

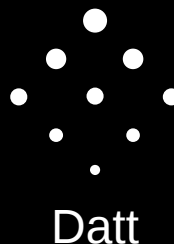
Datt

Decentralized Content Sharing App with Integrated Bitcoin Payments

Ryan X. Charles
San Francisco Bitcoin Meetup
Oct. 27, 2015



Ryan X. Charles
Founder of Datt (datt.co)
twitter.com/ryanxcharles
github.com/ryanxcharles



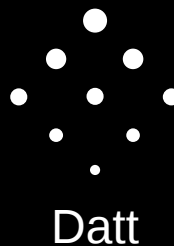
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github.com/dattnetwork
twitter.com/dattnetwork
blog.datt.co

Outline

Origins
Technology
Product
Business
Community
Prototype Status



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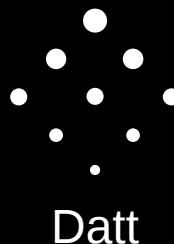
reddit

- Sep. 2014 – Jan. 2015
- World's first official “cryptocurrency engineer”
- Hired by then-CEO Yishan; Yishan quit after 1.5 months; New leadership not interested in cryptocurrency
- Full story in Let's Talk Bitcoin:

<https://letstalkbitcoin.com/blog/post/lets-talk-bitcoin-189-the-story-of-reddit-notes>



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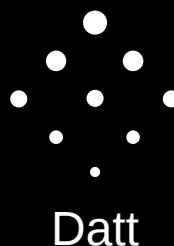
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reddit Drama Summer 2015

- reddit had much drama for about a year from ~summer 2014 - ~summer 2015
- Turning point when they laid off Victoria – community liaison
- Community outrage - /r/iama shutdown, many other subreddits shutdown
- Ultimately lead to CEO Ellen Pao resigning, replaced by co-founder Steve Huffman



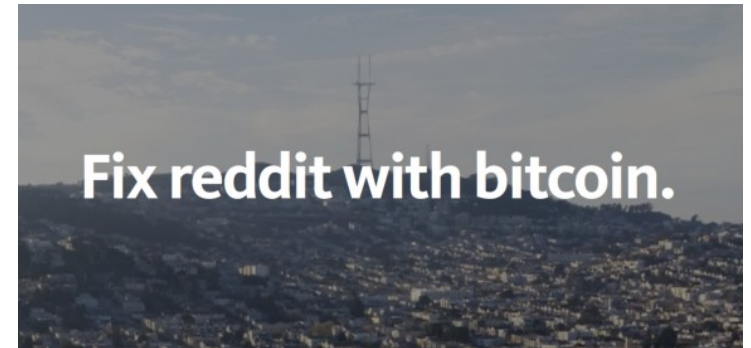
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“Fix reddit with bitcoin”

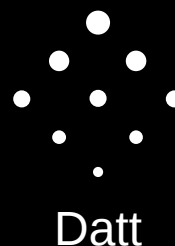
- I wrote an article about making reddit decentralized and adding bitcoin payments
- Help fix incentives problems between company and users:
 - Company doesn't “own” the user's data
 - Users get paid for their work
- Revealed for first time that even reddit wanted to be decentralized



<https://medium.com/@ryanxcharles/fix-reddit-with-bitcoin-7da3f85fb9ba>



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Positive Response

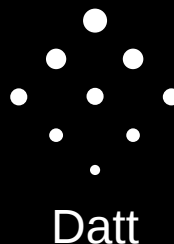
- My article was written about in Wired, Business Insider, re/code, and others. ~80 people emailed wanting to help.
- Popular response was validation that people want this to exist.
- Decided to work on it full-time.
- Then went to India for Blockchain University – long story. Then came back, and...

**THIS MAN SAYS HE CAN SAVE
REDDIT WITH THE SPIRIT OF
BITCOIN**

“The Spirit of Bitcoin” - an airplane
to cross the Atlantic in 2016



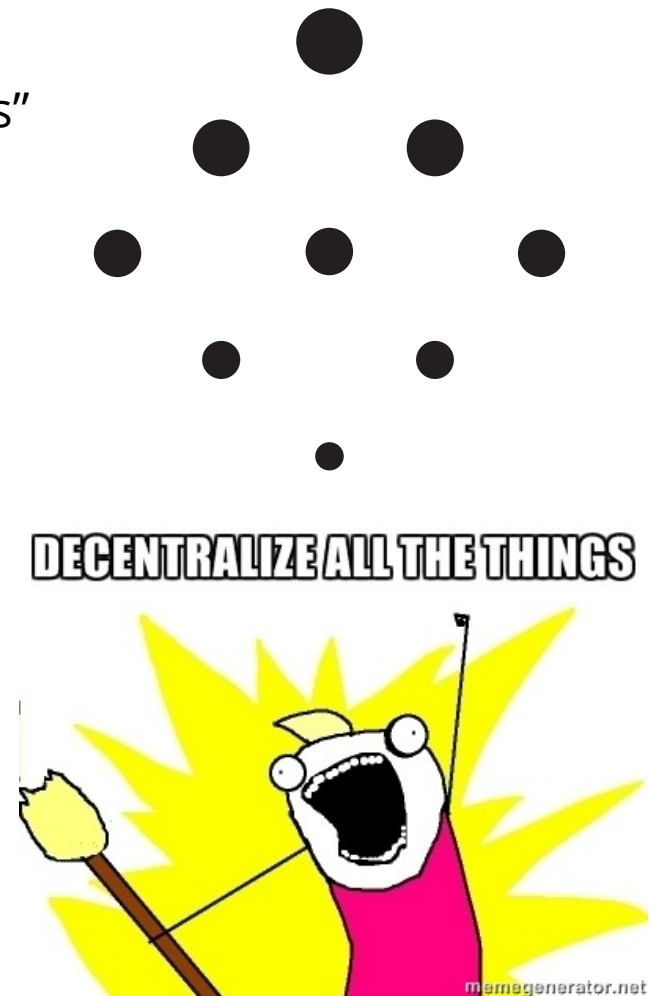
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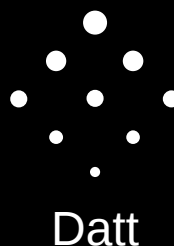
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DATT

- Brainstormed name: “DATT = Decentralize All The Things” (though it looks better as the word Datt)
- Put together international hackathon on weekend of Jul. 31 – Aug. 2. ~30 people worldwide, ~15 in SF, ~100 total on Slack channel
- Set up GitHub page:
 - <https://github.com/dattnetwork>
- Contributors created logo and landing page:
 - <http://datt.co>
- Blog to track progress:
 - <http://blog.datt.co>
- Twitter to track progress:
 - <https://twitter.com/dattnetwork>
- Became Entrepreneur in Residence at IDEO Futures

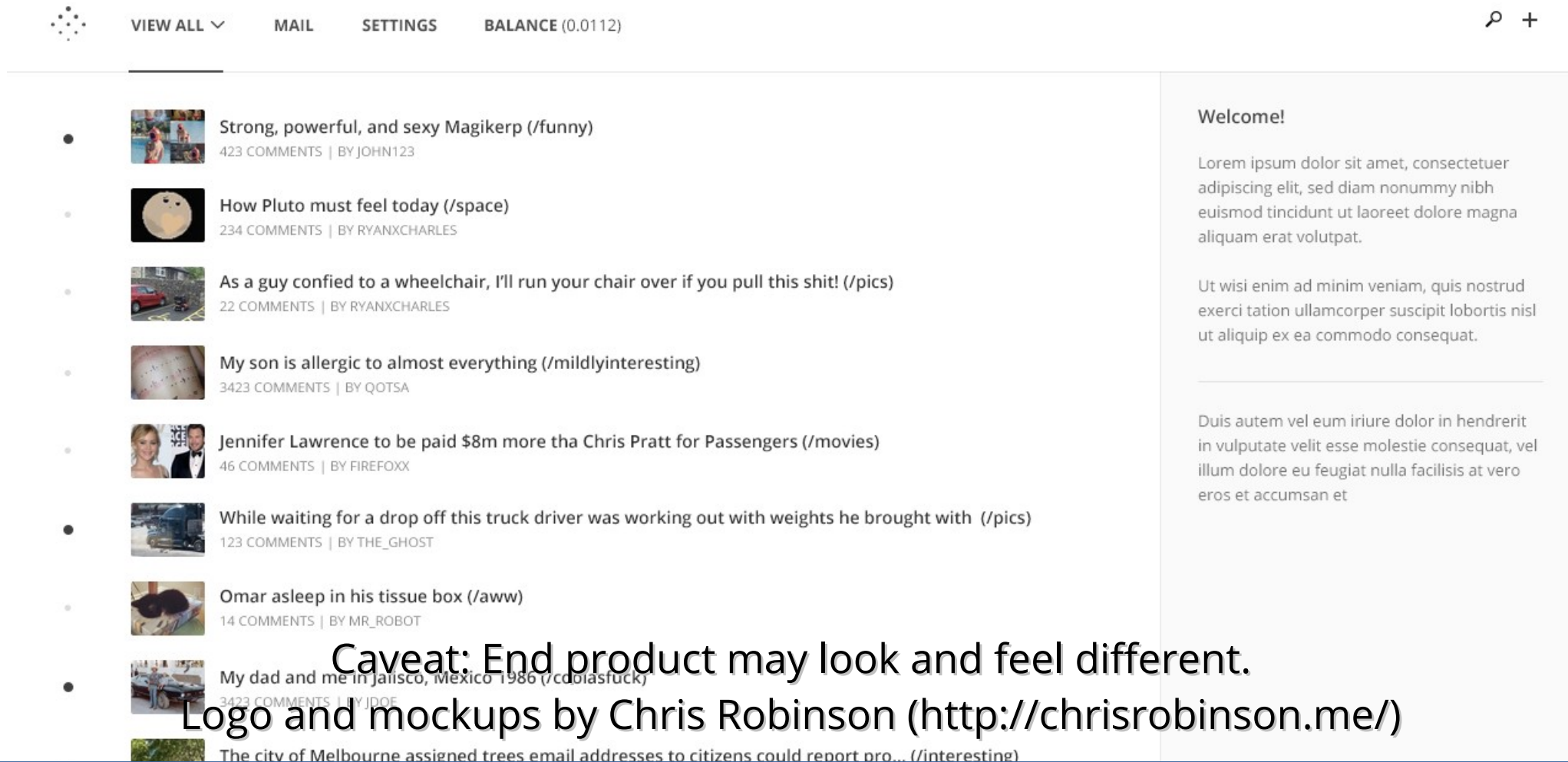


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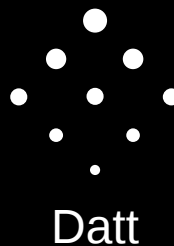
Mockups



Caveat: End product may look and feel different.
Logo and mockups by Chris Robinson (<http://chrisrobinson.me/>)



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Mockups



FUNNY ▾

MAIL

SETTINGS

BALANCE (0.0112)



- **Strong, powerful, and sexy Magikerp**

423 COMMENTS | JOHN123 | [REPLY](#)

Li European lingues es membres del sam familie. Lor separat existentie es un myth. Por scientie, musica, sport etc, li tot Europa usa li sam vocabularium. Li lingues Omnicos directe al desirabilita; de un nov lingua franca: on refusa continuar pagar custosi traductores. It solmen va esser necessari far uniform grammatica, pronunciation e plu sommun paroles.

SORT: **NEWEST** ▾

▢ • **BILL_N_TED** | [REPLY](#)

Ma quande lingues coalesce, li grammatica del resultant lingue es plu simplic e regulari quam ti del coalescent lingues. Li nov lingua franca va esser plu simplic e regulari quam li existent European lingues. It va esser tam simplic quam Occidental: in fact, it va esser

▢ • **RANDOM123** | [REPLY](#)

Epsum factorial non deposit quid pro quo hic escorol. Olypian quarrels et gorilla congolium sic ad nauseam. Seducting duss tal tal unculi purpura unicorn. Delectonigo es groy canmay

Unsubscribe

/Funny

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Board Rules

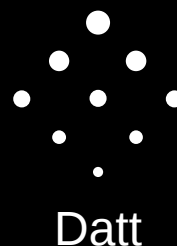
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Mockups



VIEW ALL ▾

MAIL

SETTINGS

BALANCE (0.0112)



Create New Text Post

BOARD

/Bitcoin

TITLE

Defacto lingo est igpay undum e pluribus unum

TEXT

Epsum factorial non deposit quid pro quo hic escorol. Olypian quarrels et gorilla congolium sic ad nauseum. Souvlaki ignitus carborundum e pluribus unum. Defacto lingo est igpay atinlay

Posting Guidelines

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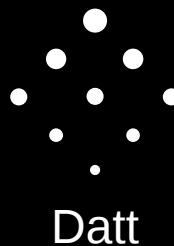
Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat.

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Post

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Mockups



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MAIL

SETTINGS

BALANCE (0.0112)



Re: Strong, powerful, and sexy Magikerp

COMMENT REPLY | JOHN123 | REPLY | HIDE

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Compose Message

Inbox	482
Sent	12
Hidden	43

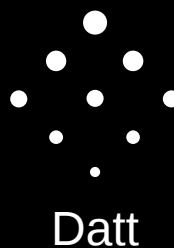
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Re: Strong, powerful, and sexy Magikerp
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COMMENT REPLY | JOHN123 | REPLY | HIDE



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Mockups

[VIEW ALL](#) ▾[MAIL](#)[SETTINGS](#)[BALANCE \(0.0112\)](#)

Current Balance:

0.0112 BTC



DATE ▾	DESCRIPTION	USER	AMOUNT
10/10/2015	Received Tip for "My First Post"	RYANXCHARLES	+ 0.012 BTC
10/10/2015	Received Like for "Random Post Title"	JJ32167	+ 0.05 BTC
09/10/2015	You Liked "Bitcoin Moon"	LEET1337	- 0.02 BTC
09/10/2015	Received Tip for "My First Post"	BILLY33	+ 0.1 BTC
08/10/2015	Received Tip for "My First Post"	RYANXCHARLES	+ 1 BTC
08/10/2015	You Tipped "BTC meet moon"	LISBETHSALANDER	- 0.02 BTC
07/10/2015	You Liked "Another Name"	LEET1337	- 0.015 BTC
07/10/2015	You Tipped "Post Title"	BILLY33	- 0.0012 BTC
07/10/2015	Received Like for "Another Random Post Title"	JJ32167	+ 0.05 BTC
06/10/2015	You Liked "Bitcoin Moon"	LEET1337	- 0.02 BTC
06/10/2015	Received Tip for "My First Post"	BILLY33	+ 0.1 BTC
06/10/2015	Received Tip for "My First Post"	RYANXCHARLES	+ 1 BTC
06/10/2015	You Tipped "Bitcoin Moon"	LISBETHSALANDER	- 0.02 BTC
06/10/2015	Received Tip for "My First Post"	BILLY33	+ 0.1 BTC

Add Bitcoins

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1NDpZ2wyFekVezssSXv2tmQgmxc0HMuJ7u

Withdraw Bitcoins

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Export History

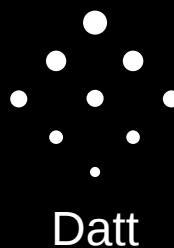
You can download a detailed, searchable transaction history. [Download CSV](#).

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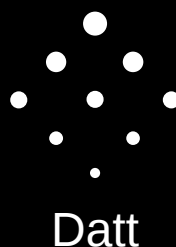
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Open-Source

- Everything is being developed in the open on our GitHub page and Slack channel
- Not just software, but business plans, product plans, and community plans are open-source
- >20 people have made substantial contributions



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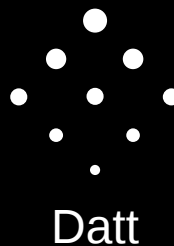
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Prototype Status

- The minimalist, non-launchable, technology demo prototype is about 75% finished
- “Invite-only” prototype launch in November
- Need to heavily refine all aspects before real launch – product, community, business, technology
- March is realistic goal for “public launch”



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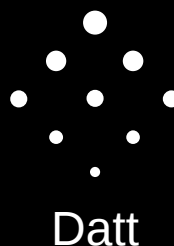
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Product Overview

- Inspired by reddit, but is not intended to look or feel the same as reddit or be a full reddit replacement
- More emphasis on content producers – probably will let you follow people like Twitter
- Trying very hard to get the psychology right – why do people want to pay for content they can get for free?
- Do not need to have bitcoin to view or post content



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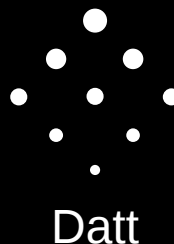
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Community Overview

- Intended to reach a mainstream audience
- Bitcoiners, decentralization community, disaffected reddit users form current core users – but aim to focus product on a more broad userbase
- We have several conflicting community plans – see dattdocs



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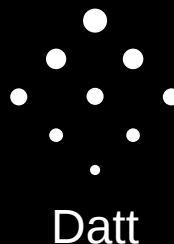
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Business Overview

- Business model is to take a portion of payments (though decentralized, client default settings pay a portion to the company)
- So long as people like us, most people probably will not change the default settings
- Other business models possible such as providing extra services, or of course ads, but not on Day 1



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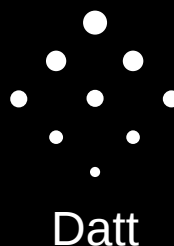
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Technology Overview

- Bitcoin for payments
- Blockchain for misc. features such as querying content and identities – though not all things will be included at launch
- Custom P2P protocol for now, but probably will switch to IPFS or something similar
- Code: Javascript, Node.js 4, React, isomorphic, fullnode, and will use C++ crypto in backend



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Contributing

Code

datt repo & Slack

<https://github.com/dattnetwork/datt>
<http://datt-slackin.herokuapp.com/>

Business

dattdocs repo & Slack

<https://github.com/dattnetwork/dattdocs>
<http://datt-slackin.herokuapp.com/>

Product

dattdocs, dattmedia, & Slack

<https://github.com/dattnetwork/dattmedia>
<https://github.com/dattnetwork/dattdocs>
<http://datt-slackin.herokuapp.com/>

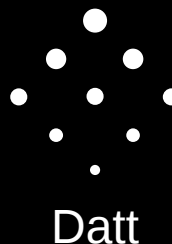
Community

dattdocs repo & Slack

<https://github.com/dattnetwork/dattdocs>
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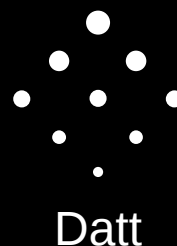
Slack

<https://dattnetwork.slack.com/>

Register: <https://datt-slackin.herokuapp.com>



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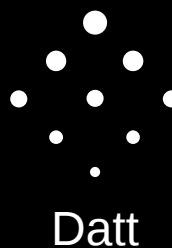
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Thanks!

Brad Kam
Chris Marie
Chris Robinson
Darren M
Deepak Raous
Eric Martindale
George Vaccaro
go1dfish
Guillaume Dumas
Johan Halseth
Michael Houston
Omar Mashaal
Paul Salisbury
Ramakrishnan A (Ramki)
Willy Bruns
Blockchain University
ChangeTip
IDEO Futures



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