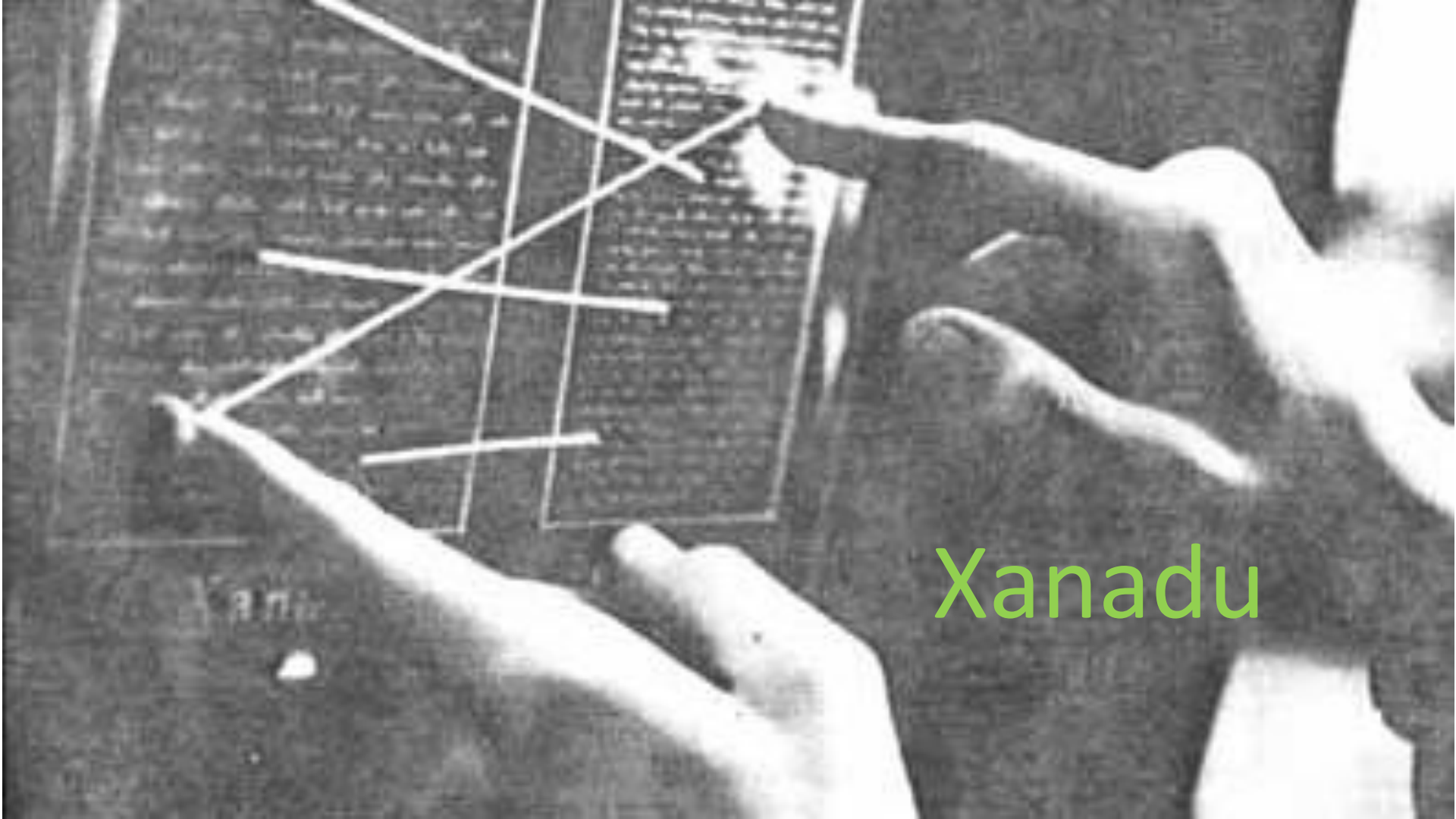


The background of the slide is a complex network graph visualization. It features numerous green nodes of varying sizes, some of which are highlighted with a bright yellow-green glow. These nodes are interconnected by a dense web of thin, black lines, creating a complex, web-like structure. The overall shape of the network is roughly circular, with a large, dense cluster of nodes on the right side and several smaller, more dispersed clusters on the left and top. The background is solid black, making the green nodes and black lines stand out prominently.

Upgrading the Internet, For Creators

Trent McConaghy

BIGCHAIN^{DB} ascribe[®]



Xanadu



ARPAnet



TCP/IP

CERN

The European Laboratory for Particle Physics, located near Geneva[1] 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 WWW 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: █



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
 - Which can include art!



The question we've been asking:

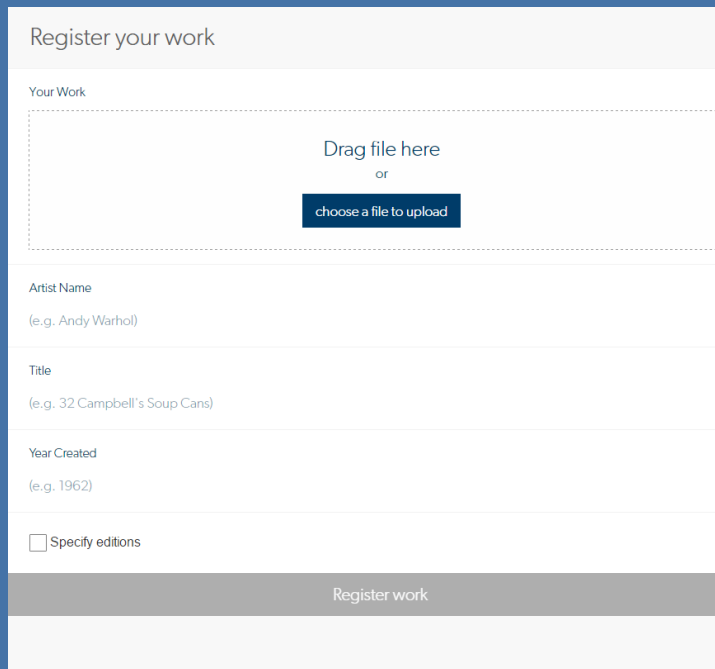
With the help of blockchain tech,

**Can we upgrade the Internet,
for creators?**

(and realize the aims of Xanadu in the process?)

Register a work

Like uploading to Dropbox
“Claim authorship”



Register your work

Your Work

Drag file here
or
[choose a file to upload](#)

Artist Name
(e.g. Andy Warhol)

Title
(e.g. 32 Campbell's Soup Cans)

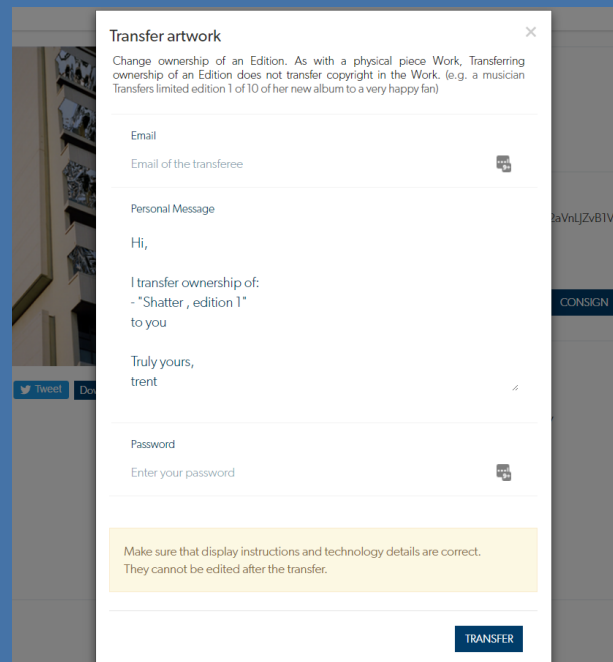
Year Created
(e.g. 1962)

☐ Specify editions

[Register work](#)

Transfer a work

Like sending an email
“Bequeath rights”



Transfer artwork

Change ownership of an Edition. As with a physical piece Work, Transferring ownership of an Edition does not transfer copyright in the Work. (e.g. a musician Transfers limited edition 1 of 10 of her new album to a very happy fan)

Email
Email of the transferee

Personal Message
Hi,

I transfer ownership of:
- "Shatter , edition 1"
to you

Truly yours,
trent

Password
Enter your password

Make sure that display instructions and technology details are correct.
They cannot be edited after the transfer.

[TRANSFER](#)

Certificate Of Authenticity

As of 30 November 2015, 17:36:00 GMT, Masha (Maria) McConaghy is the owner.
To verify current owner, please visit <http://ascr.be/1luAQpo>



DOLLAR
EURO
SWISS FRANCS
JEFF KOONS
BITCOIN

Currency

Date: 2014
Edition: 3 of 100
Created by: Dan Perjovschi
Owner: maria.mcconaghy@yahoo.com

ARTWORK DETAILS

Artwork ID: 17uZBwSbLG8y3vRRMWzF5PMjFVNc1tkQ2
File: currency-2014.jpg (499 KB)

PROVENANCE/OWNERSHIP HISTORY

Apr. 30, 2015, 12:36:19 - Registered by mail@cocontemporary.com
May. 01, 2015, 09:46:08 - Transferred to admin
May. 08, 2015, 13:04:59 - Transferred to trent
Nov. 27, 2015, 19:35:14 - Transferred to maria.mcconaghy@yahoo.com

CRYPTOGRAPHIC STAMP

Use the summary and signature below to authenticate this certificate:
<http://ascr.be/1Sr45Q>

Summary: Dan Perjovschi*Currency*3/100*2014*2015Apr30-12:36:19

Signature: 438B24CE06182FA3AA82BC285F867D03FB73F3BCC0F73FDBA6
EC2BFF7088E011E60355B7DC75D5745A9D5CA2A8115512FF835
C4ABEF6869BF6A991668A820F3FB03A48C6A9E05834716F6500
68E8E07E5266620BA815948DC265605D23FAF016CB46ACD4BC
BE75F08D0DEBD7AF55E4CB085B9A0A14583F135D8B399121B24
ED1L

Blockchain-backed,
digitally signed COA

scribe®

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MAK Vienna





Creative
Commons FR

The screenshot shows the Ascribe registration form. The header includes the Creative Commons France logo and the Ascribe logo. The form is titled 'Register under a Creative Commons license'. It has a section for 'Your Work' with a dashed box for 'Drag file here' and a button 'choose a file to upload'. Below this are input fields for 'Artist Name' (with example 'e.g. Andy Warhol'), 'Title' (with example 'e.g. 32 Campbell's Soup Cans'), and 'Year Created' (with example 'e.g. 1962'). There is a dropdown for 'Copyright license...' showing 'CC-BY-NC-ND-4.0: Attribution-NonCommercial-NoDerivs 4.0 International' with a link 'learn more about cc-by-nc-nd-4.0 (ascribe tag)'. A checkbox for 'Specify editions' is present. At the bottom is a 'Submit' button.

1.5 tx/s

50GB

How to serve the all the creators
on the planet with limits like this?

Yet, traditional databases *do* scale

Q: Can we bring those ideas to blockchain?

A: Yes. BigchainDB.

Best of both worlds:
Blockchain - decentralized
Databases - scale

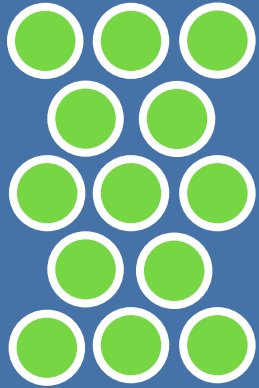
IPDB

INTERPLANETARY DATABASE



- A shared global database. For everyone, everywhere
- And, a nonprofit foundation, with decentralized governance
- Powered by BigchainDB, to start
- Free except for high-volume users
- Caretakers co-operate network & co-govern foundation

IPDB Caretakers (so far)



Not-for-profit

Blockstack
COALA
Dyne.org
Internet
Archive
OpenMedia
UnMonastery

For-profit

ascribe / BigchainDB
Consensys
Eris Industries
Protocol Labs (IPFS)
SmartContract.com
Synereo
Tendermint

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

Old + new guard are joining forces!

How to have lasting upgrade? New protocols.
W3C Blockchain, Coala IP on LCC, Interledger, IPLD, Web of Trust, Estonia e-identity


← → ↺ 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

Infrastructure to upgrade the Internet, for creators



APPLICATION

PLATFORMS FOR ID, IP, ...

ID

IP (incl. art)

PROTOCOLS FOR ID, IP, ..

STORAGE

FILE SYSTEM
(ARCHIVAL)



IPFS

DATABASE

iPDB

TRADITIONAL
BLOCKCHAINS



TCP/IP PROTOCOLS



The internet is
getting
upgraded,
for creators.

We're moving towards

- Creators are fairly compensated
- The cultural commons is protected
- Where one *can* collect digital art.

New infrastructure across the stack

- Apps for artists, collectors, GLAMs
- Platforms for IP (incl. art)
- Protocols for IP
- Decentralized files / archival
- Decentralized databases