

---

**From:** Noam Chomsky <[REDACTED]  
**Sent:** Tuesday, June 9, 2015 1:42 AM  
**To:** Jeffrey E.  
**Subject:** RE:

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

It's true that the mathematics lacks rigor, but that's for the same reason that publications in professional math journals lack rigor. The steps that are not spelled out are straightforward enough so that they can be easily filled in. I don't know of any problems about set theory, apart from the classic ones. Some version of set theory is presupposed in every branch of math, including category theory. As for the brain as a computer, 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 properties mentioned, easily formalized. I don't know of any coherent alternative. Actually, very good professional mathematicians and physicists, one working primarily on quantum computers, have attended my regular seminars for years, but I've never heard a suggestion as to how mathematical ideas used in quantum theory would be relevant to systems of the kind we're considering. The "displacement conjecture" is, in fact, an immediate consequence of what would be the best possible theory if it's true: SMT, in particular, the assumption that the basic combinatorial operation is the simplest one possible. Merge is simply set-formation, presupposed in all of mathematics. I agree that it's naïve, if by that you mean very simple, arguably optimally so. But hasn'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 for criticism and share a strange pleasure in learning, even if it means having to accept that some formerly closely held beliefs might need strong correction. I have no particular knowledge re politics or history, so I will never offer an opinion. However re mathematics and or money, I feel on strong ground. That being said, thought puzzles in the paper are brilliant and insightful. the mathematical descriptions lack rigor, and the metaphors suffer from the common science limitation of trying to describe things using the engineering metaphors or the tools of the moment. ex. The human or its brain as a computer., set theory. It was popular in the early 20th as you know to describe the body as an electric machine.. the mathematics used today in quantum show more promise, as it attempts to describe things that appear counter intuitive. or difficult to comprehend, ( your displacement conjecture) your simple X and Y, Merge, is quite naive and unfortunately incorrect.

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

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

--

please note

The information contained in this communication is confidential, may be attorney-client privileged, may constitute inside information, and is intended only for the use of the addressee. It is the property of JEE Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify us immediately by return e-mail or by e-mail to [jeevacation@gmail.com](mailto:jeevacation@gmail.com) <mailto:jeevacation@gmail.com>, and destroy this communication and all copies thereof, including all attachments. copyright -all rights reserved