

A QUICK DIVE INTO THE DWEB WITH IPFS

30th of November 2019



Henrique Dias
IPFS

**Why does this matter
to you?**

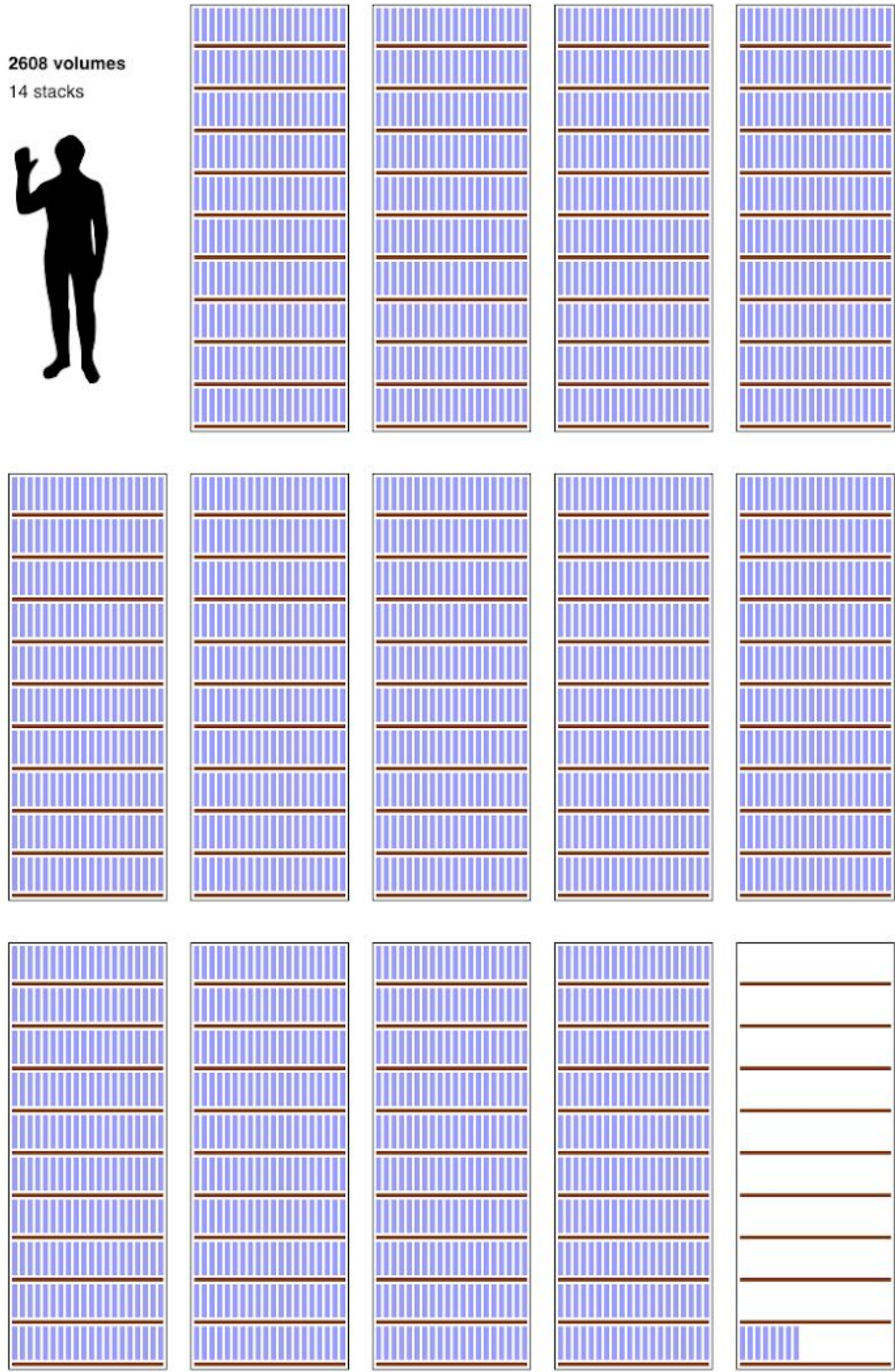


Connecting the World 21 September 2017

EN FR ES

Internet Society statement on Internet blocking measures in Catalonia, Spain

Measures restricting free and open access to the Internet have been reported in Catalonia. There have been reports that [major telecom operators have been asked to monitor and block traffic](#) to political websites, and following a court order, law enforcement has [raided the offices of the .CAT registry in Barcelona](#), examining a computer and arresting staff.





2 yıldır özölüyoruz
Özgür Ansiklopedi

Anasayfa
Hakkımızda
İçindekiler
Rastgele madde
Seçkin içerik

Katılım

Bağış yapın
Deneme tahtası
İş birliği projesi
Köy çeşmesi
Son değişiklikler
Topluluk portalı
Wikimedia dükkânı
Yardım

Diğer projelerde

Wikimedia Commons
MediaWiki
Meta-Wiki
Wikispecies
Wikikitap
Vikiveri
Wikimania
Vikihaber
Vikisöz
Vikikaynak
Vikisözlük



Participate in an international science photo competition!



Yılın maddeleri yarışması belirli bir yılda en iyi içeriğe sahip olan maddelerin seçildiği bir topluluk yarışmasıdır. Söz konusu yıl için Vikipedi kullanıcıları tarafından aday gösterilen maddeler arasından seçilir.

[Yılın maddeleri](#) yarışmasına katılın!

[Kapat]

Vikipedi'ye hoş geldiniz

Herkesin katkıda bulunabildiği *Özgür Ansiklopedi*

Türkçe madde sayısı: 336.332

26 Kasım 2019, Salı

- Bilim
- Coğrafya
- Din
- Fizik
- Matematik
- Sanat
- Spor
- Tarih
- Tüm portaller**

Haftanın seçkin maddesi



Bayağı doğan (*Falco peregrinus*), *gökdoğan*, *alaca doğan* ya da yalnızca *doğan* *doğaniller* (Falconidae) familyasından oldukça yaygın bir *gündüz yırtıcı kuş* türüdür. Büyük bir kuş olan gökdoğanın sırtı kül grisi, başı kara ve alt kısımları beyaz üzerine çubukludur. Kuşlarla beslenen yırtıcı kuşlarda görüldüğü üzere, gökdoğan *eşeyssel dimorfizm* sergiler ve dişileri erkek bireylerden biraz daha büyüktür. Gökdoğan hızıyla tanınır; avına doğru yaptığı kendine özgü dalış sırasında maksimum hızının anlık olarak saatte 360 km.'nin üzerine çıkabildiği tahmin edilmektedir. Bu hız

gökdoğanı hayvanlar âleminin en hızlı hayvanı yapmaktadır. Gökdoğanın üreme alanları arktik *tundralardan* *dönencelere* kadar çok geniş bir alanı kapsar. Kutup bölgeleri, çok yüksek dağlar ve tropikal *yağmur ormanlarının* dışında dünyanın her yerinde bulunur. (**Devamı...**)

Günün seçkin resmi



wired.com/story/iran-internet-shutoff/

WIRED

BUSINESS CULTURE GEAR IDEAS SCIENCE SECURITY TRANSPORTATION

SIGN IN

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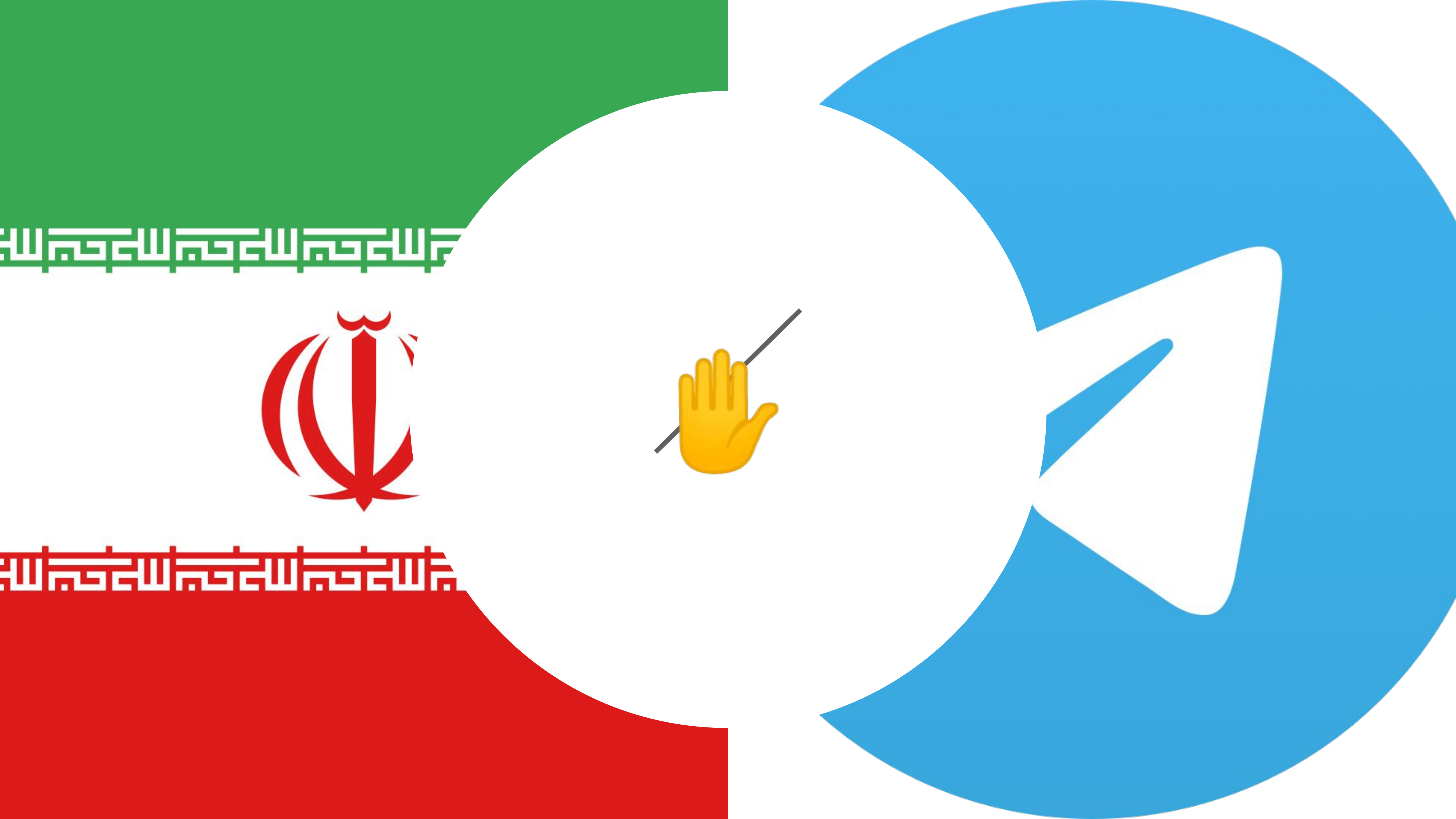
LILY HAY NEWMAN

SECURITY 11.17.2019 03:34 PM

How the Iranian Government Shut Off the Internet

After years of centralizing internet control, Iran pulled the plug on connectivity for nearly all of its citizens.





The worst thing about
censorship is



**What if there was a
better way?**

Actually, there is!

Orbit Chat

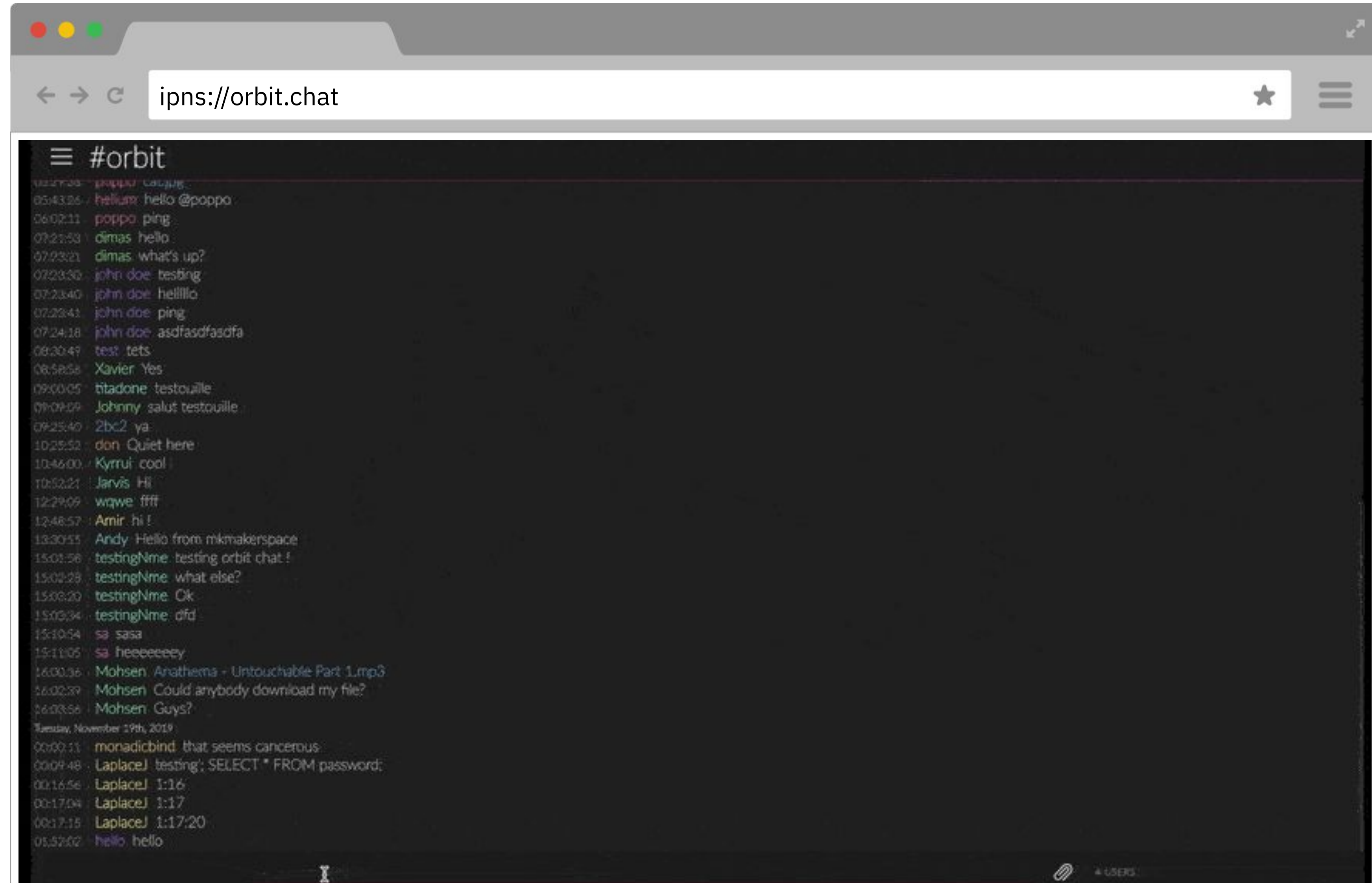
Distributed Chat



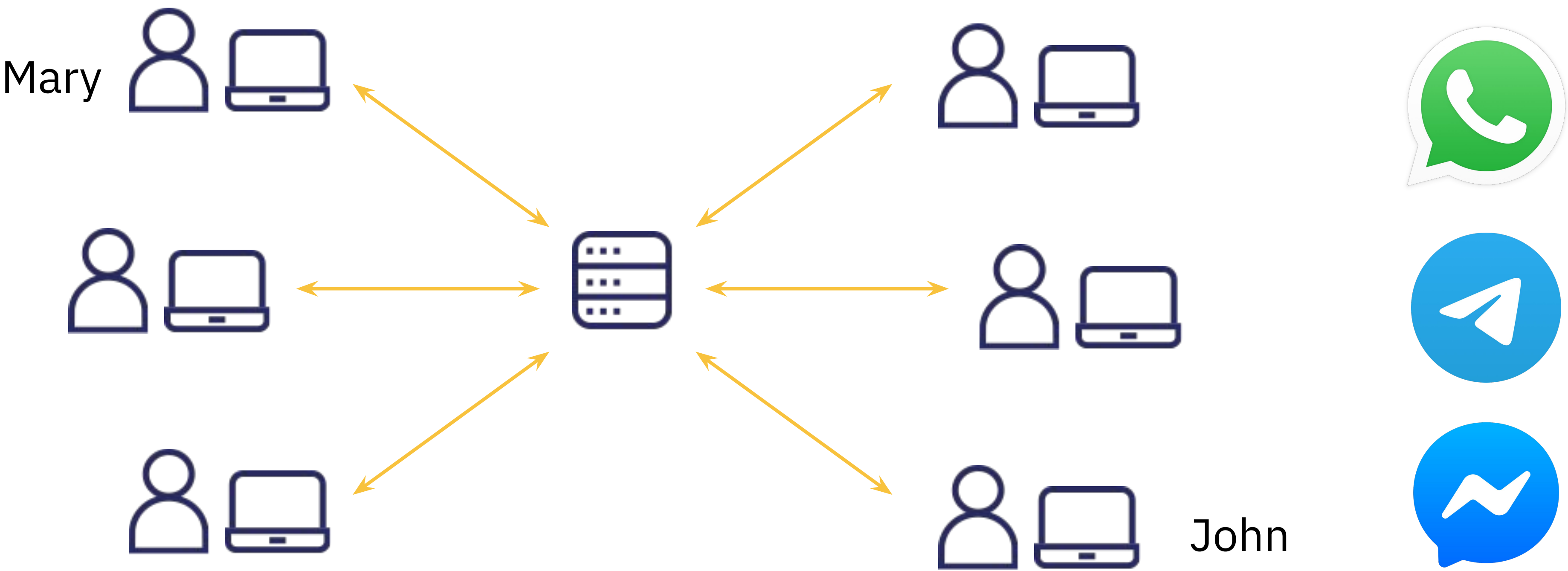
github.com/orbitdb/orbit



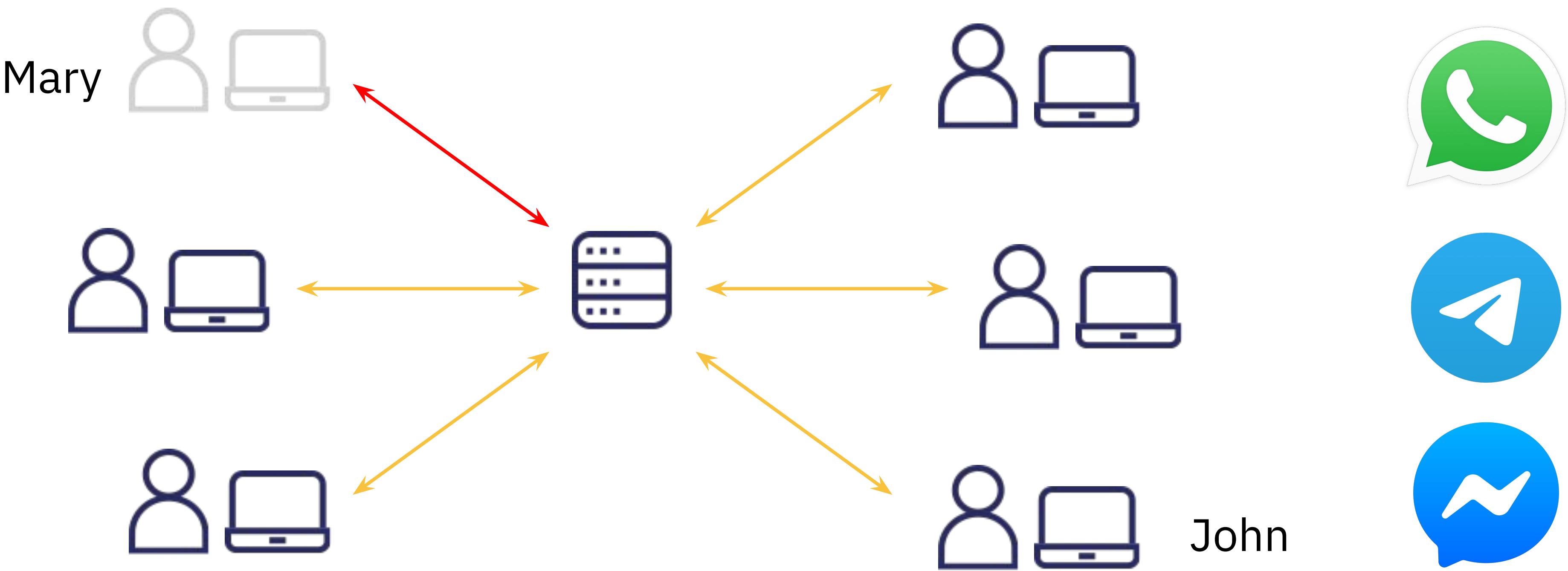
orbit.chat



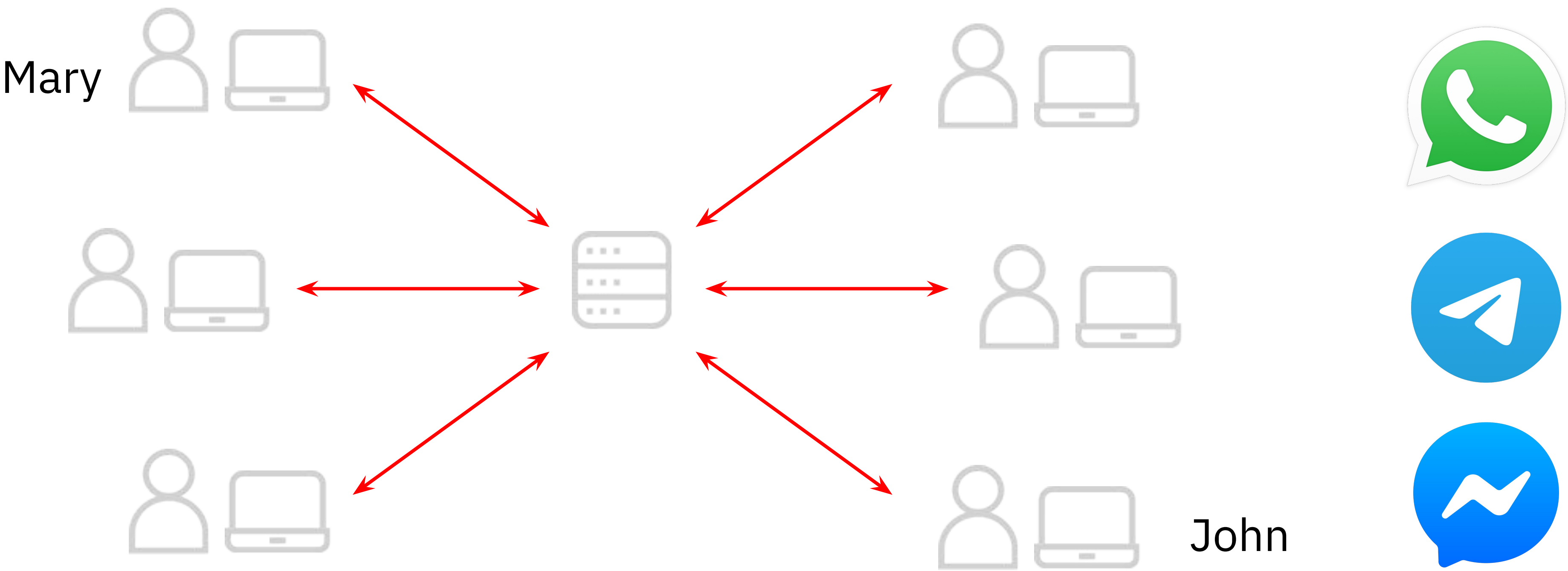
Centralized vs Decentralized



Centralized vs Decentralized

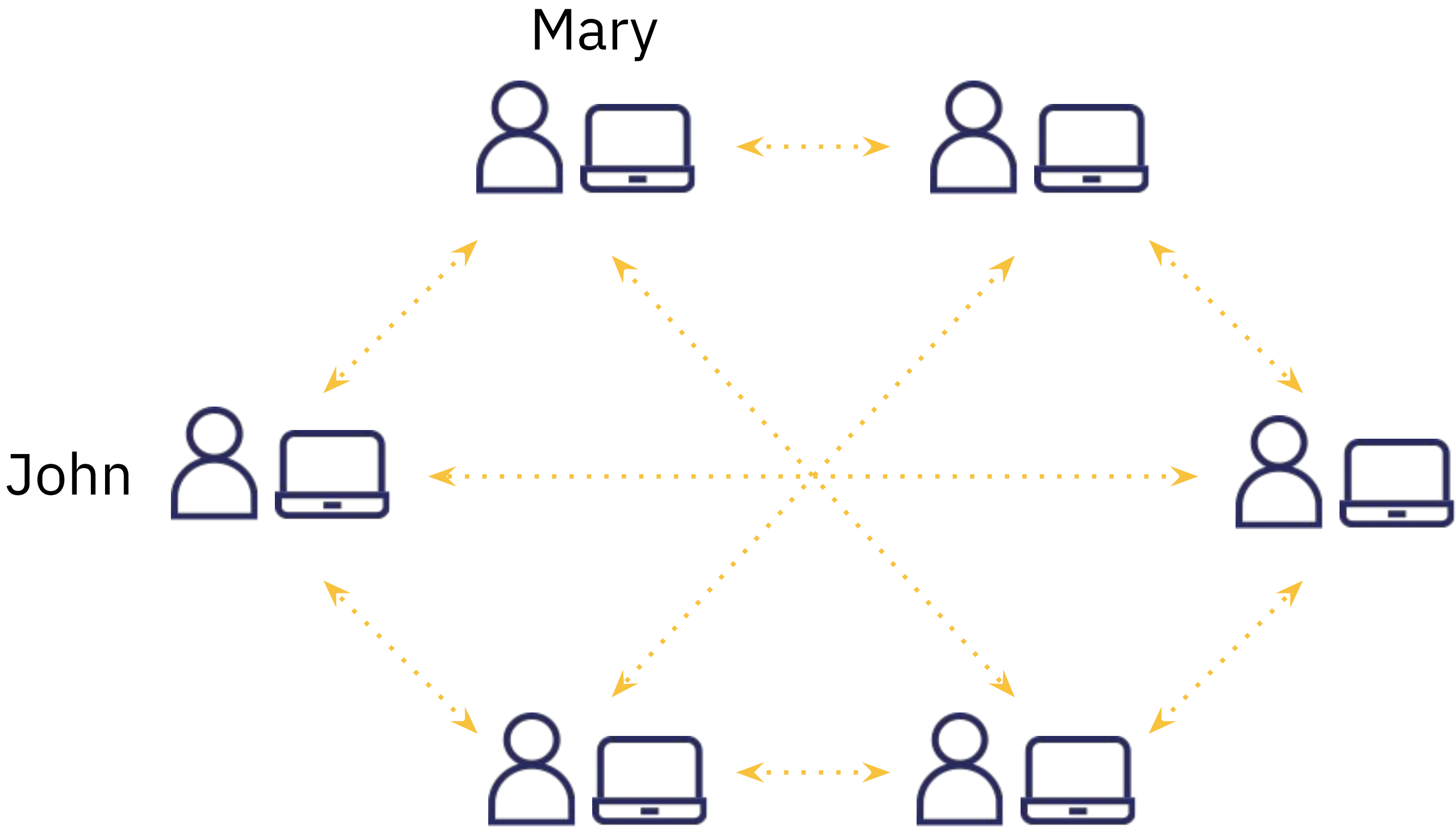


Centralized vs Decentralized

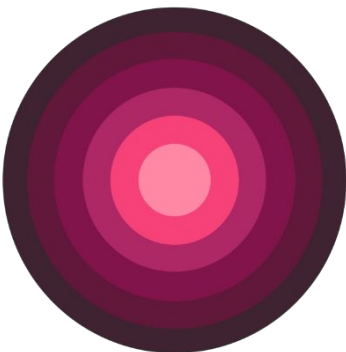
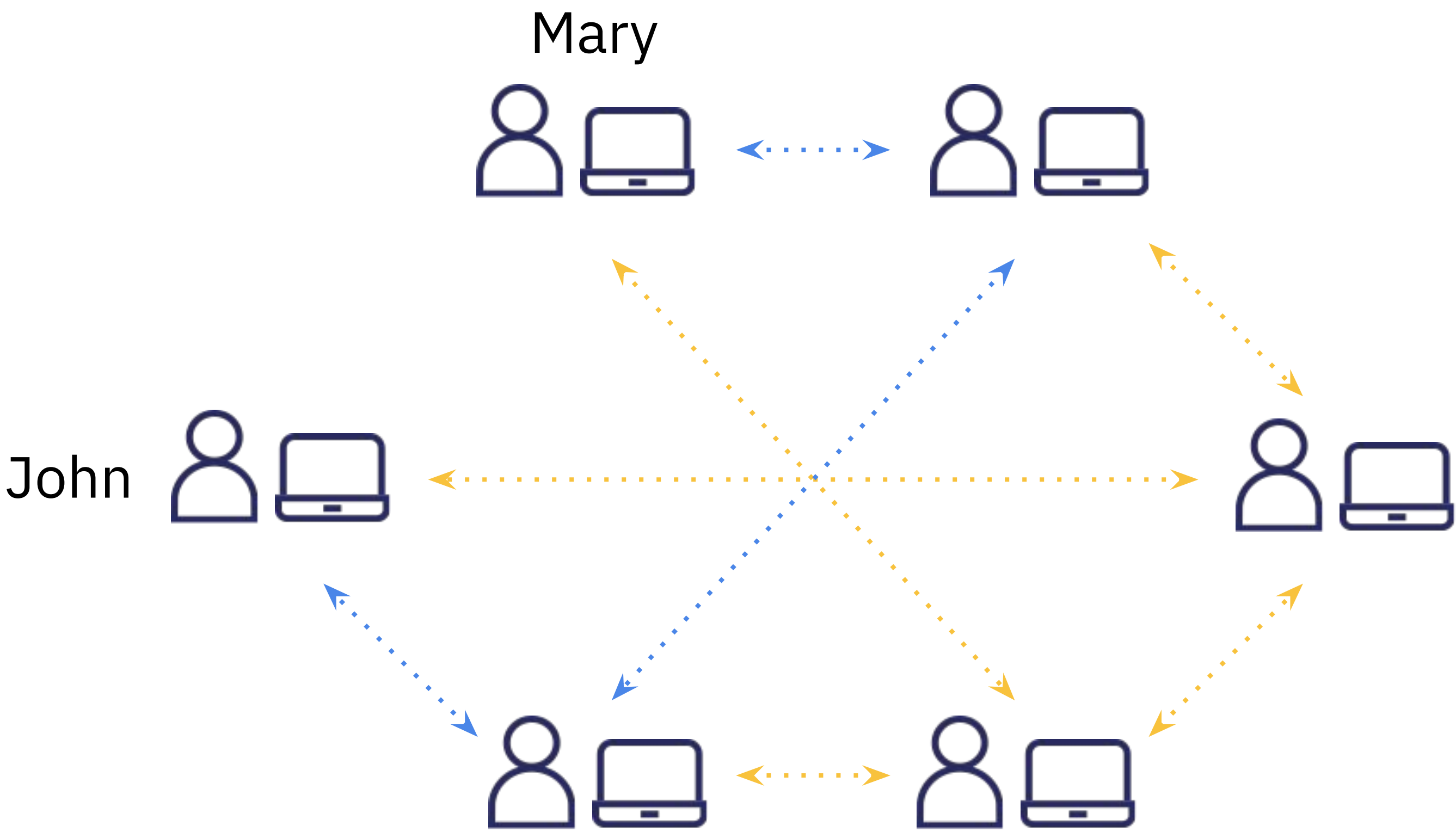


Source: What is the InterPlanetary File System? Peter Vowell for Stackpatch, 2016

Centralized vs Decentralized



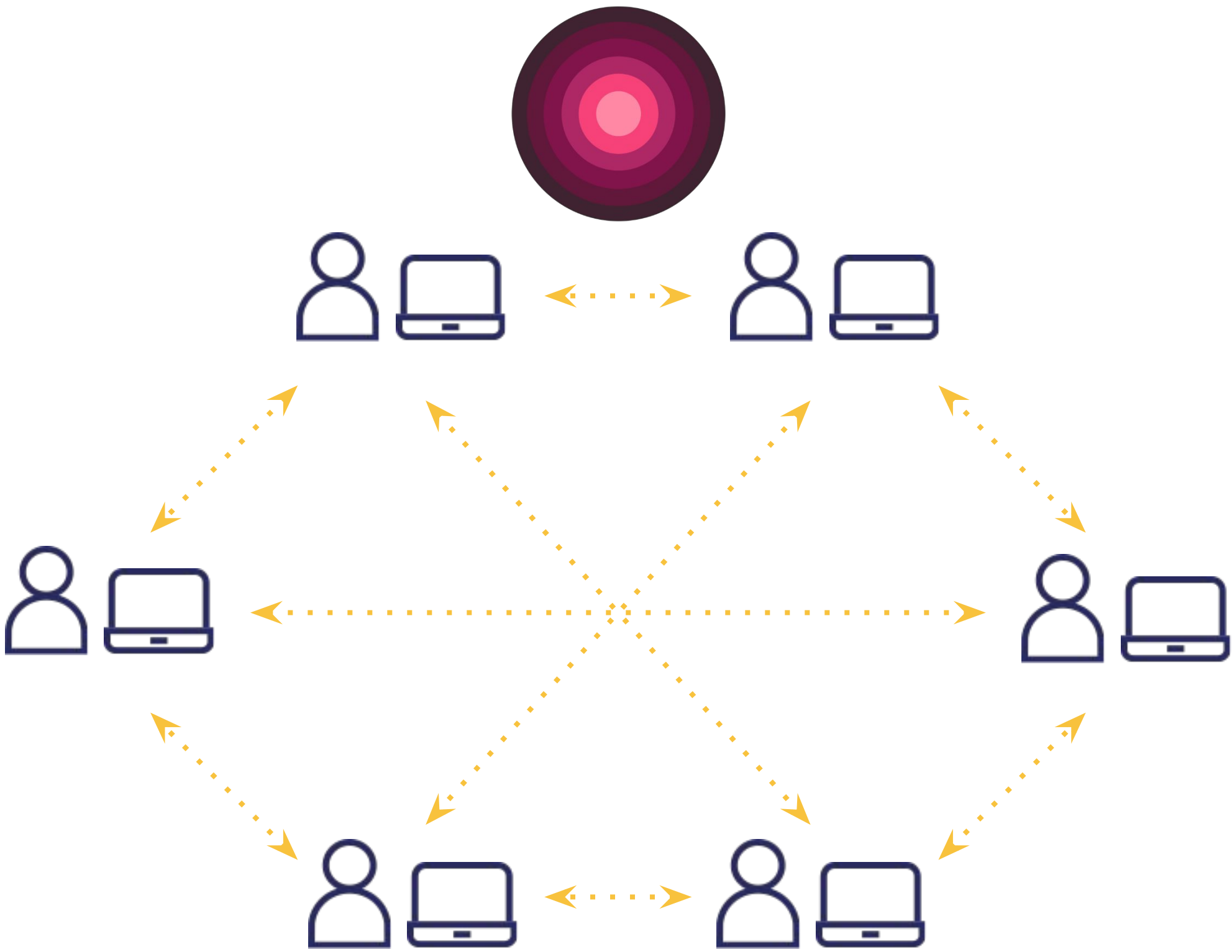
Centralized vs Decentralized



Centralized vs Decentralized



VS



Textile Photos

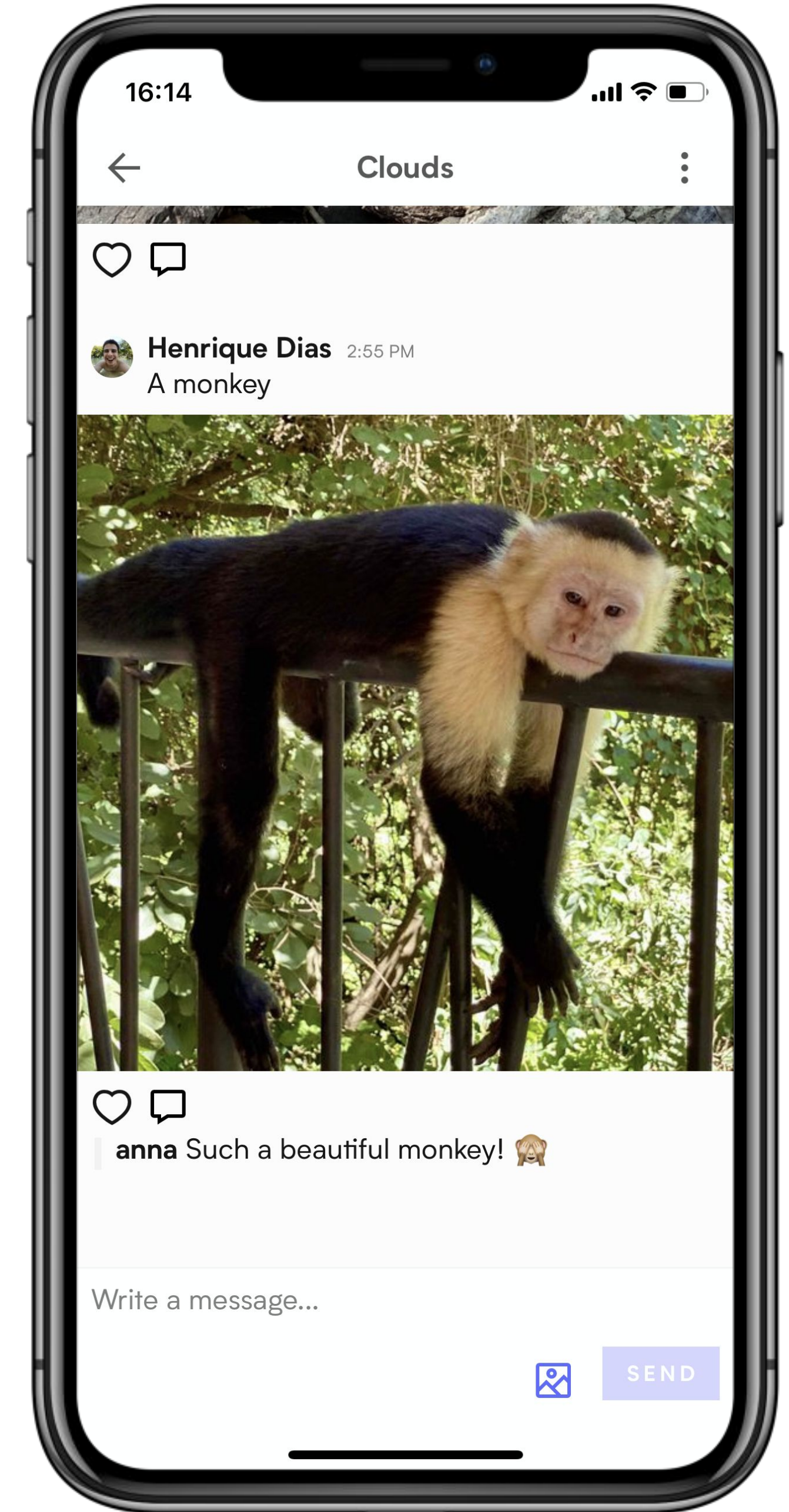
Decentralized “Instagram”



github.com/textileio/photos

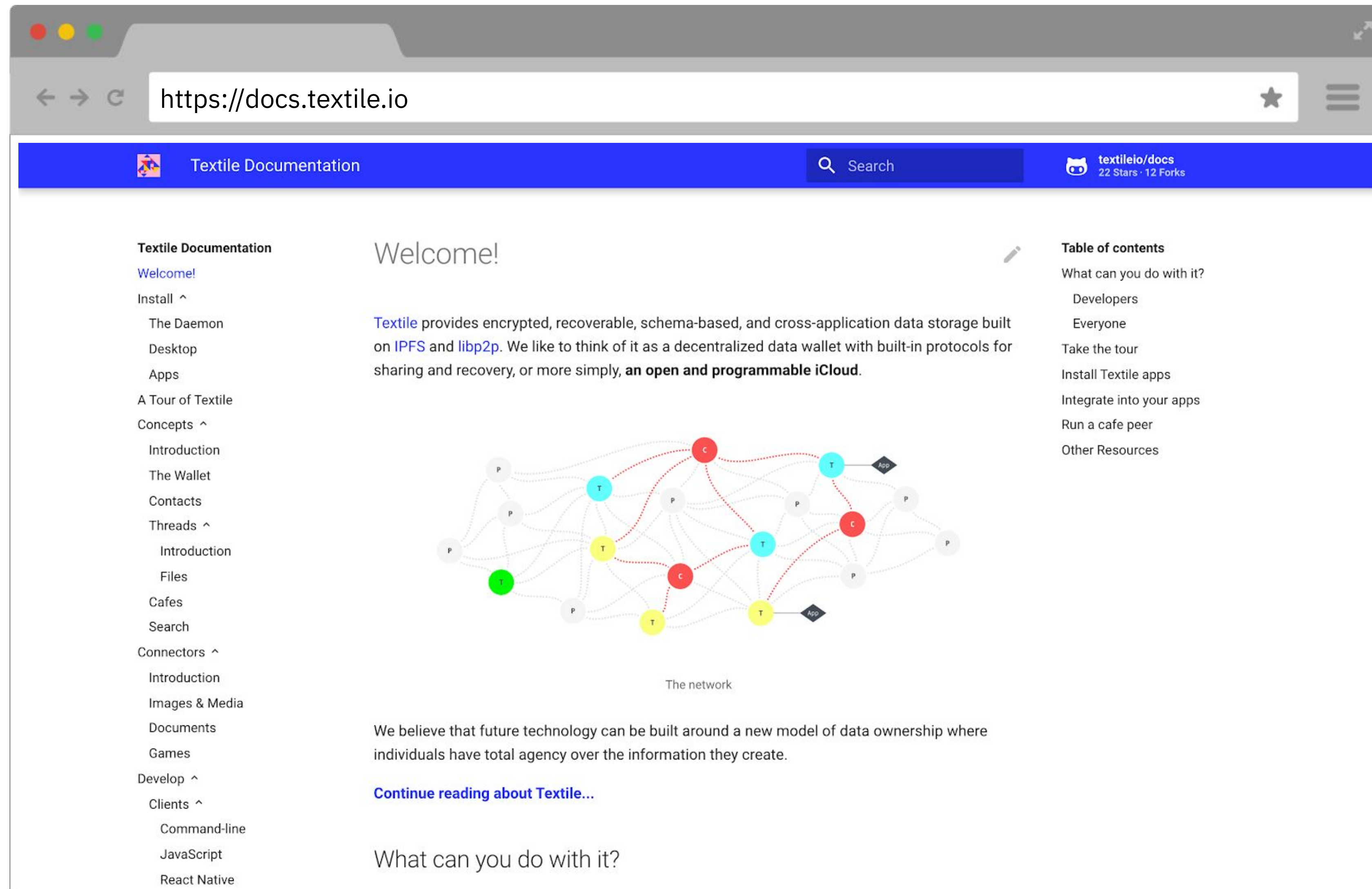


textile.photos



Textile Library

Decentralize your app



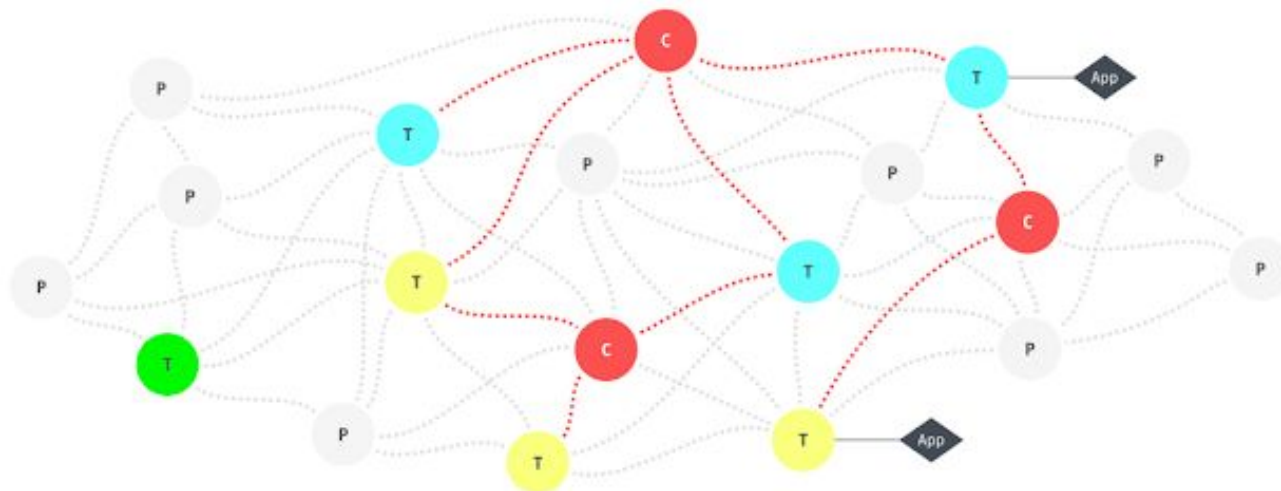
The screenshot shows a web browser window with the address bar displaying `https://docs.textile.io`. The page has a blue header with the Textile Documentation logo, a search bar, and a GitHub repository link for `textileio/docs` with 22 stars and 12 forks. The main content area is divided into three sections: a left sidebar with a navigation menu, a central main content area, and a right sidebar with a table of contents.

Textile Documentation

- Welcome!
- Install ^
 - The Daemon
 - Desktop
 - Apps
- A Tour of Textile
- Concepts ^
 - Introduction
 - The Wallet
 - Contacts
 - Threads ^
 - Introduction
 - Files
 - Cafes
 - Search
- Connectors ^
 - Introduction
 - Images & Media
 - Documents
 - Games
- Develop ^
 - Clients ^
 - Command-line
 - JavaScript
 - React Native

Welcome!

Textile provides encrypted, recoverable, schema-based, and cross-application data storage built on [IPFS](#) and [libp2p](#). We like to think of it as a decentralized data wallet with built-in protocols for sharing and recovery, or more simply, **an open and programmable iCloud**.





The diagram illustrates the Textile network as a decentralized system. It features a central cluster of nodes connected by dotted lines. The nodes are represented by colored circles: red (labeled 'C'), cyan (labeled 'T'), yellow (labeled 'T'), and green (labeled 'T'). Some nodes are also labeled 'P'. The network is shown as a complex web of connections, with some nodes having arrows pointing to them, indicating data flow or connections. The caption below the diagram is "The network".

Table of contents

- What can you do with it?
 - Developers
 - Everyone
- Take the tour
- Install Textile apps
- Integrate into your apps
- Run a cafe peer
- Other Resources

What can you do with it?



github.com/textileio 
textile.io 

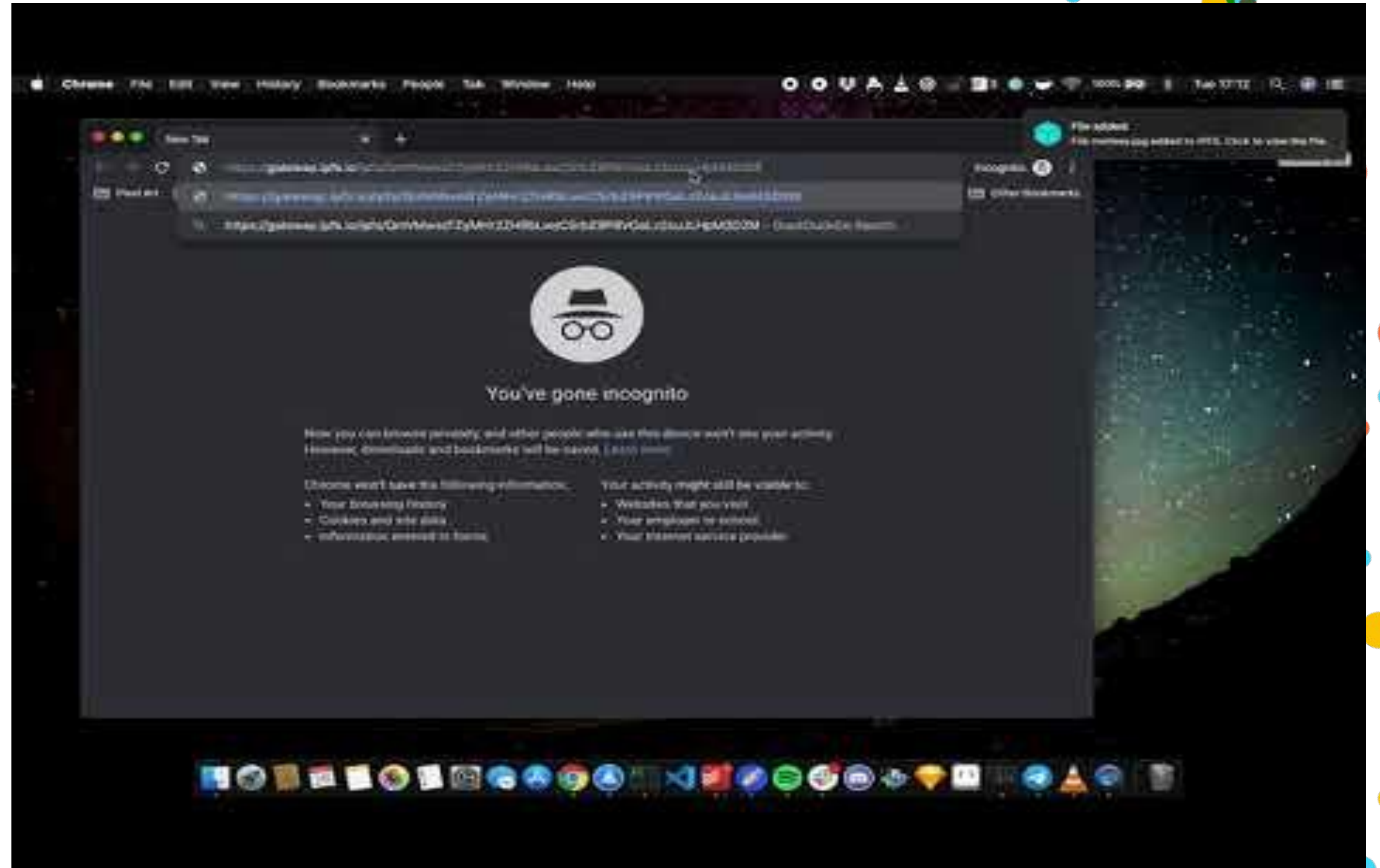


IPFS Desktop

Distributed “Dropbox”



 [github.com/ipfs-shipyard/
ipfs-desktop](https://github.com/ipfs-shipyard/ipfs-desktop)



ipfs.io/ipfs/QmVMwssTZyMHr2ZHRbLwsC5rbZ9P8VGaLz2cuJLHpM3D2M



ipfs.io/ipfs/QmVMwssTZyMHr2ZHRbLwsC5rbZ9P8VGaLz2cuJLHpM3D2M



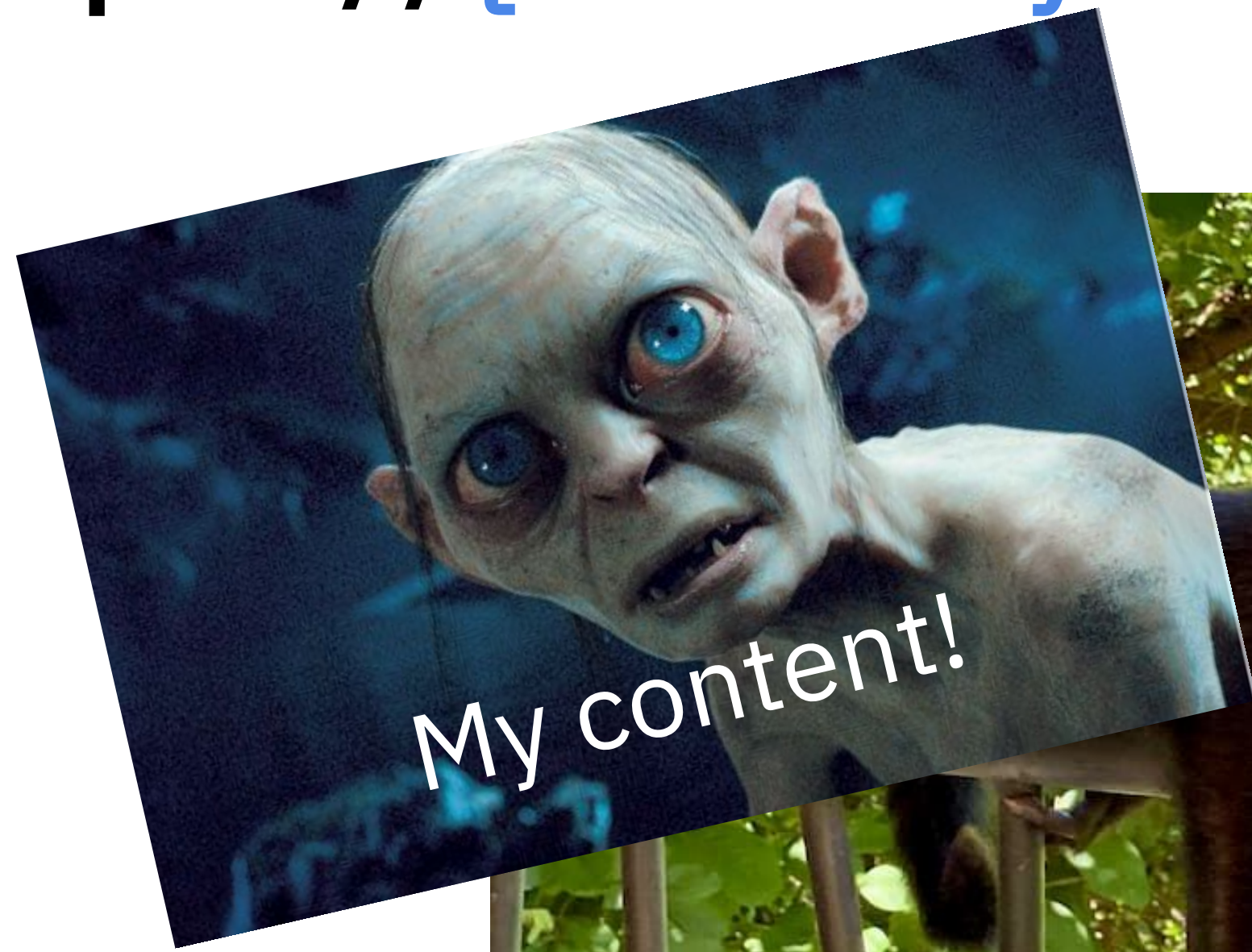
ipfs: //QmVMwssTZyMHr2ZHRbLwsC5rbZ9P8VGaLz2cuJLHpM3D2M



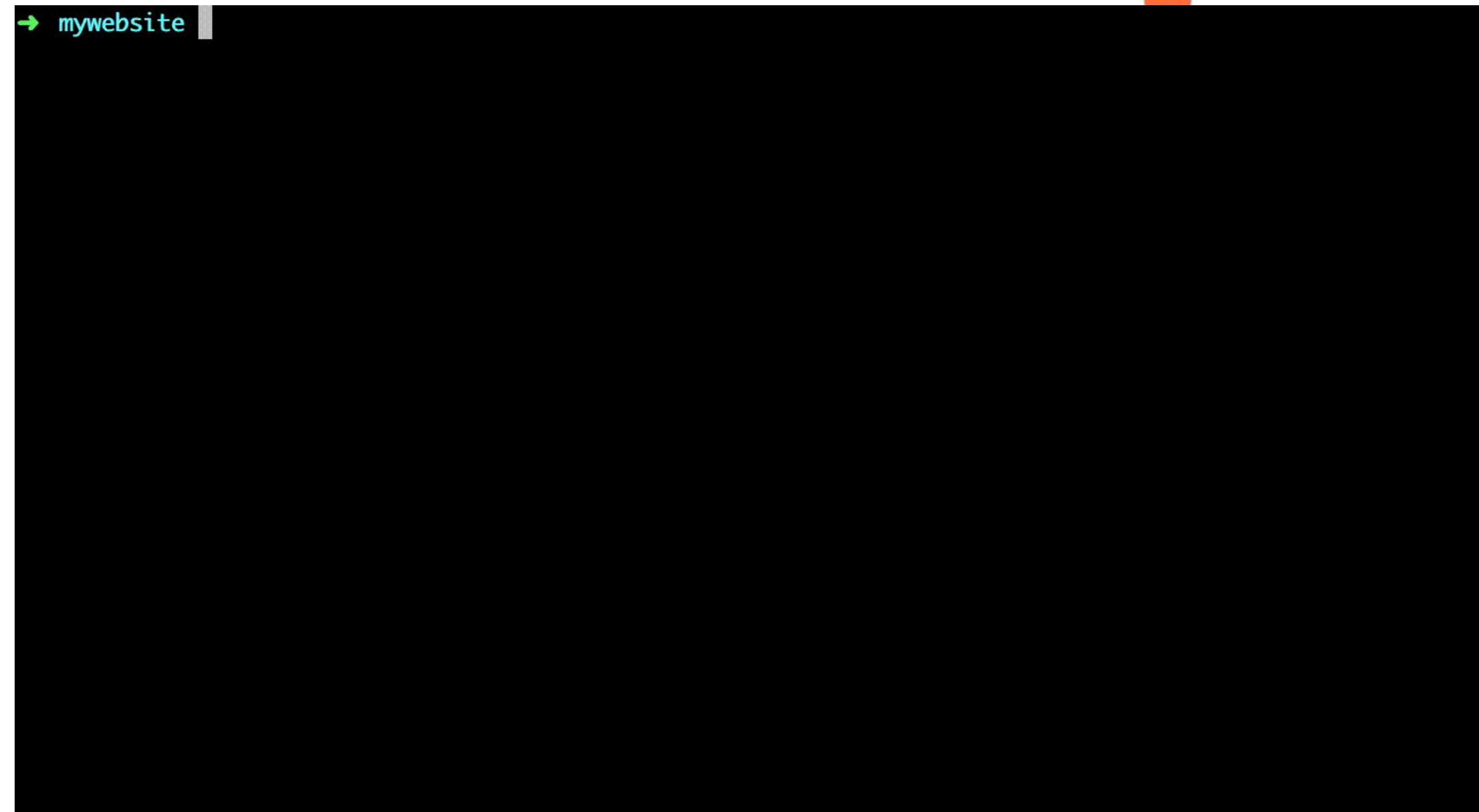
ipfs: //QmVMwssTZyMHr2ZHRbLwsC5rbZ9P8VGaLz2cuJLHpM3D2M



ipfs: //QmVMwssTZyMHr2ZHRbLwsC5rbZ9P8VGaLz2cuJLHpM3D2M



Publish Websites Distributed Websites



github.com/ipfs-shipyard/ipfs-deploy

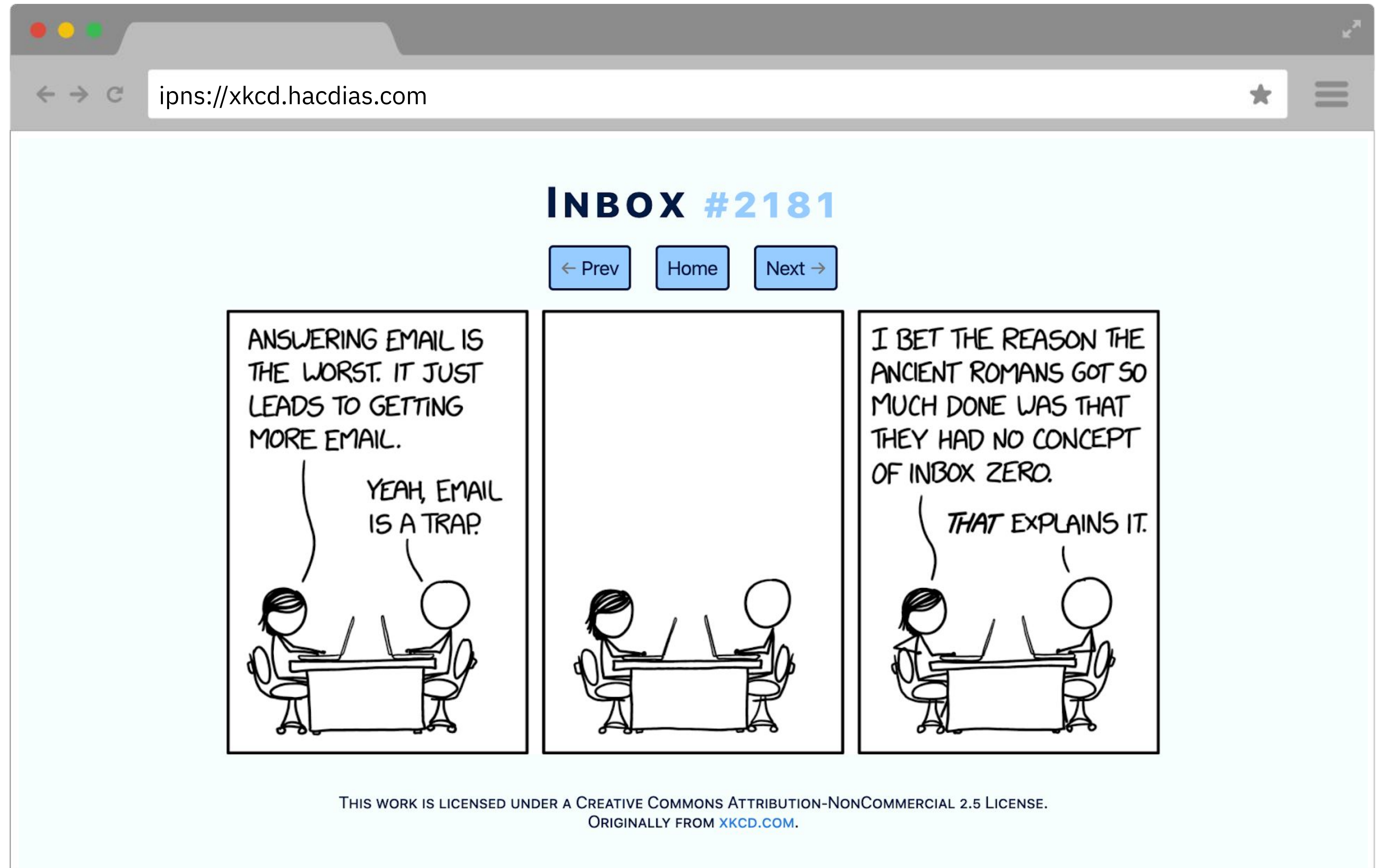


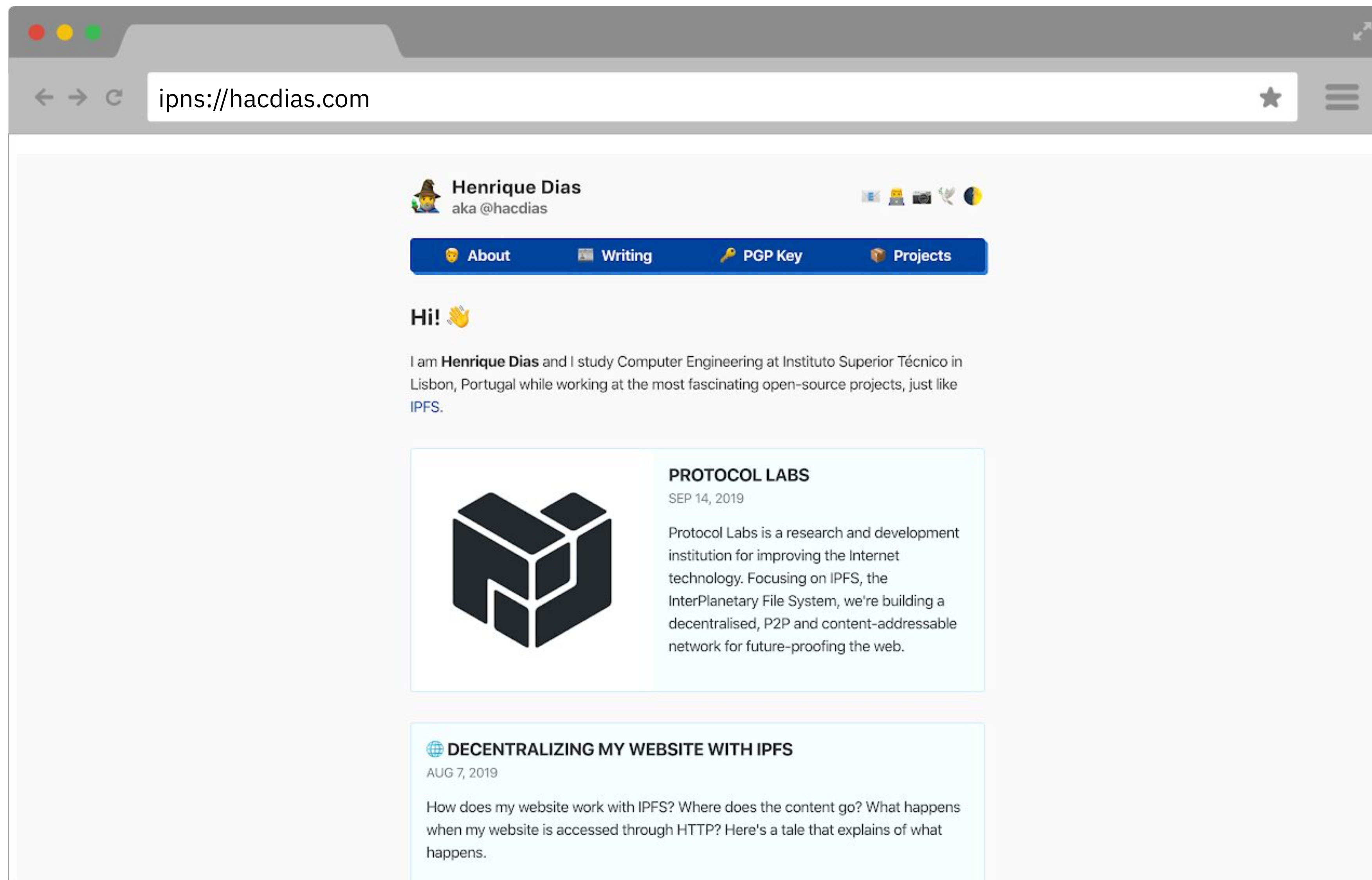
npmjs.com/package/xkcd-clone



github.com/hacdias/xkcd.hacdias.com




Distributed XKCD










And many others...




Data










Identity









Productivity














Marketplace


















NFT










Content






Other







Social Media








Governance







Exchange







Finance



Integrations & Collabs



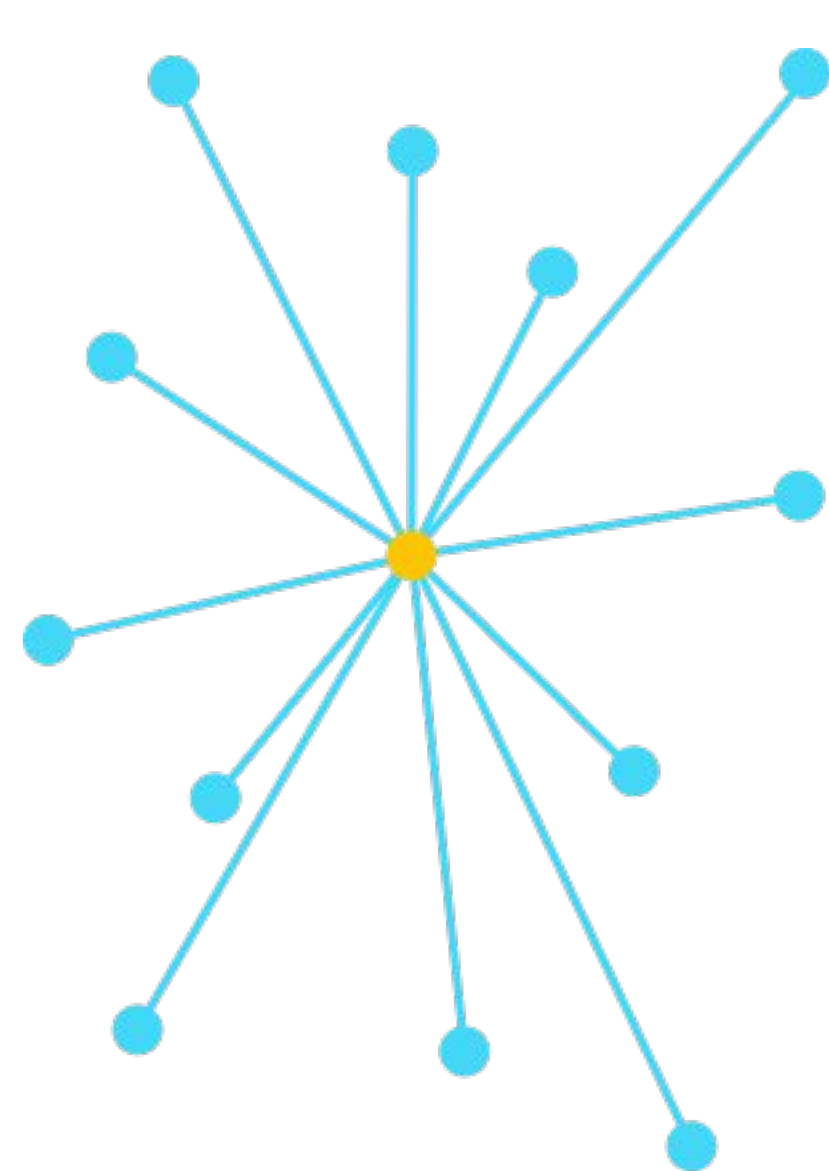
Prediction and betting



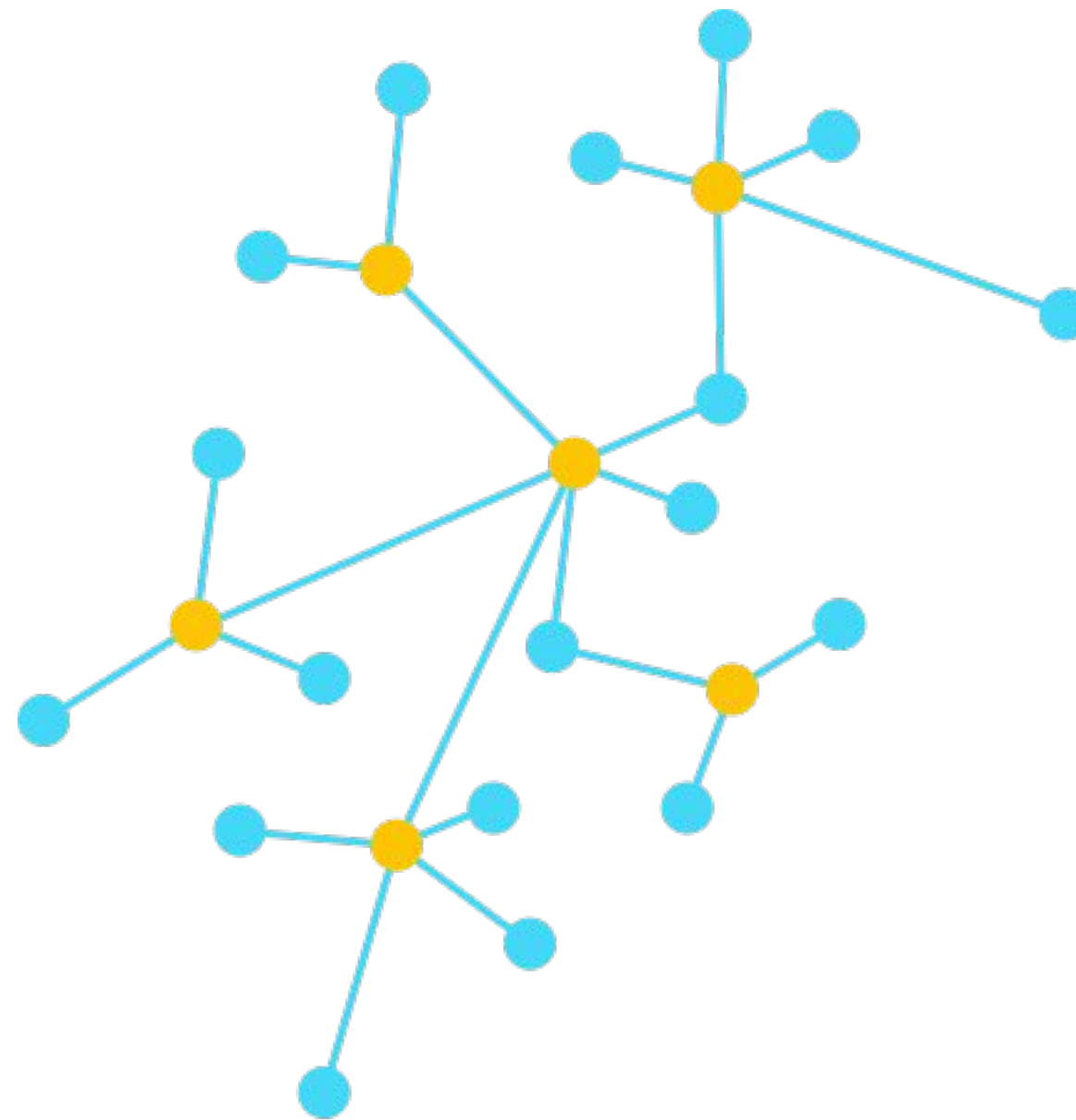


**But... how does all of
this work?**

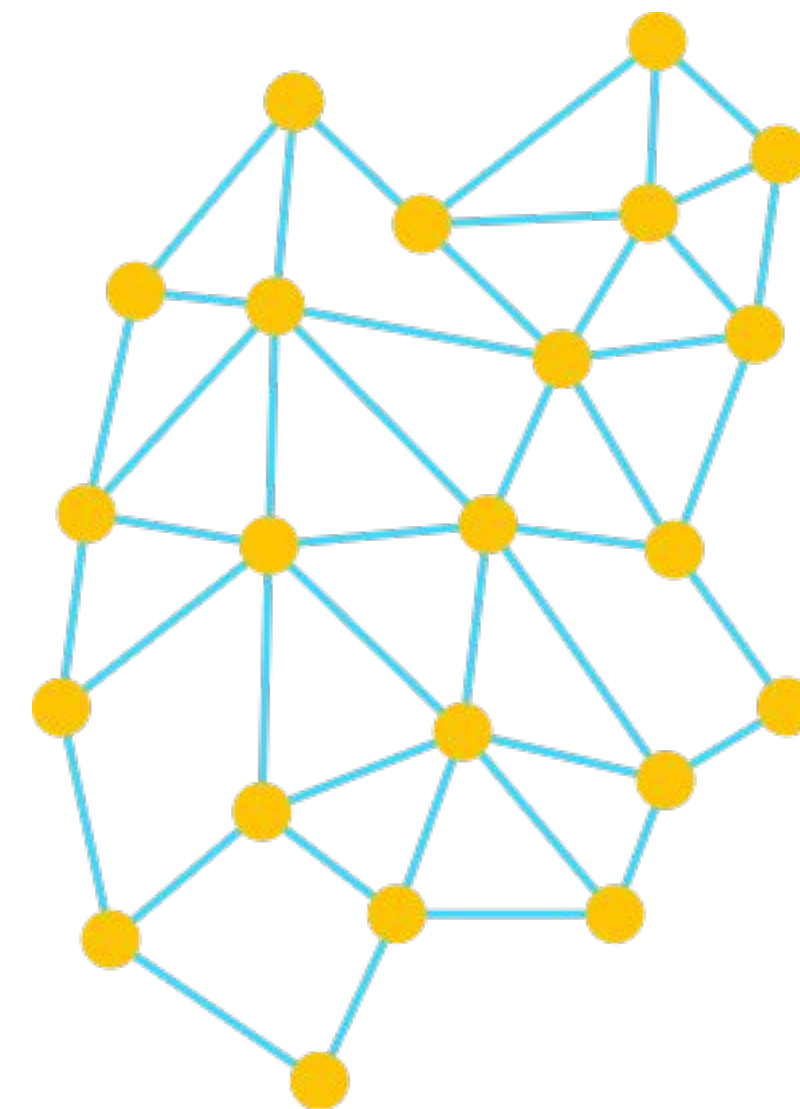
IPFS is... distributed!



CENTRALIZED

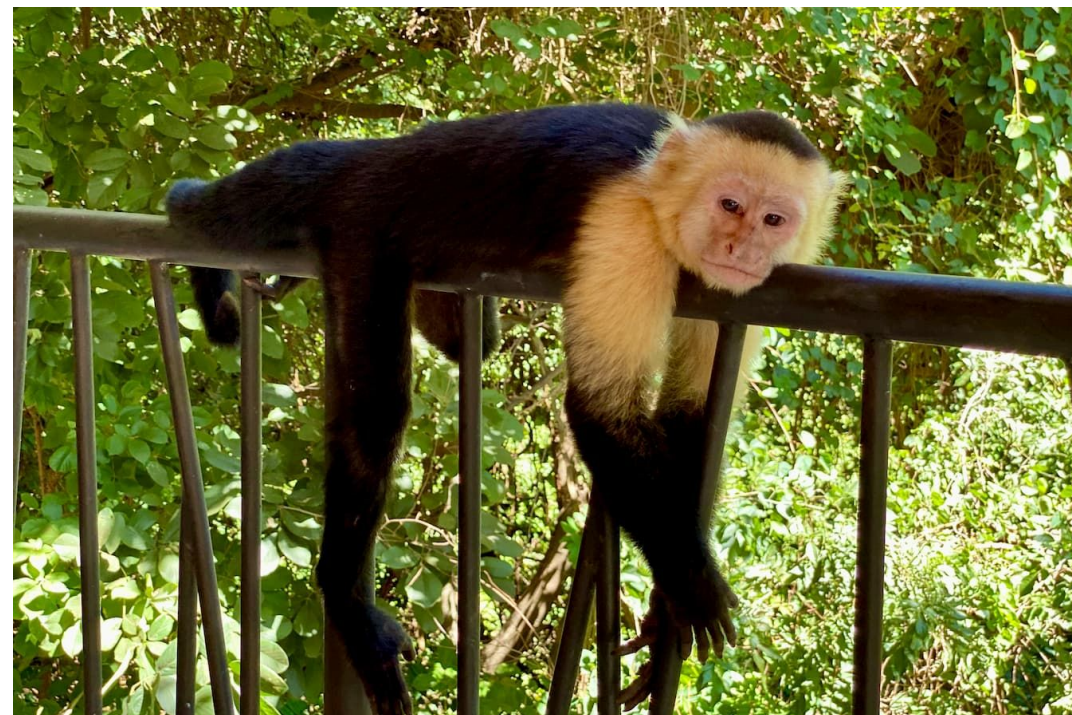


DECENTRALIZED



DISTRIBUTED

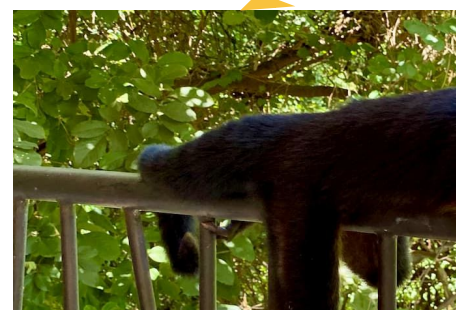
IPFS is... content-addressed!



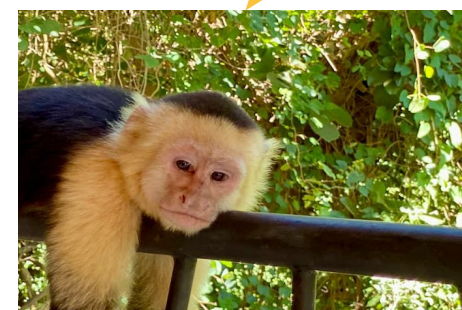
**QmVMwssTZyMHr2ZH
RbLwsC5rbZ9P8VGa
Lz2cuJLHpM3D2M**

IPFS files are... chunked!

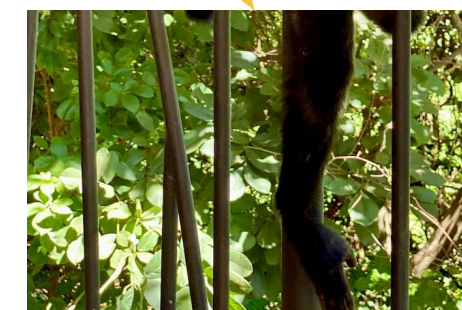
QmHash



Qm1 . . .



Qm2 . . .

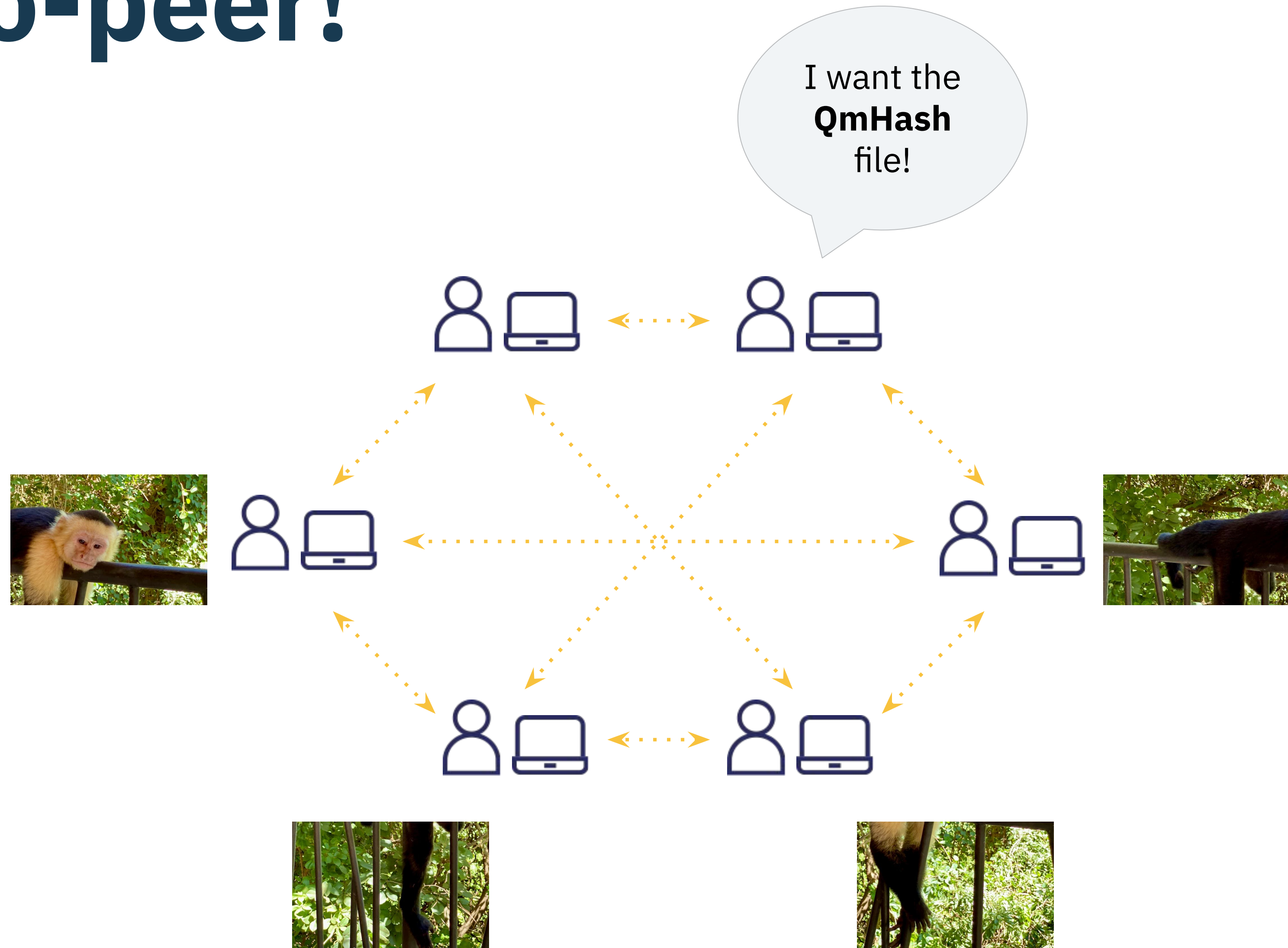


Qm3 . . .

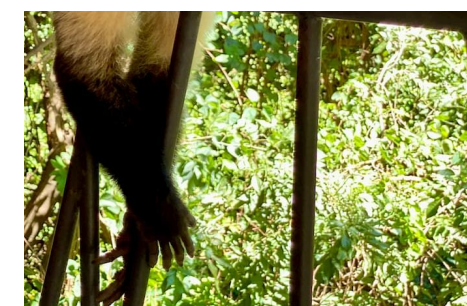
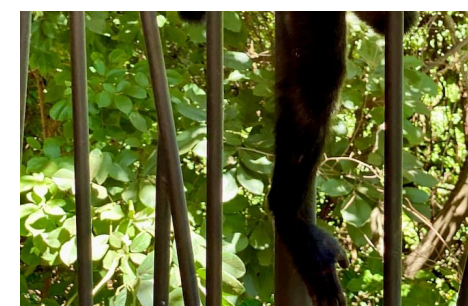
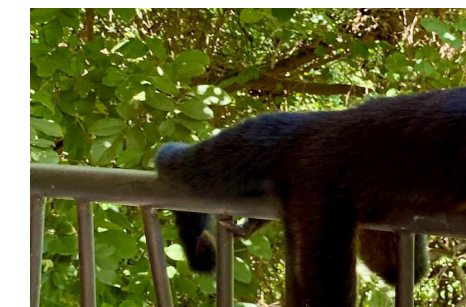
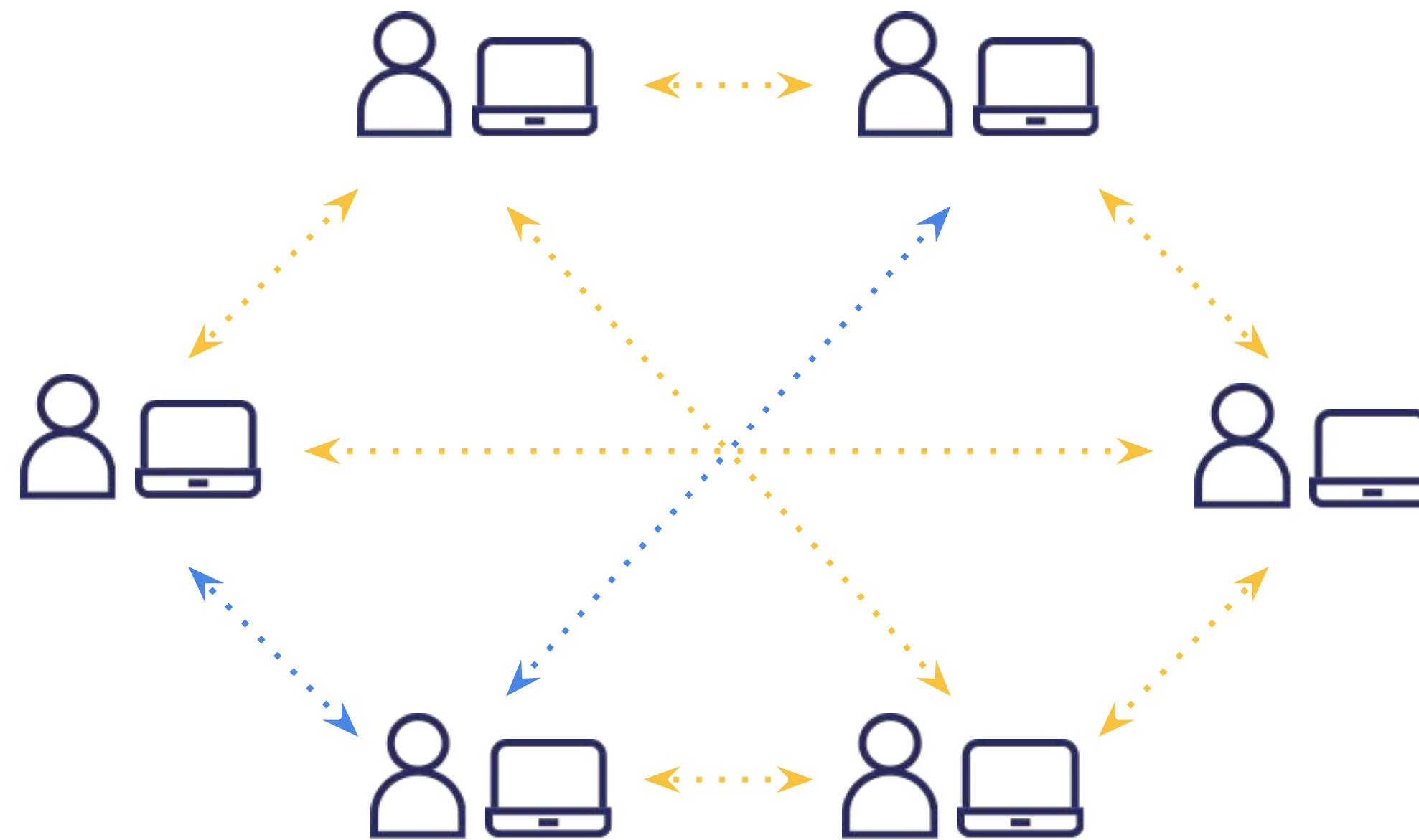
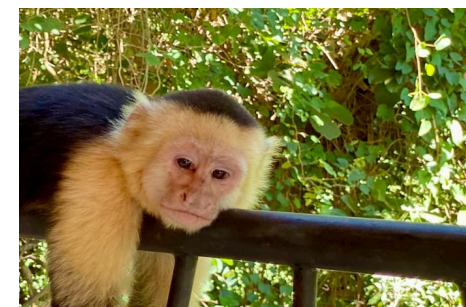


Qm4 . . .

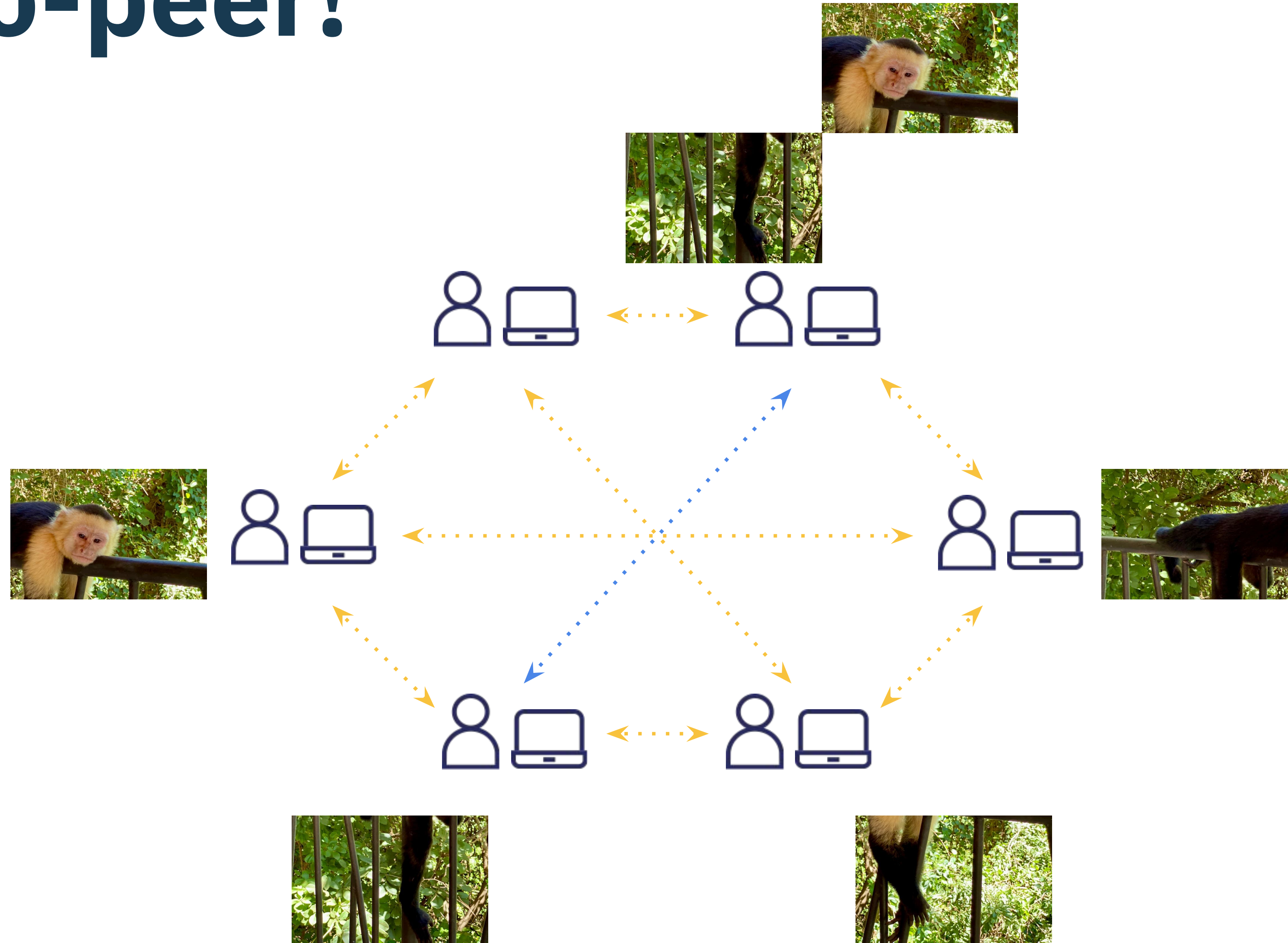
IPFS is... peer-to-peer!



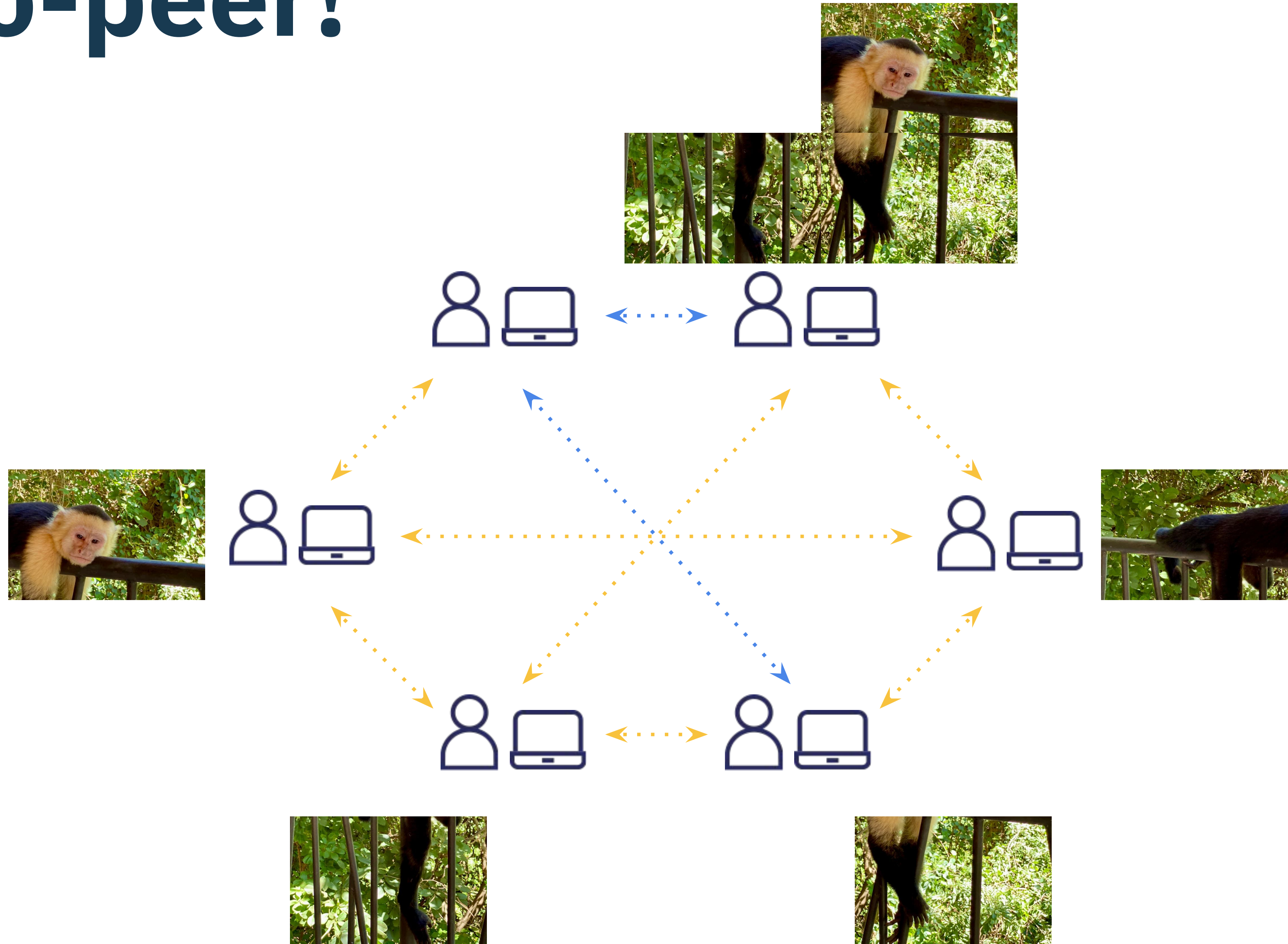
IPFS is... peer-to-peer!



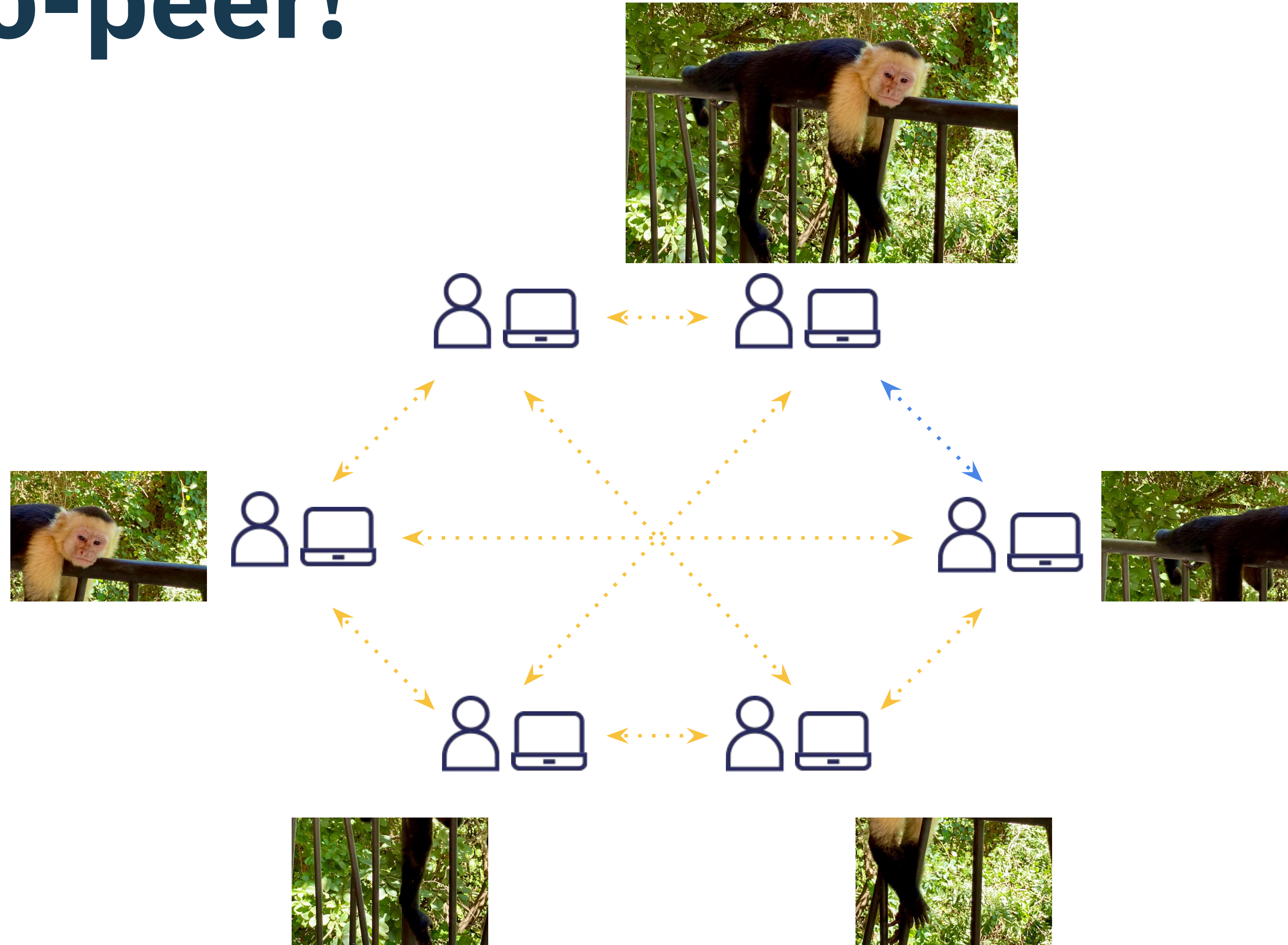
IPFS is... peer-to-peer!



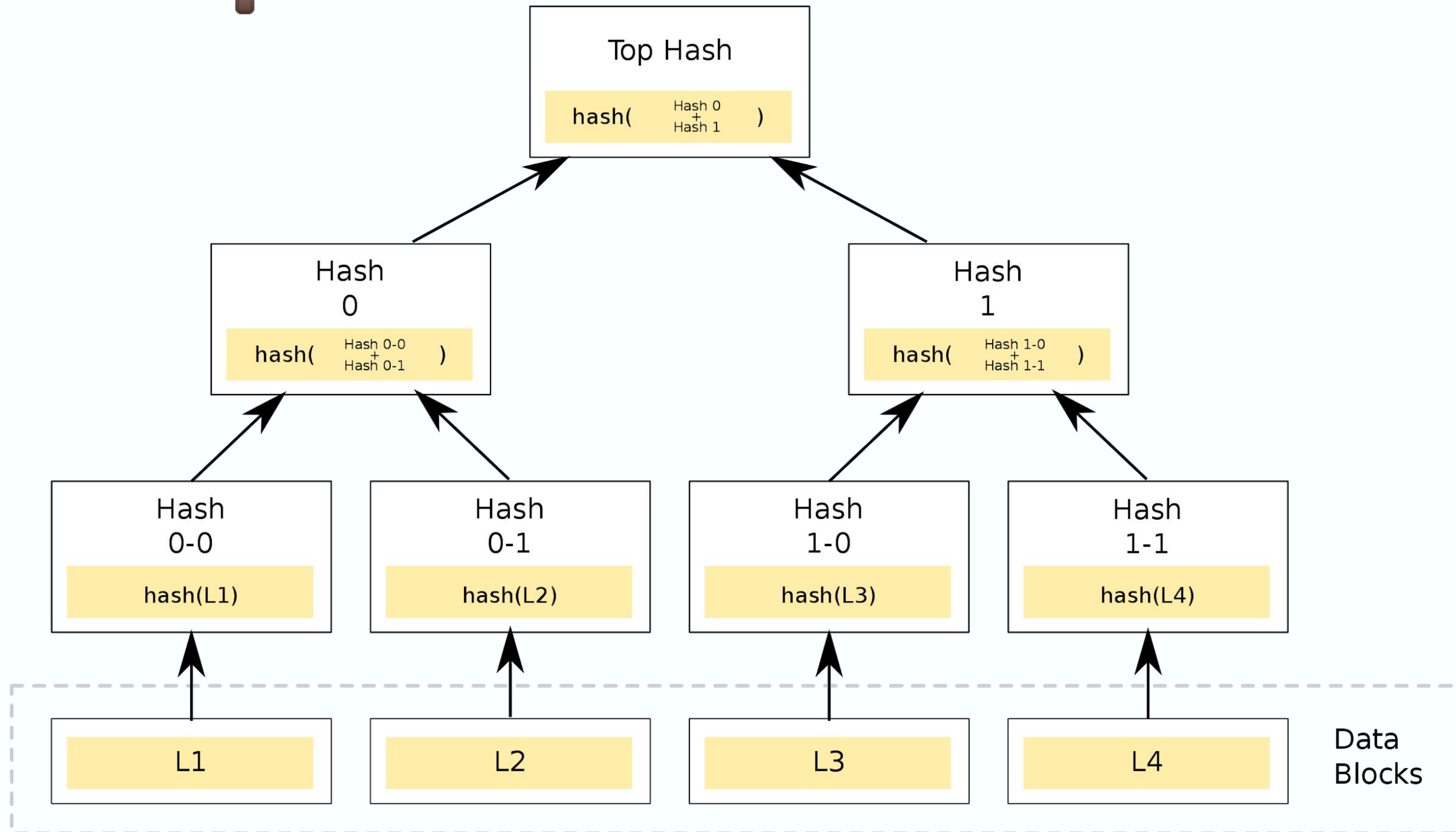
IPFS is... peer-to-peer!



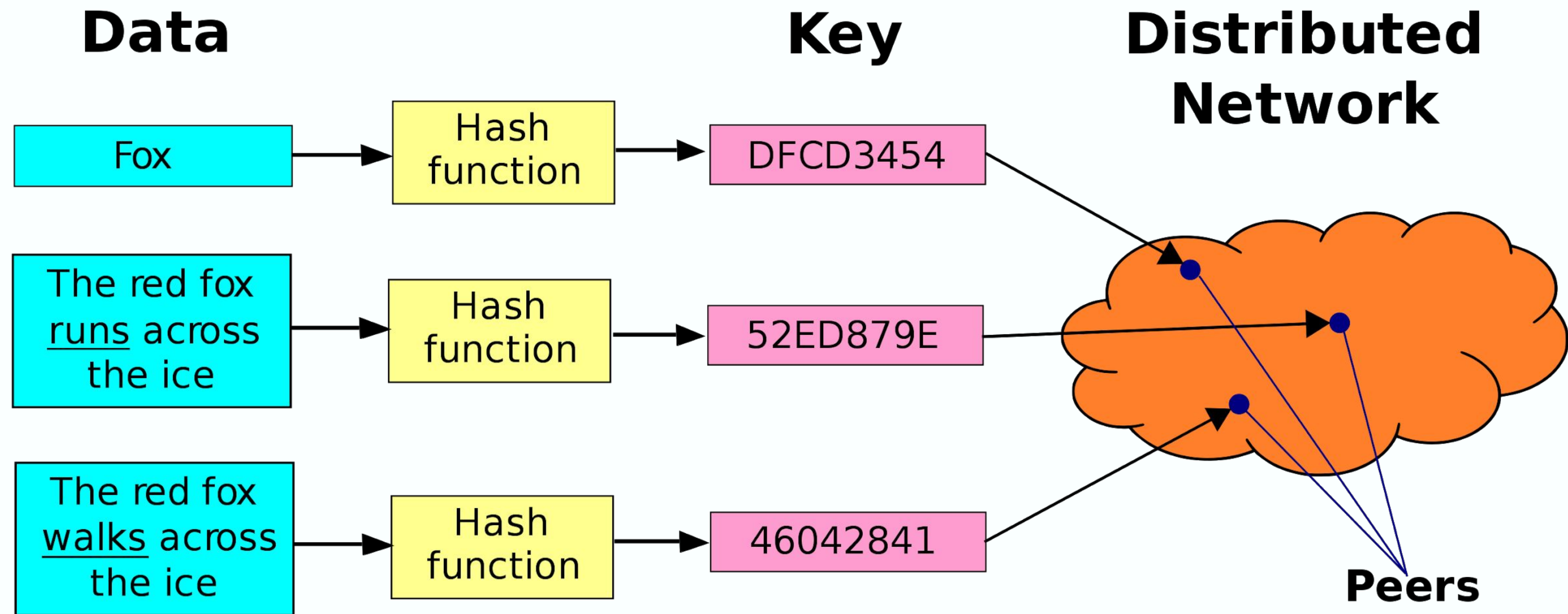
IPFS is... peer-to-peer!



IPFS is... a Merkle !

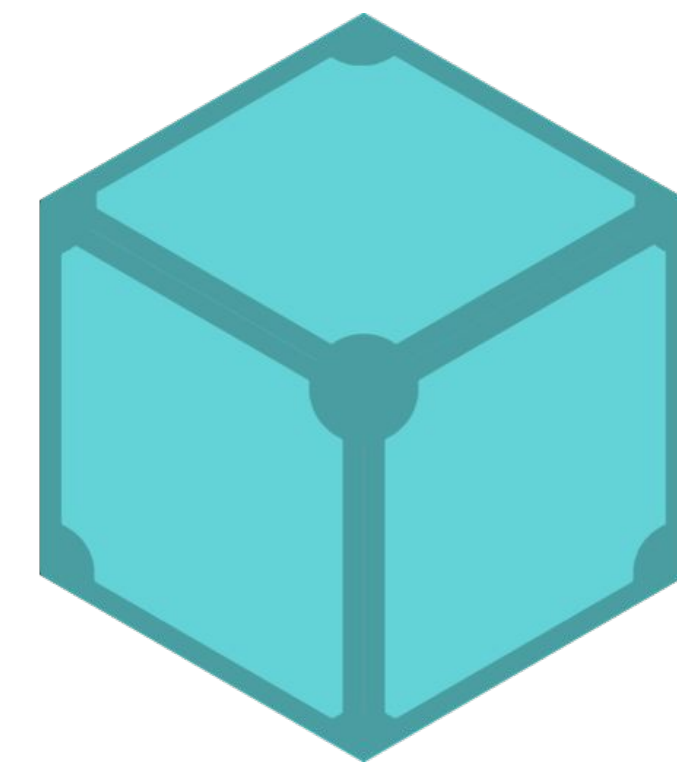


IPFS is... a DHT!



IPFS is...

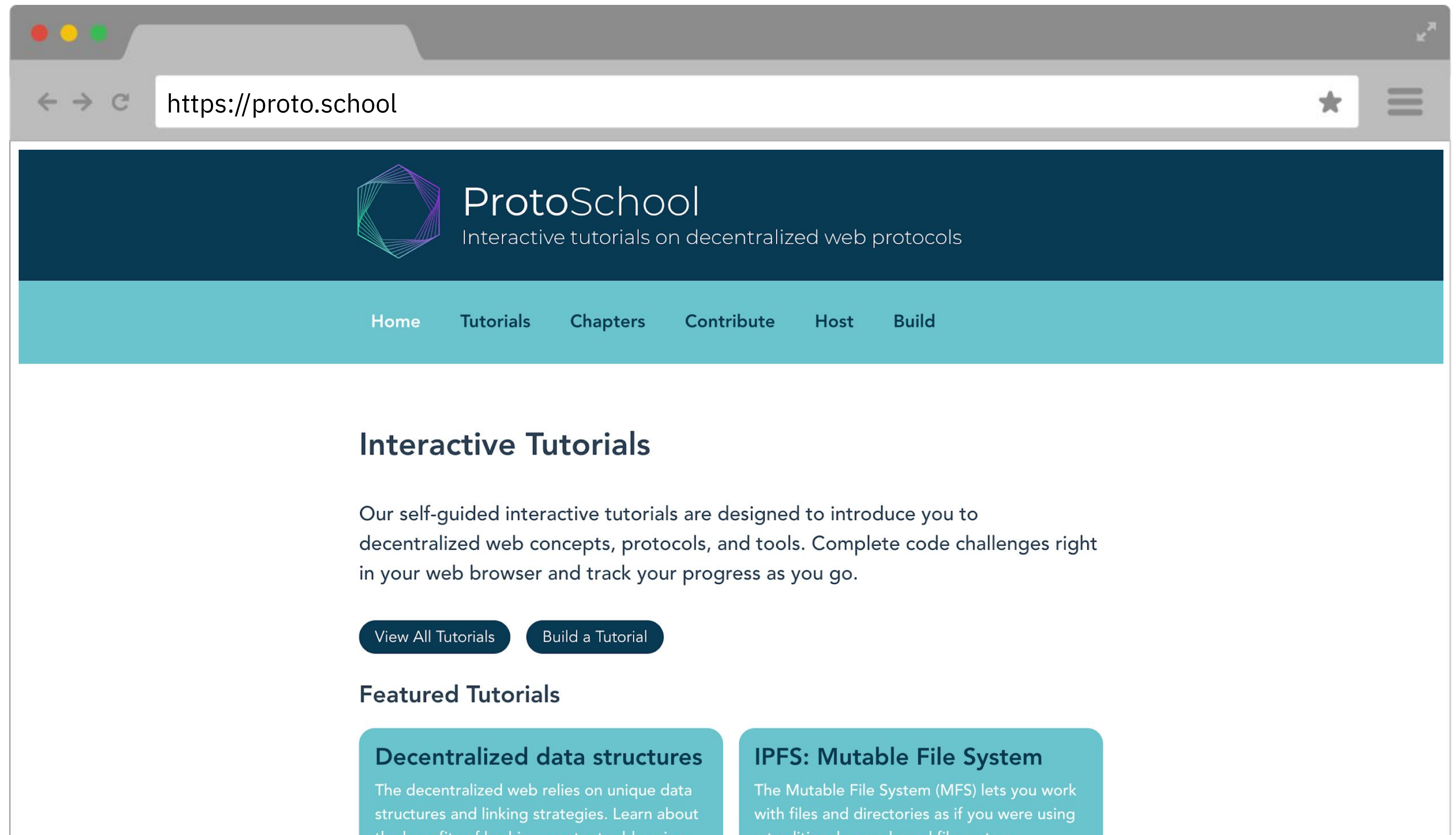
- **censorship proof**
- **permanent**
- **deduplication**
- **resilient**
- **offline**



IPFS

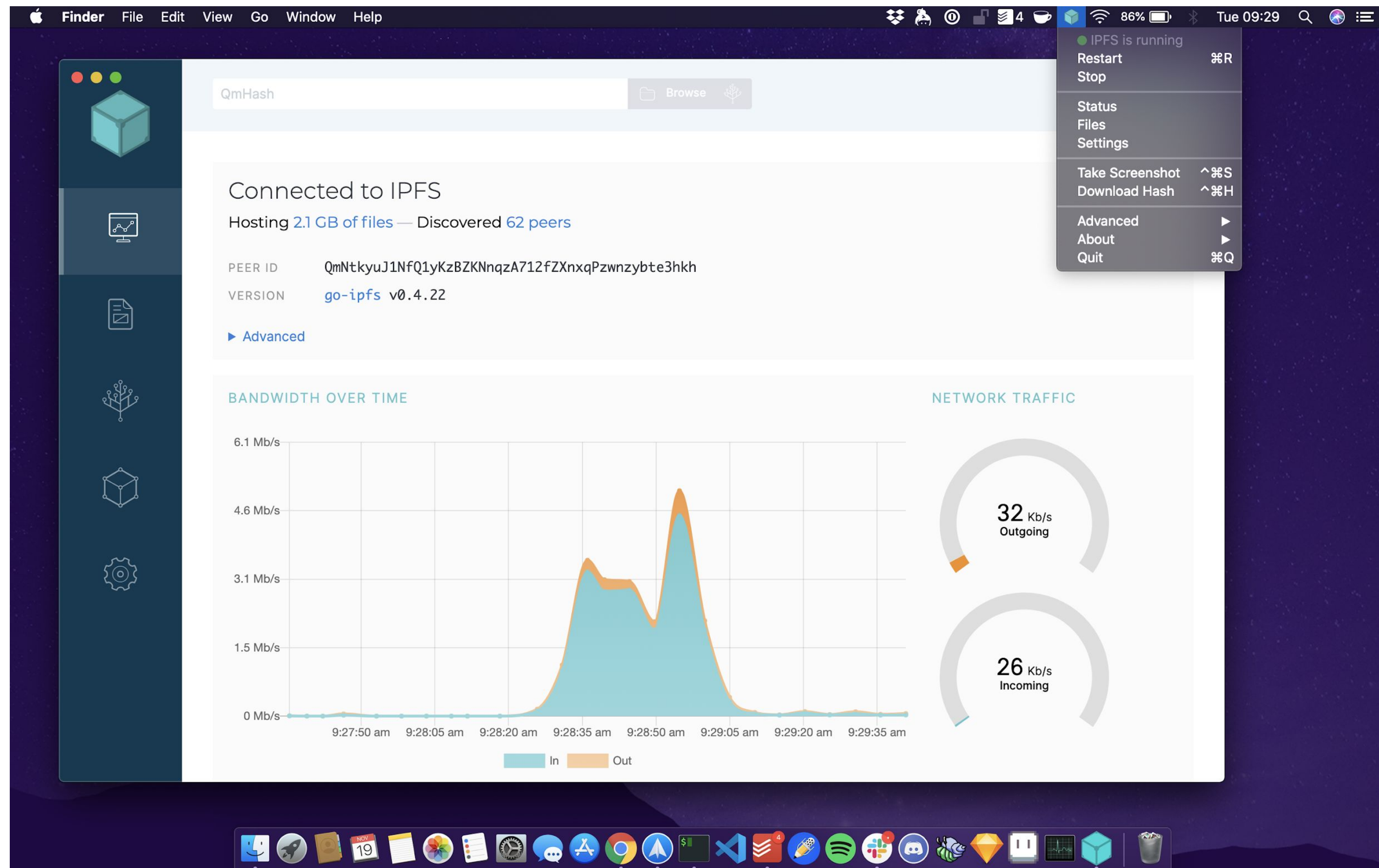
Wanna learn more? ProtoSchool for the rescue!

*There are tutorials on
multiple topics and more
coming soon!*



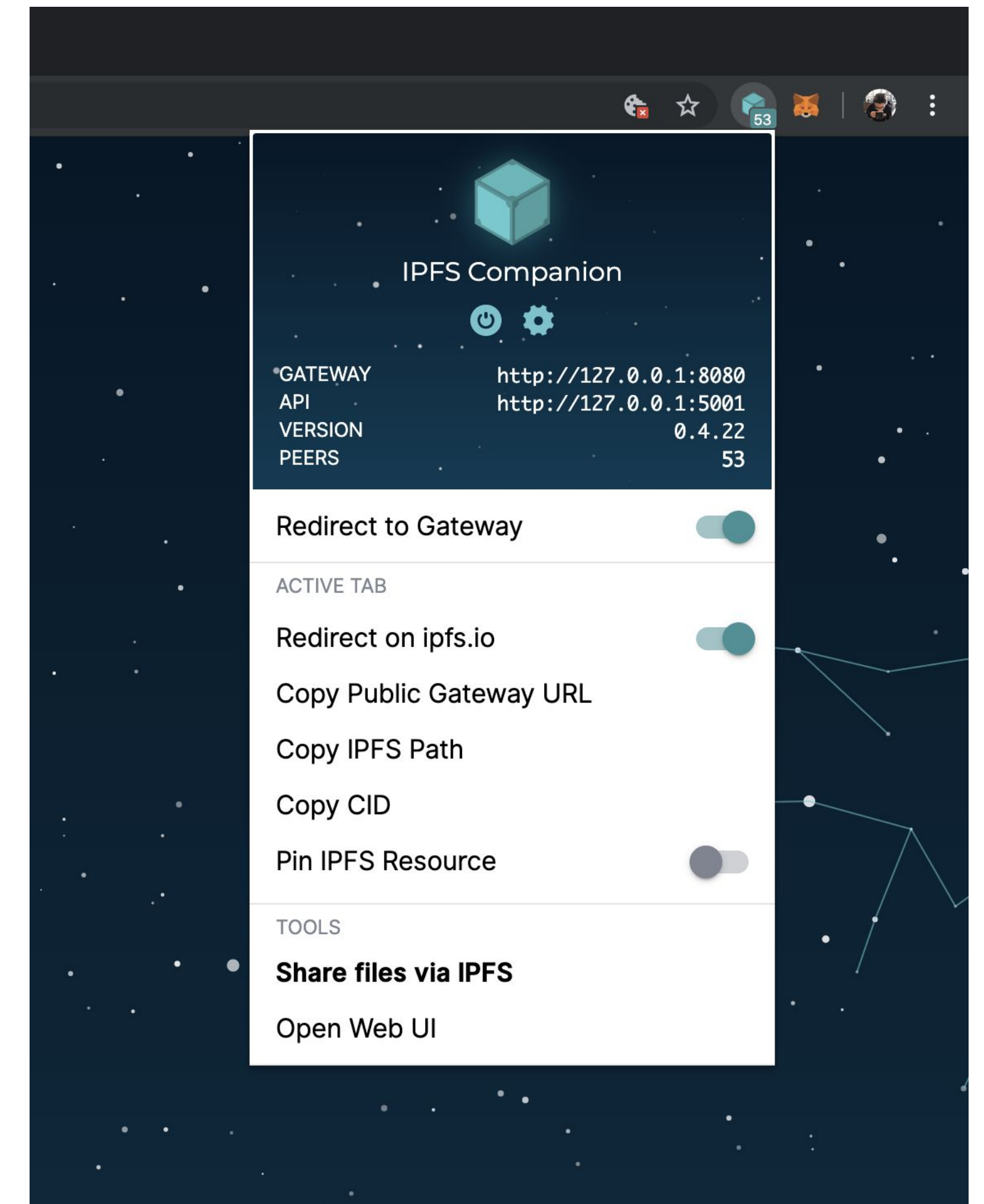
**Enter the InterPlanetary
universe today!**

Our Apps



IPFS Desktop

github.com/ipfs-shipyard/ipfs-desktop#install



IPFS Companion

github.com/ipfs-shipyard/ipfs-companion#install

THAT'S ALL FOLKS!

A QUICK DIVE INTO THE DWEB WITH IPFS



Henrique Dias (hacdias.com)

IPFS