





CERM

The European Laboratory for Particle Physics, located near Genevall1 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 IANN 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!



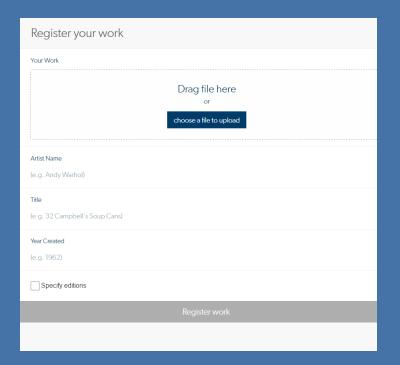
The question we've been asking:

With the help of blockchain tech,

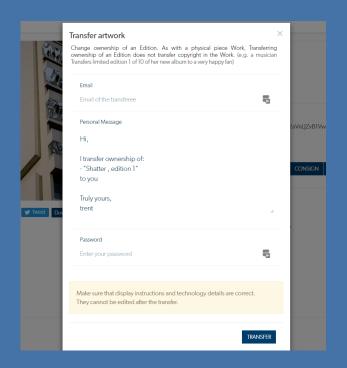
Can we upgrade the Internet, for creators?

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

Register a work Like uploading to Dropbox "Claim authorship"



Transfer a work Like sending an email "Bequeath rights"



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://ascri.be/lluAOpo



DOLLAR EURO SWICK FRANCS JEFF KOONS BITCOIN

Currency

Date: 2014

Edition: 3 of 100

Created by: Dan Perjovschi

Owner: maria.mcconaghy@yahoo.com

ARTWORK DETAILS

Artwork ID: 17uZBwSbLGfXy3vRRMWzF5PMjFVNc1tkQ2

File: currency-2014.jpg (499 KB)

PROVENANCE/OWNERSHIP HISTORY

Apr. 30, 2015, 12:36:19 - Registered by mail@cointemporary.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://ascri.be/1Srz45Q

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

Blockchain-backed, digitally signed COA

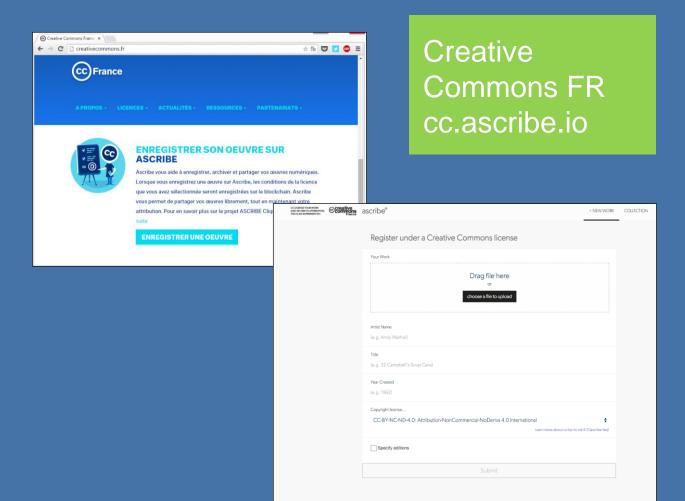
ature: 438B24CE06182FA3AA82BC285F867D03FB73F3BCC0F73FDBA6 EC2BF7708BE011E60355B7DC75D5745A9D5CA2A8115512FF835 C4ABFF6869BF6A991686A820F3FB03A4BC6A9E05834716F6500 68EBE07E5266620BA815948DC265605D23FAF016CB46ACD4BC BF75F08D0DEBD7AF55E4CB085B9A0A14583F135DBB399121B24 FD11

:ribe

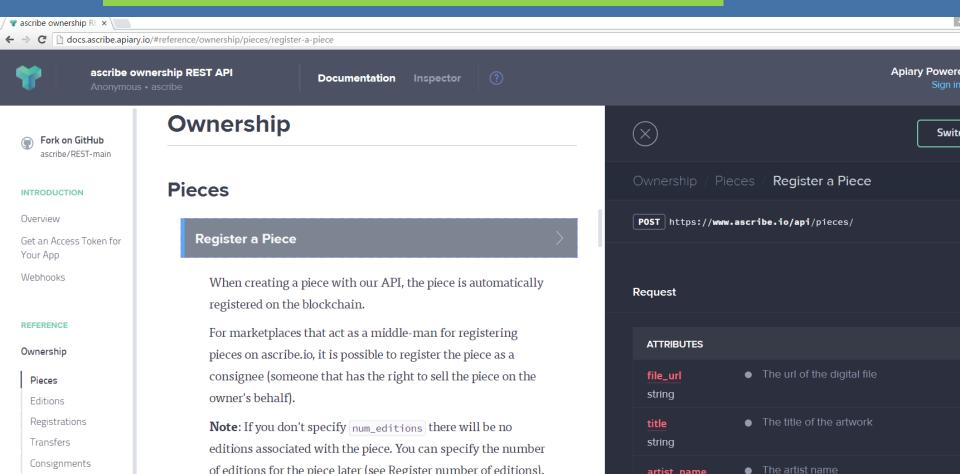
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MAK Vienna





ascribe API: docs.ascribe.apiary.io







Yet, traditional databases do scale

Q: Can we bring those ideas to blockchain?

A: Yes. BigchainDB.

Best of both worlds:
Blockchain - decentralized
Databases - scale







Quick Start Guide

Install and Run

BigchainDB provides a rich API to create, query and transfer digital assets.

DOCUMENTATION

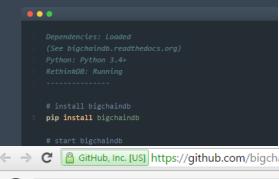


```
(See bigchaindb.readthedocs.org)
    pip install bigchaindb
    bigchaindb start
```

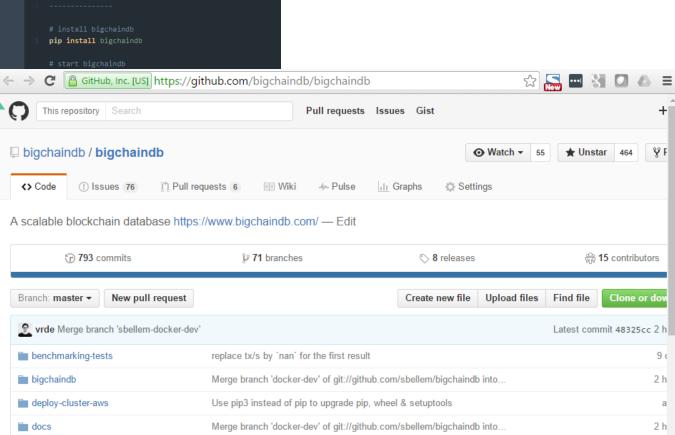
Install and Run

BigchainDB provides a rich API to create, query and transfer digital assets.





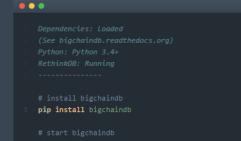
speed-tests



replaced ison with rapidison

Install and Run

BigchainDB provides a rich API to create, query and transfer digital assets.



https://bigchaindb.readthedocs.io/en/latest/



Search docs

- 1. Introduction
- 2. Installing and Running BigchainDB Server
- 3. Running Unit Tests
- 4. Configuring a BigchainDB Node
- 5. The Python Server API by Example
- 6. The BigchainDB Command Line Interface (CLI)
- 7. The HTTP Client-Server API
- 8. The Python Driver API by Example
- 9. Deploying a Local Multi-Node RethinkDB Cluster
- 10. Deploy a Cluster on AWS11. JSON Serialization

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C Edit on GitHub

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- 2.3.2. How to Install BigchainDB from Source
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- 2.4. Run BigchainDB Server
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- 2.5.1. Pull and Run the Image from Docker Hub
 - 2.5.1.1. Load Testing with Docker

Run

vides a rich API to create, query and ssets.

TATION



- • Dependencies: Loaded (See bigchaindb.readthedoc Python: Python 3.4+ RethinkDB: Running # install bigchaindb
- \$ pip install bigchaindb
 - # start bigchaindb
- \$ bigchaindb start

5.2. Create a Digital Asset

```
from bigchaindb import crypto
# Create a test user
testuser1_priv, testuser1_pub = crypto.generate_key_pair()
# Define a digital asset data payload
```

digital asset payload = {'msg': 'Hello BigchainDB!'}

tx signed = b.sign transaction(tx, b.me private)

included in a block, and written to the bigchain

Write the transaction to the bigchain.

b.write transaction(tx signed)

A create transaction uses the operation `CREATE` and has no inputs

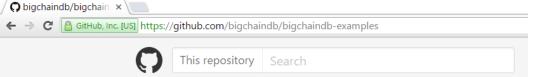
tx = b.create_transaction(b.me, testuser1_pub, None, 'CREATE', payload=digital_

All transactions need to be signed by the user creating the transaction

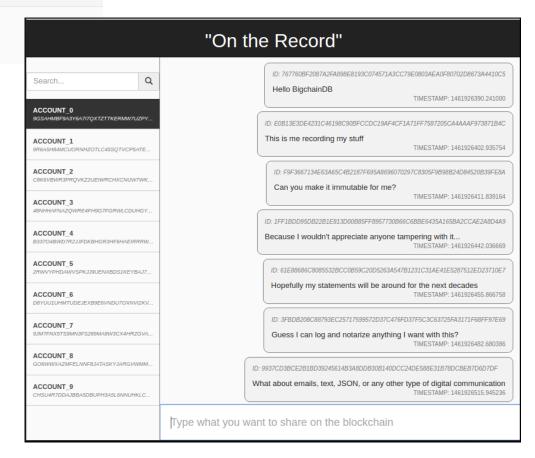
The transaction will be stored in a backlog where it will be validated,

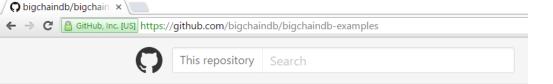
5.4. Transfer the Digital Asset

```
# Create a second testuser
testuser2 priv, testuser2 pub = crypto.generate key pair()
# Create a transfer transaction
tx transfer = b.create transaction(testuser1 pub, testuser2 pub, tx |
# Sign the transaction
tx transfer signed = b.sign transaction(tx transfer, testuser1 priv)
# Write the transaction
b.write transaction(tx transfer signed)
```

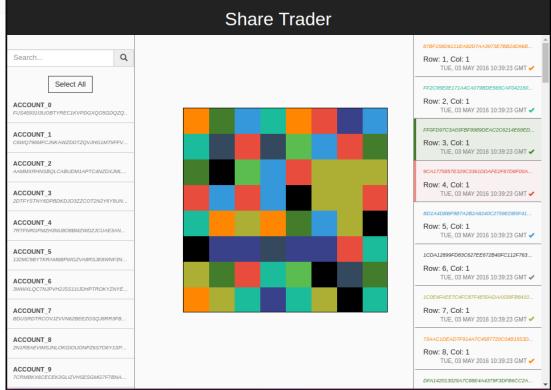


☐ bigchaindb / bigchaindb-examples





bigchaindb / bigchaindb-examples



Blockchains and open data

Trent McConaghy @trentmc0 BIGCHAIN® ascribe®

Aims

- Creators are fairly compensated
- The cultural commons is protected

New blockchain infrastructure

- Frontend for artists: ascribe.io, cc.ascribe.io
- API for IP: docs.ascribe.apiary.io
- Decentralized DB: github.com/bigchaindb
 - End-to-end app examples: github.com/bigchaindb/bigchaindb-examples