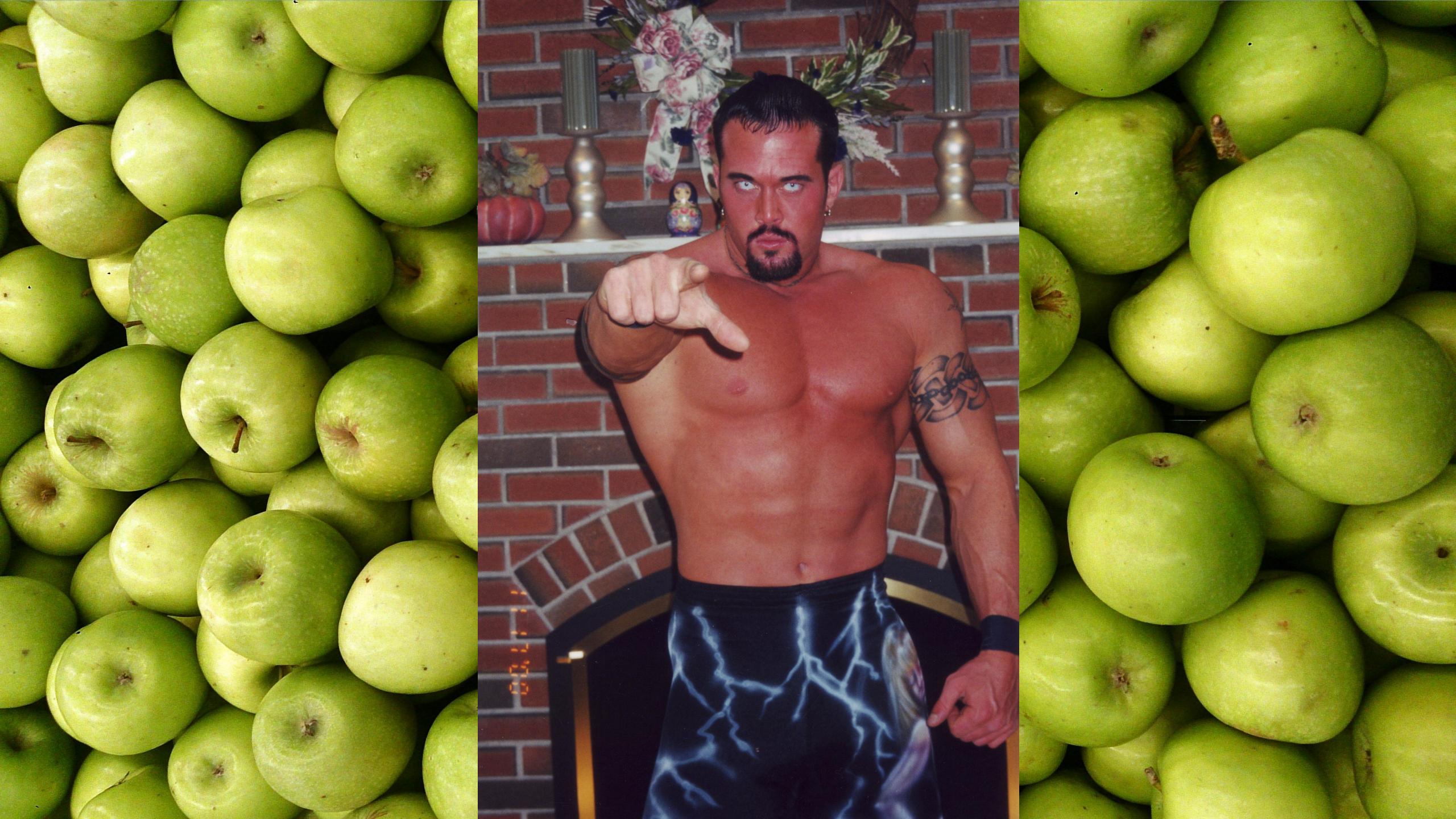
A Public Database for the Planet



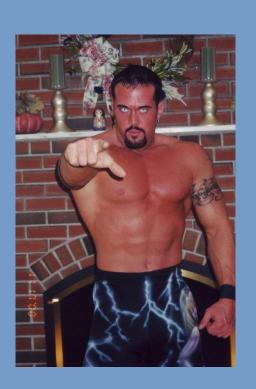
Trent McConaghy
@trentmc0

iPDB BIGCHAINDB



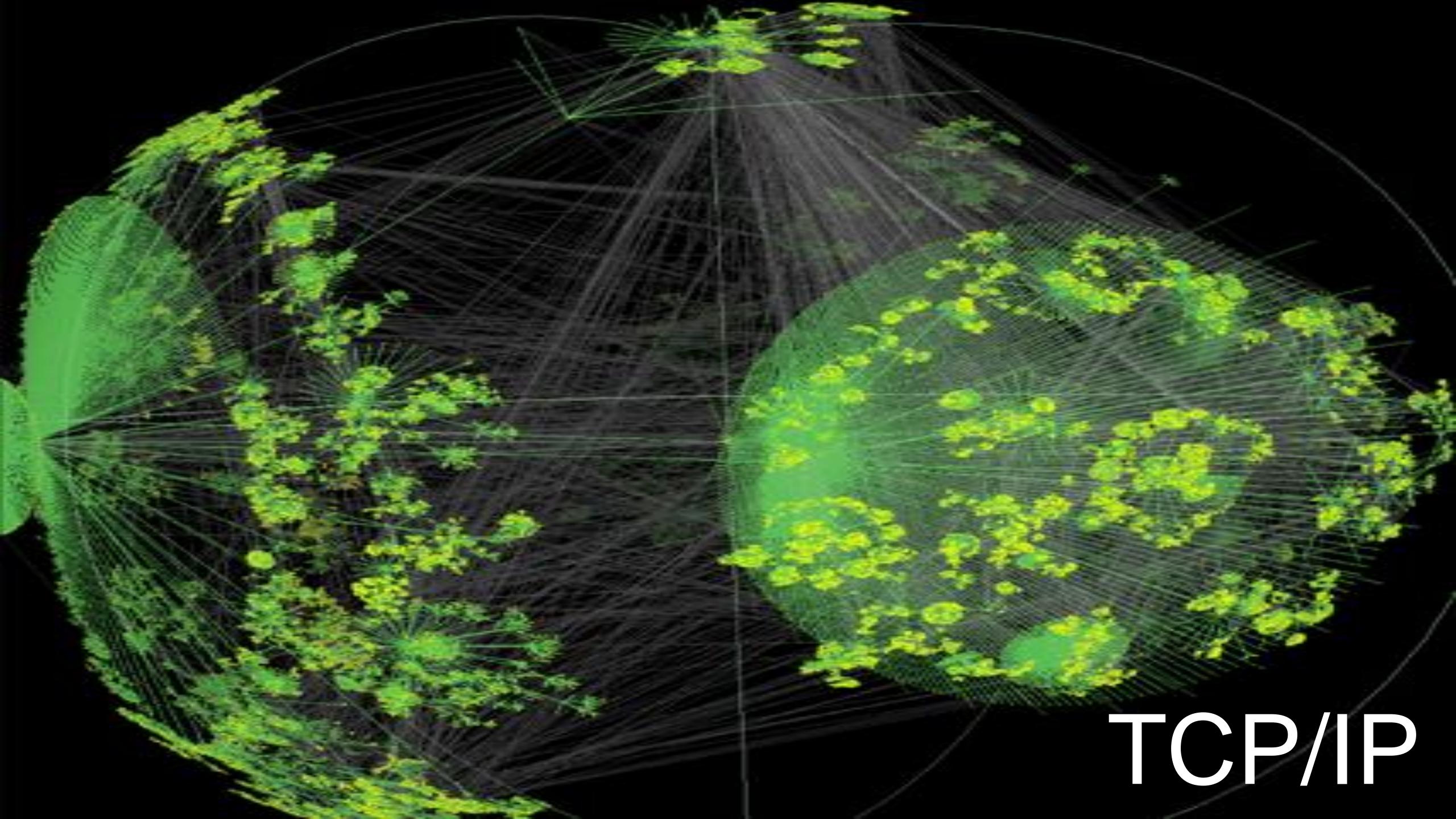


How did we get here?









CERM

The European Laboratory for Particle Physics, located near Genevalli in Switzerland[2] and France[3]. Also the birthplace of the World-Wide Web[4].

This is the CERN laboratory main server. The support team provides a set of Services[5] to the physics experiments and the lab. For questions and suggestions, see MIN Support Contacts[6] at CERN

About the Laboratory[7] - Hot News[8] - Activities[9] - About Physics[10] - Other Subjects[11] - Search[12]

About the Laboratory

Help[13] and General information[14], divisions, groups and activities[15] (structure), Scientific committees[16]

Directories[17] (phone & email, services & people), Scientific Information Service[18] (library, archives or Alice), Preprint[19] Server

1-45, Back, Up, <RETURN> for more, Quit, or Help:









Project Gutenberg WWW site

Last Issue

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5th Issue	4th Issue	3rd Issue	2nd Issue	1st Issue

You are visitor number #COUNT since Jun 27, 1995

university Search

BackRub Query Results

BackRub's Highest Ranked Sites

University of Illinois at Urbana-Champaign

http://www.uiuc.edu/
694.687 8460 backlinks 12k - 10/25/96 - 11/1/96

Stanford University Homepage

http://www.stanford.edu/

609.303 8857 backlinks 4k - none - 11/1/96

Stanford University: Portfolio Collection

http://www.stanford.edu/home/administration/portfolio.html

167.919 34 backlinks





All

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Maps

News

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More *

Search tools

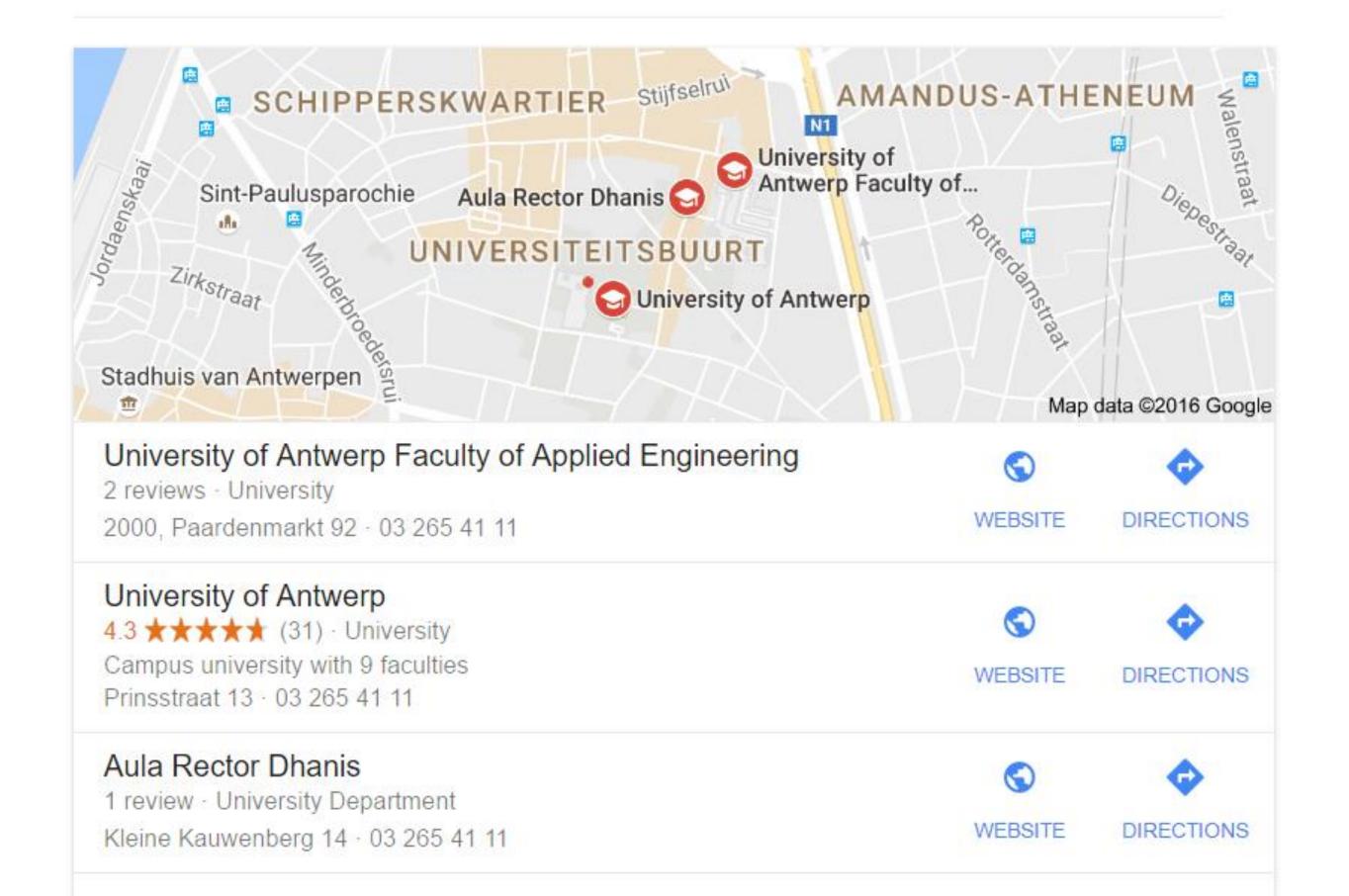
About 2.800.000.000 results (0,60 seconds)

University - Wikipedia, the free encyclopedia

https://en.wikipedia.org/wiki/University >

A university is an institution of higher (or tertiary) education and research which grants academic degrees in various subjects. Universities typically provide ...

University of Bologna - Lists of universities - Educational institution







The centralized internet

Creative works are backwards

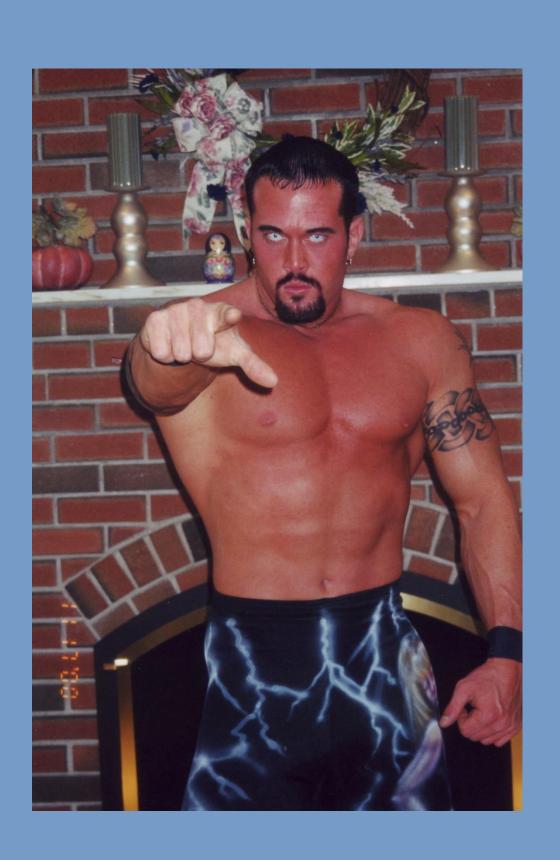
Others' stuff – hard to use legally, pay \$

Your stuff – hard *not* to lose

Your data isn't really yours

Walled gardens – you can't share how you want

Data silos – You can't take it with you if you want to leave





A vision for a better internet

Creativity is encouraged

- Creators are fairly compensated
- The cultural commons is protected

Your identity is yours

- You own your personal data
- You manage your reputation
- Your choose what to share and what stays private

And more

- Equal opportunity for banking
- Know where your atoms come from

A new hope





Blockchain: A Special "Spreadsheet in the Sky"

What's special:

- no one owns it
- anyone can add to it
- no one can delete from it
- Writing to a blockchain is like etching in stone.
- Which allows us to issue assets, and transfer them





Building a better internet

What can help?

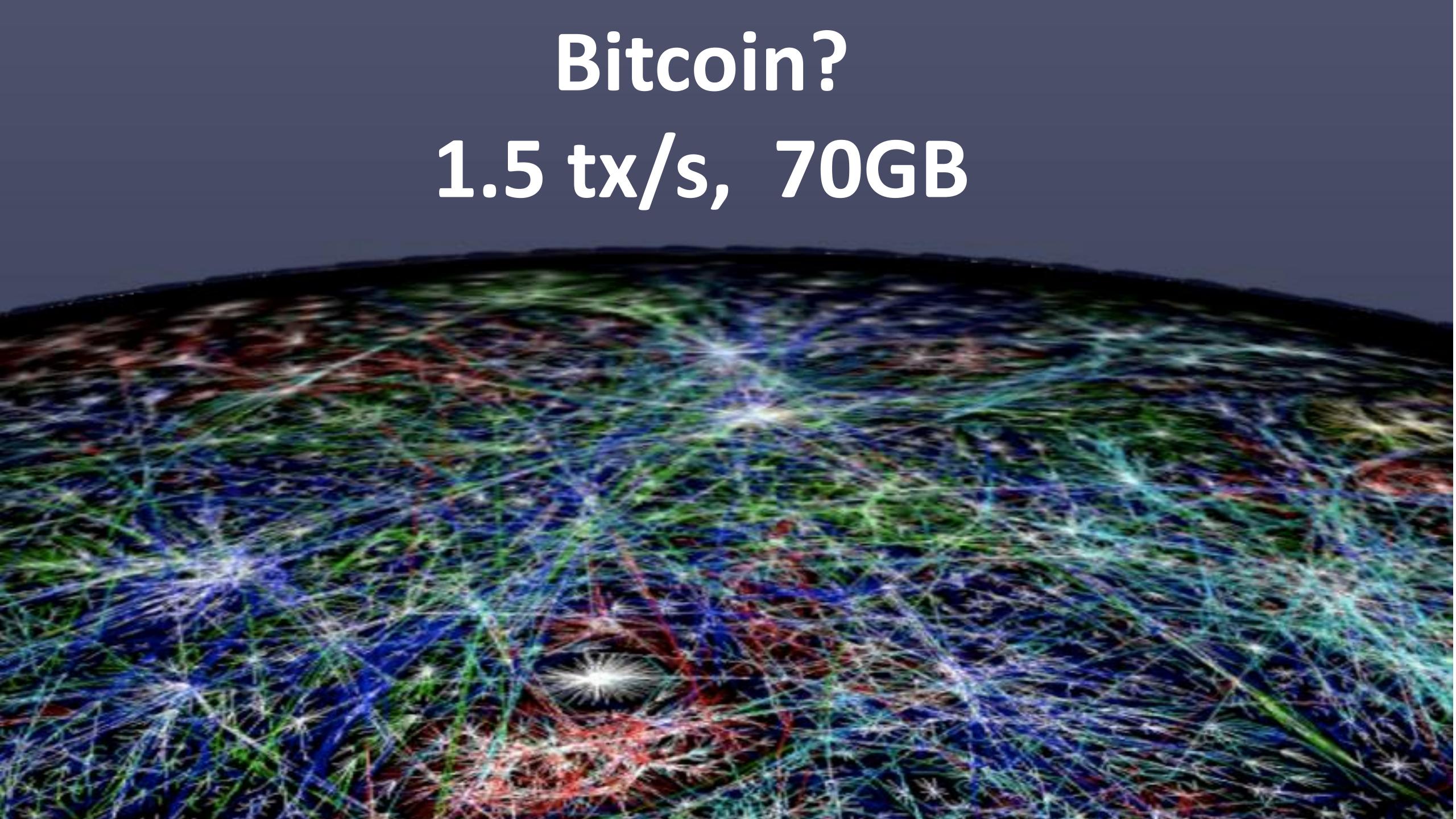
- Decentralized: No single entity owns or controls
- Shared: Resources and control shared among participants
- Self-sustaining
- Planetary scale



APPLICATION					
PLATFORM					
ID	IP	FIN	EN	PHYS	
PROCESSING					
	-"If this then that" in the ether - Legal contracts, automated - Massive compute jobs				
STORAGE					
	FILE SYSTEM		DATABASE		
	- Media blobs	- "Glo	- Queries bal truth" registry		
LOWER-LEVEL PROTOCOLS (TCP/IP)					



APPLICATION					
PLATFORM					
ID	IP	FIN	EN	PHYS	
PROCESSING					
ethereum					
	STORAGE				
	FILE SYSTEM IPFS	"W	DATABASE ho owns what" cale, querying		
LOWER-LEVEL PROTOCOLS (TCP/IP)					



Yet...

Netflix uses 37% of Internet bandwidth

Yet...

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How?
Big data databases

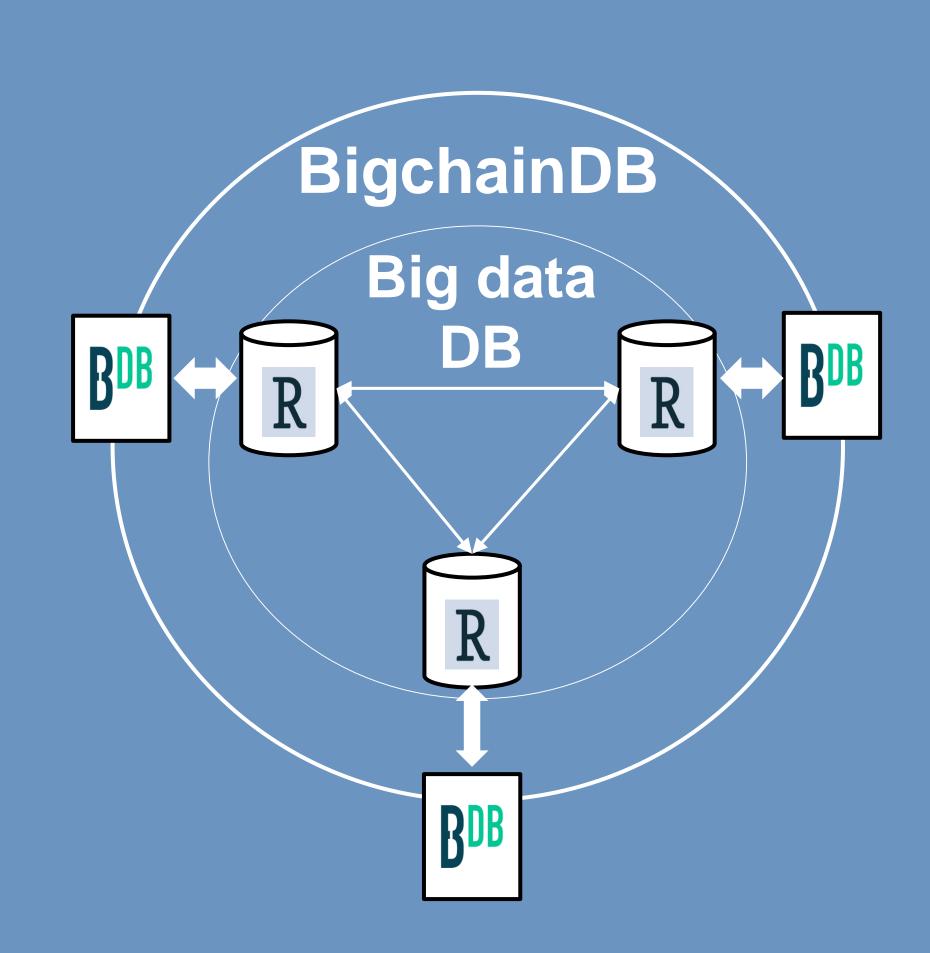
BigchainDB: A Big Data Blockchain Database

How:

Blockchain-ify an existing big data DB

Best of both worlds:

- · Blockchain: decentralized, immutable
- Big data DB: queryability. And planetary scalability...



bigchaindb.com/whitepaper github.com/bigchaindb



IPDB: Interplanetary Database

A network

 running a public
 decentralized

 database (using
 BigchainDB)

2. A non-profit foundation governed by the network









- For everyone, everywhere
- Free until heavy usage, then pay web service style
- Member caretakers operate validating nodes

Governance: Mission Statement

"The IPDB Foundation will promote the decentralized internet, with the goals of increasing transparency and accountability while challenging censorship and surveillance."





Governance:

Criteria for IPDB Caretakers



Long-standing commitment to the decentralized internet

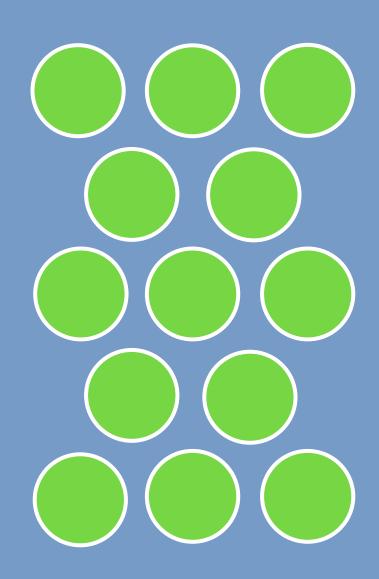
At least half non-profit

Fewer than half in any given country



Caretakers (so far)





Not-for-profit

Blockstack
COALA
Dyne.org
Internet
Archive
OpenMedia
UnMonastery

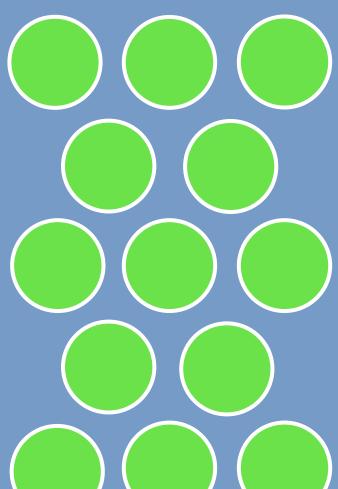
For-profit

BigchainDB
ConsenSys
Eris Industries
Protocol Labs (IPFS)
SmartContract.com
Synereo
Tendermint

Caretakers are the Heart of IPDB Governance

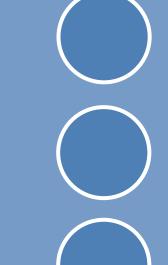






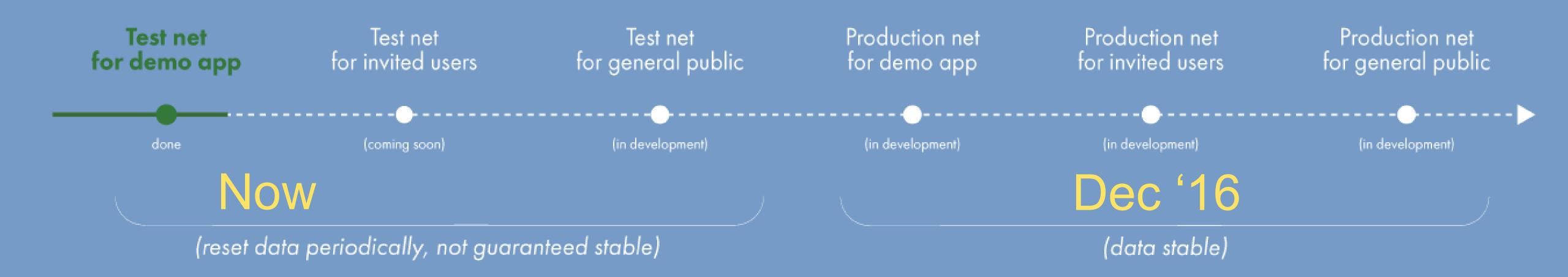
... And operate the validating nodes in the network.





Board hires a director for management duties.

IPDB Roadmap







APPLICATION					
PLATFORM					
ID	IP	FIN	EN	PHYS	
PROCESSING					
ethereum					
STORAGE					
	FILE SYSTEM IPFS		ATABASE IPDB BDB		
LOWER-LEVEL PROTOCOLS (TCP/IP)					

The internet is getting upgraded, driven by the winds of blockchain.

DWebSummit, Internet Archive, W3C, IETF,

www.nytimes.com/2016/06/08/technology/the-webs-creator-looks-to-reinvent-it.html?_r=0



TECHNOLOGY | The Web's Creator Looks to Reinvent It

TECHNOLOGY

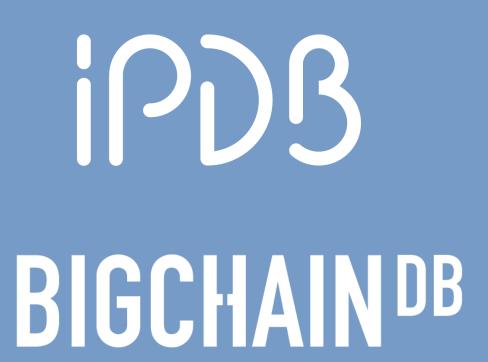
The Web's Creator Looks to Reinvent It

By QUENTIN HARDY JUNE 7, 2016

A group of top computer scientists gathered in San Francisco on Tuesday to discuss a new phase for the web. Jason Henry for The New York Times

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