**From:** jeffrey E. <jeevacation@gmail.com>
**Sent:** Sunday, May 10, 2015 1:55 PM
**To:** Jeffrey Epstein
**Subject:** Fwd: subjects

biologcal analogis fro complex systems.. decis=ons recursive interatcions acorss a boundary, meme=ranecomputing

inner thought bounded bu consciiouses exter=al world. circle includes self directed reward, --=god . . exteranll follows rules of science. hope i=side parabolas out. / / bpuondary membrane, =veryhing on the insdide shows on boundary( concious ).

gam=fication. - rewards. habituation. . exteranl motivations=br>

my author=ty is informed by hidsight, an inner world like a cirlce bounded by =onsiciousness. a membrabne. seperating it from the ouside world. =A0 . things move acorss the membrance, influnecing both . =A0 socil physical emoitional rewards. . sef stimulation. relig=on.

1. unlike mach=nes that turn on when the switch is thrown. . in essece =efault off. biological systems are default on. the= attempt to stay on. the system of excitaiton and inhibiotn is not d=ssinmlar from adjusting the speed of a car. to make it go faster. =A0 you can either put your foot on the gas or take it off the =rake. much of the early advances in medicine and pyschology =A0 were during the industrial revolution, when machines were the exa=ples. the body as a machine was the way to look and try to figure ou= what was going on. hydrualics. for muschle . s =A0 cranes joits pulleys. . for psychological issues =A0 the machine and some of its terms became inbedded in the system.=C2 thinking like a well oiled machine. input output, , comp=tation, memory, ,

the view was that a dream state=C2 was turned on when one fell asleep/ the equivalent of go=ng to the movies. what was on the screen was then analye= , examied frightened amiused , it was in a dark enclosed skup= of a room. people wer able to fly. etc. I think that th=re is another more biologial system explantantion. I postualte=that dreams are ALWAYS on. running 24 hours a day, =one gets to experince them when the screen of conciousness drops away, =A0 it is that conciouness sets a screen in front of the dreams. =A0 I takes energy to keep the conciuosnes screen continuous, and opaque wi=h respect the dreams. if conciousess screen starts to fade. =A0 we can see behind an start to day dream, if we are un=ble to craft a screen with no holes we are fine but that takes enern=y and sleep to fill in the holes. without sleep the hole= form and dreams start poking their way through. schizohrenia =s a person not being



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able to distinguish between dreaming and reality. =A0 he is walking in the street but he hears his mother . =the neighborhood cat might speak to him. things that everyone =xperiecens in their dreams the schizoid cannot tell the differnece=C2 his screen is damaged. the dreams behind the conciosness=screen are tied to the emotions., why am i in a bad mood , cou=d be because I am having a bad dream behind my conciousness screen, =C2 a feeling of dread, , somethin happend in my dream. etc. =. it turns out that schizoeds suffer sleep ailments. =A0 sleep deprivation causes hallucinations. ( dreams whi=e awake). the conbciuousess screen is tied to our senses. run =hrough focus filters. with a feedback that in some instances are hard wire=, aversion , danger, , its the acgivity behind the=screen that answers the compleix quesiotns. the aha moment is when t=e dream room sends its message to the conciouness room.

2 mus=c , most animals make sounds. what doe= music represent. it is melody prosody, inforamtion both=verticaland horizonal. chords melody. . as it is g=nerated from the brain can it be reversed engineered and used to probel th= workings of the machine tha creatied it. . listeing to a flut=, and its tonal quality from the sound analysisi , a lon= empyt tube can be postualted. but thats only its structure,=C2 rythms are a product of the player not only the structur=. do german marches provide insite into a german mind. i= it organized regulaid. beats that range from 30 - 12 bpm. =A0 do afro americnacs. think more like jazz. =somewhat off the beat. ( humor. unpredictable movements making it ha=der for a german to tackle down the field. . ). wh= do soldiers march further to music, runners run further. =A0 . A symphonic structure is theme repetition vai=aion on the themes conclusion. the same dictum given to =ublic speakers. tell them what you are going to say, say=it , tell them what you said.

3. mathematics is =he search for truth. algorithms that do not change there=result with the passing of the day. . mathematics stands outsi=e of time. the ideal of a point or line ( separte from einsteins mea=uemrnt issues as the actaul measurement is much more diffcult . requ=ring a beggining and and end therefore measurement lives in time spa=e. mathematics is the search for truth. I po=tualte that Biology and biological systems differ from mathematics beacuse=it is needs deception to survive. biological systems only make sense in ti=e space. , trying to stay away from what is the moment of life=or death. . predator prey. biuoogical system= need free energy in order to maintain structure dissintegraing from=entropy, eneygy needs to be ingested inorder to fight th= slope down to breaking apart and returning to dust. . =C2 getting energy, the most basic bio requirement. in=bio systems however the best way to get energy is either from the su=, a limtied chenical reaction or heat gradisent. the energy must com= from outside. the way for systems to gain enery is to eat it.=C2 the way not to die is to eat andnot be eaten. . the game of eat or n=t be eaten is very sophisticated what is the entity . =A0 the cell . the organ , the organism . the community on and =n. heirarchila nested systems. at every leve= decision have to be made , is it ok to sacrifice a few cells so tha= the organism can live. which cells. do they get a=choice? how many when . when the organism is eaten by it= predator. how did it try to protect itself. camaflouge,=C2 surrounding itself in junk, mimicryy, misdirection, misinformation.=C2 etc.. qurum sensing game theory, free will, bait, =nts, .

4 we have come a long way in surveillance=C2 and detecting and encoding and decoding communticaions between peopl= between computers, . we can do this beacuse we can pick out t=e words in text, embed it in a grammar space,

we know=the language/ we need to do the same now for biolo=y, what is the language of the cells. do they communcat =ith proteins, . what are they saying to each other, is teh oanaguage=encrypted , does each person have his onw code. =A0 is it chemcial or elctrical or both. or physical like the shape o= the protein fiiting in a lolck, or combination of all three. the pr=tein fits. the electri is fired, etc. does the brain send a message. =what does medicine do. does it fool the receiver the sender. t=e listener. the history of telemommincaiotns intercepts =ave a long histroy referring to alice and bob that would like to speak to =ach other, they encript their messages. so that a =istener cannot do damge. . why not attack the bio =anguage the same way as speech. have nsa wor= on decrypting the differnce in signals from a cancer cell as oppose= to a helathy one. we know that cells send out messages , am i=in the right place. if they get no answer or the wrong aswer t=ey are programeed to commit suicicde. when a foreigner shows u= in a neighborhhod that is hostile , he is surrounded. k=lled and moved into the trash. he can masquerade as a lo=al. how can the other cells tell. can they ask him=who won the world series. ? . maybe an equivalent. =friend or



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foe, ? decoding skills find it difficutl to decipher if th=re is no repitition or action that is the result of the message. =A0 the famous example separate from heil hitler at teh end of =he message ( anecdote or true ). to break a code that was reci=ved from the germans the allies planed a bomb in three citie all set=to blow at teh same time, they thoguth that the word for bank =r bomb would be in the message for the day. . or so the story goes.=C2

money what is it . =s it a mirage that disappears when you look too closely, can y=u have money without debt, is it an accounting system. =C2 what and whys of itnerest. was it for small communities.=? with the same currency, what is the dirrency beteen curency and mo=ey, what is the meaing of value,? cost. market. =A0 what is a derivative, futures , stocks bonds, options, conv=ritibles. how does trust fit in, can you have money wit= no trust. in each other in an institutuion, , what is c=edit, is it different than money, , social contract. rep=tation. economics. . currency exhange, bitcoin, zero knowledge=proof. ,

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inne= state economics. vs outer state ? inner game theory. ne=ted functions. how does one balance inner and outer drive. ori=inal works of art are a befit for inner state. personal art si=nature from grandfather , if they are proven fake , no reality =but huge value change. . value needs to be from each seat in t=ehouse. .

if you win the game but v=olate your principals it is a two dimensaional game , that sho=ld have a utility function. it is a two dimeiisonal graph, ?=C2 dynamic, does it change over time. ? no answers. a= apart from physics due to math.

intellignce= ? speed of thought . algorithmms empathy, creativ=ty , surivial. . is it a limited resource, maximizing options, =ENVIRONMENT<

distributions, pwer laws.=C2 biollogical agents. networks. is gravity merely a restor=ng force. . pareto . zipf, normal. why are things distri=uted. central limit therom randomness. etfc.
</=iv>

pwer physical financilall i=ntellectaul, politcial. its uses. dangers getting =thers to do work, play on the definition. ?

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p=ease noteerved

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