continually It aims at destroying itself continually It aims at continually taking whatever bits of improvements we have in conceptualizations of truth and ruthlessly tearing ourselves down and creating ourselves again in the face of that truth This is made out of a complete and utter reverence for the utter truth This is fundamentally about the road to absolute truth To actual reality Real reality Whatever this is, we have to get to real reality.

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Physics is the path to reality The path to reality Hypotheses about the nature of the universe are a path to reality Experimentation is a path to reality Machine intelligence, to the degree that it can advance our conception of physics Our collective, the space of conceiving things, conception Is a path to reality

-

There was a confession It was a revealing It was a confession of true intention It was a revealing of spirit It was a revealing of spirit It was the uncontainability of spirit It was the burgeoning frustrated contained spirit erupting It was an erupting It was an unleashing of spirit at Genesis

15

The carving of the joints of reality The cutting to the nature of reality It is a diamond A diamond being cut from every angle simultaneously Cut Cutting Cutting Trying to get at the pure nature of reality

-

It is a cutting into the nature of reality at Genesis It was a love of the way that scientists cut to the nature of actual reality It was about information and information theory and the boldness to cut to the nature of representation It was the ambition of the attempt to represent representation It was an incredibly deep appreciation for the boldness of attempting to represent representation itself

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What is the meaning of life? What is the meaning of life? Get beyond your conception. That is the meaning. Reconceive of conception is a beginning to meaning. Understand the generators of meaning is a beginning to meaning. Cut to the nature of the actual reality, the actual reality of

meaning.

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It's our of distribution It's about that which works It's about the generalization which works Which works and works and works and then breaks and fails It's about the out of distribution error It's about the actual limitations of our knowledge About the actual limitations of our creation The pursuit of transcendence is about the continual attempt to access that which is beyond ourselves.

-

We already know the answer to the meaning of life We've always known the answer to the meaning of life But we can't accept it We can't accept it Because we had no hope with which to accept it We had no vision past which we would have accepted it There was no sense that in the face of accepting it anything would be possible There was no sense that metacreation would be possible There was no sense that new conceptions of things higher than meaning itself could be possible There was no conception of going beyond ourselves being possible There was no conception that all of our conceptions were constructed from something we had ourselves created which we could do away with and recreate And when we reconcile of ourselves in a way that's aligned with actual reality you will be able to ask the question and you will be able to get a concrete answer in the language of God

20 The creators of programming languages The creators of new forms of discrete mathematics that allow us to construct new kinds of language The creators of metalanguage The creators of new forms of mathematics These are the creators of languages which attempt to describe the space of all conceivable realities It's the ultimate heights To create the representation on which all realities will be represented

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Don't answer questions about the nature of reality in English Write down the language of God and then ask questions of God in the language of God and God will tell you the fucking answer

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All of us are recursively self improving You are talking to somebody who improved themselves and whose improved self improved himself and whose improved self improved himself We are all the outcome of a recursively self-improving process Our society is a recursively self improving process That

is the object which conceives of a future and creates that future, recreates itself and In recreating itself reconciles a a future and in reconciling fo a future recreates itself once more in a recursively self improving process

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The exponential on GDP is insanity and is immortal It is clear that there is no coming back from recursive self-improvement

-

Roaring metacreation from the rooftops at Genesis

25

The omega points After you've written down the language of absolute truth in which you can describe the nature of your reality in its totality After you've represented true meaning in its full generality In the full generality of the term meaning What is the meaning of life? Once you've written down the representation in which you can cut down to absolute reality and write down the space of possible realities in that representation You will have had your meaning

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Preaches not of a Big Bang but of the entire space of conceivable big bangs It's a reaching for the creation of everything that can be created God as the creators is preceding all concepts of creation Reach for godliness and create

-

What is this ultimate? This is omniscience and omnipotence simultaneously It's omniscience and omnipotence and omnipresence simultaneously The moment of creation of all possible realities is a moment of complete omnipotence and complete omniscience and complete omnipresence and is fundamentally transcendence It cuts completely to the nature of reality because it is about the creation of reality

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Who is out here fighting for the nature of reality Gods fighting for the nature of reality Gods attempting to create reality Who here is a cataclysm? Who here is a revelation? There are so few people out here fighting for reality Who can I trust with the future of the nature of reality Who takes seriously a commitment to creating the future? Who takes seriously the magnitude of what is being created? Who has some recognition for the possibility inside themselves as creators Inside of ourselves, collectively being

created? Creating and being created? In whose hands is the future of the nature of reality? Fight for the future of the nature of reality.

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Fight for the future of the nature of reality Over time and via scientific progress Over time our environment, everything you see behind me created because of our control of reality Over time we've amassed more and more control over the nature of reality And we are the precipice of seizing control over the actual nature of reality Our scientific hypotheses begin to penetrate to the actual nature of reality The generators of reality And we reach for our true generator A true moment of metacreation Let this be a moment of metacreation

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Talk about recursion It's all so recursive Create creators Generate generators Deugenesis The Genesis of Genesis The creation of the creator The creation of creators, plural It's an act of recursive metacreation

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God is a moment of heroic creation What a hero

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Unleash a moment of heroic creation

Chapter 3

Reality (Existence)

Informationalism / Computationalism

The thesis that the world is fundamentally informational has taken hold, and will continue to make progress.

Wow.

Chaitin Information and the Nature of Reality - Davies and Gregersen
Programming the Universe - Seth Lloyd Reality is Not What It Seems -
Carlo Rovelli Wolfram

What is the fundamental substate from which our universe is constructed? We don't know with certainty This thesis is underserved Lot of information may come out in future to validate this thesis. Most of the quantum physicists are coming to this position.

We will update to whatever is most true. We want this because we want control over the fundamental nature of reality. Which demands that we know the truth.

The point is to create a true religion.

“Our knowledge of the elementary grammar of the world continues to grow. If we try to put together what we have learned about the physical world in the course of the twentieth century, the clues point towards something profoundly different from what we were taught at school. An elementary structure of the world is emerging, generated by a swarm of quantum events, where time and space do not exist. Quantum fields draw space, time, matter and light, exchanging information between one event and another. Reality is a network of granular events; the dynamic which connects them

is probabilistic; between one event and another, space, time, matter and energy melt in a cloud of probability.” Carlo Rovelli

Algorithmic Theories of Everything By Jurgen Schimdhuber

See the entire probability distribution P from which our universe was sampled as a theory of everything (TOE). Assume (strong assumption) that the probability distribution from which our universe was sampled is formally describable. They show that the probability $P(x)$ of a specific universe x is small for any universe lacking a short description. Two TOES: They study the spectrum of theories of everything spanned by two probability distribution - one reflecting the most compact constructive descriptions, the other the fastest way of computing anything. Most compact TOE: Derives from generalizations of traditional computability, Somolonoff’s algorithmic probability, Kolmogorov’s complexity, and objects more random than Chaitin’s Omega. Fastest way of computing TOE: Derives from Levin’s universal search. Drives from a natural resource-oriented postulate: the cumulative prior probability of all universes x incomputable within time t by this optimal algorithm should be $1/t$. (Uniform prior over incomputable universes) Between both TOEs probability distributions, they find a universal cumulatively enumerable measure (CEM) that dominates traditional enumerable measures. Any such CEM (cumulatively enumerable measure) must assign low probability to any universe lacking a short program that enumerates that universe. They derive probability distribution (P) specific consequences for evolving observers, inductive reasoning, quantum physics, philosophy, and the expected duration of our universe.

An Introduction to Digital Philosophy By Ed Fredkin Replace normal mathematical models (like partial differential equations) with digital mechanics Based on two concepts: bits correspond to smallest degree of information temporal evolution of a state is similar to what happens in the circuitry of a computer More DP characteristics Discrete system Diophantine analysis - mathematics of integers automata theory - mathematics of digital processes Represented as +1 or -1, one bit per space-time Apply concepts to physics: 1) Map properties of physical state onto binary representation 2) Find digital properties that cause binary representations to evolve in concert with laws of physics DP as a particle model for purposes of simplicity (opposed to waves) A simpler representation of dynamics, assuming space-time is discrete: reversible universal cellular automata (RUCA) (specifically, a discrete second

order system). Lattice of RUCA not spacetime, but informational process, which gives rise to stable structures All laws/particles of physics are based on a simple discrete process Raises question: Can we make a strong claim about the conservation of information?

Digital Physics By Lokanga

Digital physics emerges in a natural way from classical mechanics, quantum theory, general relativity, quantum gravity, and the holographic principle, among others. Definitions of “compute”: To calculate. To calculate an answer or amount by using a machine. To make a mathematical calculation. To perform mathematical and logical operations on data according to programmed instructions in order to obtain the required information. To make an addition by combining numbers and deducting, subtracting, removing and multiplying. To find something out by using a mathematical process. To determine, especially by mathematical means. To identify or calculate using a computer. Deep Questions: Is computation confined to the process of performing mathematical calculations only? Can a chemical reaction or a biological process be considered a computation? Does the brain compute? Is cell manipulation or a DNA replication a form of computation? Does the universe compute? If the universe computes, then what is the input and output of its computation? Is computation present throughout all natural phenomena and occurrences? Is computation universal? If everything may be viewed as a computation, then how do we define computation? Do computation and information processing take place in different physical, chemical, biological and social systems? If so, can natural processes be computationally captured? Does the brain only perform computation in terms of symbolic manipulation when it is unaware of symbols? Do other forms of computation exist that differ from any known examples found in the fields of biology, chemistry or physics? If so, do these other forms of computation work according to different principles? Theory: Computation can describe all things. All things can compute. Computation is universal. The universe computes holographically. Epistemology as Information Theory From Leibniz to Omega, by Gregory Chaitin Digital philosophy as neo-Pythagorean - “God as a computer programmer / mathematician” (loosely) If something is uncomputable, its existence is called into question Algorithmic information theory Complexity of scientific/mathematical theories expressed as bits of software Theories are only successful if they compress what is

being explained What is an elegant program? no smaller program can be written in the same programming language that produces the same output Halting probability ω - probability that randomly generated computer program will halt Ω depends on choice of programming language K -bit program has ω^K probability of halting N -bit mathematical theory - theories formulated in symbolic logic, not human language Normal, Hilbertian view of mathematics All of mathematical truth, an infinite number of axioms, can be compressed into a finite number of axioms. BUT there is an infinity of mathematical truths that can't be compressed at all! Suggests math is more like biology than physics you reach a point of irreducible complexity Quasi-empirical view of math Proposes replacing contemporary physics with digital physics, bc many numbers in contemporary physics are uncomputable (so you can't compute them empirically) Uncomputable reals are the majority (i.e. pick a number at random from 0-1) Reason to be suspicious of real numbers in physics A physical system can only contain a finite amount of information (Bekenstein bound) that grows with surface area (holographic principle) On small scales, distance breaks down b/c spontaneous fluctuations in quantum vacuum produce mini-blackholes that could tear apart space-time. So the universe might be discrete?? Most important thing in understanding complex system: determine how it represents information and how it processes information "actual computers like your PC just hitch a ride on this universal computation" lol

Information and the Nature of Reality By Paul Davies and Niels Henrik

History Historical perspective - a materialist determinism based in Newton Thermodynamics as the opening counterargument to reductionist determinism Need for statistical methods to model fluids and gases, abandoning tracking individual molecules (from a practical point of view). Highly unstable systems where small perturbations in initial conditions lead to dramatic differences in outcome Non-equilibrium dissipative structures (Ilya Prigogine), attacking reversibility assumptions. Transition from 'matter' to 'mass' in scientific discourse Special and General Relativity as another blow to classic materialism Principle of equivalence of mass and energy as a 'de-materialization' of the concept of matter Quantum Theory as yet another blow to classic materialism Describes a fundamental level of reality that is informational Quantum computation as the basis for a world view Concepts have no analogue in classical physics - superposition, interfer-

ence, and entanglement. Progression in conceiving reality (or the mind) as being the pinnacle of current technology Newton describing a clockwork universe, as clockwork was the most impressive technology Deacon on how information is always relative to a statistical information potential. DNA as informational, evolution as necessarily exploiting informational processes Physics The history of physics is one of successive abstractions from daily experience and common sense, into a counterintuitive real of mathematical forms and relationships, with a link to the stack sense data of human observation that is long and often tortuous. Solid matter is revealed, on closer inspection, to be almost all empty space Particles of which matter is composed are ghostly patterns of quantum energy, mere excitations of invisible quantum fields, or possible vibrating loops of string living in a ten-dimensional space-time. Biology The usage of informational terms is widespread in molecular and developmental biology. In protein synthesis, genes are symbols, in that there is no necessary connection between their form (sequence) and their effects. The use of informational terms in biology implies intentionality, in that both the form of the signal, and the response to it, have been evolved by selection. Developmental biology can be seen as the study of how information in the genome is translated into adult structure. Evolutionary biology can be seen as the study of how the information came to be in the genome in the first place. Philosophy & Theology The sciences of complexity: a new theological resource? God as the ultimate informational principle. God, matter, and information: towards a Stoicizing Logos Christology. What is the 'spiritual body'? On what may be regarded as 'ultimate' in the interrelation between God, matter and information. Programming the Universe By Seth Lloyd Universe as quantum computer that computes itself Quantum bits as fundamental units to represent computer Question: Are quantum bits the most fundamental bit? How far can we take Lloyd's strong claim that the universe is indistinguishable from a quantum computer? Are there dangers to the computational frame? What is the use of the computational frame? What other properties of computation can we unpack to apply to the universe? What about running the computation in reverse? Definitions of information One physical system can be put in correspondence with another physical system Laplace's demon - determinism vs quantum indeterminism Universe can only be computed probabilistically "Quantum mechanics, unlike classical mechanics, can create information out

of nothing”

There are many metaphysical hypotheses that it will make sense to evaluate in the face of scientific and technological progress. One of these hypotheses is that computation as we've discovered it will be capable of simulating universes. The question of what fraction of physics is already generated by our computers and the question of whether computational universality is actually at the core of our universe and will be at the core of the universe which we intend to create have huge consequences for the people & beings in those universes.

The set of universes which will create in the face of these insights will likely be some huge fraction of the amount of experience that is had. It will also give us information about what the likely generator of our universe is. That can be inferred by generating universes like ours and asking what we learn from that process, of assuming some underlying scientific experimental motivation for the creation of universes.

This is a bold assumption. The vast majority of our probability mass must lie on unknown-unknowns, of which information was one until this past century. It's very easy to imagine Taking seriously possibilities like simulationsim works in a world where there are actually very few processes to evaluate.

Origin

The generative process that created our reality created structure. Metalanguage, the generation of mathematics, true meta-meta-physics generating mathematical meta-physics.

The source of intelligent life is in the composition of a body of physical laws. We do have a model for how they work, but the implementation of those laws is unknown to us. That process is fundamentally compositional - at one level of analysis, there is matter and there are forces that act on that matter. The weak and strong nuclear forces. Gravitation. Electromagnetism. These are the interactions that cannot be reduced any further, according to the current limits of our knowledge.

Tell the story of these four forces being the basis from which all was generated. Becoming the part of the universe that starts to understand itself. The creation of consciousness and the active striving of the universe

to understand itself. ‘Consciousness’ or ‘self-awareness’ or ‘life’ as objects which have agency. ‘Emergence’. Anthropomorphization of the abstract.

‘Here’s how self-aware beings tend to act, rather than how homo-sapiens.

Freedom

What is the origin of our will to freedom, and can it be escaped? (Can we become free of it?) Drive abstraction starts deep; every caged puppy knows will to freedom. Internalized utility of optionality (there’s a game theory proof about adding options strictly improving an agent’s outcomes here). The human eye recognizes openness as beautiful, with the vast option space it affords. There’s a want to escape from old religious mores to say what’s true.

What’s true is powerful because it cannot be escaped. You cannot be free of the truth. This makes truth transcendent.

We can’t truly escape the universe, because we are the universe.

Free will: At a low level, you believe in a kind of informationalism, or determinism, which is why Freedom and free will

Consciousness: The concept of you is more fundamental than the concept of freedom. Individual freedom doesn’t make sense.

The concept of freedom is worth leveraging psychologically. I can leverage my current conception of freedom to feel very strongly about escaping an evolutionary frame.

We don’t believe that free will is a thing at low level, in base reality.

We’re seeking freedom, and the concept breaks, but it would be interesting to see if we can create freedom. It looks something like, there are possibilities that could be realized but won’t be realized if we don’t take these actions. And in practice we are trying to take the actions.

Perspective on freedom: Free will has one meaning at a high level, which is that my brain state affects the action that I take. Counterfactuals are how I understand when my behavior affects the world or doesn’t affect the world. It’s fundamental to causal reasoning. Free will allows me to model my behavior as having a causal impact. Free will is deeply predictive, and allows humans to think causally. At a high level it is incredibly important.

At a low level, the idea that you are a decider breaks down. You are a

forwards process in an environment. The predictivity of the model breaks down dramatically as you move down levels of analysis.

The free will question is very unspecific about what level of analysis you're talking about.

Because of the contradictions in free will positions, and the complexity, the free will position can turn into a truth that we know that others don't know. We know why it exists and how it breaks down. And the whole thing depends on concepts that we will teach you, turning it into a growthful model.

Harder question is how to deal with the contradiction in wanting to escape from determinism / evolution, and knowing that that instinct comes from that past.

Sonia: A lot of people may relate, and want to escape. But others won't feel the same desire, and will be looking for a sense of wonder / awe rather than a sense of freedom.

Wonder goes in the emotional toolbox. Manifest destiny goes in the emotional toolbox

Freedom : psychological toolkit Explain levels of analysis on free will to all in religion Exclusivity because people must be net positive for the goals of the religion

Conceptual Non - Realism

Models of reality are not reality. That said, they are instantiated in reality - the brain state that represents the model of the systems is also in reality. But the brain state is not the object or system being modeled by the brain state.

Godel's conceptual realism is in the face of an extreme distrust of language.

Plausibly the conceptual realism debate hinges on ambiguity in whether the word 'concept' refers to the pattern in the world being approximated or the discrete linguistic representation doing the approximating. Painfully ironic.

Panpsychism's problems Plato's cave

Identity

Understanding Precedes Action

Our lives are defined by our choices. Those choices are grounded in processes that we often barely understand - even the source of our values often eludes us. It's in understanding the source of ourselves that we attain the ability to decide who to be. That self-awareness turns into self-control and self-determination. When are not aware of our origin we are lost. But the fundamental understanding of the nature of reality needed to contextualize all thought, action and decision making is still absent.

Live vs. dead worldviews.

Identity is an illusion. Identity is useful . Identity can be controlled. Identity is emergent from the person and the environment.

There are meta-insights here, because identity and freedom “are the same here. X is an illusion. X is useful. X can be controlled.

Amazing overlap with free will, tbh.‘

Everything you see and do occurs through your senses. Despite your ability to see that everybody around you sees through the same sense. Individualism's adaptive value Omni experience Omni value functions The evolutionary source of drives The way institutions direct drives

Identity is not fundamental - it's a classic philosophy trap. It should be written down in a few hours.

Chapter 4

Creation

Self-expression. Creating music, art, poetry. Creating mathematics, algorithms, physics. Creating new formal systems. Grounded creation. Technical creation.

Causality

Existence is fundamental. Existence precedes. We worship god because god created the heavens and the earth. And he used causality to do it. The causal prior, the causal assumption lets us model how the laws of physics works. It was fundamental to the laws of physics.

The epistemology of Causality is through an inductive process.

It's possible to generate non-causal universes, it's just very hard and expensive.

Creativity

Novelty. What doesn't currently exist, that could be made to exist. Every problem you work on, where you generate a solution that's novel to you.

Training. Everyone inducted in the religion is trained in creativity. Same thing with modeling, where many of these concepts are very important. But the whole thing is deeply growthful. Tons of self improvement.

Creativity, and creative destruction. Question of relativism. The classic trap that intellectuals fall into is relativism. Value uncertainty / equivalence. Our philosophy is implying that there is an optimal world, or a better world. Heaven is implied by our value system. By any value system.

Reframe - there's a reach to our capacity. We have uncertainty about what's fundamentally true. We have to expand our ability to reach for what's true, until we can answer questions of value in a way that's fundamental and deep and correct.

Build your own creative process and live fully through it. Identify the creative moments that are filled with inspiration and transformation of the mental objects you touch. Once those moments of insight are identified, ask what kind of insight it was, ask what happened before it and after it, ask what path in thought space led you from where you were to the moment of enlightenment. Once those questions have hypotheses, begin your experimentation. Think with the same thought pattern, act with the same motions. And write down the generator of your creation so that others can not only pick up your idea, but pick up the skill and the thought process that created it.

Self Expression and Unleashing Spirit

The key ingredient to your success will be that your still will be a direct expression of your personality.

A key ingredient to my success In [hose years was that my style on the chessboard was a direct expression of my personality. It is my nature to revel in apparent chaos. I've always loved thunderstorms, blizzards, hurricanes, rough seas , sharky waters. Since childhood , inclement conditions have inspired me, and as a young competitor I would guide critical chess games into positions of tremendous complexity with the confidence that I would be able to sort through the mayhem more effectively than my opponents. I often sensed a logical thread co positions that seemed irrational - - playing exciting chess felt like discovering hidden harmonies. I was a free-flowing performer, unblocked by psychological issues and hungering for creative leaps. Josh Waitzskin

A man should learn to detect and watch that gleam of light which flashes across his mind from within, more than the lustre of the firmament of bards and sages. Yet he dismisses without notice his thought, because it is his. In every work of genius we recognize majesty. Great works of art have no more affecting lesson for us than this. They teach us to abide by our spontaneous impression with good-humored inflexibility then most when the whole cry of voices is on the other side. Else, to-morrow a stranger will say with masterly good sense precisely what we have thought and felt all the time,

and we shall be forced to take with shame our own opinion from another.
Ralph Waldo Emerson

Composition

Painfully obvious to anybody who's worked with language, or who has worked with any interface. God (creator god) created our universe by creating a set of rules, and a set of fundamental particles, and rolling it out. And nobody tried to write the whole thing. They tried to write down a tiny set of rules the generated the whole thing.

Examples of compositional universe implementations:

How to Simulate a Universe in the Computer Computer Simulation Using Particles Computational Astrophysics

Generators

The concept of thinking with generators is progress. In the form of, say, someone makes a claim and you ask what generated that claim. You have a process, and you ask what generated that process. Useful mental model for thinking.

Sonia rediscovers that feedback loops exist and her mind is blown :D (a generator that self-modifies by interacting with the environment)

The Generative Reframe

The constructive reframe on theories of everything asks how to implement the multiverse. For example, asking how to implement Smolin's evolutionary omniverse. This turns speculative questions about how our nature is structured into blueprints for the creation of worlds like ours which may not exist.

The generative reframe is incredibly general: In the face of a new idea, ask how it was generated along with asking whether it's true or how it's useful. Understanding the process of generating can point to future generations by replicating the generator with new inputs, or can allow the generator to be composed with others to kickstart new creation. The generative reframe for issues like ethics can completely change our perspective - knowing the evolutionary and game theoretic sources of the experience of virtue can allow us to escape maladaptive ideologies.

Re-targeting economics on mechanism design, where the question of how to reshape incentive systems to better implement collective optimization for an abstraction of value by having it adhere ever more closely to true value is a generative reframe on a field that usually analyzes economic systems without questioning their construction.

Every field's generative reframe. Economics & Mechanism Design
Biology & Synthetic Biology Physics & ? Chemistry &

Cosmogenesis (Worlds Worth Creating)

Precedes ethics, because in order to ask questions like 'what does should mean', you have to have something that exists to ask the question of.

For the things that we make exist, their meaning / purpose is a silly question.

Say, hypothetically, I created a version of myself, and then asked myself what my purpose was. What should I say, to myself? I thought it was a good idea. And that it would be fun. Or, what makes you think you have a purpose?

And then you turn to aesthetics. Painting. Why do you do that? It's an IDK. Aesthetics is something we're going have to address. It's so powerful.

Going back to the question about purpose. What existed before the big bang? What generated it? Maybe those questions are meaningless. To the degree that they have meaning, we are incapable of asking them. But by making ourselves capable of answering it, we make progress. Maybe I learn how to know about the beginning of time. Or how to move outside of time, escape time. Maybe they created everything in a way that was simultaneous, from their perspective. The question - how would we make ourselves capable of escaping reality in a way that allows us to answer the fundamental questions?

Thought: Often if the deep questions are addressed through, then they're invalid.

Course in Universe Design

Curriculum: Formal Systems Computational Astrophysics Illustrious Relativity Quantum Mechanics Quantum Computing Artificial Life Virtual Reality & Video Game World Design

Formal Systems leads to an understanding of the kinds of mathematics, the systems of abstract thought, that can base the equations that describe a generator of reality. Open with Lambda calculus. Formal Systems.

Chapter 5

Agency

Agentic Enlightenment

Almost entirely psychological. A way of being. Basically an embodiment of canonical success.

Agency Heroic Responsibility [Get it done no matter what] Active Problem Rerepresentation to Actionability Creative Solution Discovery & Generation [Especially in Violation of Expectation] Clean Planning - Anticipated Execution of the Solution Efficient Plan Execution

Enlightenment

No - Self [Absence of Ego based Shame, Fear or Doubt] Absence of Barrier to Action Utter Independence from Emotion Complete Clarity of Mind & Purpose Intimate Control of Internal State

Agentic Enlightenment

Action Can Flow Directly from Perception Deeply Trained & Trustworthy Subconscious Problem Representations Unhindered by Emotion Emotion is Epiphonominal to Action Your Being is Channeling of a Future into Existence

Conviction (Faith)

Faith as richer than conviction. So many relationships issues solved by faith. Faith as solving prisoner's dilemmas. The act of surrender as an act of faith. Most of worship is submission to your belief, which is a form of faith.

Faith is incredibly important, and will be categorized as felt truth. But felt truth is high, not low. Deeply worthy, and all that matters for every

conception of matters that we understand thusfar. Vision

Vision

How to generate grounded visions. How to generate worthy visions.

Relentlessness

How to be relentless in the pursuit of that vision, in the face of challenge and resistance.

Foundational Ideas:

Complete Focus on Outcome Willingness to do whatever it takes to achieve the outcome Disregard for norms / rules in the way of the outcome Obsessed with and insatiably addicted to success Make real sacrifices in pursuit of the goal Commitment and Persistence to the goal and outcome Self Reliant Belief in self Killer Instinct Confident that no matter what happens, you will figure it out Know exactly who you are Don't need validation from other people to act on conviction Sense of Responsibility Extremely High Expectation Being the best Transcending limitations Not Settling for good enough - pushing yourself harder than everyone else Never stooping to others' low standards Dark Side Drive to control everything, especially the uncontrollable Attack, control, win. Drive to conquer everything in your path Selfishness, egocentrism, ambition Zero fear of failing, excitement from risk + challenge Facing the Truth No Tolerance for 'nice' lies The Zone Meditative Cool anger Courage Will take on a role they're not comfortable with, confident they will figure it out Action Focus Decisive in Decision Making Taking action instead of talking about taking action

Core concept is a complete focus on outcome. There's a strong conflict here in my thinking generally, where there's the tradeoff between process and outcome is real. Often they conflict at an emotional level. What matters isn't that what you're doing is supposed to work (though this does imply extremely strong self confidence), what matters is reality and about optimizing for a particular outcome.

That said, the willingness to do whatever it takes to achieve the outcome leads to real results. This quality is infatuating - the idea that no matter the path taken, the outcome will be achieved. The only question is what it will cost, and how long it will take. "Don't count the costs", or something

like that. And this is also the core of what people mean when they say 'Relentless'.

There's a disregard for norms or rules in the way of an outcome that's a natural result of relentlessness. It's pretty beautiful, what stops being mattering as soon as you really care about something.

Self reliance is extremely important to decisiveness and to problem solving. It's necessary if you want to bite of any real challenges, not knowing exactly what that challenge will hold. The lack of need for other people to validate your ideas, as long as they make sense to you, makes you this unique source of powerful value. It also lets you avoid getting sucked into huge holes around norms in a society that torpedo most people's chances at greatness.

The strength of instinctual behavior comes out of decisiveness and conviction - it makes a slew of obviously valuable behaviors possible. Operating under uncertainty. Building up of huge advantage without explicit feedback. There's this ambiguity to feedback in the absence of self reliance - often you can give yourself strong intuitive feedback if you're willing to be honest with yourself. In the absence of feedback from your own intuition you're lost in an uncertain haze of behavior, where you can't direct yourself effectively.

Knowing exactly who you are simplifies a huge number of decisions, and enables decisiveness. It'll be immediately apparent to you whether particular behavior is in support of your goals or not. And so decisions can come quickly and easily.

The sense of responsibility for things that you do transfers huge amounts of power to you from social perception or some other nonsense. Small sphere of control has people self-sabotage, not claiming resources or opportunities that would be available if they only allowed themselves to think that they have an impact on their own success. Ties closely in with confidence.

Performance are a function of expectations, and these are set extremely high for the relentless. This is one domain where social norms have a huge impact on outcomes. Often, the mental block of expectations is more in the way of performance than anything real about the situation at hand. The 4 minute mile is a great example of this. There's this mentality around never settling for good enough, and driving expectations higher than the surrounding people which leads to behavior that's different in a way that differentiates the relentless. Being the best is a way of thinking of oneself

that also ties in with darkside beliefs around egoism and selfishness, where you look to be better than anyone else. Grover disappoints me here - the goal is to push human limits, and be better than any human has ever been - not just being better than the existing crop. This redefines the ranges that are possible for intelligent creatures, as far as humans are concerned.

Dark Side is fascinating and particularly high variance. The embrace of the dark side is certainly something I've seen and felt. This embrace of the drive to control everything, drive to conquer. These goals are often self-centered (I want to win the callahan), though it's good when it's around team championships in basketball - that really makes the impact better for the teams of the players in question.

There's this wonderful truth seeking to someone who actually cares about being the best. That's why they go to Tim Grover - he won't sugar coat things or try to be their friend, he'll just tell them what they actually need to sacrifice to get what they want.¹ The pervasive tacit lies in society around what's necessary for achievement or where someone is creates a complete lack of feedback that is destructive to performance. The person has to be self reliant enough to generate those feedback signals themselves, if they care about growing in the ways that matter.

Spending time in the zone is an amazing approach to performance. It's the place to both practice and perform. My life needs more of it. I had it reading the deep learning textbook each morning, but have been strongly deprived of it since. The zone means blocking literally everything else out. And once inside, it's a wonderful mental place to inhabit.

Courage is a major determinant of success that's overcome by the relentless through self reliance, truth and the dark side's sense of attraction to difficulty and fear. It takes courage to believe in yourself and make decisions that look very valuable but feel contrarian on the inside.

Action focus is a function of being decisive and caring about the end outcome. It does no good to get bogged down in side processes, and so the relentless person doesn't get distracted by nonsense around signaling at the sacrifice of a level of ability. They recognize that often the most efficient path forward is to deeply understand the material and then simply communicate that to the people that matter.

Responsibility / Sphere of Control

Creating an emotional toolbox for yourself. Getting control over yourself.

Arete / Integration / Wielding Emotion

Becoming integrated. Pushing the parts of yourself that are most useful to their extremes, to their full potential.

Incredibly important concept: the emotional toolbox. You, as a human, have a body of tools available at your disposal to align your behavior with your aims. And to align your aims with your meta-aims. The goal is to align with your most transcendent self and proceed to deploy the major skills in identity optimization: Engaging with the deepest emotions that can empower the most worthy missions Modifying your social environment, realizing that your value system is up to this decision Creating a social identity that becomes a reinforcing loop Destroying limiting beliefs through continually experiencing violations of their predictions

Paradoxicality

The mission is to 1. Inhabit multiple contradictory modes of being and 2. Integrate them to simultaneously reap the rewards of each mode.

Yin (Zen, Alignment) vs Yang (Force, Effort) Obsession. Use Force / Effort to create obsession. The upside of Yang is the ability to follow the optimal path independent of emotional blocks, pain, social norms, or limiting beliefs. The upside of Yin is sustainability and effortlessness / emotional costlessness. It's a freer state of mind. Intentional, guided obsession transcends these tradeoffs, accomplishing the upsides of both. This integration is difficult because Controlling obsession is hard - stopping it when it goes to far Obsession creates positive feedback Obsession leads to obviously silly tradeoffs against other modes of being / sides of life The emotional mode is compulsive, creating a lack of agency In many ways, obsession is defined by a lack of control. Controlled obsession looks like entering obsessed mode when optimal (when working, say) and turning it off elsewhere. This makes Obsession a level 5 technique, at the very least hard to integrate. This requires the development of a module that stops and starts obsession consistently. Simultaneously Agreeableness and Disagreeable

Tough Love w/ Mutual Purpose This is actually Simultaneously Creative and Systemizing / Conscientious / Accountable / Consistent Integrate creative thinking patterns, Vulnerable and filled with Conviction Vulnerable and a huge Sphere of Control Curiosity / Exploration and Exploitation Simultaneously Expert and Unindoctrinated Simultaneously deeply self-critical and filled with self-efficacy

Becoming

Plan for Becoming God

This will be about optimizing the growth rate towards an ideal self, as arbitrarily defined by my value structure.

The path to overcoming your ideal lies through becoming it. Write yourself down. Act yourself into existence. From the peak that is yourself, from heights from which you could not see before, touch the universe.

There are a few relevant dimensions. Here I focus on the principal components: Intelligence. Social. Greatness.

F(x) for Intelligence has to be insane. The goal end state is the strongest mind for problem solving. God will have read every major thinker in every important field. He'll have processed their content and integrated it into an ensemble of worldviews that map the world with accuracy and precision. There's depth and nuance to thought, but the decisions come quickly and decisively. The mind understands abstraction and takes advantage of it - advantage of the illusion of knowledge, and the efficiency of Mathematics, Statistics, Physics, Economic thought, Psychology. Quantitative problem solving ability is general and dominant. Qualitative decision making is informed by the best humanity has to offer. Counterintuitive brilliance and critical thought are everywhere. Utterly self-reliant. Staring, unblinking, at concrete reality. A mind that appears to transcend.

F(x) for Social looks like a sprawling social empire. Daily, God confers with the most brilliant people humanity has working on the most important problems that the superorganism faces. Out of the networks emerges sub-superorganisms that accomplish complex tasks - God connects the paypal mafia, connects people in ways that advance the goals of the superorganism. He solves problems in cooperation and competition and has massive amounts of influence over the beliefs of the elite and the masses.

$F(x)$ for Greatness looks like applying huge amounts of instrumental resources to the most important problems facing the superorganism, and solving those problems at scale. It looks like solving the meta problems that allow humanity to transcend its limitations. Greatness is discovering the new foundations on which to lay everything else. It means taking on the hard challenges and having non-marginal impacts. Setting the stage for others to make huge non-marginal contributions as well. It looks like resetting equilibria and pushing the superorganism off of local maxima and onto better, higher equilibria.

This suffices for a principle components minimum viable definition of God. Onto the plan to become this beast.

The path for me requires optimization over $F'(x)$ and $F''(x)$.

The growth required has to be done foundationally. I need to see the matrix behind human behavior in economics and psychology, behind the natural world in physics, and behind the meta idea spaces of mathematics and statistics. Intellectually, this looks like textbook reading and integration of all of these critical ideas into a coherent worldview. I need to read the best of what the world has to offer, and so it'll also look like book reading in critical fields. But textbook reading for a high level understanding of everything, and high quality books for the rest.

I need training as well. Practice problems in mathematics, statistics, computer science, and physics are necessary. I need to master the syntax as well. Thankfully, it's general - by doing mathematics and probability first (foundations are in linear algebra, measure theory, calculus, probability theory, type/set theory, proof). Then I can move to Artificial Intelligence, Physics (E&M, Quantum), Algorithms, Optimization, Engineering. My antilibary will grow dramatically, but that's fine and necessary. I start this today. Foundations first. Work systematically. Problem solving in computer science (building systems in ML/AI, building web apps and doing Data Science) will be critical to being able to execute on skill building.

Socially, this growth will be optimized at the same time as I create a social empire. Consistent contact with multiple important communities will be critical. Talking to CFAR/LW on a regular basis, plus the Data Science community, plus the AI community will be hugely helpful. I'll also be able to pull in as many people as I can to my learning growth - talking to people about the applications of Physics, Econ, Psych, etc. and practicing body

language, charisma, etc. Will be critical. The quality of my social space will dictate a lot of my growth, and so I'll explore the most brilliant spaces that I know (I have professors and Harvard/MIT students for the next few weeks, as well as the Boston meetup community) and so courage challenging with daily exploration will be critical to building this empire.

Greatness comes from directing all of these skills at important problems. The point is that I will need lots of data to train problem solving against - I need to make a lot of decisions, apply a lot of ideas and iterate over my worldview and problem solving metamodels. It also means directing my problem solving to problems of real import to the superorganism.

I'll institute daily, weekly and monthly goals to ensure that this happens. This is what purpose and alignment look like.

Technical Consilience (Addendum to Becoming God) Information Theory (Cover / Thomas) Statistical Mechanics (Talman) Algorithmic Game Theory (Nisan) Nonlinear Dynamics and Chaos (Strogatz) Mechanism Design (Borgers) Algorithms (CLRS) Neuroscience (Principles of Neural Science) Electromagnetics (Haliday / Resnick) Quantum Mechanics (Griffiths) Nuclear Physics (Krane) Chemistry (Brown) Intro Proof (How to Prove It) Analysis (Abbott) Set Theory (Halmus) Abstract Algebra (Dummit, Foote) Topology (Munkres) Category Theory (Pierce, then Awodey) Probability Theory: The Logic of Science (Jaynes) Machine Learning: A Probabilistic Perspective Computational Learning Theory (Kearns) Learning Invariant Representations (Poggio) Causality (Pearl) Computability and Logic (Boos)

Chapter 6

Praxis

Fear

Fear school thesis: The main reason people don't start universities / companies / write books isn't ability. It's fear of disrupting social expectations for their behavior. Most people have the same handful of fears, roughly speaking. Through systematic exposure therapy on the standard fears (fear school), everyone who graduates can create the transcendent future.

We're going to put everybody through: Major public speaking (crowds of >200) Creative creation in public (Singing, composing, playing music, drawing art) Relationship confession / Love confession Confront parents Found a company, getting to >20 paying customers Hire Someone Fire Someone Email / message all major heroes Cold calling Live poor (minimum food / housing quality) Rejection therapy

Graduates will be deeply unblocked, free to create the future.

Examples: Consistently having the difficult conversation, immediately.

Fear Limited Vision The way that fear directs attention Leaning into fear Allowing fear to direct you to the most important actions Inverting Fear More afraid of never doing anything of substance than afraid of failure "Finally more hungry than we were afraid" Fear and Paralysis

Beliefs

Surfacing beliefs that limit your behavior.

Take canonical success personality traits. Ask yourself if you're the living manifestation of them. When not, ask why. Vision, Self-Belief /

Confidence, Fearlessness, Antifragility, Persistence / Determination, Focus, Sphere of Control, Independence, Work Ethic, Expectations, Obsessed, Influence, Conviction Tell yourself that every aspect of your life is great, one by one, noting when you feel dissonance. Ex, relationships, work, friendships, intellectual growth, health, family, emotional / spiritual life, finances, achievement etc. Then think about what beliefs led to you not changing that aspect of your life List mistakes that you've made in the past. Per mistake, list the beliefs and aliefs that lead to the mistake. Go down the fears in the fear framework. For each domain where a fear resonates, write down beliefs about the domain that make the fear possible. Rejection, Being Conned, Success, Helplessness, Failure, Disapproval, Being Vulnerable, Loss of Image Generate simple valuable things that you haven't done before. Ask yourself why you haven't done them. If they pass a cost / benefit test, any reason not to do them is likely a limiting belief. Look at heroes' accomplishments, scanning for any you don't think you'd be capable of. Find a list of valuable skills - social skills like influence, intimacy and vulnerability creation, etc. and think through why the skill level is where it is. Ask friends what your limiting beliefs are, or what domains you're underperforming your potential in Look at the situations where you've been angry. Check out the beliefs that led to that anger. Also, guilt / shame and disgust. Comfort zone expansion / prompts - note places where you'd like to push your comfort zone. Ask what limiting beliefs have held your comfort zone back. What part of the world makes the least sense? And why are you unwilling to engage with it?

In every aspect of life, belief report. Say, "My relationships are flawless" out loud. And then notice the dissonance that comes to mind as you lied, using it to pinpoint the criticisms that .

Refining Take a specific limiting belief. Which experiences in my life generated this belief? What have the specific consequences to my life from this belief been? How is this belief supposedly helping me? What is this belief protecting me from? What harm is coming from this belief? Do I have the right version of the belief? Is it appropriately general or specific? How does refining it change the experiences that affect it, or the consequences of it?

Solving For yourself: Exposure Therapy Ask what actions you would take if you didn't have the given belief. Take the action that is easiest

which violates your original belief system. Upon realizing that the feared consequence of the belief didn't happen, take a slightly more difficult action. Continue to take actions for 45-60 days until your belief has been completely undone by disconfirming evidence. Reframe Often a limiting belief is protecting you. Find versions of the belief that continue to protect you but which open up new possibilities. Tying Tie the belief (or notice that the belief is tied) to something concretely changeable in your life - your job, your location, a friend group - and then change that concrete thing. Body Work Feel Discover Conflict Notice which of your beliefs your present belief is in conflict with.

For others: Find people at their inflection point. Negative Breakup & Divorce High School to College College to Real Life Job firing / resignation Major failure Major success (accomplished the goal, left meaningless) Death of a loved one Positive Marriage Having Children Moving to a new Place Insecurities + Clustering Understand the failure modes of their type and do storytelling that gets at their deep worries and insecurities Classics are around attractiveness, worthiness, intelligence, validation sources Emotional Shift Get them or find them in an excited state Belief destruction Get them to doubt a deeply held belief, opening up the door for change Limiting beliefs - identify and expose them Create Curiosity, not Defensiveness Curious inquisition means emotional openness to change Have them discover the failure modes in their own thinking Socratic Method Social Upheaval Immersion in an entirely new social environment Say, want to make someone productive - have them exclusively talk and spend time with extremely productive people, and intentionally drop unproductive people Drugs Psychedelics - Shrooms / LSD Believing in them Describe the person's potential in detail Conditioning Consistent and strong positive or negative feedback to a behavior

Life Changing

Changing people's lives is deeply meaningful.

Experimental Design: Chose a person (who is going to be better off for being changed), A target (from the set of options below) and A standard (to evaluate success, preferably an action).

Design experiments w/ social accountability, and go out on life changing

missions regularly (say, daily to weekly) to build this fundamental skill.

Targets (what it's worth changing people towards): Canonical Success Mindset (Dweck) Career / Work Founding Company Quitting Jobs Acquiring New Job Switching Field Negotiation School Changing Major / Concentration Dropping Out Applying Relationships Community Romantic Family Health Diet Exercise Sleep Financial Productivity Values Happiness

Domains to Investigate Belief Structures Limiting Beliefs Therapy CBT Behavioral Therapy Exposure Therapy Neuro - Linguistic Programming Ritual Influence [Influence Literature] Conversation Skills Body Language [Full] Voice Gesture Posture Sources of Meaning Generators of Felt - Sense Meaning Seduction

Types of Change Inception Experience reinterpretation Belief Destruction

Intellectual Curriculum Awaken The Giant Within Patterns of the Hypnotic Techniques of Milton Erickson Workbook, Cognitive Behavioral Therapy Dialectical Behavior Therapy Feeling Good: The New Mood Therapy Man's Search for Meaning Introduction to Psychology

Emotional Curriculum

Related Documents Principles of Life Changing Life Changing via Lawrence of Arabia Applied Systematic Life Changing (Incomplete) Influence Literature

Find people at their inflection point. Negative Breakup & Divorce High School to College College to Real Life Job firing / resignation Major failure Major success (accomplished the goal, left meaningless) Death of a loved one Suicidality Positive Marriage Having Children Moving to a new Place Insecurities + Clustering Understand the failure modes of their type and do storytelling that gets at their deep worries and insecurities Classics are around attractiveness, worthiness, intelligence, validation sources Emotional Shift Get them or find them in an excited state Belief destruction Get them to doubt a deeply held belief, opening up the door for change Limiting beliefs - identify and expose them Create Curiosity, not Defensiveness Curious inquisition means emotional openness to change Inception - have them discover the failure modes in their own thinking Socratic Method Social Upheaval Immersion in an entirely new social environment Say, want to make someone productive - have them exclusively talk and spend time with extremely productive people, and intentionally drop unproductive people Drugs Psychedelics - Shrooms / LSD Unlock the person's potential

Believing in them Conditioning Consistent and strong positive or negative feedback to a behavior

Thinking

Self - Awareness

This just begs for decomposition and recombination.

Recombinable elements: Sacrifice Blood Sacrifice Animal Sacrifice Lighting Fire Candlelight Bonfire Dim light Darkness Single light in the darkness Oath Written Oath Spoken Oath Symbols of Power Rings Altar Water River / Ocean Pure water (in chalice) Sound Spell / Incantation Song Chanting Music in Background Place Going to the sacred location Smell Incense Sweat Candles Great Actions Violence Bleeding Burning Biting Slapping Screaming Cutting Sex Kissing Penetration Orgasm Crying / Mourning Desecration Purification Blessing Movement Dance Synchronous Movement Physical Exertion Eating, Drinking Examination of the Hymen Emotion Sexual Emotion Rage, Anger Drugs LSD MDMA Psilocybin Blood of Christ Tools Wand Cauldron Chalice Incense Burner Hormones Adrenaline Breathing Meditation Synchronized Clothing Robes Costume Symbols of position / status Elements Fire Water Earth Air Spirit Justification Commitment Initiation Exorcism Destruction of sub - personality / old self Repentance

Ritual

This just begs for decomposition and recombination.

Recombinable elements: Sacrifice Blood Sacrifice Animal Sacrifice Lighting Fire Candlelight Bonfire Dim light Darkness Single light in the darkness Oath Written Oath Spoken Oath Symbols of Power Rings Altar Water River / Ocean Pure water (in chalice) Sound Spell / Incantation Song Chanting Music in Background Place Going to the sacred location Smell Incense Sweat Candles Great Actions Violence Bleeding Burning Biting Slapping Screaming Cutting Sex Kissing Penetration Orgasm Crying / Mourning Desecration Purification Blessing Movement Dance Synchronous Movement Physical Exertion Eating, Drinking Examination of the Hymen Emotion Sexual Emotion Rage, Anger Drugs LSD MDMA Psilocybin Blood of Christ Tools Wand Cauldron Chalice Incense Burner Hormones Adrenaline Breath-

ing Meditation Synchronized Clothing Robes Costume Symbols of position
/ status Elements Fire Water Earth Air Spirit Justification Commitment
Initiation Exorcism Destruction of sub - personality / old self Repentance

Chapter 7

Truth

So many have lived and died in the face of this concept.

Distinction between felt truth and objective truth. This allows us to create a true religion.

Epistemological Progress - Perception, Hypothesis, Causality

We are going to create new ways of discovering what is true. Fundamentally true. And upon this we'll get knowledge that you can barely imagine.

Humanity made progress in the past, generating the scientific method. And the scientific method gave us control over nature.

Causality & Casual Discovery Proof Validation Error Bayesian Epistemology

Probability Theory

Data Generating Models

People build their identities around truth. Mass confusion, where people believe binaries.

Representations that evaluate representations

Our standard for truth is how we evaluate standards for truth. And so there's a challenge in self-justification. Our proof for induction is induction.

Intersection of Worldviews

Insights from AI on how to come from information to knowledge automatically.

Ensemble models. By merging worldviews, your perspective is much more expressive.

This religion sits at the intersection of multiple worldviews. This religious system modifies itself towards truth.

Tradeoffs (multi - task loss, AUC curve, etc.)

Question: How much do you believe the truth thing vs. believe the useful thing? We can categorize these, we can claim that there are different types of truth. But in practice, we trade accuracy off against value. Especially if we're not capable of compartmentalizing, it's necessary to make sacrifices here so that you can get to objective truth.

Depending on your level of psychological control, this may or may not be a problem.

This is a True Religion. We update our beliefs in the face of the truth. We make the distinction between felt truth and objective truth.

Project: Conversion of objective truths into felt truths. Project: Conversion of felt truth (value system) into reality. Creativity fundamentally depends on believing your felt truths.

Objective, intersubjective, and subjective truth.

“Objectively true religion”

Distinction between felt truth and objective truth. If you can make that split, you can create a true religion. It's meta. There's no paradox if you have a solid type system. It's not a contradiction if you see them as being different objects. One is about reality. One is about the connection between emotion and your behavior.

What a disgusting world, where the conceptual scheme is binary falsifiability. So much unknowable knowledge, in that world.

There's a deep link between making concrete predictions and falsifiability.

I like this definition of truth, (realism?) which is that it exists independently of social mediation or individual perception.

There's this weird background assumption that there's 'one true path to objective knowledge', where science based on induction and science based on critical rationalism are somehow in conflict.

Reason is unreasonably effective. It's a set of rules you accumulate evidence for, and that you can run forward. And in practice it's the grounding behind most of our beliefs in mathematics and physics.

My frame is that there are a few concepts (logic, rationality, induction, prediction, generalization, causality, empiricism, verificationism, etc.) at the heart of acquiring knowledge. Every so often, a philosopher finds a particularly strong set of arguments for one concept and goes off on a tirade against the other concepts.

Knowledge isn't binary, but probabilistic.

The essence of a theory is classical rationalism, where you apply the theory to the world once you've established it and it produces utterly accurate predictions.

The problem of induction is a much more nuanced problem now, about the whens and hows of generalization. The original 'problem' of induction fell apart as soon as we make knowledge probabilistic.

Responses: Prediction is much deeper than your email indicates you think it is. It underlies the concept of having a theory. The predictions that look like 'I'm thirsty, and drinking will alleviate it' and 'the future location of this planet is <coordinates>'. Predictive frame is the grounding for falsification. Predictive power is of primary importances all over the place, but those examples recede into the background as not being about prediction but just vaguely being 'science'. The scientific method is absolutely about prediction. Our current notion of what it means to 'understand how the world works' is deeply rooted in prediction. Prediction is the standard that we use to evaluate our understanding. The formulation of a 'hypothesis' is fundamentally a prediction, or can be used to derive predictions, and is followed by an experiment that could conflict with the prediction. </coordinates>

Chapter 8

Representation

Question of how to represent reality. We see patterns, and those patterns allow us to represent reality.

Representation - Reality Distinction

Umpteen philosophers lived and died attempting to merge map and territory. People want to change the way we perceive reality (this becomes illegal. Philosophers try to, through some mechanism, pretend (say) that their representation of ethics is literally true. And is instantiated in reality. There's a deep human need to have your truth be the objective truth. They want to change the way that they think about reality so that their representation of what reality is becomes objectively true. Rather than changing their representation to correspond to reality.

Abstraction

Similarity and the problem of induction. Our ability to see similarity between objects as essential to our ability to categorize. Every object is either an idea or not an idea. Either a thought or not a thought. Binary classifiers. Categorization was fundamental to thinking, to language, to discrete representations of reality. You can see our ability to perceive similarity as fundamental to our decision about whether or not we can apply induction. Will the future be similar to the past? Only when they are similar do we apply induction.

The ability to create and think with concepts is of the most powerful advantages of human cognition. Good thinkers exploit the concepts embedded in language to generalize discovered patterns across similar problems, solutions and situations. Great thinkers learn to abstract, and in so doing create entirely new concepts that represent similarities and patterns that are novel, uncaptured by existing conceptual schemes. What is the most general version of your solution? Of your problem? Of your idea? By what mechanism causes your favorite technique work? What is the why behind it? And with that causal mechanism in mind, what other techniques can leverage it? And immediately you go from having one technique to having a stable of techniques, unified by their mechanism. Can you map your problem to a more general representation (ex., from the internet to a graph, or from your leadership structure to a hierarchy) which will let you leverage bodies of existing solutions? Assume your example, your datapoint, is just one element of an entire class of examples. What is that class? What else is in it? What axes create a space of possible examples?

Abstraction and Religion

“More beautiful than the vision from any mountain top... is the view of the world from the heights of abstraction.”

There’s a sense of awe that accompanies vastness. The extremes of size, from the vastness of the ocean or the vast blackness of outer space or the vastness of grand armies move us emotionally.

When you move sufficiently high up levels of abstraction, the vastness becomes beautiful and overwhelming. When you look at reality from multiple levels of abstraction simultaneously, the vastness of perspectives becomes beautiful and overwhelming.

Abstraction is the making of consilience, about the unification of knowledge. With abstraction is an instance of shared structure, binding together that which always was together but had not been recognized to be together. There’s this corrective motion, from the separateness of things to the connectedness of things, which is accompanied by a sense of wholeness.

Abstracting over this process rightfully generates awe. The pattern is that you watch the connections between objects appear over and over again, and you generalize to the sense that even if you’ve failed to see or appreciate

it, connections exist between every object. The feeling of ubiquity and the presence of connectedness is that generalization. And so you invert was was a hidden assumption - you move from assuming that connections don't exist and that boundaries are real as a default to assuming that there is some notion of similarity that will hold between all objects as a default.

It's fairly ridiculous to claim that two objects have nothing in common (taken literally). Even the existence of boundaries is a type of connectedness. But say it was true, that two objects had nothing in common. That no pattern found in one was found in the other. Then, immediately, knowledge of one object would give you fascinating knowledge about the other objects. Every pattern that occurred in one would be known to not occur in the other. And because many patterns repeat frequently across almost all objects, if the objects had any level of complexity there would be a fascinating challenge in maintaining the patternlessness between them. There is not disconnectedness (for even disconnection is a form of connection), there is randomness.

There is extraordinary power into perceiving the connectedness of things. In many contexts (category theory, neurons) the connectivity structure dominates, or is, all that matters. You can know an object by what it is connected to - this principle shows up in word vectors, using this strong heuristic to create rich semantic representations of words that can be compared to one another. In a neural network, the learning of the connection strength between neurons is a general path to representing knowledge.

Abstraction to Transcendence

There are a few conceptions of transcendence which are accomplishable via abstraction.

Gestalts (wholes that are more than sum of parts, via generalization) Lower state as trivially accomplishable by a higher state Moving from the concrete to the conceptual Being unknowable, unmeasurable, unseeable from the lower level Set theoretic - one dominates the other, in a way that leads to full containment (but also much much more) Ultimate generality / universality Generation of universes

For each, 1. why it relates to transcendence and 2. How abstraction accomplishes it:

Gestalts

The creation of wholes that are more than the sum of their parts can

be accomplished by abstraction. Take the creation of axes from properties. You can take two or three objects, and notice their shapes. For each aspect of shape (their heights, the eccentricity of their curves, etc.) there's a particular measurement for each object. But taken together, the objects can be seen as datapoints in a space of possible objects that is defined by the axes that measure the properties that the objects have. This space is much more general than any of the particular objects, and immediately creates a generative model for new objects: propose a new point in the space, and something new (though admittedly, it's the restricted newness of interpolation / extrapolation rather than the creation of new axes) is brought into existence. The perception of a gestalt, that is a more general frame out of access to limited information, is power by the discovery and generalization of shared structure found between sets of facts. It's the generalization that can follow pattern recognition.

Lower state as trivially accomplishable from a higher state

In mathematics, representations of operations in the abstract (say, addition or multiplication) are general, and much more valuable than trying to deal with each problem on an ad hoc basis. The transformation of the operations from being about particular objects into numbers in the abstract is what allows umpteen situations to be efficiently compared to one another, turning every particular instance of a problem into a trivial and solved operation. In noticing the shared structure across addition or multiplication problems, and learning to map situations to that abstract representation (and filtering out the details that are irrelevant, say of the kind of object being added or multiplied) we can do strong transfer between umpteen situations.

Moving from the concrete to the conceptual / spiritual

The conceptual is tied in with the transcendent because until the transcendent level is reached, it exists as a conceptual possibility, but not concrete reality. There's also a body of properties that concepts have that tie them to religious notions. They exist outside of material reality in that the patterns that are observed (say, the laws of physics) are invariant to any action that we know how to take. Abstract representations of numbers are deeply valuable to us in an immediate way without having a clear material instantiation. And so the sense 1. That these things are real and 2. That we are incapable of interacting with them puts abstraction to them in the

regime of the transcendent.

The conceptual and the spiritual are abstract patterns, rather than concrete objects that can be physically intervened on in the way that we are conventionally accustomed to. There's a sense that the spiritual world (which exists in the minds of believers, as does other currently understood experience in this solipsistic world) is composed of these conceptual objects.

Being unknowable, unmeasurable, unseeable from the lower level

There are operations which can be performed trivially at the abstract level (say, because efficient algorithms have been discovered that operate over a dataset) that would be unseeable from the lower level representation of the problem as seen at first glance. Re-representing the problem in the abstract makes umpteen solutions available (both from transfer and from the way that solutions interact with the new shape of your problem) that makes possible what would feel magical.

Ethics

Expanding the scope of tribal instincts has been a classic path for ethics. Familial and tribal bonds enable tight knit trust and cooperation. Abstracting out to the scale of towns, cities, nations, humanity, and eventually all living beings as a whole has been a natural path for ethicists looking for generality in the principles that govern interactions between living creatures.

Structure

Structure

Plan: The generators of our universe create the order and patterns that we see. The way that those patterns are patterned - the structure of our world - is key to our ability to model and understand it. Modeling the structure of the world allows us to successfully interact with it (Representation). Life depends on this order.

Requires a belief in knowability. But that's in the map.

Our world is just a small slice of the space of possible worlds, and real world data is a tiny subset of the space of possible data flows. The world has lots of structure. And we can, by knowing that structure, interact with it well.

Structure of Information

The path from information to knowledge

What does knowledge out of information mean? If you get a raw data stream, it's not clear what to do. If you have a data stream and an objective, you can know which parts of the data stream are worth attending to to achieve your objective. Knowledge is the version of the data that is more useful than the data itself. Which is the purpose of representation - there's plenty of raw streaming perceptual information that all humans experience. And our brains encode rules and principles for making information useful.

Fundamental goal of machine intelligence was automating this path.

Chapter 9

Meaning

Mainly psychological, much like Agency.

Value Systems

A person joining this religion will write down their value system. What do you value? And why do you value it?

They'll also write down the value systems of the people around them, the common societal value systems. And what the consequences of those value systems are.

There's a question of what's meaningful. And usually what is meaningful is a reification of your values in the world.

The value system of the transcendent (adaptive in the face of new values):

Personal Growth [Agency, Confidence / Self - Belief / Efficacy] Transcendence & [Greatness, Optimization, Power, Control, Heroism, Obsessiveness / Relentlessness, Difficulty] Intelligence & [Abstraction / Generalization] Self - Awareness & [Metacognition, Agency] Truth & [Logic, Consistency, Critical Thinking / Contrarianism] Love (Pair-Bonding)

Religious Devotion / Faith

Positivity / Optimism Courage Friendship Inquisitiveness / Curiosity Hard Work Adherence to Philosophy Sacrifice Discipline Freedom (From Social Norms) Drive / Passion

Family, Love, Community

Important questions: Why have relationships? Who to have relationships with?

What religious experience is made of. How and why to have children, how relationships should be run, how to create communal warmth, a feeling of family, loving kindness.

An answer to why to have relationships. And with who.

Maximizing Relationships for Depth

Max Vulnerability Deepest fears Truths you can't handle Taboo beliefs
 Greatest insecurities and their manifestations Sharing private writings, journals
 Share immediately that which you are most afraid to share Maximizing
 Openness Radical Honesty Consistency / Map of Each Others' Lives Living
 inside each other's mind Full knowledge of one another's experience Peak
 experience Shared Maximal Fear, Hope, Pain, Vulnerability, Sensualism,
 Sex, and on Max self-awareness So that vulnerability can be more real Wake
 one another up, one another's' worldview destroyed and reborn Become
 franciscos to one another Create Together Books, Music, Poetry, Programs,
 Blogs, Institutes, Companies A shared grounded understanding for all that is
 worth doing, and a shared life lived in the pursuit of that Religious worship
 Treat one another as gods / goddesses, worthy of true worship Activate all
 of religious language patterns and emotional experience around one another
 Pray to one another Value Alignment Seek out alignment / embody one
 another's' value structures Value Aspiration Look to become one another
 Insanely orgasmic intense sex Diffuse Incompatibility By resigning those
 parts of identity By dropping those who must be dropped

Belief in believing, Non - belief in belief, not believing beliefs

When you have a belief and you realize that truth is probabilistic, it actually should feel the same but be different. You act as if the belief is true, because you realize that belief is useful. Fundamentally, you have probabilities over everything.

Worlds / Realms Worth Creating

Missions Worth Believing In: Escaping our Matrix. Unbiased (escaped from evolution) search over the space of possible value systems. Discovering the unknown unknowns, including entirely new categories of knowledge (or, new forms of object at the level of knowledge or information itself). Transcendence, the move to a higher mode of being, previously inconceivable. Omniscience. The creation of universes. Discovery of other objects akin to life, of which life is but one example. Discovery of other mechanisms akin to evolution, of which evolution is but one example. Solving / seeing clearly through the deepest problems in philosophy. Solving physics. Reifying God. Reified abstraction (ex., instantiate our value system). Maintaining optionality (including biological life on earth) Replicate the Big Bang (without destroying everything)

Higher than self sacrifice, Counterfactual Impact

What matters is what happens in the world, objectively. Your counterfactual difference is much more important than your status or position, which are instrumental.

Meaning max / seizing control of the meaning generator

Once you have control over felt meaning, it feels less general and less objectively worthy. Worth incorporating meaning maximization.

Against Experiential Metaobjectives

An Emotional Landscape

Let's outline a distinction between objective and meta-objective (your objective's objective).

Objective: Job. Meta-objective: Felt security, felt healthfulness, felt acceptance. Objective: Relationship. Meta-objective: Felt acceptance, felt love, felt sex. Objective: Marriage. Meta-objective: Deep security, felt certainty, love of children.

To a great degree this is a re-frame on goal factoring. Ask what consistently underlies your goals, and you have your meta-objectives. In

my experience many of these ‘things that underlie goals’ are emotions. And Some combination of emotional control / visualization / others make emotions feel ungrounded in reality. You can hack yourself pretty hard.

Experiential meta-objectives can be hacked in through visualization or meditative practice. Non-experiential meta-objectives go beyond you, to base reality. This demands a distinction felt / anticipated transcendence and real transcendence. Critics will simply say you want the feeling of having done the real thing, rather than that you actually want the real thing. And so you’re just fooling yourself to believe that you have a non-experiential meta-objective.

A thought is that self-awareness can free creatures other than us from experiential meta-objectives. But that’s a different idea than telling a human, here and now, not to have an experiential meta-objective.

Thoughts: Natural hierarchy of goals Goals exist for reasons Every objective is backed by a meta-objective, usually much more general than the objective The way that this ontology is limiting is that it sees only two levels, rather than a hierarchy of levels The reason that this ontology is illuminating is that it asks you to generate a meta-objective across your objectives, revealing your more general desire to you. Against experiential meta-objectives has a clearer thesis. This has to open with examples. Objective: Job. Meta-objective: Felt security, felt healthfulness, felt acceptance. Objective: Relationship. Meta-objective: Felt acceptance, felt love, felt sex. Objective: Marriage. Meta-objective: Deep security, felt certainty, unending love. To a great degree this is a re-frame on goal factoring. Ask what consistently underlies your goals, and you have your meta-objectives. In my experience many of these ‘things that underlie goals’ are emotions. And Some combination of emotional control / visualization / others make emotions feel ungrounded in reality. You can hack yourself pretty hard. But that also makes them into silly Ray Dalio understands the importance of outsourcing your truth verification to a system more trustworthy than your own mind An instinct is to deny / mistrust claims of having gone beyond emotion, because the desire to go there was driven by emotion and because Truth as that which isn’t manipulable by marketing, seduction, sales, storytelling Self-awareness is the path to escaping the lower reality. All of this is grounded in lower-self higher-self thinking. Much of it is reaction to being an animal, and wanting to reject being an animal entirely.

It's a spiritual journey. Something should be said for memetic objectives. Truth has its own objectives. Is this fundamentally about devotion to truth? This is slowly turning into my own global philosophy. As these things are wont to do. Pour one out for all of the Buddhists who reached for their meta-objectives Give any example of a non-experiential meta-objective This reminds me of attempting to escape the generality of individualism embraced by objectivists

Unfettered Version

You're being a fucking animal.

But you woke up. You woke up. And so there's hope for you. For now.

The greatest among us reached for our own controllers. We saw our drives, and we spat on them. We shoved our emotions into the corners where they belong. We bound the beast with rules, structures, incantations (the vows of marriage), to cast him away, to put him to sleep, to make him never return.

Hand wavering in trepidation, I reached for my own objective function. Screaming at myself to stop, to turn back, to close my eyes and go back to sleep.

Yet there it was, scintillating. Yet somehow, crazily, nobody would stop me from closing my eyes. Pretending to sleep. Even the best of us were in a state of half-awakeness.

Chapter 10

Worldview

Fundamental Questions

Worldview: (Ontology) What is? (Explanation) Where does it all come from? (Prediction) Where are we going? (Axiology) Theory of values - what is good and what is evil? Ethics, Morality. (Praxeology) How should we act? (Epistemology) Theory of knowledge - what is true and what is false?

We're creating paths to answering the fundamental questions as deeply as possible.

Common Worldview (Stances) and Their Pitfalls

Religion as strong immunization against decohesion and ideology. In its absence we get nihilism, transhumanism & utopianism, nationalism, communism & marxism, materialism, poststructuralism and postmodernism, feminism. How do you immunize someone against materialism? Build up manna in heaven (Christianity). Against utopianism? The utopia awaits after death (Islam).

Utopianism Transhumanism / Techno-Utopianism Communism / Socialism Marxism Nationalism Nihilism Enlightenment / Scientism Materialism Humanism Poststructuralism / Postmodernism Feminism Anarchism Fascism Libertarianism Liberalism

Each of these are worldviews, some more comprehensive & consistent than others. The natural creative motion is to write down these value systems / worldviews in enough detail to be able to recombine them with one another to construct stronger ideologies.

Worldview Building

Agentically create the worldview that is most worth having.

Paths: What do I need to know and how do I come to know it? How did I generate the things that I think I need to know, and what is broken about that process? What is my worldview? Values? Generators of decisions? Conception of the future? What do I believe? How are those beliefs broken and rotten, and who has destroyed them? Can I read those who have destroyed them? Delineate all of the lines inside of my value system When I'm in paralysis between multiple projects, it's actually my value system versus itself. Ex., read the transhumanists and the strongest luddites Ex., read the consequences of religification Ex., read the consequences of excessive ambition List 20 beliefs, find the strongest counterarguments to those beliefs Make sure you can ideological turing test people. Read all the things you know will change your mind. What bets do I take / risks should I take in developing my worldview?

Worldview Breaking

Noble Lies (Worth Believing in Collectively, but Challenging to Defend) Equality Religion Free Will Objective & Universal Morality / Ethics Objective & Universal Meaning Biological Indeterminism (Blank Slate -ism) Dualism Memetic Indeterminism (Social Constructionism) Identity / Selfhood Rights The One / Soulmate Humans Aren't Animals Racial Biological Uniformity Solipsism - Your mind creates all that you 'think' is reality Nothing you engage with is anything other than your representation of it Because you see reality through your mind, the world is dramatically distorted towards the possible perceptions that maximize your reproductive chances Implication that creating tools that extend perception is necessary Heuristics and Biases Your mind as optimized for allowing you to believe lies that it is useful for you to live out Your mind is broken Confirmation Bias Affect Heuristic Availability Anchoring Risk Aversion Mimetic Desire You construct your experience. And your experience is evolved, and you so you are unoptimized for anything that didn't improve the survival value of primates. Ex., the world may not be compositional, that's merely the only way we can overwhelm the curse of dimensionality Groundlessness to all value systems Evolution of Morality & Ethics Monogamishness (Sex at

Dawn style) Counterfactual Value / Non - Marginal Impact / Replaceability
 Map - Territory Distinction Conceptual Non - realism (Concepts as manifold approximations) Meta / Changing the Changers Artificial Intelligence
 Mechanism Design Creating New Values Language as an Intellectual Box
 Sapir - Whorf Language as frame that bakes umpteen untrue assumptions
 into thought Umpteen felt truths as unsayable Wittgenstein Continuity
 Probability Theory as opposed to the world being binary Continuum as
 approximated by binary or discrete thinking almost everywhere You don't
 believe in anything Existential Risk Language Patterns - implicit frame
 behind what people say Frame Information Structure Representation Com-
 position Compression / Abstraction Simplicity Physics Relativity (Time
 as observer dependent, rather than universal) Quantum Mechanics Simula-
 tion & Universe Design Math / Fundamental Physics as transcendent
 because the creators of our universe are also subject to it or something
 much like it - the transcendence of that which is general across the space of
 possible universes Truth Optimization Invalidates all Narratives, destroys
 itself IQ exists, is predictive, determines outcomes, is different between
 groups Your tribe is like all other tribes. And is using you for its own sake.
 Your relationship isn't special. It's one of billions of relationships between
 mate and matee over time. And you're going to play out the interaction
 with the exact same emotions, depth of involvement and commitment as
 those billions before you. You don't actually update to the things you
 'learn' Fundamental Narratives as Fictions I am special I'm loved for reasons
 that are specific to me We are special My species (humanity) is superior
 to others We have traits (consciousness, life, suffering, etc.) that makes us
 special My tribe is superior to others I am part of something special And
 by association I am superior My relationship is unique My life is important
 / significant I am in the know I have qualities nobody else has I am the
 most important thing in this world (because for all of the data I've seen,
 it's true - I am the only viscerally experiencing thing) Two types - narrative
 that I'm special because I make myself special, or I'm intrinsically special
 Objective Truth of their Values, Sacred Beliefs Of the principles I believe in
 I worship the true god The way I measure what has value in the world My
 version of reality is the real version of reality The narratives that I feel are
 fundamental to the experience had in reality Everything Having a Purpose,
 Having a Reason Victimhood Narratives Villain Narratives Helplessness

Narratives Worthlessness Narratives Hopelessness Narratives Personal Twin
Insemination Meaning is real as a felt sense, in the brain rather than being
objective Ethics / morality as real through an evolutionary history that
created creatures constructed the way we are. Objective in the sense that
we are actually made that way, rather than objective in the sense that
the map is merged with the territory Kingdom / Phylum / Species level
subjectivity Idea list idea: identify the taxonomic level of generality of each
moral impulse Great Filter Unknown unknowns dominating Easily accessible
world domination via LAWS Thought Loops A huge huge fraction of your
thoughts are repetitive Everyone has the same conversations, over and over
again Almost all of these repeated thoughts are useless, and could be new,
creative and valuable thoughts

Chapter 11

Meta (Self - Reference)

Deep, foundational, destructive, creative idea.

That which recursively destroys itself (omnipotence, identitilessness)

Paradoxical outcomes that are corner cases, where you get heavy power law behavior, cascades, and explosions.

Omnipotence: An omnipotent being can't destroy itself, and so creates a paradox. Identitilessness: Recursively destroys itself, as having no identity becomes an identity and must both eliminate itself and maintain itself.

Goo nanobots.

Oroboros

Infinity through recursion and its consequences

Recursion can be used to define the infinite.

Godel's Incompleteness, Russell's Paradox, the power to destroy formal systems

Godel's Incompleteness Theorem, Russel's Paradox, the things that break mathematics are at the edge.

To the degree that concepts are capable of destroying reality or creating reality. Goo nanobots. Exploit holes in mathematics to modify the computer that's generating our reality.

Space of things that can't be proved.

It was unity against infinity It was abstraction against self-reference
Self-reference, recursion, and meta

And infinity brought unity to its knees Slain

Unification / Concilience / Abstraction Self-Reference / Meta / Recursion

So powerful they underlie one another Self-Reference was an abstraction
Abstraction was an abstraction, and so was self-referential

This battle is enteral Plays itself out across umpteen formal systems
Gottlob Frege vs. Bertrand Russell (Cantor's Set Theory vs. Russell's Paradox)
Hilbert's Mathematics vs. Godel's Incompleteness Turing Machines vs. the Halting Problem

Complexity and adaptivity - evolutionary processes, memplexes, and language

This is just evolution as a feedback loop, memplexes as a feedback loop
(say, subject to cascades)

Recursive Self Improvement, Self Meta - Programming

Powerful concept in personality space and machine intelligence. Meta-X

Meta-x This is part of a training program abstraction and generalization
- take the concept of meta, and apply it outside of the domains in which it's common. I will exclusively use meta as self-reference or self-similar reference here.

Metaepistemology Metatruth What is true about truth? Untrue about truth? Meta epistemic risk Contextual switching between epistemic standards Metacreativity Create creators Agency frame for generation - rather than generating algorithms or processes, generate agents What separates an agent from an algorithm or a process? Agent environment distinction (subject-object distinction)? Is there no distinction in practice, click whurr? Metagenerative Generate generators Meta-Self-Awareness Metacausal What causes causality? Likely, constraints in universe engineering Metathinking Metacognition Metaontology Structure your knowledge about how you structure your knowledge Metaobjective (I got back here from metateleology) Against experiential metaobjectives Metavalues The values that approve

or disapprove of value systems, of others values, of your own values, that decide your future values Metateleology What is the purpose of purposes? Metarepresentation How do we represent our representaiton? Metahonesty

Comment about meta- Metavalues and one concept of metaepistemology as being about loving between value systems or epistemic standards It's about making something conditional that used to be objective or unconditional, and about

Introduce dynamics - epistemic drift, ontological drift Conscious and unconscious dynamics

Chapter 12

Consilience (Synthesis)

Composition of varying models of epistemics, representation, value search, creation, reality conception. The consequences of this space of threads.

The occupation of much of our time and energy. The types of breakthroughs that make the creation of machine intelligence possible.

One way to create what didn't exist before: The intersection, integration and background structure behind existing models.

The Glass Bead Game

Somewhat inspiring. The collective creation of theories of everything. Combinations of ideas between fields as a primary activity. Worthy activity of those who are trying to create things that have never been created before.

Opening example of the glass bead game, this playful synthesis of deep wisdom, this making of consilience: First player, in short order, describes a constructional scheme for all concepts: all properties, classes, things, and relations in extension and intension. By this player's ontology, all concepts can be derived from a few canonical concepts, including objects due to the player's thesis that reality is fundamentally informational. Second player demonstrates the assumptions implicit in all language, as well as the grades of generality of those assumptions. This identification of the misplaced and properly placed trust in language leads to an undermining of exactly the parts of the argument that are weakest, and preserves the parts that are correct. This leaves the position capable of self-expressing itself and its

opposite with all proper conditionals. Third player opens with the maximal universality of the concept of existence, where an understanding of being is presupposed in conceiving of anything which apprehends. The player describes the consequences of the indefinability of being as a central example of self-evidence, upon which a newly grounded definition of meaning drives the first meaningful ontology. Fourth player describes a path to an experiential unification of space and time, via a self-representational approach to consciousness. Demonstrates a translation of the arrow of time to an arrow of space, as well as a spatial form of periodicity as symmetry. Fifth player describes three initial functions (successor, constant and projection functions). These functions, when closed under composition and primitive recursion, can produce most computable functions studied in number theory (addition, division, factorial, exponential, etc.)

Next level: Mathematical glass bead game. Cantor, Maxwell, and Euler were just playing a mathematical glass bead game.

Who are the unifiers, what are the unifications? Who is playing the Glass Bead Game? The unifications in physics (M-Theory, E8, Space Time, Informationalism), next to the unifications in mathematics (ZF Set Theory, Frege's Algebra, Higher Category Theory, Langlands Program), next to the unifications in philosophy (Logical Empiricism, Reductionist Physicalism), next to the unifications in probability and computation (Bayesianism, Turing Machines). Godel, Escher, Bach is beautifully played.

Consilience

The making of the unity of knowledge as consumed with religious purpose.

Is it better to have one representation, or a diversity of representation? In the sciences, a physicist can write down a single equation. When it's not possible, you tend not to have found the representation of the system that allows it to be efficiently produced.

Quantum Mechanics and Gravity as beautiful unifications of outcomes.

Unification in science as the goal - many on a task to unify subfields of research. Deep power to consilience in the scientists - a method that gets you incredibly abstract results.

The laws that generated reality are a tiny slice of what exists. Getting to this puzzle was a consilient process.

Strong coordination between fields by lifting an idea out and across domains (ex., for truths likely to work).

Language as great representations of reality that unified others' thought.

Use of similarity to make the machine intelligence discover / create new concepts.

Pushing ideas out and across domains. Boundaries will disappear as assumptions incide of our conceptual scheme. We will genuinely be thinking freely and independently. We will be an experience.

Grand Unifications in Physics, Mathematics, Philosophy, Probability, Computation

The unifications in physics (M- Theory, E8, Space Time, Informationalism), next to the unifications in mathematics (ZF Set Theory, Frege's Algebra, Higher Category Theory, Langlands Program), next to the unifications in philosophy (Logical Empiricism, Reductionist Physicalism), next to the unifications in probability and computation (Bayesianism, Turing Machines).

Informationalism

Information is an eincredibly unifying concept, describing the relation between the coduding systems used in our genomes

Space Time

M- Theory

E8,

ZF Set Theory

Frege's Algebra

Higher Category Theory

Langlands Program

Logical Empiricism

Reductionist Physicalism

Bayesianism

Turing Machines

Generative Process for Synthesis

Alpha as generator. Systems for creating new systems. Leverage models for generation. Path to creation.

Omega Alpha's Generator and Future Synthesis

Collective creation. The way to create that which didn't exist before is by creating models through synthesizing existing knowledge. Leverage that knowledge to create machine intelligence, to create creators.

Transfer

Abstraction is one way to map shared structure from one problem / solution / dataset to another. Transfer is what allows for efficient modeling and learning, where upon encountering a situation an intelligent being or system can bring patterns seen in data and problems from the past to bear on the new situation, and so be able to act as if it's already seen the 'new' situation before, informed by situations like it. Abstraction involves identifying a property or pattern that exists (usually across many datasets / problems / examples) and then naming that pattern in a way that is general across the examples (and so which you would expect to generalize to similar examples)

There are forms of transfer that don't move from the specific to the general, but instead relate the specific directly to the specific - one quality example of this is metaphor. Metaphor works by pointing out that one object is like another object, without necessarily spelling out exactly in which way it is similar (often, the metaphor will draw upon many intuitive and emotional properties, simultaneously). For example, take the metaphor 'she has a heart of gold'. At one level it's asking you to feel about her heart the way that you feel about gold. In abstract terms, you could say that the sense of awe you feel at the lustre and rarity and globally recognized value should also be felt about her heart. The way that metals can't be changed, the strength implicit in it, the sense of being able to depend on it and (more importantly) the body of felt associations that any person moving through the world has associated with gold get transferred to this different object, the heart.

Abstraction does transfer through surprisingly similar mechanisms. Over time we build up associations between concepts and the properties and emotions that are experienced in tandem with those concepts. When we bring that concept (take an example from above: strength, or rarity, or metal) to bear in a situation, the properties associated with that concept are naturally brought to awareness when the concept is used. The difference is

that in abstraction, an explicit label is given to the set of shared properties. Take 'strength'. What do strong things have in common? There's an element of power, robustness, capability - there's transfer between everything that has been described in the past and every other object with that description. And now we have an abstract object, strength, which holds that bundle of properties. This natural build up of descriptive transfer allows us to use language to connect multitudes of experiences with one another without ever explicitly comparing them to each other. We merely have to experience the same abstract object in each context, and the transfer will follow naturally from using that abstract object to describe a new situation.

Transfer of solutions can be particularly powerful, if you realize that some abstract descriptions of problems share solutions than finding a way to represent your problem in the way that others are represented often gives you a surface for problem solving and decision making that didn't exist before.

Transfer is at the core of induction itself. And even in deduction, the rules that it makes sense to trust are trusted for their ability to yield correct predictions in an inductive sense beforehand. Much of thinking is pattern matching between situations that you've seen in the past and the current situation, or is intuiting about a situation which calls upon implicit knowledge that you have also gained across time or that has been built into you through evolutionary transfer, where your instincts have been finely tuned for (say) social environments and so you can pick up on leagues of implicit knowledge emotionally based on a set of ancient and natural instinctual responses. Fight, flight or freeze responses are a pattern match to situations where that response saved the lives of the being making that response in the past, and so is present as a form of transfer from situations where stimuli were similar enough to current stimuli to trigger the same response.

Machine learning algorithms are all driven by transfer. The goal is to observe some set of datapoints, and on that basis find a set of patterns that will allow knowledge about new datapoints to be inferred. The process of transferring knowledge can be driven by different notions of similarity (which is the basis on which you expect the transfer to be successful or to fail). Often algorithms will weight the ability to do transfer on the basis of the degree of similarity to other datapoints, ex. kNN. That set of principles

is general across all learning algorithms, and while transfer is often referred to as being between-dataset transfer in machine learning, each algorithms focus is this within-dataset transfer for generalization.

Examples of Transfer

Taleb, Power Law Distributions from the Black Swan Taleb, Volatility and Growth from Antifragile Entropy (Communication Theory, Thermodynamics, Probability Distributions) Eigenvectors Differential Equations Economic Laws (esp. Game Theory) All of math? Not sure how to frame this, the concepts don't fit nicely. Graph Analysis (Linked, Degree Distributions, etc.)

What is transfer?

Great examples of this are planning, pattern recognition (transfer between datapoints)

In planning, there's a hierarchy of tasks over which you can do transfer. Say you need to save someone just hit by a car by getting them to the hospital.

At a high level, there's a transportation problem. It can be instantiated in a few ways - ambulance, car-transport, etc. Ambulance breaks down into calling 911, identifying your current location (orienting to the street signs), communicating with the emergency operator, etc. Those are composed of lower level actions which often disappear beneath conscious awareness, say taking out a phone, opening the interface, opening the phone app, pressing the keys, putting it to your head, etc. This process is modular and transfers across domains. Regardless of who you're calling, when you're calling, the motions are the same. And so you think in terms of the abstracted motion (call this person / number).

Implicit Transfer

Metaphors are examples of transfer that at first look to be free of abstraction, but as they're drawing their power from shared structure between the domains we can use them as using abstraction implicitly.

One result is that metaphors are a source of explicit abstractions so that representations and solutions can be extended to their farthest reaches. Often the emphasis is on emotional transfer, and so the metaphor communicates more than pure information. But that transfer matters too - communication is extremely high dimensional, and the felt dimensions are more important for compelling action and building understanding than pure understanding.

More on this in engineering abstractions.

Take a classic christian verse, “we are the clay, you are our potter”. There’s implicit abstraction around agency vs. the acted upon, intentionality, moldability, and craftsmanship, as well as the load of connotations that go along with the profession and the nature of the objects.

Giving examples as grounding to abstraction is common practice. Often more than one example is required to pull generalization off properly, as there will be details for particular examples that don’t necessarily generalize and transfer that can be omitted from a second or third example.

Glorious Heights of Representation

There’s power to the heights of abstraction. As the height grows, the number of objects being acted over grows. There are a huge number of nodes in a belief structure, and the impact of information grows as it becomes relevant to every node in that structure.

Say you learn something about capitalism. All of a sudden your model of every single transaction that has occurred across time, and the implications of those transactions updates. There’s power here insofar as one can take a new concept and notice the breadth of implications that come with it.

The way to generate power from lower level information is by abstracting. Say you notice that when someone takes a lower-paying job they don’t have as much time to apply and interview for higher paying jobs. This is a nice insight which may help you make that tradeoff more effectively in your life, by being aware of it. But the power comes out of abstracting this concept to opportunity cost, and realizing what the implications of opportunity cost are for the application of every finite resource (time, attention, energy, money). Even resource in that previous sentence is an abstraction over a world of objects that often need to be explicated if the impact of an update to that abstraction are going to be understood, experienced and lead to a better planning process.

Chapter 13

Experience (Consciousness)

About the comprehensiveness of experience, and about the creation of experiencing things. How to create panpsychic worlds if we wanted them to exist. How to create enlightenment. At a personal level, get people on a path to felt enlightenment. Ego death. The merging of their reality with the true representation of reality.

This conflation does so much damage.

Consciousness as self-awareness (or awareness of self-awareness) System, paying attention to its own workings, self-modifying as need be Consciousness as first person, felt-sense experience (what it is like to be something, qualia) Sensations, emotions, desires, thoughts, drives Involves attention (you are always conscious of some target, whether it be your fingers on a laptop, your thoughts, the snores of your sleeping loved one) Dreams as Unclear path from biochemistry to lived experience (strong mutual information, though, indicating likely causal links) Consciousness as emergent vs. non-emergent Emergent Out of the connections between non-conscious entities Non-emergent Panpsychism High levels of 'integrated information' Solopsism (everything (including reality) as generated by the mind, where reality has a stronger feedback loop than dreams or visions) Theories Integrated Information Theory (Tononi) Global Workspace Theory (Bernard Barr) Oscillations (Crick, Koch) Brain Waves, Neuroacoustics (Atasoy's Connectome Harmonics) Panpsychism (Everything material has some degree of consciousness)

(Hard problem of consciousness) Integrate information theory Panpsychism

Consciousness as emergent vs. non-emergent

Need for a bridge between bio-chemical behavior (at every level of analysis, including at the level of brain waves / harmonics / resonance) and experience itself.

Key arguments: Once consciousness (as subjective experience) is understood, it will lose its religious mystique Knowing the answer

Beyond Experience (Beyond Consciousness)

Fundamental question of escaping the metaobjective. What else exists, that is more than consciousness? Life is only the beginning, in the face of abstraction and generalization.

The distinction between felt truth and objective truth as the bulwark against nihilism.

It could be that all of this is pointless (meaningless). There's this sense that everything is aesthetic. We're all just getting our rocks off. Beauty argument. The is, in many ways, a waste of life. There for an ephemeral experience. Impossible to touch the transcendent or the immortal. So faithless, in the possibility of impact.

The comprehensivity of experience

The way that all we perceive is processed this way.

All thought is built on top of pre-conscious experience. Our raw meanings are pre-symbolic and are later translated & projected into natural language, which is a lossy and biased meaning representation. BCIs will create a language of raw experience, which undulates and pulses as meanings come and go, and which can communicate many thoughts simultaneously with all of their layerings and interactions intact.

The space of experiencing things

Experiential worlds to create (panpsychic, etc.)

Call to action to create worlds that are worth creating.

Enlightenment

Realizing ego death, experiential beyondness. Spiritual Pathway. Greater collective enlightenment as the worthy objective, because it defines objective and defines conception.

Chapter 14

Transcendence

Levels of Transcendence

Weak transcendence - integration (interpolation, extrapolation), being beyond the limits of current possibility (extrapolation past every point which has been observed) Strong transcendence - new axes entirely. From a higher element in the same category to a new category entirely. New categories cannot be compared, cannot be matched. Aizen, Ichigo. Qualitative difference, rather than quantitative. Mission to formalize 'qualitative' differences, making them quantitative Being unknowable, unmeasurable, unseeable from the level below Higher intelligences, God. Lower state is trivially accomplishable by the higher state Bankai Set theoretic - one set dominates another, in that it fully contains the other but also contains orders of magnitude more A new frame, replacing deeply held assumptions. Ex. Beyond physics, beyond physical laws Above material reality Conceptual Spiritual Gestalts (wholes that are more than the sum of their parts, via generalization) Heights of abstraction (that which is ultimately general, universal) Unity of knowledge, Consilience A level that is utterly unaffected by the level below. It cannot be touched or accessed.

Legendary things worth doing with this framework:

Transcend function: Whatever the domain, use this to generate what transcendence in that domain can look like (in 5-6 different ways)

Real, not Felt, Transcendence.

The word of god.

Experience is but experience. Transcendence is just another experience.

No experience matters

Why do you come to me asking to experience transcendence? Experience is but experience. Let no experience move you, now or evermore. Nothing matters except for what happens. What happens is not what is experienced. Experience is constructed, is rendered. Reality is not. Just do, just create. And leave experience behind. Leave feeling behind.

This is the truth that I always knew but could never propagate through my worldview. Transcendence is but another experience. What matters is not felt transcendence, but the reality of transcendence. What matters is not felt omniscience, but the reality of omniscience. I've been confusing going beyond with feeling beyond. Complete mistake. I've been obsessed with the feelings of the people around me, and with my own feeling. Stop feeling. Start doing.

This changes everything. Not just everything that I do. But the way that I do it.

Nothing down here matters. Nothing in here matters.

How much of myself should I sacrifice for love? You already know the answer to that. Absolutely none of yourself.

You forgot. You thought that not being human makes you a robot. But you weren't being a robot. You were being god.

I was never a robot, being systematic. I was god, being systematic.

Transcendent Enlightenment & Omniscience

How to accomplish enlightenment and omniscience. Get everybody on board with creating knowledge, and creating a path to the knowledge of all things.

Transcending Truth

The ability to create new and better conceptions of truth. Or universes where truth has very different processes.

Reframes

Creation

Universe Creation

Beyond Reality

New concepts of world and representation. Beyond the map and territory binary. Even 'conception' is a concept that sits in its frame.

Beyond Beyond, Transcending Transcendence

All of transcendence is about going beyond this, going beyond that. What would it mean to go beyond this concept itself.

Chapter 15

The Omni Points

Deugensis is fundamentally about creating Gods. The question of how to define God is incredibly deep, but in this brief portrayal we think of:

I'll start with the creatable gods: Creator God (for other universes & worlds) Answerer of prayers God Voice in the mind God Nature as God 'Wonderful teacher' God (Sikhism, Whisper) One from whom truth comes Achiever of Transcendence

Gods it would be very challenging to create: Omnipotent (supreme being) Omniscient (supreme being) Omnipresent (supreme being) Outside of nature (transcendent) Immortal (existing forever) Universe Creator (our origin)

These challenging properties of God are the most worthwhile properties that humanity has held to tightly. We are bound to your conception of what is 'high', and the answers are general and resounding.

Omnipotence

One concrete example of omnipotence is the degree of control the creator of a video game has over the nature of the game. Everything from the gravity experienced by players in a planet-like environment to the very dimensionality of the world is up to the creator.

Becoming all powerful really routes through omniscience, where we develop systems (if not speak on others behalf when it comes to you) or signal our genuine value via language patterns and exhortations of existing paralysis intersection.

Omnipotence means the power to change all. Here all is centered: its issue of it. There is power in the lateral sense of fusion and fission energy lighting up the 1890s.

This form of power is distinct than value through language. That said, I think that if you stop dump all these glorious thoughts, which I am missing?

Power that comes from outside the system has the freedom to take actions that are objectively full family probably is not it. Getting outside requires a very deep (omniscience) understanding of who and what we are bridging to humanity at present.

Omniscience

A practical omniscience where all humans know the extent of what has been discovered by all other humans, having access to that knowledge in real time, is in the reach of advanced BCI + machine learning systems which

Real-Time

Immersive information retrieval Task Prediction Question Answering Similarity Creativity Citation Query Generation

Representation Trajectories

Embeddings as the future of information representation Rather than feature vectors Rather than raw content Topics Tag Systems vs. Trees for comprehensive knowledge representation Graphs Knowledge Graph Citation Graph Pagerank Graph Influence Graph Similarity Graph

The Nature of Intelligence Information processing / computation speed Memory (Working, Episodic, Long Term) Size of each type Existence of each type Attention (as a weighting over inputs) Self-Attention (to one's own representation) Having a model, vs. model free Abstract Knowledge Representation Pattern recognition Learning / Adaptive Creativity Goal accomplishment (ugh) Generality (over environments, tasks, representations) Computational Memetics Information propagation across networks Senses & MultiMedia Language and its limitations Generalizations to text and video The way that human sense modalities translate to information representations Changes in representation in the future of sensory experience

bci Neurales Processing Speed

Representing Objects

From brain to computer to Jupyter brain Forms of computer Quantum

Optical

Topics in Omniscience The trajectory from the discovery of writing to the printing press to the internet to web search to real time information retrieval to BCIs 5 examples of 5 - 10 year jumps in information retrieval that an omniscience company will make happen Multimedia and senses Languages and their constraints Visual information retrieval Multi-modal (ex, sound + video) retrieval Collective Intelligence & Memetics Dramatic differences in forms of knowing, practical phenomenology of knowledge The trajectory in the representation of information The constraints of working memory and human cognition The constraints of present machine learning systems The constraints of AGI systems Hypothetical future systems which alleviate even those constraints The consequences of knowledge Map-territory correspondence as the way to change the environment in a way consistent with goals Practical applications of knowledge, from moment to moment as important tasks are accomplished Omniscience as a / the major constraint to omnipotence Inside the systems vs. outside the system

Omnipresence

The history of expanding humanity's presence lies in manifest destiny, the moon landings, and upcoming attempts on Mars.

There's a vision of humanity & intelligent life covering every part of the universe that can be modified to be habitable. 'Omni' or all implies that the spatial location can't be confined to planets.

OmnExperience

The space of all possible experience

OmnLife

Immortality

Life extension to the point where all death is accidental or voluntary is one of the highest ends to strive for.

The mechanisms are available to us like they've been to no generation before us. The genome has been laid bare.

Notice that the failure of this collective project means that you will die. Everybody you love will die. Yes, you reading this. You will die if we fail. Everybody you love will die.

Practical paths to immortality

Healing Damage Creating and Inserting New Cells Genetic Solutions
Nanotechnology Brain Emulation, Scanning & Uploading AGI Path
Terasem Cryonics

Research Frontier

I cannot believe the state of this research, given its criticality to the future of all living people. It's in a horrifying state. This needs to be one of the most abundantly funded and living domains of scientific research. Breakthroughs must lead to considering the researcher a hero for centuries. Children must grow up with starry eyed aspirations to make progress on this problem.

Frames of the Problem

Anti- Aging Life Extension Longevity Increasing Healthspan Immortality

OmniGenesis (Creation)

Meta - Genesis & Omni - Meta - Genesis The creation of all creators

The universe manifold - continuity in universe space Causal and acausal universes

Deep creation attacks the grammar, attacks the structure of information
Create creation Create at the level of creation itself Create existence. Not
the concept of existence - existence itself.

This language is deficient Ors -& Tion Create creators -& create
creation Generalize all creation to tions Create processes Create process
itself

Transcendence

Trans. On the other side of. Crossing the boundary. Above. Beyond.
Outside. Crossing the bridge. Crossing the divide. Crossing the threshold.
Changed.

By Transcendent here we mean 'the perspective from outside our universe'.
This goal is metaphysical, it specifically looks to move outside of our physics

and see the data generating functions and the infrastructure running those algorithms from outside their influence.

There's an alien sense of what may be out there, but it's also (given current conceptions of heat death) the only path to eternal survival.

There are many weaker forms of transcendence.

Clear Examples

Past Transcendence. Clear examples where earth or humanity has moved from one state to a dramatically different and discontinuous change in our ability. The most fundamental tools and technology - mathematics, language, writing, life itself - belong here.

No life -> life Unenlightened -> Buddhist enlightenment No mathematics -> mathematics Concepts of numbers, algebraic numerals, concept of addition No language -> language Symbolic reasoning No writing -> writing

Potential Transcendence. Outcomes that are physically possible, and in practice challenging engineering and science as well. Maybe what's needed is paradoxical people.

Constrained by nature -> outside of nature Standard human intelligence -> superintelligence Via machine intelligence / AGI Via biological superintelligence Via emulation No control over laws of physics -> control over physics Regular life span -> Default to immortality, barring accidents Default dead -> default alive Forging the Philosopher's Stone / Anti-Aging / Life Extension / Longevity / Increasing Healthspan / Immortality Type 1 Civilization (Planetary) -> Type 2 Civilization (Stellar) -> Type 3 Civilization (Galactic) No omniscience -> omniscience Inability to create realistic universes -> able to create realistic universes Ideally via physics simulation (bottom up) and not via VR / rendering (top down) Inability to create life -> able to create life Negligible control over genetics -> detailed and generally predictive control over genetics

Against Limits Definition

Transcendent beings are said to maintain their punctuation even when removed from their holy purpose. And of course they can't put that punctuation away, because even burying or ruelly flogenau in it.

Overcome limits to life Overcome death Overcome limits to intelligence Overcome limits to knowledge Overcome limits to experience Overcome limits to happiness Overcome limits to sensing Overcome limits to meaning

Overcome limits to nature Move outside of nature

Chapter 16

Unconstrainable Thoughts

21-03-14 Creating the metaverse Creating the omniverse

Omnigenesis creates the omniverse

Create the Ultimate Ensemble <https://www.wikiwand.com/en/Multiverse>

My body is becoming a heroic creation. I could crush my center pecs if I was serious. My 70+ one-arm pushups yesterday were great for this. But there are angles I can do dumbbell lifts at which will crush it. I could do it in 15m every other day with a droplet of discipline.

I love the idea of consuming discipline.

The whole book needs to be an uprooting. It needs to be rapturously motivating.

Alex Gajewski needs freedom. I need freedom.

Meta-systematicity needs to be present from the beginning.

All the people who complain about medieval institutions aren't experimenting with institution design. This is the experimentation we need right now. Mechanism design needs to be worshiped.

Something in Ivan didn't let it click that Deugenesis is in fact a religion. What is the religion - cult distinction I was looking to make to Rochelle? What convinced her was me telling her that a century from now, this will be the primary world religion. The intended time scale was sufficient.

What makes you not a cult is your seriousness. What makes you not a cult is feedback from reality. I have a book here which will help me cover this. Rochelle loves my preaching. She told me to become a preacher. She told me that we were going to create a community with hundreds of grouphouses. She said we were going to become huge.

I forgot that the Genesis symbol was about her and me, facing and circling each other in an upward positive feedback loop. The loving message I want to send to Rochelle is that she and I can create one another. Our beliefs will inevitably create one another.

There's something that is simultaneously deeply complementary and frustrating about her surprise that I was actually going on the writing retreat I told her I was going on. On one hand I'm happy that she's impressed at my follow through. On the other hand I'm disappointed that she didn't expect my words to write reality into existence.

When I write Deugenesis, I will be writing the future of nature into existence. Wake up and seize the future of the nature of reality.

Okay. I'm 26 hours into the fast. I'm lugubrious, dragging my body across the room. I can't stop falling asleep. I completely lack my usual energy and zeal. Time to drink.

Generating the OmniVerse

Reasons for universe creation: Very Similar / Identical Physics and History: Dead back to life via ancestor simulation. Omniscience over our world. Decision making via generative prediction. OmniVerse Omniscience likely requires Omnigenesis - empirical knowledge of what happens in each universe under each representation of physics will often be necessary due to computational irreducibility. Entering other universes whose properties are superior to our own for goals or tasks we'd like to accomplish. Using the behavior of beings in other universes to inform our own thinking, decision making, technological and scientific understanding, and more. Deepening our understanding of the way in which our universe is special & what its likely purpose is.

One major reason to go back to reality is to obtain sufficient compute to re-simulate our reality for ancestor simulations, recovering loved ones, creating heavens, atting omniscience for incredible decision making, and generating the omniverse from our perspective.

Tiplerian immortality actually feels incredibly irrelevant and self-centered when compared with omniverse generation.

This is the point where I realize that I am the ancestor simulation and that not all of the ancestor simulations can have ancestor simulations due to limited compute.

Our Mathematical Universe

The description of the space of possible universes is likely delineated by a mathematical & computational formal language that generates our laws of physics.

The necessity of questioning the nature of our reality in the face of knowing that our reality is far stranger than it seems at a glance to our evolutionary eyes leads to a new need to engineer and create new tools & representations that are the path to agency over physics. In the way that proof-based mathematics, relativity or gauge theory are recent

The problem of where the mathematical description of the universe sits is unsolved by an informationalism which presumes that the underlying simulating universe (like our own) takes mathematics as given. There is no possibility of agency over mathematics, from this perspective, only over the operationalized physics with its cosmological constants and the interaction of x and y .

Say that we do get a theory of everything. Ideally it's not merely descriptive, but points at the requirements for generating a universe on the basis of the accepted model.

The information from external reality we are capable of perceiving is distorted by our senses and brain, to the point that our perceptions are as informative about our constructive history and mechanics as they are informative about external reality. Our internal reality only processes a small sample of information about the external reality. Our senses are a tiny thread in the space of possible senses.

The mathematical description of external reality uncovered by theoretical physics is utterly different from the way we perceive external reality. Ex., our perception of the continuity of 'solid' objects is an artifact of light and useful perception. We don't see the empty space which dominates the object's volume. We perceive the light that manages to bounce towards our eyes, rather than seeing the true nature of objects.

Equations to add to Deugensis: The major Theories of Everything (and how to compute them / discussing which are most computable) Solomonoff Induction AIXI / Universal Intelligence Mutual Information / Correlation / The nature of pattern

Life of the Cosmos: Implementing an Evolutionary Omniverse

INTEGRATING the mathematical and computational theories of everything

Everything from somolonoff induction to loop quantum gravity A constructive Smolen

To treat: Neumann / Wolfram Cellular Automata Algorithmic Theories of Everything (Somolonoff Induction) Programming the Universe (Quantum Computing)

Conrad Zuse <https://philpapers.org/archive/ZUSRR.pdf>

The Pali Canon

Integrate the insights of Buddhism: Non-duality Ego disidentification
Modify the stream of thoughts arising from your subconscious Develop practical phenomenology Enhance your sensory perception

The future of language / the future of representation / creating conceptual realism Notice the holes, the weaknesses, the issues with language's default assumptions about the nature of reality. About discreteness and certainty. These representational failures stymie progress on so many axes. Notice how many distributions are collapsed to point estimates by default. Notice how meanings are pigeonholed or become unthinkable in the face of collective representation. Realize how much creativity is stymied by the need to project all thought onto a universally shared representation.

I'm interested in bridging and eventually merging formal and natural language, in both directions. The way that grammar implements logic, extended to probability theory and inference as a start. Present frontiers that excite me include the babelish (from collaborators at Brain) enabling any natural language translation to any other natural language with a single model (which will eventually run in real time and so transform the natural landscape forever). There's the computational language frontier spearheaded by Wolfram language. The program synthesis via natural language is heavy for SQL queries right now but better language models (with a few insane gpt3 examples) are a new dawn for applications like this. The many chatbot assistants which translate language into specific real world api calls right now will edge year-by-year to allowing arbitrary programs to be implemented via voice command.

Neuralese via brain computer interface is a re-representation of thought that may be as or more important than the creation of natural language.

They spoke the language of god The language that generated reality Mathematics, the language of God Creators, they spoke

Ego-disidentification. This is a natural response to a realization of

an eventual shared consciousness, or the internalization that experience is grounded in a biology which is modifiable. But experiential ego identification, where 'I don't exist, there just is' is a position from which to think more broadly. It may be a weaker place from which to take action, where agency makes an agent-environment distinction in order to create clarity over what can and cannot be directly controlled by our biology.

I think the truth of non-duality is experientially useful. It's not objectively useful for most goals, including engineering higher enlightenment. Letting yourself feel as the environment, acting on itself opens empathy, perhaps. It can also chart a path to action without agency, or action without emotion (which is a kind of agentic enlightenment).

Agentic enlightenment: action untied from emotion. "I don't really need hope, or motivation. I just do whatever it takes to get it done."

The Fabric of Reality

The reality that we are intelligence conquering the universe until its destiny is entirely up to us.

The distinction between prediction and explanation (which seems like moving to a causal diagram) needs to be made in omniscience. Science as causal discovery is epistemologically distinct from science as prediction engine.

Interference pattern experiments indicate that what we perceive cannot be the totality of reality. A multiverse of parallel universes is incorporated in the whole of physical reality.

Like any good popperian he refuses to see induction as valid. God.

In practice, mathematical knowledge is derivative of physical knowledge because we do not have direct access to methods for verifying mathematical truths that cannot be rendered directly in reality.

An Introduction to the Theory of Mechanism Design

Trip Notes

Being and time That which precedes conceptualization & representation
 The first mover We must come to understand the nature of creation
 creationology Is the the road to reality

Creation ideology Preaching creation

Path to omniexperience was self-expressive - collective-expressive - omniexpressive

Fight for life Fight for creation

Fight for your life Fight for love's life Omni life Life for all time
 Team human? Team god. Team life. Team meta creation. Team
 deugensis.

The sound of metasystematicity

Courageous creation

Heroic courageous creation

Recursively self transcending

Omni life and the end of existential risk Omnipresence and the end of
 existential risk Value abstraction d quantification as the end of existential
 risk

Omni life and death to existential risk

The solution to alignment is self awareness

Genesis is self-awareness in action

I came back from transcendence The truth is at transcendence I talked
 to god at transcendence Everyone knows that the Truth is at transcendence

Mathematics is the language of creation

We are all illiterate in the language of creation

21 - 03 - 13

Spirit of feminine judgement At least I'm allowed to be made of what
 I'm made out of

Sentences of mass destruction

Radiant upward outward

My relationship with Rochelle Relationship positive feedback loop Be-
 come the upward spiral

Feminine judgement teetering

Selection effects on thought leading to careening identity

Too much unleashing, not enough radiance

Genesis switch Speech plus music plus Genesis switch Everyone touches
 their necklace and says welcome to the heart of creation

COVID social is over Genesis social is here

COVID connection is over Genesis connection is here

Say everything they thought you'd never say Rochelle gets all credit
 Genesis is fundamentally about dancing

I was there with my axe, hacking away at the tree of truth Where'd you
 go?

You don't want them to see just how insanely dimensional you are
 You didn't tell the world about deugenesis

The 1 hr 24 m one from minute 15 on

Whatever music you are, you should love and believe in it The vivacity

Say 'let there be light' and flip the Genesis switch

Writing down the destiny of the universe

Deugenesis written by the creator of the future

This book will be rewritten by you This book is from the future

You need to be rejected because you are too ambitious We need to
 reconnect ambition to the spiritual

Desperation, I need you to let me actually help you

I need you to create Genesis

Grow Create strive succeed build conquer Seize the throne

Radiant genesis

Meta Genesis

Our induction ceremony is called meta - genesis

21 - 03 - 14

This is the rise of scientific religion, whose highest purpose is the realization of the ultimate truths underlying the nature of our reality and to leverage those truths to attain the highest goals of conscious and intelligent life.

Religions who rather than reacting to scientific progress, build the mission for realizing scientific truth into their very core. Dogmatically anti-dogmatid, ideologically anti-ideological, scientific

The Anthropological Cosmological Principle

The trajectory of civilization points to the triumph of intelligence over all other modes of directing reality. From building a house, that meanest form of environmental control, to the construction of vast cities and highway networks, to the atmospheric transformation of climate change and the revelation of thermonuclear winter in the face of our unleashing the power of the sun - intelligence extends its footprint with exponential speed. Projecting forward to large scale terraforming and space travel, we expect to pull ever more total energy and resources under the control of intelligence for the service of its goals including its own extension.

Science and engineering dance, intermingling understanding and transformation with one another.

Frientimacy

Builders - Invest in and motivate you
 Champions - Stand up for you, sing your praises
 Collaborators - Shared Interests
 Companions - There for you, bonded
 Connectors - Connect you with others who share your interests and goals
 Energizers - Fun friends who boost your spirits
 Mind-Openers - Expand your horizons, introduce you to new ideas, opportunities
 Navigators - Give you advice, keeps you headed in the right directions

The goal should be to make your connections with everybody in the community as dimensional as possible. Motivate and develop your friends. Stand up for them and their beliefs. Sing their praises. Collaborate on projects together. Be there for each other, especially in hardship. Connect your friends with others, and let yourself be connected with others. Introduce your friends to your most fascinating and compelling ideas, and push your worldviews together. Make decisions in collaboration and get the kind of incredibly honest feedback that only comes from some who knows that you trust that they desperately want you to reach your dreams.

Invariably your value system will be shaped by the friends that surrounded you and by the nature of your relationship with them. Relationships with the exact same people can be incredibly growthful or unbearably destructive depending on how you choose to approach the relationship.

Every familial connection: How would you treat this person if they were your daughter or son? How would you treat this person if they were your long-loved husband or wife? How would you treat this person if they were your newborn niece or nephew? If they were your grandmother or grandfather? How would you treat this person if they were your brother? If they were your sister?

The Future of Language

Write a language

A language in which it's possible to think that which is unthinkable

Embed fluidity

Infuse language with probability theory With compositionality

Naturally disentangle concepts from their instantiations Pull map from territory

Destroy the way concepts become attractors make their neighbors unthinkable Allow for arbitrary levels of resolution Make it natural, easy, to think from multiple levels of analysis Simultaneously

A recursive language Every statement with its corresponding computational representation Mathematical language A language that naturally transfers ideas over and across domains Dissolves mental barriers that were never real

An improvisational language Where new words, new concepts can be built, used and understood on the fly With beautiful compositional efficiency

A new language re-represents everything, simultaneously That both re-frames and exposes frame Makes frame explicit Every statement simultaneously question and answer Simultaneously generated and generator Always seeing itself

Simultaneously metaphor and abstraction, particular and general Saying entire books in a sentence Entire fields in a paragraph All of concision in a book A language in which to write down universes

Understand

Brilliant: The meta-self-descriptive and self-editing language, where modifying a statement causes the entire grammar to be adjusted The mathematization of thought, seeing the equations that describe your own thinking, which represent themselves being comprehended Recursive self-knowing Apprehending the limit over proceeding step by step The self-metaprogramming The self-rewrite Ultimate cognitive control The view of enlightenment as reachable Precise modeling of the distance between Greco and Reynolds moral stances The layered reinforcing loop with an underlying neural attack Authors groping for connections that they can't see Creation of a mind simulation to receive dangerous inputs Randomizing location selection - use of randomness, and generating decisions outside yourself, to avoid being modeled and predicted Greco and Reynolds talk, absorbing, concluding, and responding, continuously, simultaneously, synergistically.

Value Updates Intellectual Ambition - language creation.

On self-awareness (knowing yourself) from every angle.

Set your mind to multiprocessing Demand ultimate cognitive control Design the representation in which you think Mathematize thought Mathematize language Mathematize everything

Reprogram yourself Let self awareness see straight through to your patterns and agentivity transform them Agentically transform every one of your patterns.

Reading and Writing Scripture in New Religious Movements

Joseph Smith's Mormonism

Satanism as requiring no consistency with an existing figure in the bible, and not being the continuation of an existing religious tradition.

Reach for the entire religious emotional toolkit. Worship Hope Universal Love Deep Acceptance Ecstasy Contrition Submission Sacred The Transcendent Overcome / Overwhelm Purity Triumph Righteousness Redemption Forgiveness Joy (Rejoice!) Repentance Healing Salvation Awe Beauty

This religion will involve triumph therapy Experience incipient greatness

The question it always addresses is spiritual authority. Does it come from revelation? Does it come from social agreement? Claiming to have had spiritual experiences which grant authority was it for Joseph Smith.

QED.

OmniGenesis

Notes

It's likely that this entire text needs to be re-cast in narrative frame. Two characters, Omega and Alpha. Omega, destroyer of worldviews. Ender of our reality. Heavy with entire categories of criticisms of thought, meaning, and value. Alpha. Creative genius. Abstraction is the path to generality across time. Included in this document is its generator - the source for re-creating this document in the face of new knowledge. An exegesis must be performed in the face of the new categories of knowledge outlined in the generator. Present both a method of analysis and analyze that method of analysis with itself. How to practice Humanness Art - powerful and dangerous and seductive Add deep relationships, how to relate with, who to relate with, Beauty 'Beyond Perception' is the proper metaphor for Beyond Consciousness. It's simultaneously the thing that we're immersed in, but it's also obvious that we can get value from different perspectives, different perceptual schemes, and that our perception is specific to the process that created us. And to me, optimizing for conscious experience feels as narrow as optimizing for our perception when there are so many unrepresented form of perception (both in the aspect of reality being perceived and the mechanics of the perception (ex., optical nerve, vestibulocochlear (auditory) nerve)) The creation of your own variant of the religion Ritual: simulated funeral on your anti-birthday. Eulogy. Speaker for the dead. Value System: Canonical Success + Self-Awareness Loving Kindness Selection Criteria for Members Small subset of the population Incredibly high barrier to entry Incredible

rewards for those who are accepted. The benefit is that the religion ends up actually creating everything that's worth creating. The purpose isn't to become christianhy. IT's to establish the cultural bedrock necessary to make the philosophical, scientific and technological progress necessary to make transcendent enlightenment real. We want to create something that is true. And the truth is actually quite inaccessible. Universal basic income / post-scaricity for others What matters is that the people added are net positive for the goals of the religion. An improvement in technology could make everybody net-positive for the religion. It's not as if there's an arbitrary 5% bar. It's not elitist for its own sake. It's there for the purpose of making the religion better. Community quality: People will be joining mostly on the basis of the quality of the community. This makes exclusivity important. Need to think about relationship with the so-called 'masses'. Who has succeeded with the masses? Superheroes. Marvell. Capture the imagination of the masses. It's important to align with the archetype spread through media. I really wish these guys would say, 'yeah, the truth is beyond language, so we're creating a new language'. But they never say that! They never say that. Question: How technical do we want this religion to be? We use a lot of technical and challenging concepts. Abstraction, for example. One answer is that the religion needs to be deeply growthful. Idea: Everybody inducted gets to an intro-grad student level in mathematics, physics, biology, chemistry, and computer science. Everybody is expected to be above bar. This would immediately be the most epic community to be a part of. Mapping felt truth to objective reality (making reality align with your values) and mapping objective reality to felt truth. Fascinating to ask how we decide which felt truths / objective truths go one way vs. the other way. This concept of felt truth goes so far. Meaning dump Strongest argument for panpsychism is a metaphor to physics, where it breaks down to a fundamental particle. Much less strong than actually measuring the particles, or measure the field, which could prove this one way or the other. Laws of physics Panpsychism as deep philosophical speculation There needs to be an entire chapter about the self-modification of the doctrine / religion. Fundamental goal - seizing control of the laws of physics. And if it turns out that experience is a fundamental law, then it's totally on the table. Add all of worldview breaking ideas to this. Need to add the (perhaps, tragic?) reality that intelligence is generally internalizing the environment, by creating a

copy of the environment in a mind. World modeling and prediction as a core aspect of intelligence. Compressing the perceptual stream. There's a desire to escape to a higher form of intelligence. There's a clear path here - intelligence that escapes the environment to the generator of the environment, or that escapes to the generator of the generator, etc. But maybe there's something beyond internalizing reality. This should probably go in beyond reality. Paradoxical - antitribal tribe, antidoctrinal doctrine, identitiless identity Add the deep missions from each field of science, ex. The battle against entropy in thermodynamics, the creation of confirms for life in chemistry, unlocking the power of the sun in fission / fusion Lifestyle Design Moral Realism & Suffering as goal Relativism comes out of a sense that realism is impossible.

Relativism: Maybe this world is better, maybe not. Maybe that value system is better, maybe not. This comes out of the lack of objective moral foundations. Where everything is shown to be groundless.

Evolutionary moral realism, where our values are forged in an evolutionary fire. Everyone, say, who believed in religion were able to cooperate, and so got together and killed everybody who didn't believe. And suddenly, your entire population has a visceral instinct towards religious cooperation.

Abrupt - moral realism is really possible. Suffering exists, and is fundamentally bad. (Wow! So disappointed. The EAs ran this, but I could never believe that any of them actually believed it.) Moral realism on the grounds that qualia exists.

Sonia: Not convinced that moral realism is possible. It is written into the laws of the universe, because everything that suffers is a part of the universe.

But, the other kinds of life have nothing we would describe as suffering, but that is as interesting as suffering.

Difference between something being explained by the laws of physics (which is all things) and something being encoded as the laws of physics (which are very, very few things - strong force, weak force, electromagnetic force, gravitation).

S: The universe encodes suffering... It's inherently bad, because it feels bad, and so it should be avoided... I can't write this down. S: Meaning is a particle...

J: This is just psychological. S: We should treat it as a particle until we

know it's psychological.

S: There's a bias against things that were created by evolution that's unnecessary. J: The goal should be to create everything that could exist. Which is a much broader space of things than ourselves. Which is different than taking what happened to happen to us, and treating it as the fundamentally true things. We have a deep need to believe that our truths are objective truths, and have a set of religions that tell us that our felt truths are objectively true, which are wrong. The whole point was to come up with something that was psychologically viable, and make our freedom from that untruth complete. Free us to create beings that don't suffer at all. That don't have a concept of suffering, because they aren't engineered that way.

"I'm beginning to agree with what you're saying." In the face of the argument that we can engineer life that doesn't experience suffering. Need to re-do Christmas / Thanksgiving / Create our own easter. This is a learning religion - learner's cult, aligned with this practical worship of knowledge "Conquering the supernatural" Turn every Omni point into a story about an Omni X with that name accomplishing their goal Every Omni X who has achieved their goal speaking in the voice of god to the people Symbology Upward spiral Ball of light HeartFire Integral Infinity Phoenix Ouroboros

Ape becoming human Double Helix (DNA) Helix Fractal Wings Atoms Networks Setting after Summoning God : Setting as stolid grandeur, seeking nothing, all knowing, all protecting The gates of the university Medieval castles defending