From:	████████████████ Ed Boyden <e████████
Sent:	Tuesday, July 22, 2014 2:49 PM
To:	jeffrey E.
Subject:	Re: my guess is biological hash functions exist

Absolutely! Computation means discarding information (e.g., sensory information being transformed into a decision requires discarding some of the info -- a passive photocopier does no computation), and a hash is basically doing that, but a one-way function, and towards some fixed length. I think that is probably the way brains error check, no?

Best,
Ed

On Tue, Jul 22, 2014 at 9:04 AM, jeffrey E. <jeevacation@gmail.com> wrote:
> https://www.khanacademy.org/economics-finance-domain/core-finance/mone
> y-and-banking/bitcoin/v/bitcoin-cryptographic-hash-function
>
> --
>   please note

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Leader, Synthetic Neurobiology Group
Associate Professor, MIT Media Lab and McGovern Institute,
   Departments of Biological Engineering and Brain and Cognitive Sciences Co-Director, MIT Center for Neurobiological Engineering New York Stem Cell Foundation-Robertson Investigator MIT, Room E15-421, 20 Ames St., Cambridge, MA 02139 email - esb@media.mit.edu office - (617) 324-3085 cell - (650) 468-5625 fax - (617) 253-6285 skype - eboyden3 web - http://syntheticneurobiology.org twitter - http://twitter.com/eboyden3 <?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
        <key>conversation-id</key>
        <integer>297250</integer>
        <key>date-last-viewed</key>
        <integer>0</integer>
        <key>date-received</key>
        <integer>1406040567</integer>
        <key>flags</key>

```
        <integer>8590195717</integer>
        <key>gmail-label-ids</key>
        <array>
                <integer>6</integer>
                <integer>2</integer>
        </array>
        <key>remote-id</key>
        <string>425875</string>
</dict>
</plist>
```