thats cheating . . Is the study of ho= it dances really a study of the living systen? or is merely t=e sensory motor display in phyiscal space. if you admit it bei=g the latter , my dismal knowledge of language requires the ex=ert to suggest , was the mistake a "semantic error' = haha.. 2. the bee takes the space time vector and using=poloarization and other inputs, to merely express in in other domains its =esult. a phenomenological trivial event. wouldnt pointing and=saying" over there". be as trivial . if you do point=and speak , isn't that a merging of the" two" languages . ne=ther concatenation or distance . ??

I attach a gromov paper= his apology to the reader on page 26 , i think el=gantly explains some of the new difficulties.

<=iv class="gmail_extra">

On Tue, Jun 9, 201= at 12:49 AM, Noam Chomsky <c▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮ > wrote:

It's quite true that computer=modelling of living systems is often misused, but it's often used =uite effectively. In the case of language, what has been used effectively is the theory of computability-recursive function theory, whic= provides basic and appropriate tools. It's also been used e=fectively to study insect navigation and much else.</=>

I wonder if the nuzanmirre is still a=ound.

From: jeffrey E. [mailto:jeevacation@gmail.com]
Sent: Monday, June 08, 2015 10:57 PM
To: Noam Chomsky

Subject: Re: Re:

This all needs exposition. sorry. =C2 the computer model for living systems has not led to man= conherent theories. it does gets misued all the time however,=C2 . the simplest of questions , why does a cell have a sym=etrical shape. extremely complex computations were attempted . did the lipids attra=t. ? if so with what force. ? did the area need to enclose the great=st volume. . we now know that it is nothing more than the most=probable shape , given the statistical ensemble available to it. nothing more. . quantum would attempt to explain it by sugges=ing the moleucules took every shape they could and decided on the spherica= one. . I smile everytime I think of your percepti=n that there was a magazine called nuzanmirrer.

On Mon, Jun 8, 2015 at 10:17 PM, Noam Chomsky <chomsky2@mit.edu <mailto:chomsky2@mit.edu> >= wrote:

It's absolutely true that for=study of choice of action, the computer model is not helpful at all. That's something I've been arguing for many decades, in op=osition to most physicists these days, who claim that choice of action red=ces to determinacy and randomness (i.e., programmable). I think it m=y have come up in the Krauss discussion. I also discussed it again in my Dewey lectures in the J. of Philosophy in December 2013.

I don't frankly see how the S=hrodinger analogy helps in this case.

To clarify, the people I mentioned weren't students working on comp=ters. Rather, professional mathematicians and physicists. The =wo who have been attending seminars for many years, and have published in =reas very closely related to my work, are a mathematician and quantum physicist at Northeastern.

Noam

From: jeffrey E. [mailto:jeevacation@gmail.com]
Sent: Monday, June 08, 2015 9:57 PM
To: Noam Chomsky
Subject: Re:

brain as a computer? as silly as artificial in=elligence., The simple example I teach re quantum is whe= i try to decide should i order fish or meat. for the moment before I order (as you an I agree ms before i even am concious of ordering.) bo=h choices like schroedingers cat exist as a superpostioned wave func=ion that collapses and a choice is made. . yes i a= taking liberties. . the students you referred to you suggest are working on computers, not very odd that they might see you I lan=uage conforming to their pre perceptions

2

On Mon, Jun 8, 2015 at 9:41 PM, Noam Chomsky <█████████@███.edu>=wrote:

I have a VERY thick skin, and love to=hear criticism. One of the best ways to learn. And I'v= often given up closely held beliefs on the basis of persuasive argumentation. =A0 But in this case, I just don't see the arguments.=u>

It's true that the mathematic= lacks rigor, but that's for the same reason that publications in =rofessional math journals lack rigor. The steps that are not spelled out are str=ightforward enough so that they can be easily filled in. I don =99t know of any problems about set theory, apart from the classic ones. =A0 Some version of set theory is presupposed in every branch of math, including category theory. As for the brain as a com=uter, I'm not sure what you see as the problem. The papers I=sent you do assume that I-language is a computational system, with the pro=erties mentioned, easily formalized. I don't know of any coherent alternative. Actually, very good professional mathem=ticians and physicists, one working primarily on quantum computers, have a=tended my regular seminars for years, but I've never heard a sugge=tion as to how mathematical ideas used in quantum theory would be relevant to systems of the kind we're considering.=C2 The "displacement conjecture" is, in fact, an immedi=te consequence of what would be the best possible theory if it's t=ue: SMT, in particular, the assumption that the basic combinatorial operation is the simplest one possible. Merge is simply set-formatio=, presupposed in all of mathematics. I agree that it's na =AFve, if by that you mean very simple, arguably optimally so. But ha=n't that been the pretty explicit goal of science, at least since Galileo, quantum theory included? I'd like to hear the=objections, and hope to learn from them.

Noam

From: jeffrey E. [mailto:jeevacation@gmail.com]
Sent: Monday, June 08, 2015 3:07 PM
To: Noam Chomsky
Subject:

I will take your word that you share my thick skin f=r criticism and share a strange pleasure in learning, even if it mea=s having to accept that some formerly closely held beliefs might need strong correction.   I have no particular knowl=dge re politics or history, so I will never offer an opinion. =owever re mathematics and or money , I feel on strong ground. =hat being said, thought puzzles in the paper are brilliant and=insightful. the mathematical descriptions lack rigor , and the metaphors suffer =rom the common science limitation of trying to describe things using the e=gineering metaphors or the tools of the moment.ex.   The =uman or its brain as a computer ., set theory . It was popular in the early 20th as you know to describe the body as an elect=ic machine..   the mathematics used today in quantum show =ore promise , as it attempts to describe things that appear counter intuit=ve. or difficult to comprehend , (your displacement conjecture)   your simple X and Y , Merge , is quit= naive and unfortunately incorrect.

2. from the paper you sent. ; a much more elegant way of conveying =A0 what i had failed to do re sentences and money

European structuralism commonly adopted the Saussurean conception of langua=e (MONEY) (in the relevant sense) =s a social entity; as Saussure put it, a storehouse of word images (values) in the brains of a collectivity o= individuals founded on a "sort of contract."

3

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please no=e

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please no=e

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