
From: jeffrey E. <jeevacation@gmail.com>
Sent: Saturday, July 30, 2016 1:59 AM
To: Danny Hillis
Subject: Fwd:

----- Forwarded message -----

From: Jeremy Rubin [REDACTED]
=ate: Thu, Jul 28, 2016 at 9:51 AM
Subject: Re:
To: "jeffrey E.&=uot; <jeevacation@gmail.com <mailto:jeevacation@gmail.com>

I've been thinking a lot =bout this the past few days, some of my thoughts below:

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Generally I'm very positive of the notion; there&#=9;s a lot to be desired from our internet protocols.

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On the other hand, I wonder if this is a variant of trump=sm, we need to make the internet great again. At what point was it great b=fore? When their were but a select few who were able to access it; and eve=ybody on it knew they would be meddled with a bit. Once it went too mainst=eam no-longer was being a hacker (or even, user) of such systems an at-you=-own-risk endeavor, but was something that people depended on.

Similar modern endeavors include Urbit, linked =or posterity [<https://rbit.org>](https://rbit.org) , which is mostly made incomprehensible for the point of keepi=g out the un-enlightened. Urbit is supposed to re-imagine computing as fun=amentally distributed.

I think it w=uld require very close consideration to figure out why a new internet is a=tually needed. Traditionally in CS we think of a distributed system as str=ving to achieve Consistency, Availability, and Partition Tolerance (see Br=wer's theorem, [<https://www.infoq.com/articles/cap-twelve-years-later-how-the-rules-have-changed>](https://www.infoq.com/articles/cap-twelve-years-later-how-the-rules-have-changed)) but=unable to get all 3 as they mutually assure each other's impossibility= If we add in a fourth parameter at a second layer of abstraction, let'=s call it Authenticity, a fifth, Privacy, and a sixth, law enforcement, we=cover the gamut of most of what people care about in an internet system. T=ese second three principles form another triangle similar to CAP, they mut=ally assure the other's impossibility in some way.

I think that thinking in terms of these desirable prope=ties in terms of mutually exclusive groups is probably a useful way to con=ider the design space. Another well known one is Zooko's triangle:
=A0[<https://en.wikipedia.org/wiki/Zooko%27s_triangle>](https://en.wikipedia.org/wiki/Zooko%27s_triangle)

In any case, I've gone on a slight tangent. My=point is it's one thing to say you want a new internet because of a th=oretical (or not so theoretical) button, it's another to have motive e=ough to actually build such a new network. Asides from the button, what pr=erties seem critical to you?

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@JeremyRubin <<https://twitter.com/JeremyRubin>> <<https://twitter.com/JeremyRubin>>

On Mon, Jul 25, 2016 at 7:08 AM, jeffrey E. =span dir="ltr"><jeevacation@gmail.com <mailto:jeevacation@gmail.com>> wrote:

I liked the idea of internet 2.0 =A0 encouraged by the reset switch.

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=A0 please note

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