

From: Jeffrey Epstein <jeevacation@gmail.com>

To: [REDACTED]

Subject: Re: Thanks

Date: Thu, 23 May 2013 15:24:42 +0000

i think you need a top down as well as bottom up. as looking at my piano while being played, i can go string by string (not string theory strings). hammer by hammer, material of string , molecular interaction naturalvibration, harmonics, symphatice vibration but i would not hear or understand the melody or music being played. I believe that each individual has its own encryption algorithm, , as the neural net grows it encrypts some input signals. some are hard wired. so instead of emotion , movement, speech, etc, I think a profitable area of inital inquiry should be the hard wired aversive stuff only. smell of dead meat. . reaction to fire. i tihnk that aesthetics will be the greatest ration of output to input. . or the least energy to decode. . dissonance, cannot be easily resolved so the energy to decode the information, is too high and becomes painful. Does a dream state come upon us, or do we dream all the time and concious state relegates the dreams to behind the screen. When sleep deprived the dreams begin to pop through the screen, as hallucinations. a breakdown of the screen , results in a form of schizphrenia, where they cann no longer distinguish between voices. dream produced while awake or the awake state angel on the shoulder whispering. . I am an avid funder of the bleeding edge in many fields. keep me up to date on what you are doing, and hope to see you in your own habitat.

On Thu, May 23, 2013 at 11:04 AM, Ed Boyden <[REDACTED]> wrote:

Hi Jeffrey,

Yes, it was great chatting about all the ways neuroengineering is going to go in the coming years, revealing both fundamental mechanistic brain maps, and providing the control knobs for fixing brain disorders and understanding complex phenomena like consciousness. Would be great to talk about how then to make mathematical sense of these maps and control knobs... arguably the big stumbling block to date is the lack of good data, but that's about to change, thanks to our current and future efforts! Then we will have many things that require deep mathematics to understand!

Ed

On Thu, May 23, 2013 at 1:16 AM, Joi Ito <[REDACTED]> wrote:

> Hi Jeffrey.

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> Thanks for a really enjoyable conversation and your hospitality tonight. Look forward to connecting again and receiving you at the Media Lab on my turf. ;-)

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> - Joi

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Ed Boyden, Ph. D.

Leader, Synthetic Neurobiology Group

Associate Professor, MIT Media Lab and McGovern Institute,

Departments of Biological Engineering and Brain and Cognitive Sciences
Benesse Chair, New York Stem Cell Foundation-Robertson Investigator,
and Paul Allen Distinguished Investigator
MIT, Room E15-421, 20 Ames St., Cambridge, MA 02139
office - [REDACTED]
cell - [REDACTED]
email - [REDACTED]
fax - [REDACTED]
skype - eboyden3
web - <http://syntheticneurobiology.org>
twitter - [REDACTED]

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