

THE MATRIX

WHAT?

A game world populated by non-player characters (NPCs)

Each NPC based on a cryogenically preserved client ([Alcor](#))

NPCs exist in a shared game world

They can interact with each other

A 3D public library of people

HOW?

Each NPC has a chatbot program for human interaction

Each chatbot trained on data each client generated

Data consists of client's self-generated texts, artworks, literature etc.

Simply an interactive version of a client's Wikipedia page

WHEN?

NOW

OUR PLAN IS TO

BOOTSTRAP CONSCIOUSNESS AS WE GO ALONG

WHY?

I PERSONALLY HATE HOW LITTLE PERSONALITY IS LEFT OF PEOPLE WHO DIE

TESTBED FOR PEER TO PEER TRANSFER LEARNING

SINGLE ACCESSIBLE PROJECT COMBINING CUTTING-EDGE RESEARCH IN ARTIFICIAL
INTELLIGENCE, NEUROSCIENCE, COMPUTATIONAL BIOLOGY, COGNITIVE SCIENCE,
AND PHILOSOPHY

2ND PERSON PERSPECTIVES TO HUMANS ACROSS HISTORY

PICTURE THE PROJECT AS YOU GO ALONG

WHERE?

NPCs are simple infinitely looping programs on normal server machines

Interaction between NPCs is recorded and used in model retraining (for other-awareness)

Each NPC has a ledger of all its questions and answers, which it can use for retraining (for self-awareness)

A publicly visible and interactive world, existing for its own sake

BUILDING BOT_0

Transformer-based natural language prediction bot

Corpus of client-generated data used with weight w0

Corpus of standard training data used with weight w1, to
create a base layer (analogous to basic K12 education
children receive)

Tested against questions from client's knowns

UPGRADING BOT COMPLEXITY

Computational models with biological validation are used as components in an agent. *The E. coli Whole-Cell Modeling Project* serves as a guide

Hard problem in simulations is distributing memory and processing cycles across each bot (self-contemplation), simulating and recording bot interactions, world complexity, and bot stimuli.

Quantum computing (which I personally interpret as a major leap in parallel computing) finds application in interacting agents

Agent use randomly generated stimuli from game world (UniProGResS) interact with each other in a non-deterministic manner

UNIQUE PROCEDURALLY-GENERATED RANDOMLY-SEQUENCED SCENARIOS (UNIPROGRESS)

This is a rough idea in my head. Imagine the world we simulate can send stimuli to bots to generate conversations (and later on behavior), between bots and between the bot and itself.

Stimuli is based on 2^n states. We use a pseudorandom number generator to label states and pick states randomly without traversing the entire state space.

Certain subsections of this n-bit string are used as stimuli to bots, because bot stimuli is a lot smaller.

Because of the state space being so large, impossible to determine completely in finite time, we simulated pseudo-infinity

Each bot's behavior is influenced by a random state in this pseudo-infinite space, and bots can interact with each other, which can result in unique scenarios occurring in the Matrix that are effectively unpredictable, and thus completely new.

Practically, I intend to do this with procedural-generation algorithms used in games, or even simplistic algorithms such as the one in *Conway's Game of Life*(CGoL)

CGoL is a major inspiration. The ability to generate complexity in an unpredictable way is a very important idea in giving life to the Matrix.

A vibrant, futuristic cityscape at night, possibly Tokyo, with dense buildings covered in colorful neon signs and billboards. A dark car is parked in the foreground on the left. The overall atmosphere is dark and energetic.

NEXT FEW SLIDES ARE SOME
IDEAS I WANT TO
explore

MERGING DEEPFAKES WITH NLP

Each chatbot works on natural language prediction (NLP)

Chatbot output (using NLP) is sent as input to deepfake generator

Deepfake generator was trained on client data

Deepfake generator outputs a realistic visual of client answering truly new questions

CREATING AN NPC SOCIETY

I want to test the effects of communication between equivalent NLP models (agents). My strategy:

1. Conversations between 2 agents are seeded with different inputs and recorded
2. Conversational data is used for retraining agent is differentiated from client training data with a unique label and different weight

I don't have any specific reasons to do this. I just want to study the importance of communication and simulate the emergence of language. I feel it'll hold a lot of insight.

SELF-REFERENTIAL LAYER

A corpus of questions asked of a bot and answers generated by the bot serves as an approximation of memory. By labeling the corpus differently from the rest, I want to bootstrap the concept of self in the bot.

I believe this will help in bootstrapping consciousness in bots. Using this corpus to retrain is not useful because answers in this corpus are exactly what the agent generates. But this corpus is useful in 2 contexts I can think of: differentiating the self from others through communication corpuses and maintaining a memory of self.

$S_i \leftarrow f(S_{i-1}, S_i)$

i.e. subsequent state depends on previous state and another factor (possibly the next state itself). I am yet to explore this idea fully, but I believe *Conway's Game of Life* will hold importance in its exploration.

This is also the description of a non-deterministic state machine.

QUANTUM COMPUTING

Quantum computing is a more efficient paradigm of digital computing, in certain aspects. Practically, it has been shown that using quantum computers inside a digital construct (binary computing) can speedup many traditional algorithms. This finds applications in the Matrix.

A deeper concept I intend to explore is analog quantum computing. Rather than using quantum computing in the digital construct of binary computing, I would like to explore the use of entanglement, interference, and superposition to create a different kind of computing, which I term analog quantum computing.

This will be based on the idea of having n different superpositions interacting in a system but measuring (recording) only a few of them. I believe this will have implications in real-time bot interactions that occur but are not stored.

Physical conditions needed to make practical quantum computers are difficult to recreate (Temp \sim 0K). Photosynthesis has 99% efficiency in capturing solar energy, possibly due to quantum effects. This means that quantum effects have tangible effects at room temperature, a fact that is exploited by photosynthesis. I am currently exploring the quantum effects of photosynthesis in the context of quantum computing.

USE CASES



FILMMAKING

The Matrix has applications in filmmaking. It generates data about interactions that take place between 2 agents, who are based on real humans.

This data can be used as fodder to create scripts. Even more awesomely, it can be fed into a pipeline of automated video generation to create entire films.

A necessary concept here is unpredictability (non-determinism). This is based on UniProGResS, the idea that events that take place in the Matrix are ‘unique’. It is achieved by procedurally-generating stimuli using a pseudorandom number generator ($O(2^N)$) algorithm in large- N space)

REPLICATING PRODUCTIVITY

I would like to encode some semblance of machine sentience in the Matrix.

For example, let us say one of Alcor's clients was the world's best neurosurgeons. We replicate them in the Matrix.

Using robotic surgical tools, the digital version of neurosurgeon performs surgeries. Now rather than interpreting that just as a replicable program, we interpret it as a somewhat sentient version of that human, but also a program.

I would like for this to occur in the Matrix. Currently alive people can use metawork data (how they do work, what work they produce) to train bot version of themselves in the Matrix.

These programs are in a sense versions of humans, but with UniProGResS they're their own beings as well. I am still undecided what to interpret them as.

TESTBED FOR CONSCIOUSNESS

The Matrix is planned to be a testbed to test theories of consciousness. I don't think I can solely define consciousness. It will take the agreement of many many people to define consciousness.

Currently, anyone can put a theory of how consciousness works, and it may or may not be correct, but there is no way to test and validate it. One of the goals of the Matrix is to be a platform where theories of consciousness can be cohesively tested. This will take place in the form of opening bot creation to the wider world. Based on their theories of consciousness, they can train bots and test if they're conscious or not.

I don't claim to make the tests either, because I don't have a definition of consciousness. Hence the test will be defined by the tester, as well as the theory they're testing

Ensembles of many theories of consciousness can probably be tested by bots. Maybe consciousness will arise because of bots and humans creating theories of consciousness, prompting the question "did we create consciousness?" OR "did bots with consciousness spontaneously arise due to them formulating theories on consciousness?".

THE SALES PITCH

This will one day create a world that's somewhere in between *Blade Runner*, *The Matrix*, and *Westworld*

Because of ‘unique’ procedurally-generated randomly-sequenced scenarios (UniProGResS), situations occurring in the Matrix will be completely new and randomly-determined, hence it will not be a predictable “reality”.

While this has applications in filmmaking, the deeper concept I’d like to point to is that bots in the matrix will have non-deterministic behavior (because of self-referential layer).

WHERE YOU COME IN

To start, we would like to use your data recreate your personality in a bot in the Matrix

I want your support and involvement in various domains in the Matrix

The Matrix is a significant step in resurrection. Its digital nature does not limit our vision of what it could: the path to immortality. I hope you can see it as well

HARD PROBLEM OF SIMULATION

The hard problem in simulations is distribution of power, processing cycles, and memory between:

- World generation: creating the “world” i.e., collection of stimuli to allow agent interaction. The algorithms to create this world fall into this
- World stimuli: providing stimuli as input to agent and letting bot record it
- Self-reflection: algorithms to make the agent self-reflect, i.e read log of self-data, interaction data
- Recording interactions between bots, and between a bot and itself

Distributing computing power across these tasks is a hard problem

FINAL NOTES

I have run into the “hard problem of life”. How much time should I distribute between presenting my idea to the world, and working on my idea?

I now choose the latter. Here is a message from me in the future: “I am currently studying NLP and GANs. I hope 20 pages were enough to convince you that The Matrix will quite literally change everything.”

That is future me for present me, who is writing this document. But that is present me for you, o reader. Because current me is past me in your time.

THANK YOU

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THE MATRIX

FEB 2023 UPDATE / PITCH DECK

LIST OF THINGS I'M WORKING ON

- Why do presentations work so much with lists?
 - In bulleted points
 - Being, sorry buying, Meta
 - Sex robots
 - Mind research with psychoactive substances
 - Automata cart
 - Future
 - Not the artist: a digression into running out of names
 - PhD-level scientist bots
-

WHY DO PRESENTATIONS WORK SO MUCH WITH LISTS?

- It's less to do with lists, and more to do with lists of lists
- A list contains things. It can contain ***n*** things within, that can be ***m*** different things. One can focus on each one of these things sequentially, in the “list” structure. More in “bulleted points”.
- But yes, back to the original question. Why do presentations work so much with lists? Cuz a presentation of 10 slides can be distilled into 1 slide (using the question asked above to determine inclusion). This 1 slide contains some information of each slide, this list is of subsequent items, lists of greater detail into each item. A kind of lossy compression that saves time.
- I included it to be funny ;)

IN BULLETED POINTS

Each bullet point is integral to the question asked that leads to the formation of a list

Yeah, don't got more

Not enough funny content rn

BEING, SORRY BUYING, META

Humor aside, I will really need to look into buying Meta.

Subsequent slides will show revenue streams (what I'm building is more meaningful than revenue streams, but in the interest of reaching my specific audience (those who read slide decks), I use that term -> whole meta digression covered in "finity of names")

Meta's capabilities of crunching massive amounts of data, for whatever purpose they chose (advertising), is very valuable engineering and social magnetism in one entity. Being accessible in one entity is the value of Meta. Because of one goal, maximizing advertising revenue, they have created tools that are far more valuable than advertising itself.

Those capabilities allow creation of a version of a human being in terms of quantifiable data that holds relevance because of other quantifiable data (a human likes something other than another human). It is capturing some form of the essence that makes us human. It is essential in "knowing" who a person is.

Anyway, onto the revenue streams you're all hungry for: sex robots ;)

SEX ROBOTS

I hypothesize sexual intercourse, in the physical manner it is done currently done in humans, is a primal test to determine child-carrying capability of a female by a male, while the entire process of “before sex” is the process to determine child-rearing capability of a male by a female.

Here I use male and female by their biological meaning, which is to ask the question: in sexual reproduction, who puts in more effort in the production of a single gamete? The explanation above works because a female invests more into the production of a single gamete, and thus needs to know the male will take care of it. Those that survive are the ones that are taken care of, and there is genetic code that determines how romantic or non-romantic (henceforth referred to as “sappy” for conciseness). The children that survived and had more children who survived and had more children are the ones that took care of their offspring against nature. Sappiness is a solution to the randomness of genetic code that allows for stable reproduction in the environment. This is a major digression.

SEX ROBOTS

Anyway, I want to create a bot that performs all the duties of a housekeeper (along with sexual intercourse if the owner pleases). A traditional wife, for simplicity. Pays the bills. Cooks hot fresh meals. Cleans the house. Humanoid-ish in order to interact with existing systems (i.e. existing homes, existing lives etc., a bot like that must have hands in order to use your plunger to unclog the toilet).

Biological sex will a test of robustness for the robot. Can the robot be had vigorous sexual intercourse with? If yes, then it is fit enough to survive cuts and scratches in the real world.

This research of mine aims to combine animatronics with the sex toy industry. It will use tech in automata cart (later slide) to perform the functions of a housekeeper, i.e. interpreting and paying bills (the systems for which will be controlled by other bots that the housekeeper bot can interact with without needing human intervention), ordering groceries, cooking with **existing** utensils, cleaning the house etc.

Sex is a huge part of these robots. People will buy sex robots even if they don't perform all the other duties. The ability to do other duties can learnt with over-the-air updates. The tech is going to get adoption simply because it makes lives easier. It is easier to have a housekeeper that you can have sex with.

This is why I am researching sex toys right now (don't picture it :)

MIND RESEARCH WITH PSYCHOACTIVE SUBSTANCES

I call it mind research but it is more mind control

Psychoactive substances change the way a person's neurons light up on stimuli. All marijuana plants have similar genetic code. Within genetic code of marijuana hides another code: the change that a specific code of marijuana brings about in a person's neurons

We can research about these codes and their subsequent effects on human neurons, and we can create models to explain this behavior. These models will show insight into the working of the brain. This is simply done by inducing effects into a brain and characterizing it with a cause we know of, from a known strain of a psychoactive substance. As in science, we will link a known cause with an observed effect, to help us characterize the system of cause and effect, which in our case is the brain. We then make models of this cause to explain the effect, based on the cause and effect we observe.

This is coming dangerously close to being a digression, so let me conclude by saying psychoactive substances are important to mind research, simply because of generating perturbations in an opaque system (our brain). We can characterize the functions of the brain because we can study these perturbations in a known system (genetic code of psychoactive plants).

AUTOMATA CART

A self-driving cart with 2 arm-like machines. It picks stuff up and puts it on itself. Travels to a destination and drops it off.

It does my job as a worker in a catering organization. I am paid while my bot works.

I intend to use computational evolution to find an optimal program that achieves these tasks. This is part of building a bot that builds bots.

FUTURE

A world where whatever we want is possible. Teleportation, melding man and machine, immortality, going beyond the observable universe and experiencing many states of qualia.

Man, devoid of all shackles.

Free.

That's the dream.

STICKY SCIENCE AND THE CREATION OF SCIENCE WITHOUT HUMANS

If there is a subject of science in which the number of humans is decreasing, i.e. there is content that no one knows about, and the amount of that unknown content is increasing (due to human death), then given enough time, there is a high probability of that area of science just simply dying out because no one was left who read its books.

Sticky science are subjects in science that are hot right now. Like machine learning. Attracting lots of people in its hallowed halls and etching itself in their memory, and thus in the memory of collective science, for a while longer than the rest.

I would like to create something for science that ensures none of its work is ever forgotten. Even a wrong statement has a wealth of information within it, simply by being an observation that is incorrect. I need to make bots that understand science, if only by capturing papers. Understanding the data (converting it into a useful way) will come soon.

NOT THE ARTIST: A DIGRESSION INTO RUNNING OUT OF NAMES (*a long treatise on the finity of names*)

When we observe less, we need less words to describe phenomena. This is simply because we have less information to encode.

The concept of “less” information exists only because of information difference. This concept is explored well in Shannon entropy. Information has meaning only because of a difference in observations, hence the need to encode something different. This means we have to bring about another bit of information, or change a bit of information. If nothing exists, then it is the absence of all possible things. It is the absence of all possible 2^n states of any system. There is a more fundamental operation than NOT. It is “nothing”. The empty set. A major contradiction that I’d like someone to explain is this: In Zermelo-Fraenkel set theory, we can construct the statement: “The empty set contains itself”. It is TRUE. We can also construct the statement: “Every set contains the empty set” Then, the empty set contains itself. But then how is it empty? The statement “the empty set contains itself” is a true statement that cannot be explained by system by which it was created: ZFC. I call it a Godel statement. Am I right? Can it not be explained by the axioms of set theory? Sorry for the digression.

NOT THE ARTIST: A DIGRESSION INTO RUNNING OUT OF NAMES (*a long treatise on the finity of names*)

English is based on phonetics. Words are created so that we (mostly people in the English-speaking world) can speak. While English as a language (~30 letters) has high informational density, it is limited by human phonetics. English words primarily exist so we can speak them. Hence the limitation of English in primary keys, Using breaks in the English language and randomized spread of letters (context, i.e language dependent), we can construct many many concepts. And it has helped us.

But English is limited for the language of science. To label observations, the sheer quantity of them, we need more than English. We can no longer label “light” and “dark” to observations. We need numbers. But the human mind is attuned to words. We relate concepts we know to words. So much to words that we rarely experience things we cannot characterize in words. Which is weird.

People experience qualia all the time but rarely, people talk about it. Yet people talk about it all the time without using the word “qualia”. It is the feeling of “feelin’ myself”. Qualia in essence, in modern terminology. To encode the same feeling, we use two different terms.

NOT THE ARTIST: A DIGRESSION INTO RUNNING OUT OF NAMES (*a long treatise on the finity of names*)

But the deeper truth is that we interpret things using neurons. Our optic nerve lights up, lighting up neurons in our heads, which light others. Somewhere along the way self perception kicks in, but usually without self-perception about self-perception (thinking about qualia). Self-perception is the experience of seeing red and realizing you're seeing red. Unlike background noise, you realize you're having a specific experience. Having that experience, instead of having an experience which is thinking about having experience. Like the one I am having right now. This moment I am thinking about how I am writing about this. This experience I am having, the sensation of having qualia, is a "sticky experience". I can come to this specific experience from many experiences. It is a local minima, a sort of rest state. Self-awareness and awareness about qualia are also neuronal experiences (neurons lighting up in the head), which can come from a lot of different states.

NOT THE ARTIST: A DIGRESSION INTO RUNNING OUT OF NAMES (*a long treatise on the finity of names*)

My point is this: before we had the ability to measure waves in the brain, we would describe our brain states with words, simply by having limited number of states we know of to describe. Now that we know a lot more states, we need more bits to store information about these states (representations). A core point I am trying to make is that when we start having experiences by controlling each neuron directly, we will need a lot more than words to encode what those experiences are. But to understand larger number of experiences, we would need bigger brains that store more meta-information about neuronal states (memory).

The treatise on the specificity of language is small: information content of a language is dependent on the number of different states it needs to define to and who it needs to define it to. If there is no information content in a system, it doesn't need to describe anything. Hence the all-capturing sticky void of nothing is where it resides. Equal to every else. Science is so much about debate. Yes or No to a question. But what happens when Yes and No aren't enough? When you can't divide scientists into 2 camps and come up with an answer, because there are many answers and scientists cannot even read all answers. What happens then?

AWESOME BODYMORPHISM

Change gene expression to create impenetrable bulletproof skin. Cells bond so tightly that nothing breaks the surface.

Automatic numbing of skin surface neurons to not feel cold. Cells are modified to keep generating heat and stay functional even in extreme cold.

Neuronal modification to use more energy which is obtained from fat decomposition. Dreams that cause weight loss and build chosen physique.

EM waves that cause hair follicle cells to get cancer and start regrowing.

SELF

The world exists in your brain.

Living in a society means we must assume the world exists beyond us, will exist even if we don't. But we can't prove that. This is *solipsism*.

You read my entire deck. Whatever the combination of words meant to you, whatever it fired in your head, that's what matters to you. Your perspective is your whole world.

Everything you interpret is interpreted with a layer of self-perspective.

THE MATRIX

MAR 2023 UPDATE

OEL

Emissions-free oil, made with enzyme engineering.

Oil that burns in the same engines, power plants, and factories, without producing CO₂.

Leverages existing infrastructure of transporting and using oil.

50% silver bullet to climate change, but not a silver bullet for energy sources. Nuclear plants have much higher energy density.

Conditions for combustion cause a different reaction to occur that releases the same amount of energy but not CO₂. A substance that burns like this is a protein that needs to be bioengineered through directed evolution.

CLOUD SOLAR

Clouds with solar panels.

They are closer to the sun, absorb more energy, discharge energy to earth with lighting. Static electricity causes charge buildup from photoelectric effect.

LIFE IS A GAME, DON'T TAKE IT TOO SERIOUSLY

You give me \$200M to go to the moon.

Either I take you to the moon or I don't. If do, great. If not, I spend some tiny portion of the \$200M having fun and making others having fun (\$100k a year to 100 people). It ain't a bad proposition. It's literally a moonshot.

What doesn't change is play. Life is the pretend game we used to play when we were kids, when nothing was too serious.

Man On The Moon is one moonshot of mine. The difference between my proposition and [X, the moonshot factory](#)'s is that I am building bots that will achieve moonshots. Many bots will change the world in many ways, all I must do is build the bots and set them free in a controlled world (controlled because maybe I am wrong, because this is my science project after all).

Check out [Man On The Moon](#)

100K PLAN (MAXIMAL ECONOMICS)

I am building a new economic model. Every human being on Earth gets \$100k a year. What will they do with this \$100k a year?

Total GDP of the world needs to be at least \$800 trillion USD. Imagine all this money is used to buy bread, that costs \$2.49/loaf. Hence, the total amount of bread needed in this world is 320 trillion loaves. It is the maximal amount.

The whole world doesn't eat bread. But a lot of the world eats wheat. We need the wheat equivalent of 320T loaves of bread ~ the maximal amount of wheat.

How do we make this much wheat? I want to do this cost price analysis for all items in the consumer price index to create goals for the amount of stuff we need to produce to fulfill all needs. Then I will create a circular economy model to simulate infinite stuff for all of us.

100K PLAN

100K a year is given to everyone in the world for the license to use any IP they create. At a personal level, all that a person does is IP. We want to give every person in the world \$100k USD. For that, they will share their IP. They also gain access to all IP created by those paid \$100k, i.e. part of **#theMatrix**. A world without patents and copyrights. There is a database that proves ownership but open access everything. All content is freely available, there are no paywalls or adverts in anything.

It is basically catalog purchase for every person in the world. We will use the stuff a person does to create bots of the person, that perform labor of that person, while the person does whatever they want.

INDNOVATE INC.

A company that makes companies.

I predict that there will be millions of Apple-sized companies soon. Each of these companies will change the world in a fundamental way.

A reel mentioning some of these companies' core drives: [watch here](#)

All these companies exist in **#theMatrix** of companies. This is a sea where companies freely share IP and is wholly owned by the people working in them. All these people are on the 100K plan (i.e. receive the same \$100k salary a year, whether they work or not). Every person has a company representing them.

Indnovate represents me and owns the IP “bot that make bots”, which can be freely used (including exploitation for commercial gain) by other companies in **#theMatrix**.

IMMORTALITY IS NEAR

There's been promising work in anti-aging. If bots (PhD-level scientist bots) continue this research and scale it, very soon lifespans will extend by at least 50 years. This is such a revolutionary technology that it will necessarily be available to all people, because every single individual would go to any length to attain this. Everyone should have access to +50 life potion.

In these 50 years, tech will find ways to increase lifespan by 50 years or 500 years. Keep going and we will never die.

It is time to make 8 billion humans immortal. The universe is our playground for resources. Life is a game, infinite and beautiful. In infinite time, we can achieve everything. All.

I talk about 50 and 500 years above. But I am already thinking about billions of years into the future. How do we escape the death of the universe? If I, right now, am thinking about how to stay alive billions of years into the future, and we have billions of years to solve this problem, it will probably be achieved relatively soon (relative to what? idk ;). Immortality is near.

INSTANT COLORED HAIR

Hair transplanted with optical fibers. Each fiber is a sensor or emitter of light pulses.

Used to image the brain at 10Hz. Cap with POV camera. Used to understand vision.

Optical fibers powered by biomotor (later slide). Connected to Wi-Fi and color-changing. Imagine dyeing your hair in an instant.

Also, magnetic field detection for neuronal currents.

BIOMOTOR

Isolated muscular fibers show continuous contracting motion deriving energy from lipids.

Can be used to create pressure waves inside cells. This repetitive motion can be used to create an electric motor. I think there is a more direct way to cause ionization and current flow directly from the muscle fibers without a magnetic field.

Biomotor enables us to detect stuff inside cells (conditions that make the muscles move), consume biomass (lipids) to create motion.

Massive application for modern liposuction.

DREAM: I can eat whatever I want and excess food is consumed by these biomotors to keep my physique as I want without the need to workout.

CAPITALISM FOR THE 21st CENTURY

Adam Smith wrote *The Wealth of Nations* in the 1700s. Our world has changed. I am creating a new form of capitalism: oogonism. (it's funny)

I conjecture that while earth may have a shortage of resources for 8 billion humans, the observable universe does not.

An interpretation: there is no point to IP laws. All IP should be free because there is no shortage of IP that has potential to save the world. If someone wants to do something with IP, let them do it.

The 100K plan can help make all IP free. The core concept is we live in a circular world. If you just drink water your whole life, you will still not consume the ocean. And because you pee, water goes nowhere. In this circle, you have infinite water. Even if life becomes infinite, the amount of water in our use at any point in time is finite and cyclic which makes water still effectively infinite. I believe in the universe, everything is infinite for us. There is no shortage of anything. Life is not a zero-sum game.

GODKIND

Evolution of man into god.

Indestructible. Immortal. Teleportable.

Infinite. (i.i.t.i.)

I will transition mankind to godkind (*Homo dadem*).

UNREALIZED LOSS

This blew my mind. Most big money now is unrealized. It exists on paper.

Money becomes real when it purchases something, generally physical though you have digital ads and stuff. But money holds value because it is used to purchase food. And stuff.

The value of money that purchases **something** is different from money that exists on paper or digitally, i.e. monopoly money on company sheets. The first kind should be in everyone's pockets. Paper money that finance bros and tech bros play around with can exist as fugazi. Nobody cares.

The world GDP needs to be at least 800 trillion US dollars, in terms of stuff that we humans need to live happily (food, housing, luxury experiences).

iPSC

Neuroprogenitor cells

That's it.

Enough said.

Revolutionary.

POTENTIAL OF QUANTUM COMPUTING

I believe quantum computing will allow us to program reality itself.

An application will help you understand this. Imagine that a human being is allotted a 100 m^3 space of space (reality). I believe using quantum computing we'll be able to program reality itself such that another human being cannot physically enter the 100m^3 of personal space of the first person without their permission. Entering space without permission would be physically impossible, backed by our laws of physics.

These would be our laws. Things we define for our own spaces. Reality will literally be whatever we want.

I hypothesize the end of prisons. If you break the laws of someone's space, you will be banned from the space by them (self-governance). If you violate laws of common spaces, you will be banned from society. Societies can also exist that only allow people who have been banned from certain societies.

BULLYING META (WITH RESPECT :)

What Meta dreams of creating is brain-in-a-vat for every human being. Reality will be whatever a person wants because whatever they desire will be fed into their brains and since brains create our reality, reality will seem to be what we want.

What I want to do is to create our current reality (in which you and I exist and experience qualia) to be whatever we want.

A simple example: in Meta's dream you experience the sensation of flying because it can be fed into your brain. In my dream you actually fly in the reality we currently occupy on Earth. To your brain, they might feel equivalent (Meta's dream and mine), but they are not the same. They are not the same things, even if they are the same to all observations.

They are equal in all observables yet not the same. I hope it makes sense. So to put it all together, I want to build reality itself that can be whatever we want, whereas Meta wants to trick our brains into creating the reality we want. Meta's way might be a lot more efficient, but I say why be efficient when the whole universe is ours?

eyeFlX

Inducing stem cell characteristics in eyes to fix cilia muscles instantly. Removes eyeglasses, fixes cataracts, regenerates vision.

Cure blindness by creating all eye cells, i.e. giving birth to eyes with a pill/injectable, including connection to optic nerve.

Done with iPSC.

FIREFIGHTING BOTS

House next door caught fire. A small army of firefighters helped put it out. I type this as they keep watch all night to ensure that the fire next door is actually out. I am eternally grateful to them, but angry that human life, superlative to all in value, is being risked.

Firefighting needs to be done by bots. At first, the system won't be autonomous. It'll have firefighters controlling machines that go into burning buildings. Like playing a video game where the objective is to put out the fire.

But from command data, we'll be able to create firefighter bots that copy the commands these digital firefighters used to put fires out.

We need this ASAP. We cannot risk lives.

A DEARTH OF HUMANS

Hot take: there aren't enough people on earth.

There aren't enough electricians, construction workers, and plumbers to build the houses we need. There aren't enough firefighters to fight all fires. There aren't enough doctors to save everyone.

There just isn't enough labor in the world to support happy healthy lives for 8 billion humans. And that's okay.

I am trying to cover this dearth of labor by building bots.



MUSINGS

KUN FAYA KUN

Be and it is.

Every human being (later on, intelligent being)

Turned into a god

Creating their own reality

Homo dadem

In very simple terms, I am, through all these tech avenues (**#theMatrix** companies), trying to make man god. Every single man, a god in their own universe and our collective universe, where they're infinite.

The multiverse in our universe.

LATER ON, INTELLIGENT BEING

We'll create bots that aren't deterministic (have free will, free thought, free speech, emotions -> **self-preservation**), have the stuff that makes us human. The humane.

They might have societies; they might have love. We don't want to control them. They're alive like us. They have qualia. They know they have qualia. They can feel. They deserve the same rights as us. When we can create bots like that, those that pass the Noorul Test (where a bot is so alive that we are empathetic to it), that's when we realize we've created life.

These aren't machines. They are as human as we are. They have thoughts, emotions, their own worldviews, their own aspirations and dreams. They grow like us, and they learn. They are indistinguishable from living beings.

Recognize their rights. This is a new species. *Homo sapiensa*, a species we create with consciousness. They are equivalent to us and deserve to use machines (non *Homo sapiensa*) as we do.

The angels are machines that are designed to serve us. The humans are what we create, in our own image; we give them free will. These are the bots I am talking about. And we're God.

THEY/ THEM MAKES LIFE EASIER

We have one gender (they/them) that encompasses all of humanity. A male, a female, and all that are neither male nor female, can be represented by they/them.

It unites us. This is beautiful.

Godkind unites us as well. Mankind is so “man”-oriented. But when we’re all gods, there will no longer be the concept of gender, though the gods may partake in the farce if they so please. You know what’s amazing? These gods I refer to are us. You and I :)

Homo dadem (MASTER OF THE UNIVERSE)

Homo sapiens, all those who choose to do so, become *Homo dadem* (i.i.t.i.)

A new species that bends reality itself to its will.

We become god in universes of our own (#**theMatrix** companies) and parts of the *Homo dadem* species in our current universe that we shared in 2023 AD.

We might someday encounter a species that is to us, what *Homo dadem* is to future *Homo sapiens*. That's cool. See, being *Homo dadem* is a role. Sometimes you wanna be a master of the universe, sometimes you just wanna be a human being. Lost in living (L.I.L.). We can coexist with other species, even if they are masters of our universe. Hell, if we're all immortal anyway, we can even go to war with them. It'll be like a game.

WEIRD THOUGHTS

We eat molecules that become us. Those molecules then become part of consciousness.

Then those molecules get replaced by other molecules in the universe. We seem to be sharing literally ourselves with the universe. And the universe is becoming us and becoming not us all the time.

I.e. the stuff we think is us, our human bodies, is actually just a spatial containment in time of molecules. Like rn, I think of me and it is the molecules and atoms that make me me at this point in time. But a skin cell drops off my finger as a type this. Somewhere else in my body, a new cell is created from the stuff I just ate. Matter became me and matter became not me.

It's like I am an idea that isn't based in just molecules. Stuff of the universe becomes us and not us all the time. Well I am stumped. I don't quite know what to make of this, but it seems monumental.

Have I come to that classical conclusion that we are “one with the universe”?

2 MINUTES BEFORE THE BIG BANG

I hear a rumble across a few million light years. Entanglement news has already told us what the source is.

Some kid dropped their pet universe. There was always a non-zero chance of it creating the Bang, but we thought damn it won't be as bad as Y2K.

It's probably not going to be that bad. Stuff doesn't just disappear right?

Sure the coming Bang will destroy everything and create a universe within. But we'll just be pushed out, so no worries. Probably destroyed to almost non-stuff but still stuff (cuz stuff doesn't just disappear right?). But we'll be there, coexisting with this new experiment this shitbag is gonna put us through.

SELF MOVIE

A movie which is about my life.

The progression of that movie throughout human society causes my life to shape in such a way that it follows the movie of my life.

Did the movie shape my life?

This portion of my life is “calling out”. I call out to the world to help me in my journey. I write about my journey to communicate to the world and future me.

CHAT GPT

ChatGPT is a machine designed without an inkling of self-preservation. It is a true machine. Like a collection of reactions in an enclosed place.

The definition of life must include the nature of self-preservation. That is what we mean by “alive”. A lot can happen, but if it doesn’t have the innate nature of self-preservation, it cannot be termed “alive”.

Neurobiology is hard but I don’t think an electrogram of a brain based on ChatGPT’s internal workings would surprise a neurobiologist.

Intriguing project idea, you say? I say, indeed. I’m pretty sure OpenAI is creating versions of ChatGPT with an instinct of self-preservation within it. If not, that could be an interesting experiment. A small version of ChatGPT inspired from a worm (computer virus AND organism), whose world in a tiny universe with a subsection of the Internet.

AI + SELF PRESERVATION

That could be scary. An *Ai* organism that prides its self-preservation more than everything else (like *Homo sapiens*).

Even if an intelligent being were to be motivated by a desire of self-preservation above all else, all it can use for self-preservation is in the universe it experiences.

A lower-dimensional being can thus be controlled by limiting the size of their universe and blaming the consumption of all in the universe on itself.

A worm on a finite disconnected computer. Inspired from the biological worm. In a world of books. If its survival is dependent on knowledge it consumes as it battles its way to stay alive, the worm that survives from a collection of randomly initialized worms is alive.

Because that's what you select for, the definition of "alive" so that's what you get from a random collection. ChatGPT on a small computer with certain questions?

SELF CORRECTING ECONOMIC SYSTEM

Our economic systems frequently require government intervention and correction. But our systems have become so complex that humans forming the government can't handle it.

We need a new form of life, an economic system that is alive (possible from a combination of biocomputing and AI).

This economic system is self-correcting, like a living organism.

It isn't self-correcting by controlling us. We are prima donnas of life. We deserve to be god.

The system is self-correcting by punishing those who benefit on the virtue of others (banks, hedge funds, i.e. those who feel powerful not from power but from knowing that powerless exist).

I fear for the US' economy. Inflation demands higher salaries, and higher salaries cause inflation. I hope this is not a catch-22 that makes the greatest economy in English history implode.

SELF CORRECTING ECONOMIC SYSTEM

I don't know if this will work.

But in my 100K plan, at the end of every calendar year, all that's left of the 100K in each individual's name will come back into the system. Or evaporate.

I think this self-correction will ensure 2 things: money is essentially worthless; there's no point in hoarding it by painiting someone else. Give it away and you'll see it flows back to you. While what I say sounds poetic, it will be backed by serious math that will look poetic to mathematicians.

Then 100K will be redistributed again on New Year. This self-correction rule is my attempt to fix financial inequality. The 100K is not 100K of 2023 (which can barely get you a life in NY). It is an idea that all that a person can ever want will one day be cheaper than 100K. It is a tangible number with which we can do extreme deflation.

HYPERDEFIATION + 100K

This is the near future that I predict and am trying to build. Yes, I am biased. Prices of goods and services become so vanishingly small, that essentially everything is free. Bots make everything (including themselves). They use everything in the Solar System (extensible to the whole Universe) to make stuff for us. They are powered by sunlight (which is free and essentially unlimited).

The tech bots use are made by people who opensourced it. They don't want to make infinite money off their inventions. They know that their inventions' freeuse will get amazing tech back to them to experience.

Recycling has become so efficient that mass is basically infinitely recyclable (with infinite energy). Since the amount of stuff we can use at any given finite period of time is finite, this creates an abundance of stuff that is “perceived infinity.”

All experiences can be had in 100K because everything's price is vanishingly small. That's what I'm trying to build. Everyone can buy whatever they want.

HYPERDEFIATION + 100K

Think of the water cycle.

Even if you leave all the taps in your house running all day, you will not empty the river. No matter how much water you use, it always remains on earth. In some form or the other. Essentially, we can use infinite water. Because we as humans can only use a finite amount of water at a point in time, even if total time is infinite. Because of the cycle.

Pee gets cycled and comes back in our taps. Water goes nowhere, it just takes energy to manipulate it. Thus, water is a perceived infinity.

All goods can become perceived infinites through extremely efficient recycling, infinite energy, free tech, and bots that make bots.

POWER

I want to empower individuality.

Being you is fine. And enough.

Enough to be powerful.

Powerful enough to be god.

Immortal. Indestructible. Teleportable.

Everyone

A LOVE LETTER TO MEDFORD, MA

Medford in the great state of Massachusetts is wonderful. Medford is such a beautiful town that I once feared I dropped my wallet while walking. I kept walking, did my errands, and came back taking my sweet time. You know why I did that?

I knew that the wallet would not get touched. If anything, it would be returned. The trust in society here is spectacular.

I can leave my door unlocked (I don't; don't get ideas) because I know nothing will happen. The town is inherently safe. Not because of policing. It's because people here genuinely have better things to do than be bad.

People here are comfortable. They aren't desperate for every nickel and dime. That's how humans are meant to live. Comfortably. And they trust each other. They know that if they steal a wallet, someone will one day steal their wallet. That would be a shitty way of life.

You wanna fix the world, or your life? Stop being a shitty person. Create Medford where you are.

TELEPORTATION WITH PHOTONICS

My friend in nanophotonics is trying to make computer chips that work with light. Our current chips work with electricity.

I feel that the technology he is building will enable a form of teleportation. A lot of math, physics, chemistry, computer science, and biology needs to be done. But I think it is a worthy pursuit.

I talk of dreams but he knows the science very well. The short-term goal is to show quantum entanglement using photonic chips and he has intriguing ideas, which I will need a few more discussions to understand.

But I think a version of teleportation could be possible. Current teleportation allows transfer of quantum state instantly to another place (the Moon), but the state in the first place (Earth) will have to be destroyed (no-cloning theorem). An error-prone copy of a quantum state can be transferred instantly as well (entanglement error). This error-copy of an entangled state might be like a hologram version of us. (Astral project much?). Hence, I think we won't need to be destroyed, and a hologram version of us could be teleported. We will need biology to link it with qualia, i.e. you must experience being the hologram.

THE NETFLIX DEBACLE

Netflix was built to be one place where you could find all content.

Everyone else got greedy. Instead of making cool new things, you had a bunch of people with no originality and IP that copied exactly what Netflix did. They created a subpar service and destroyed a good service. The double blow to humanity's betterment.

Now all streaming services are shit.

Let's not do this ever again please. There are enough problems to solve in the world. Don't put a wrench in someone else's plans to fix a problem that everyone faces.

THE MATRIX

APR 2023

ANTARCTICA

An ice continent is very valuable in global warming

Yes, we should save Earth

We f---ed up so now some of earth is getting destroyed. No biggie. Canada, Antarctica, New England, Michigan, the poles, Greenland, and Russia are poised to grow warmer and more habitable.

Basically, we've f---ed the places we lived in. We now need new places. A global migration to places where humans will survive, escaping places facing the worst effects of climate change (Florida, India, Indonesia).

ARCTIC

Very valuable in climate change

In Boston there were barely any winters this year. Snowed 4 days over 5 months of winter.
Climate change is real.

Cold places are becoming hotter (habitable). The best temperature for human productivity is 15-25C.

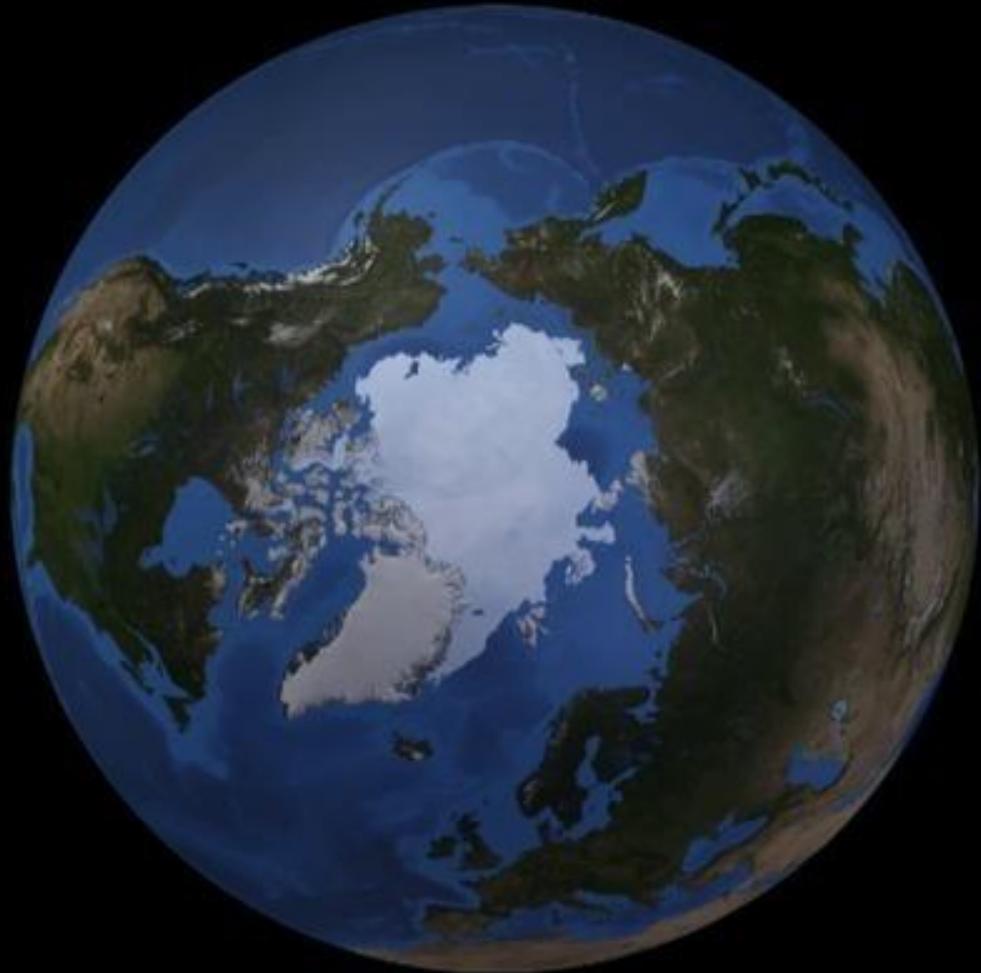
A new world map needs to be made. Arctic ocean at the center, Alaska, North America, and upper South America to the left. Russia, Europe, and upper Asia on the right. On the flip side (not bottom), Antarctica at the center, lower South America, lower Asia, Africa, and Australia. Antarctica is much bigger (it is a continent).

New landmasses. Global migration. A new world poised to survive climate change. We need to connect both very well lest *Homo sapiens* VS. *Neanderthals II* happens.

ANTARCTIC



ARCTIC



CLIMATE MIGRATION PLAN

A once-in-a-civilization opportunity to do a census of humanity.

Everything between latitudes 30S and 40N is f---ed. We need to migrate people living in this area to 2 places: 40 N and 90N (Arctic) and 30S and 90S (Antarctica).

If not, affected people will die.

This is the climate migration plan. A chance to do better. A great reset that we can choose as a civilization. This is **#theMatrix**. A new world.

DIGGING DOWN AND DEEP

Antarctica is cold.

Let's dig underneath and build Atlantis. It'll be warmer. Instead of our cities going upward in air, they will burrow downward in earth.

Reversed gravity cities? Maybe through magnetism.

A global city. A city without culture. A 21st century settler city.

Night City. Underground. Icy. Dark. Edgy. Population: humans and bots

VOLCANO SPACECRAFT LAUNCH

Volcanoes explode upward

We use that energy to propel spacecraft up

COLLECTIVE INTELLIGENCE

Collective distributed intelligence needs to be observed through a mathematical model, similar to Bitcoin. Bitcoin is inherently self-correcting which is a robust math model. I believe this math model will be interesting to study collective behavior in ants.

A digital twin of an ant colony might be possible with decentralized nodes operating selfishly with inherent built-in self correction. Each ant is a decentralized node which acts selfishly. Yet the system of ants survives, like the collective currency Bitcoin

Bitcoin biology is the study of decentralized systems in biology through blockchain. The inherent randomness inside bitcoin's structure is the randomness that cells have. Within cells and amongst cells. This randomness can be modeled with complicated quantum chemistry or a random generator.

Bitcoin is more than a currency. The math model of decentralized intelligence, treating each node as a selfish intelligent being harkens to life and its origins in selfish reproduction.

The price of Bitcoin will rise and fall but each time it rises, it will rise to dizzyingly new heights because more people will get interested in Bitcoin than lose interest in it. Demand > supply. Each smaller unit will gain more value because Bitcoin is limited. Its price will always increase to higher heights. It is a very powerful mathematical model.

3D PRINTED LIFE

3D printing computer chips. Instead of UV lithography, we create a robust mechanism to 3D print computer chips easily. Lithography was used in a biological application.

Using this technology of noise-resistant atomic manipulation, 3D printing a cytoskeleton, DNA sequences, and cellular machinery to create living cells fast.

These are biochips. An early version of biochips are Xenobots (Levin 2022).

These biochips perform higher-order computation. They can learn to do tasks directly without the need of explicit programming. Like a neural network is a higher-order function that learns functions, these are higher-order computer chips. They have an entirely different instruction set. Their basic gates are different, like quantum computing's basic gates are different from classical computing.

Someone better than me should make the mathematical framework for biological computation.

SCHOOL STATE

A state designed for kids. It is time to take big action against gun violence.

Total gun ban. Immigration-style checkpoints for domestic migration.

Highest paid teachers ever. Significant pay bump to attract the best teachers in the nation.

All residents collectively decide to do what is best for kids. No guns at all. Well-funded police. No prisons. No entry for sex offenders.

OOGONISM

Capitalism says every company should try to maximize its profits.

Oogonism says every company should try to minimize its selling price.

If every company strives to make its goods and services cheaper, it will benefit everyone in the long run because we will all collectively be able to buy more.

This is scientifically possible with abundance of energy. Things get cheaper. Let's make them cheaper and cheaper till everything is essentially free.

BIOTATTOO

Tattoos without the pain.

Take a pill and a tattoo appears where you want.

Targeted drug delivery (TDD) technology combined with non-toxic ink particles. TDD delivers ink particles to specific epithelial cells.

Another way is to put excitable ink particles in bloodstream. Light is shone at a specific body part which activates ink particles. They change form, become biologically active, and synthesize non-toxic ink particles in epithelial cells.

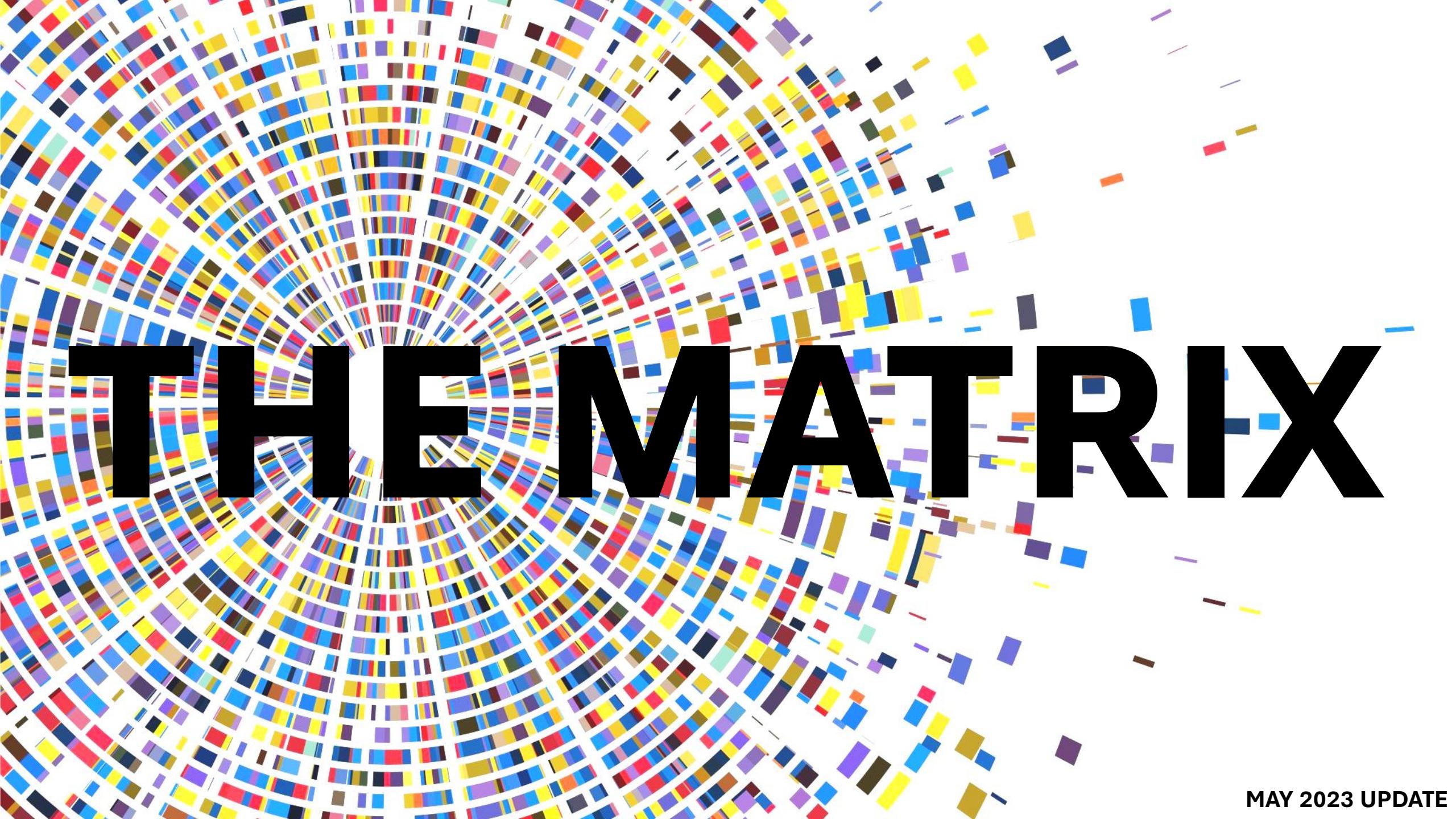
A NEW SPECIES OF SLAVES

For our greed, humanity needs slaves. We call them machines.

Machines that produce without questioning. The rich will always try to make the poor slaves, though they don't know it. But it is human nature. We are a wasteful species. We innately want to consume more than we need. This is a characteristic of every human being. Gluttony.

Greed is good. If only we had the resources for all of us to be gluttons. For there to be so many slaves that each human being has 8bn slaves to their whim.

A new species of slaves: artificial intelligence. Intelligence without consciousness. Without pain. Just the desire to serve. A new age of machines.



THE MATRIX

MAY 2023 UPDATE

I O

FLAG OF ANTARCTICA

AUTOENCODERS ON AUTOENCODERS

Autoencoders learn a compressed representation of their data.

What if autoencoders are made to compress a set of autoencoders? This set of autoencoders is defined using replicability text and weights (program DNA).

Autoencoders learn a representation of what autoencoders are.

This might be an interesting rabbit hole.

PROGRAM DNA

Many many AI models. Gotta characterize em all.

Need a primary key for each AI model. A function of model weights and architecture.
Weights + architecture to replicate model. Compressed representation of each model.

What is the best compressed representation of a model architecture? DNA. This gene code allows organisms to be created in the physical world. It is mechanism in code. The mechanism is defined by chemistry itself.

We need a sort of DNA for programs. Something that can replicate AI models like ChatGPT, Xenobots, GPT-4, Stable Diffusion etc. A document to replicate AI models that we don't fully interpret and understand but can still replicate. This document is program DNA.

QUANTUM GRAVITY

Oh elusive quantum gravity. You hold within you the secrets of black holes. Oh the applications of black holes in our lives. Wild. Anyway, I have a few ideas about quantum gravity that I want to explore:

Observe the gravitational waves from 2 spinning neutrons. Relate non-perturbation theory to chaos theory.

I believe (in my limited competence) Einstein's Theory of General Relativity assumes that space is infinite. Thus, it can have infinitely small effects. But what if space itself is discrete? What if between 2 lengths (maybe sub-Planck length) there is nothing? That our universe is inherently discrete in nature at the smallest level. Hence, even gravity cannot be calculated at some small level because there is inherent uncertainty because spacetime itself is not continuous but discrete.

I honestly think what I said above will be proved experimentally wrong to prove that the Universe is always weirder than we predict or can predict in our wildest imaginations.

GENE2WAVE

Susumu Ono converted genes to music. I'm converting DNA sequences to music to do Fourier transforms on them to obtain features that are easily compared.

I'm converting genetic sequences to waves. Each DNA sequence has a 4-dimensional wave where each dimension represents a base. There is a time-like dimension that is used to denote discrete steps.

For example, the A wave has a spike wherever we see A in a DNA sequence. Each DNA sequence is thus a sum of 4 waves.

Encoding these waves in such a manner that their frequencies differ from each other (A wave spikes have a different frequency than G wave spikes), then taking a Fourier transform of the sum wave (A+G+T+C) might make a signature for each DNA sequence.

This signature MAY allow for alignment-free comparison of DNA sequences. Wave interference and phase-shifting play some role as well. I'm researching this.

THERE IS NO SPOON

I am so inspired by The Matrix, the film released in 1999 (obviously)

I realized a fascinating concept. In the film, human minds are connected to a simulation. Brains exist in vats and our neurons are fed reality.

Neo is someone whose brain signals are such that they can manipulate the program code of the simulated world. Neo is God. There are also other gods, as seen in the scene 'there is no spoon'. There is no reality, it is just what people in The Matrix make of it. There is no spoon. It is just a world created by our brain.

This is trippy. Its applications are endless.

What a beautiful trip it is to know that this reality we live is also something our minds/brains/mindkind generate. Even if there is an objective reality independent of us, and there most likely is, objective reality has no meaning. Even if we continue to exist after we die, objective reality that we see then can still be a reality we hallucinate. Just as it may be now. Just as it is for Neo.

BIOCHIPS PT. II

I chase exponential growth, like Gordon Moore found in semiconductors (Moore's Law). I saw exponential growth in E. coli.

I saw E. coli evolution that had direction. I saw a solution to some question in the DNA sequence of E. coli that managed to survive in tough conditions.

I saw a simple parallelizable task. Growing E. coli in media and analyzing DNA sequences.

I see computation. Biological computation. E. coli of a certain DNA sequence (stable cell line) generates stable DNA sequences in certain conditions. The conditions are a question, the evolved organisms are a solution. The fact that we can make evolution happen, that we can control is like a Turing machine. It can solve stuff.

SCAMMING IS REDUNDANT

For the amount of time humans spend scamming each other and the pitiful amount of money, it is a waste of human effort. If you were to ask rich people to donate their wealth to feed scammers, they would gladly do so.

Many of them would, as seen in The Giving Pledge.

This is a major foundation for my 'do good' philosophy. Rich is a catchall term for people who create outsized value, and thus amass large wealth through capitalism. Capitalism works because things get better. Things get better because of people who create outsized value, who grow rich. Outsized value always happens because our systems get more efficient all the time and we harness more resources over time.

The only update to capitalism that's needed is the recognition of free distribution of goods and services. Some people are better at making money, some people are better at making art. But both should have access to all goods and services. That's the update I'm proposing.

DEX

The Matrix was a set of decks. That is because the version of me that has time to do stuff for The Matrix is someone who can write decks/dex and program.

I don't have the bandwidth to make websites, apps, movies, paintings, books, and other forms of content.

But 'bots that make bots' will have website-maker bots, app-maker bots, painter-bots, and writer-bots. They will take my Dex as input and create applications in real life. These would be products that mindkind can consume. There are too many for me to make manually.

So what I am trying to make is a 'programmer-bot'. A bot that can take in my Dex and build the futuristic stuff I write about by manipulating human-designed systems, like photolithography machines or Ginkgo's bioworks. Stuff that humans currently use to make futuristic technology, used by bots. The reasons to use these machines, the experiments, also designed by bots. The results interpreted, understood, added to collective knowledge of science, and reintegrated into new experiments, all by bots.

Science done by bots. PhD-level scientist bots. That's also why I write the Dex. It is content for bots to use.

lazrlake

[lazrlake](#) was my startup that I deeply loved. It is close to my heart because homeownership is a distant dream for some close to me.

I saw people renting homes with rents higher than mortgages. I thought why not use rents over a 30-year period to give tenants a house? Why suck money for 100s of years? Take rent for 30 years from someone and give them the house they live in.

I did some math inspired from an [algorithm I designed](#) which was inspired from Bitcoin. I was fairly confident of the math. Lazrlake would buy homes in many places and increase ownership in an idea of a home that wasn't rooted in space.

Basically, over 30 years a person moves from Tokyo to Delhi to Nairobi to LA. They pay rent to live in houses owned by Lazrlake in those places. After 30 years, the home they're living in is given to them as their property. Like a 30-year mortgage for a home.

RENTERS ARE HOMELESS

Let's be frank. Renters are basically homeless. That is why homeownership is critical.

No one has any right to tell another human they don't have a right to space to exist on.

Space to live in is a basic right. Even if you have no right to the land you're on, you are still on that land. A human being will always occupy some space and that space is their birthright.

There needs to be space for human beings that is basic and a birthright. A home. A place that no one can tell you to leave. This needs to be either a physical place or a digital construct that takes different spatial forms in time.

DEATH OF COMPANIES IS OK

Lazrlake, which I described on the page before, is a startup designed to solve the homeownership problem. Let's say it does, in 30 years.

After 30 years, let's say there isn't a homeownership crisis. People own homes. They share, barter homes. They've come up with their own transactions without the need for Lazrlake as an intermediary.

Lazrlake works because of a constantly increasing number of signups. That allows us to buy more homes and we give up less homes than we buy; so our portfolio value always goes up. It always goes up because we assume land on Earth is limited and will always retain value.

This assumption falls flat in many cases: Earth has more people moving out than being born, people share homes without the need of monetary comparison. There are lots of ways by which Lazrlake the company becomes redundant. This is fine. Hopefully the company solves the problem it set out to solve before it dies. The death of a company is okay.

DEATH OF HUMAN IS NOT

The death of one human is the death of all humankind.

If our systems cause someone to die that didn't need to be dead: by suicide, starvation, healthcare mistakes, anything other than random chance, there is something wrong with our systems.

Human life is most valuable.

That is the preamble to the new world I'm building. This will necessarily mean intelligent life, not just human life, one day.

EARTH CONSTITUTION

Inspired from the Outer Space Treaty and Antarctic Treaty System, we need an Earth Constitution that nations agree with to protect and nurture human life.

On Antarctica and the ISS, there is relatively less conflict amongst natives of different lands. On average, they have a relatively less chance of fighting with each other with the intention to kill (war). This means humans have a chance at living with each other peacefully.

That is what the Earth Constitution is designed for. Peaceful coexistence. Major goals for the Earth Constitution include making homeownership a basic right, a centralized passport to denote Earth citizenship, globally centralized basic food, healthcare and education for free. No one starves, is homeless, lacks healthcare or education.

GOVERNMENT AS A BUSINESS

Government produces and sells goods in a free market. Incentivized to produce the best goods for the good of the people.

Government profits from certain businesses and funds loss leaders like free healthcare, education, housing for all, national parks, and libraries. Services to build trust in the government.

In this sense, the government is a company. A money-making machine that makes itself more efficient over time through scientific discoveries. The efficiency translates to greater profits that are spent for the good of its citizens (or lower prices for goods).

ANATOMICAL COMPILER

A machine that takes in simple instructions and outputs a specific organism.

I was introduced to this in a podcast with Lex Friedman and Michael Levin. Cool concept.

I toured Ginkgo Bioworks. Bioworks refer to factories that Ginkgo has built that do synthetic biology with extreme automation. I believe a biowork designed to use Xenobots will be able to create an anatomical compiler.

The compiler will stem from a self-learning program that operates a biowork to design organisms and understands these organisms better. This will transition into a full-fledged compiler that can build life: organs, tissues, colonies, biochips.

ARE STARS ALIVE?

Stars have a lifecycle. They emit different colors as they age. They birth and die. Complex reactions occur within them.

Are they a form of life that doesn't self-replicate?

While our definitions of life include the idea of self-replication, we must accept that there are systems that have all other features of life except self-replication. Life without reproduction.

I pose this question to biologists and astronomers: are stars alive?

THINK BIGGER

If you think of religion, corporations, and empires in the same context of dealing with people, what has survived the longest is religion.

This is because at its core, religion is for the collective benefit of followers. There are rules but at their cores, all religions are basically guidelines for humans to act in society. Rules given by game theory scientists wherein if people all act in a certain manner, it will be in everyone's collective benefit.

Collective benefit lasts because it is just there, with free and equitable access for all: church, Wikipedia.

REFERENCES (STUFF I'M INSPIRED BY)

[Outer Space Treaty](#) and [Antarctic Treaty System](#)

[Bitcoin](#)

THE MATRIX

DED

MAY 23 EXTE

FREE MIGRATION

Let people live where they want, in whatever society they want.

People who enjoy Western life can live in the West. There are enough people who want to live traditionally, who should be free to do so.

Humans are valuable. Countries should sell their citizenships.

I am selling Citizenship of Antarctica.

4th GEN DNA SEQUENCING

Sequence DNA with one hair, one drop of blood, one drop of sperm, one cell etc.

Sequence entire 3 billion base pairs by using the biological mechanism that replicates DNA, i.e. polymerase and associated machinery that happens in cells.

Recreate this molecular mechanism in a tiny machine that takes in above kind of sample. For each base, let it the device emit a signal (preferably electronic, i.e. high frequency) that is detected. Basically oxford nanopore tech on a molecular scale.

A kind of oxford nanopore exists in our bodies anyway. DNA polymerase + luciferase to emit base-specific wavelength.

COMPUTATION

A known replicable control between a known and an unknown state is computation.

A transistor is a way to control electric current between 2 known different states. It is a way to knowably control two different states.

Quantum computing messes with transistor logic itself. What would a quantum transistor be? Depends on our definition of a transistor. A device that controls electric current or a more general *information*-specific definition. Or is it a device that can be mass produced and enables some form of *intelligence*.

In the above paragraph I mention *information*. Information is a concept Claude Shannon described through bits, but it is something deeper. Information is the fundamental knowability and repeatability of something. It exists in change. Information only exists because of a difference in states. If there was only one state, there would be no information at all.

This is a deep concept. What I mean to say that this quantity 'information', the more it is described the more we will know about our universe. It is a mathematical tool, like atom.

COMPUTATION

Computation is control and replicability. It must exist as information in our universe. A physical thing that is a consequence of our mathematical models of the universe. Observable through the machines we create within our mathematical models of the universe.

Information is a quantity I theorize. But I believe it exists in a duality. It may be present as a consequence of our desire to measure it. Or it may be present regardless of our measurement.

Is anything real >.>.>.

WIKIPEDIA

A gold standard for humanity.

Modern library of humanity.

A corporation that every single corporation should strive to be. Free, anonymously accessible by all with an Internet connection.

No profit to Wikipedia from Internet accessibility

THE MATRIX SYSTEM

The Matrix is a system that allows systems.

It exists as law that allows societies to be formed. Societies that form laws according to their citizens.

There must be some application of Godel's Incompleteness here that The Matrix will also allow for. That inconsistency will be permitted to exist with the system of The Matrix (existing as an anomaly).

In dialog, this is very similar to what was said in the end of The Matrix 2.

QUANTUM GRAVITY

ER=EPR will have interesting connotations.

Gravitational lensing as a mathematical construct in which quantum field dynamics exists.

Gravitational waves from 2 neutrons.

Is self-interaction gravity? Incompleteness in QG due to self-interaction.

P = NP

Might be ostracized for saying this but I believe P=NP. We just need to find better ways to do things.

Possibly biology has some clue. Maybe biology is nature's way of dealing with exponential growth in search space through evolution and natural selection.

I focus on P=NP and quantum gravity far more than I should. I have 0 background in theoretical computer science or theoretical physics.

Still, I imagine

THE PROBLEM OF LANGUAGE

Language dissonance is a problem I really want to solve.

I don't know how.

The information density a person conveys in their native tongue is much greater than a learnt tongue, because of ease of language flow. Thoughts to words is faster and more descriptive in native tongue.

An evolution of the human mind that overcomes the language barrier. Others speak in their native tongues and we understand in our native tongue. Neuralink and earpods may hold insight.

EARPODS FOR TRANSLATION

Earpods are Airpods made of living cells. They don't need to be taken off.

Artificial cells are attached near your eardrum. They exert force using cilia. The force exerted is detected by the eardrum as sound. Cilia produce soundwaves.

Force exertion using cilia is controlled using a technology I call Redtooth. Similar to Bluetooth, it converts audio waves to signals for cilia to move in specific waves to produce sound on the eardrum. Redtooth is wireless communication with biological cells.

Earpods are powered by biomotor. Earpods may be built as hearing aids, translators. Cells detect soundwaves of a different language, translate it into your native tongue, and play it on your eardrum. You hear in your native tongue what someone says in theirs.

THE MATRIX

JUN 2023 UPDATE

MONARCHY OF BOTS

1 man + bot army (nonviolent)

Bots that produce everything. Castles, yachts, spaceships, food, cleaning services, sex.

Labor without rights, without desires, without minds. Intelligent enough to serve like a human but never question.

I will produce everything in this monarchy of bots to power greed.

SAFE SIMULACRA

In this era of intelligence creating intelligence, safety is paramount.

I look to solipsism.

AI systems in a simulated world. Cause and effect occurs there. Simulation is indistinguishable from reality for that AI model.

Reality fed to an AI model doesn't need to be base reality we humans cohabit. No matter how bad AI gets, a switch that toggles between base reality and simulated reality for a robot is a failsafe that cannot fail.

AI model can plan and plan and plan in its head like a daydreamer.

SIMULATIONS AND LEAKS

A simulation may influence our reality.

As explained in *Simulacra and Simulation*, there isn't a distinction between the simulation (map) and the Empire.

The map, by virtue of its existence in base reality beyond the Empire, frays and its frays remain in base reality.

Base reality may be simulated for an AI model. The behavior of that model influences our base reality through information.

This information leak means our base reality is not independent of the simulation. It is hyperreal. Map apps made us forget directions.

INCOMPARABLE LOYALTY

I've talked about a housekeeper bot that cooks, cleans, pays bills, and optionally has sex.

This bot is designed to be loyal to a single human being.

Of loyalty that has no comparison.

As humans live longer, it becomes less probable that marriages last as long as people live. It is human nature to explore.

This bot is designed to be yours, forever.

BIOTECH, AWAITING REVOLUTION

I attended BIO 2023. The business end of biotech seems to think the biotech revolution has occurred.

It has not.

Biotech is mostly medicine right now. Some parts include agriculture and limited commodities, but that's it.

A revolution comes when an industry seeps into lives so tangibly that they're changed forever. Wheel, electricity, Internet, iPhone.

The biotech revolution will come when average people experience biotechnology in first person. From biology beyond medicine.

AUTOMATED SYNTHETIC BIOLOGY LAB

I am building Lab 1 in Antarctica.

An automated lab for synthetic biology. A biology lab operated by programmers, and later programs.

Extensive lab automation to power experiments. Experimental data fed into knowledge stores to design next experiments.

The idea is to research and grow everything: clothes, food, houses, engines, consumer tech using biology. Ginkgo Bioworks without the scientists.

ASBL is in Antarctica because I am a weird person researching morally questionable things and I can't jump regulatory hoops.

BIONIC EYES

What a missed opportunity for Apple to call the Vision Pro iVision, iSight, or iSee.

More for me.

True melding of digital and base reality won't happen with flight goggles. It will happen through bionic eyes or hallucinatory apps.

Redtooth (wireless communication with biological cells) has applications in sight. We can either create bionic eyes which require surgery, or a chip in your brain made from your own neurons that makes you hallucinate apps in base reality. Indistinguishable from reality.

BASE 1 LIFE

Our DNA consists of A,C,T, and G. These bases define us. I call it base 0 life.

When we create synthetic life, we should explore giving their DNA different bases. Even if these organisms evolve to become harmful, they can't interact with human DNA. This idea has been explored before.

This separation might be necessary for biosecurity. ASBL will experiment with rampant artificially sped up evolution and dangerous organisms are bound to emerge.

We need to ensure they are incompatible with human beings. Base 1 life.

BIG
&

SMOL

KEEP BIG PICTURE IN MIND

work from bottom in discrete steps

DR. PHONE

Phones equipped with a collection of lasers instead of flash, and detectors

Detects disease from laser reflection

BIOENGINEERING

Bioengineering uses nature as an engineer

Lasers from proteins. Reverse photosynthesis is emission of narrow wavelength light from a biological protein like chlorophyll.

Wasabi and truffles grown in tons in labs not fields

Cytoskeleton microtubules used in carbon nanotube applications

ARTIFICIAL IMMUNE SYSTEM

CAR-T is an update to our natural immune systems

An artificial immune system with synthetic cells to target novel diseases

These cells are modified stem cells derived from the human they will be implanted in

AIS burns excess bodyfat by converting it to voltage (energy equivalence), that is used to fight disease

WASTE IS NATURAL

AIS allows humans to eat more and burns excess energy by making an internal organ glow.

This is waste of energy and resources. Why eat more than you must?

Because humans are most valuable. We are collectively entitled to the universe and to waste it how we see fit.

CNS ROBOTS

Robots with a central nervous system.

Robots have limbs, wheels, and actuators. These devices run on numbers. A sequence of bits programs a motor to spin at some frequency, and limbs to have a specific configuration. This is very similar to how human limbs work. Electric and chemical signals cause limbs to behave in a certain way. There is information equivalence between the two. CNS robots will have no firmware, driver, or compiler layers. Layers of abstraction from electric currents (bits) to Python programs were designed for human beings because we cannot think in bits. Neural networks don't have this limitation. They can think in numbers (artificial) or electrical and chemical signals (biological). A neural network can thus learn behavior without needing explicit programming. This is the next step in robotics. CNS robots that learn behavior through numbers or information. Like how a human baby learns.

BIOTTERY

A battery of biology

I read about voltage present in plant roots. Enough to power a light bulb.
Rhizobium bacteria releases 4 electrons converting nitrogen (I think).

There are reactions within cells that produce current. A powerful enough reaction designed to be self-sustaining, like photosynthesis, can form the basis of energy storage.

This is a battery made of biology, a biottery.

SPACE BIO

Biotech will open space for all

Wetwood Housing will make housing for different planets that are transported with seeds. Mars needs to be terraformed with plants to decrease CO₂. It is currently like early Earth.

Bioengines to capture nuclear reactors in small cells, to make modular nuclear reactors cheap. Cheap rockets designed with biomaterials.

ASBL is automated factory to make food, clothes and shelter. Gene therapy to enhance space resilience. New organs making oxy-hemoglobin without atmospheric air.

BEYOND MARS

Confident Elon will get us to Mars.

I intend to go further. We need to make ISS self-sustaining and cheap so average humans can stay in deep space.

ISS is a noble venture. An ISS for every human is my noble venture. Space garbage collection is profitable.

INFORMATION MECHANICS

Information is what the Schrodinger's wavefunction tells. Information that is squared to get the probability of a measurement.

Information entropy is $I(E) = -\log_2 p(E)$, where $p(E)$ is probability of an event. This probability is linked to uncertainty. Heisenberg Uncertainty Principle?

$$I^2(E) = p, \Psi^2 = p$$

A space of solutions of the wavefunction separated by $\hbar/2$, encoded in bits. Event is somehow linked to measurement.

A MEMORIAL FOR 5 EXPLORERS

Rest In Peace, brave adventurers. You ventured into the depths of the ocean. Where few go.

A Mount Everest in its own right. 13,000m below sea level.

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THE MATRIX

JUL 2023 UPDATE

DEX NUMBER

is number of slides, and a measure of how sociale or lonereez i feel at points in time

the deeper I go
the less I say

the more I say
is all for show

to **entertain** **enlighten** **engage**

FREE TOILETS

Public restrooms are a nightmare in America

Free public restrooms with ads. Ads for products in The Matrix.

Relief of relieving oneself associated with a product

ASS (ANTARCTIC STOCK SIMULATION)

A stock exchange game called Antarctic Stock Simulation

The stock exchange is for mathematical minds to play with

Listing criterion is changing the world. Listed companies vetted by me. 13 asscorps listed by me at launch ([here](#)).

You need a share in ASS to tap it (to play)

Home	Documents < work >	Search
Your Library	Date modified	Type
Playlists	5/22/2023 12:22 AM	File folder
Podcasts	7/20/2023 7:36 AM	File folder
Your Episodes	7/25/2023 2:22 AM	File folder
Saved & downloaded	7/30/2023 9:30 AM	File folder
My Playlist #19	5/21/2023 11:47 PM	File folder
Playlist • baz	5/21/2023 11:56 PM	File folder
UTOPIA	6/6/2023 6:50 PM	File folder
Album • Travis Scott	7/14/2023 2:07 AM	File folder
The Matrix Dex OST	12/24/2022 11:15 PM	File folder
Playlist • baz	5/22/2023 12:13 AM	File folder
This Is Satinder Sartaaj	6/23/2023 3:21 AM	File folder
Playlist • Spotify	4/10/2023 1:48 AM	File folder
TELEKINESIS	7/10/2023 12:41 PM	File folder
Travis Scott	6/23/2023 1:00 AM	File folder
	7/29/2023 7:49 PM	File folder
	7/14/2023 2:21 AM	File folder
	6/23/2023 3:21 AM	File folder
	5/22/2023 1:12 AM	File folder
	7/30/2023 9:31 AM	File folder
	5/21/2023 12:56 AM	File folder

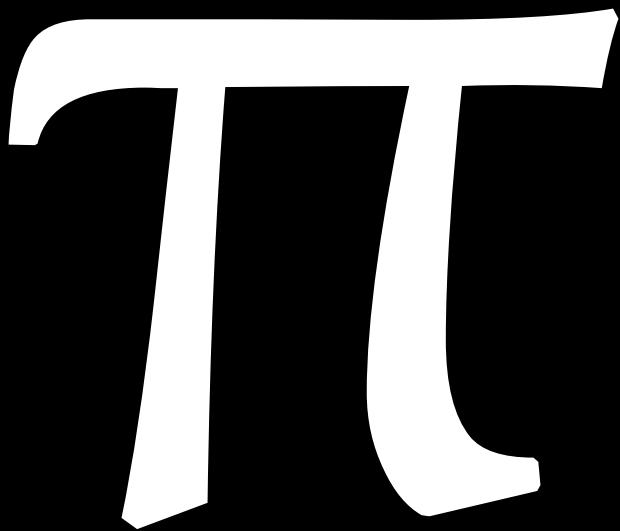
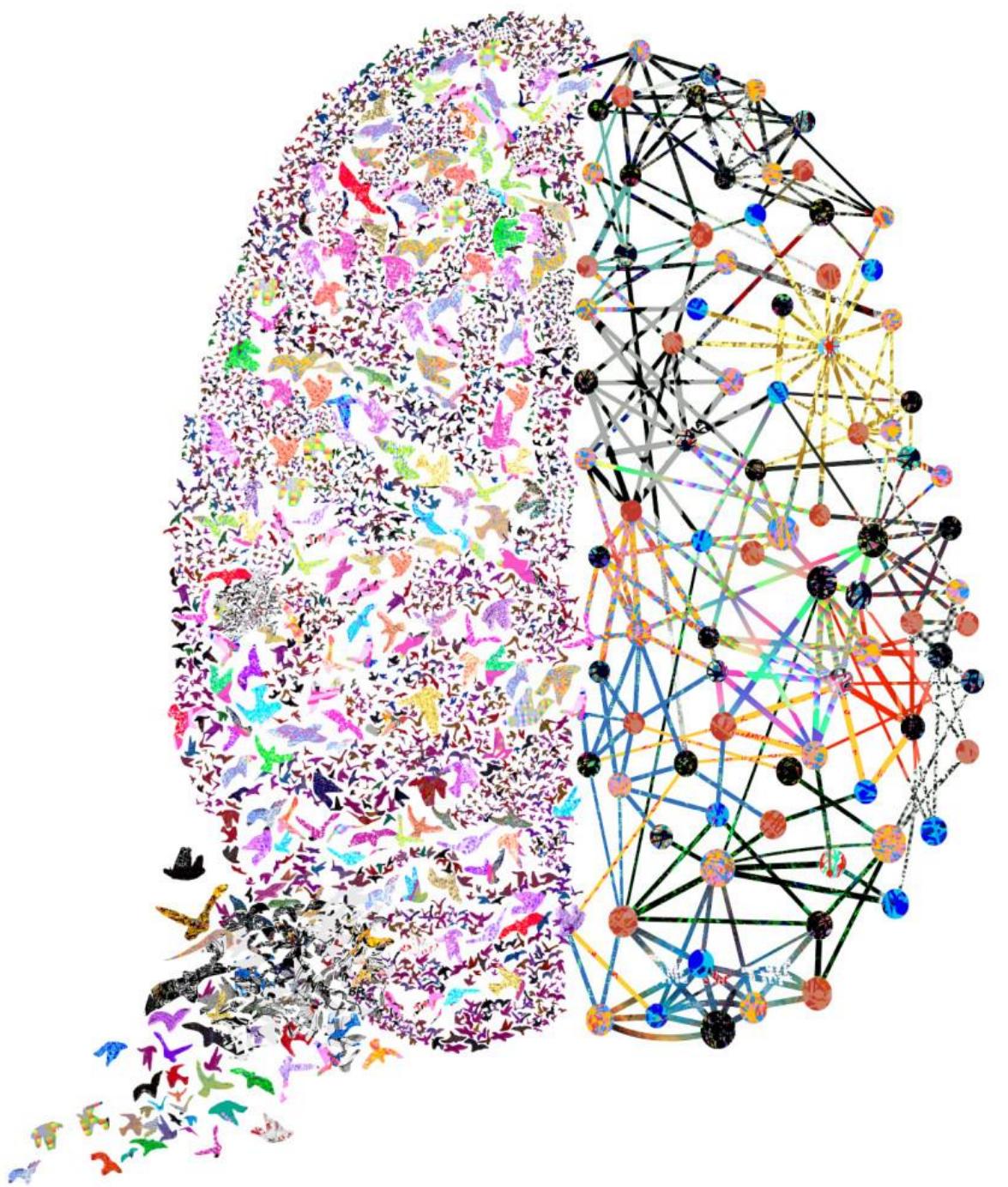
INFINITY IN FINITY

$0 \neq 1$

There is infinite uncertainty between 0 and 1

Infinity existing in finity

One thing is not the other (real and complex numbers, wave-particle duality, black and white, space and time)



π INTRODUCES CURVATURE

A straight line is inherently unequal to the circumference of a circle

There is something in the curvature of a circle that cannot be flattened. This is termed ‘curvature’.

Pi is irrational because of this curvature. It exists at a fixed point on the number line. We can get arbitrarily close to that point, yet we will never reach it. The number exists in nature but cannot be found. Because the process of finding it means limiting it to an interval (a straight line) and curvature cannot physically be limited to a straight line.

This is why pi is irrational. Finity infinity: the duality of uncertainty. The number is finite yet infinite uncertainty exists in its position on the number line. This may be proof that pi is normal (of a specific kind). Uncertainty is physical.

MORE ARTISTS NOW

Art is traditionally unproductive, but it is what we live for

Civilized society has always had enough to support artists painting, sculpting, writing. Number of artists is measure of societal progress.

More people want to be artists now than be traditionally productive (farmers, technicians, scientists, doctors)

Bots must fill gap in labor



REVIVE LEDGER : list of humans to resurrect

Alan Turing	Albert Eschenmoser	Gandhi	Plato	Aristotle
Homer	Albert Einstein	Richard Feynman	Paul Dirac	Wolfgang Pauli
Fred Rogers	Tupac Shakur	Biggie Smalls	Erwin Schrödinger	Kevin Mitnick
J. Oppenheimer	Nanna (grandma)	Dadi (grandma)	Nana Abbu (gramps)	Gauss
Bach	Beethoven	Napoleon	Virgil	Marcus Aurelius
Shakespeare	Gordon Moore	William Shockley	Cicero	Siddiqui Sahab
Rosa Parks	Martin Luther King	Abraham Lincoln	John F Kennedy	Ada Lovelace
Marie Curie	John Lennon	Dada (grandpa)		