

Standardizing Network Freedom

Christopher Lemmer Webber

<https://dustycloud.org/>

Fediverse: <https://octodon.social/@cwebber>

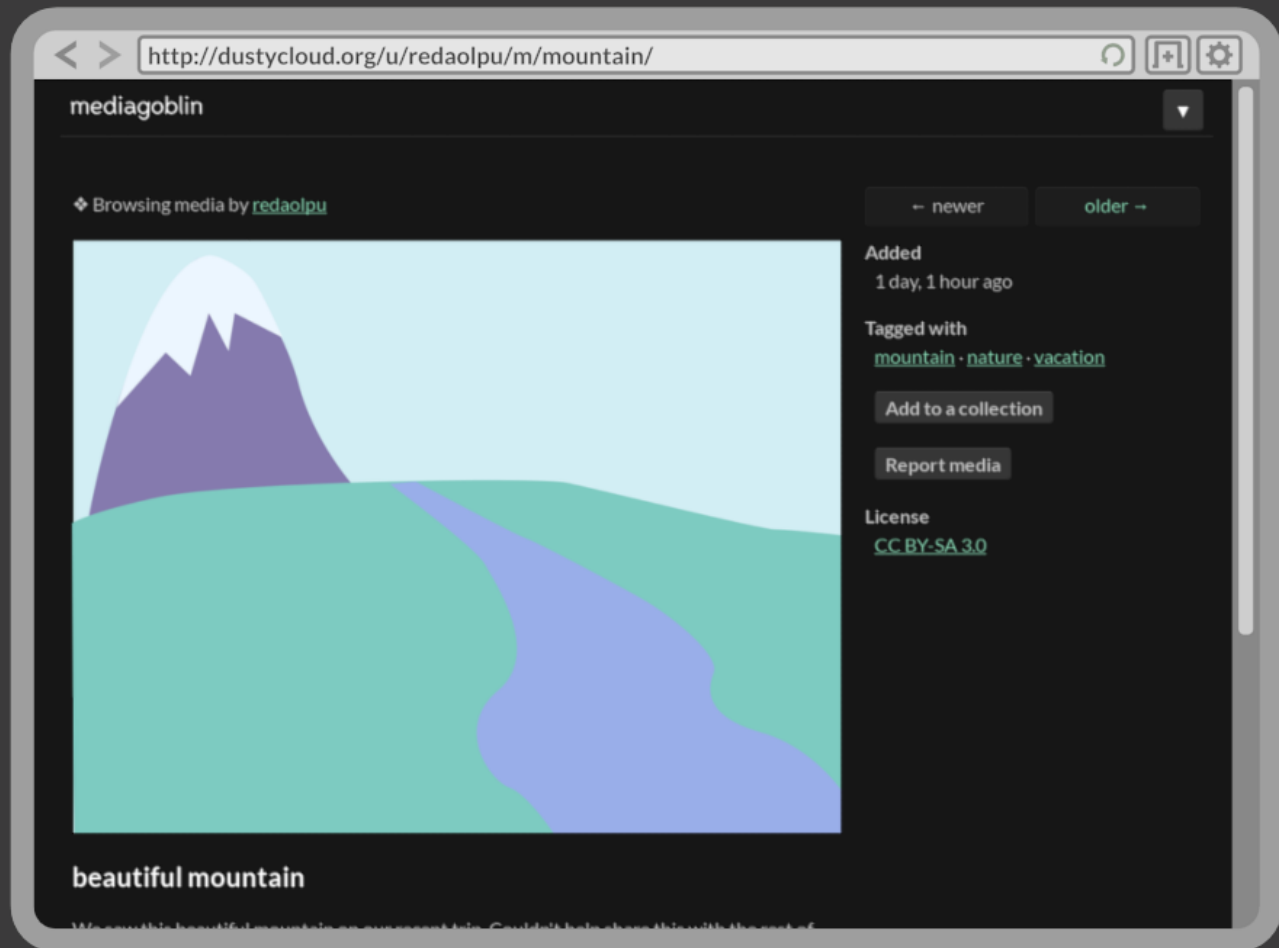
Birdsite: <https://twitter.com/dustyweb>

Three years ago...

* REWIND REWIND REWIND *

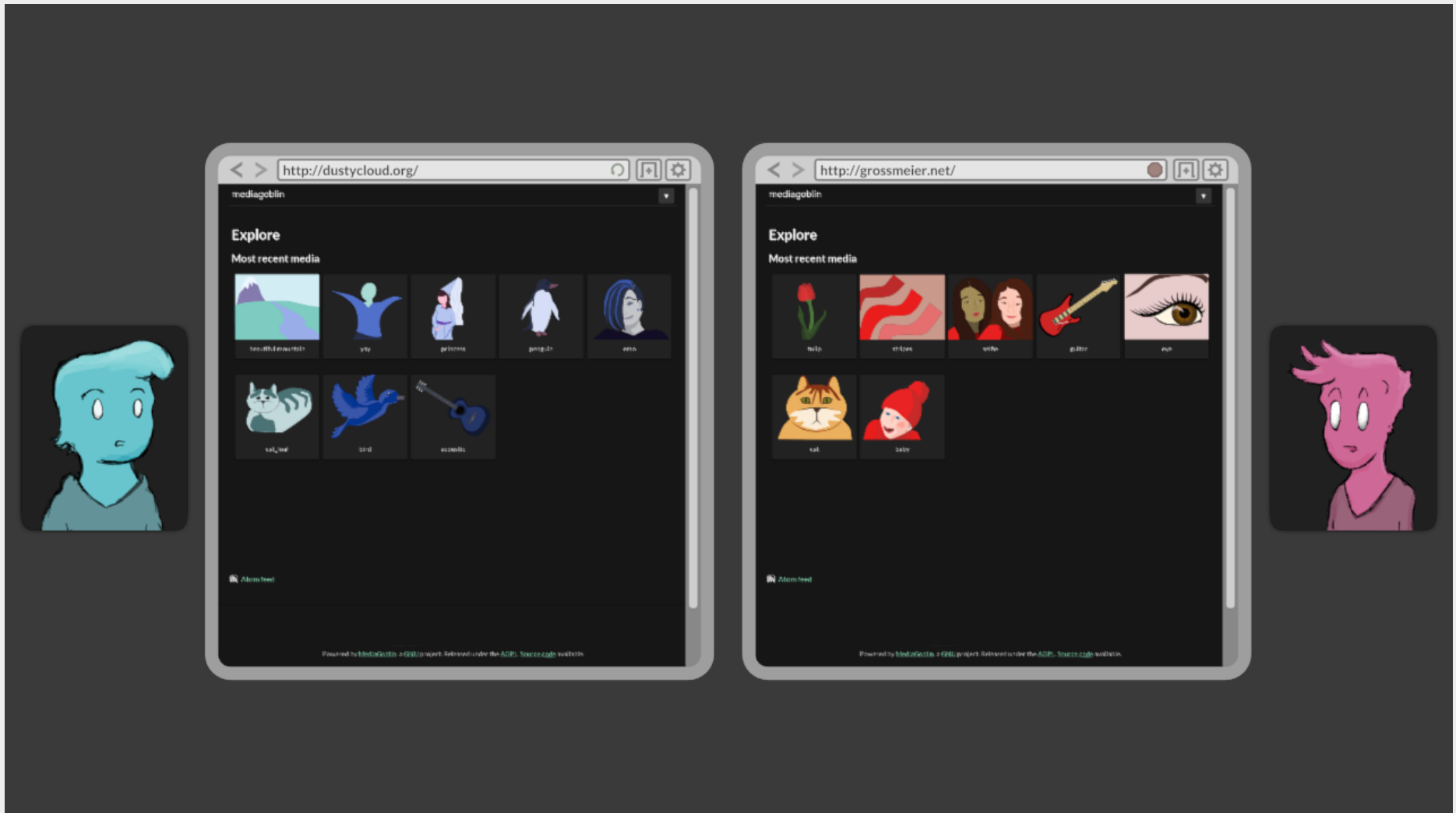
Three years ago...

Decentralization comes with a challenge...



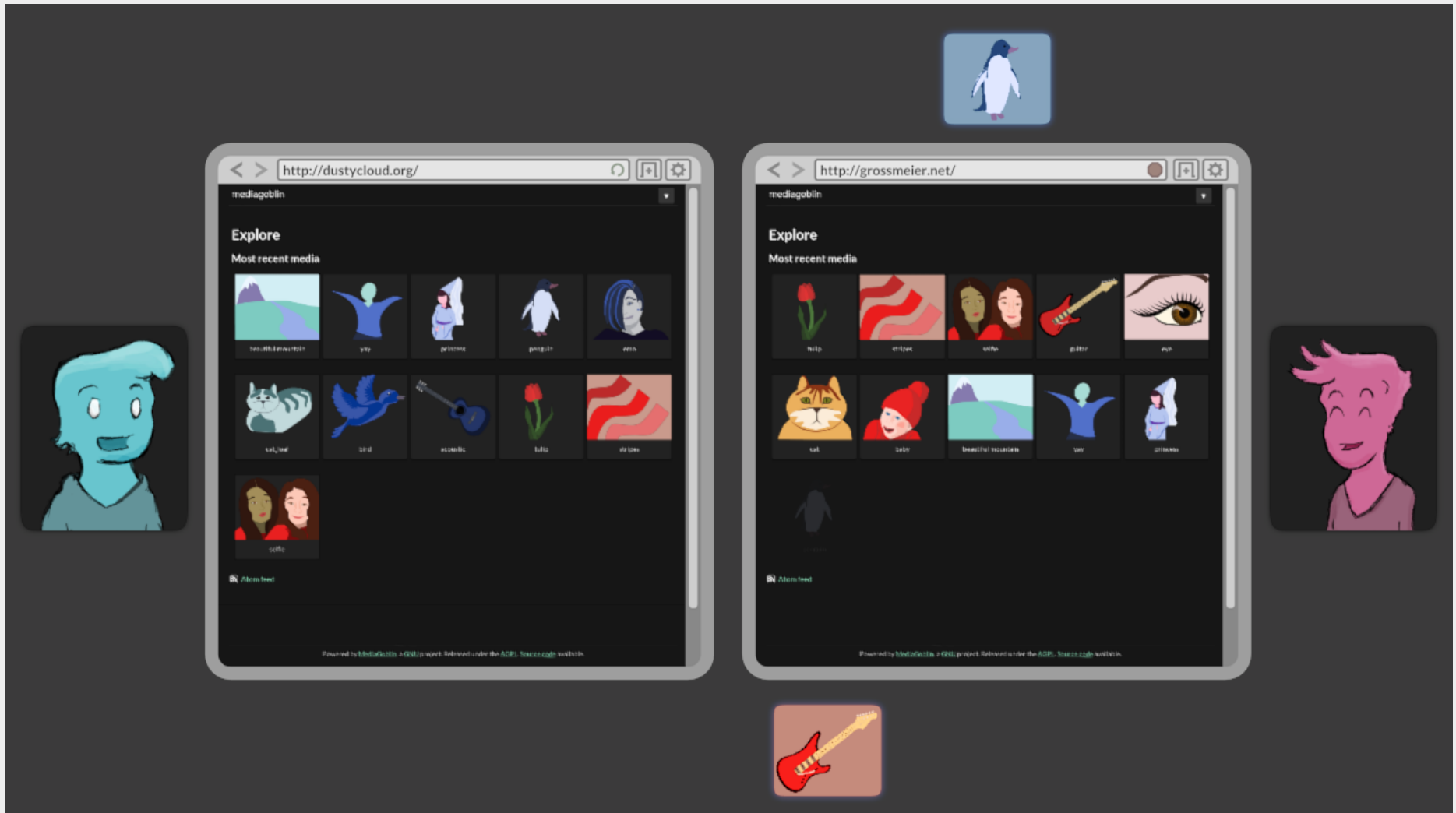
Three years ago...

How to share with friends on other servers?



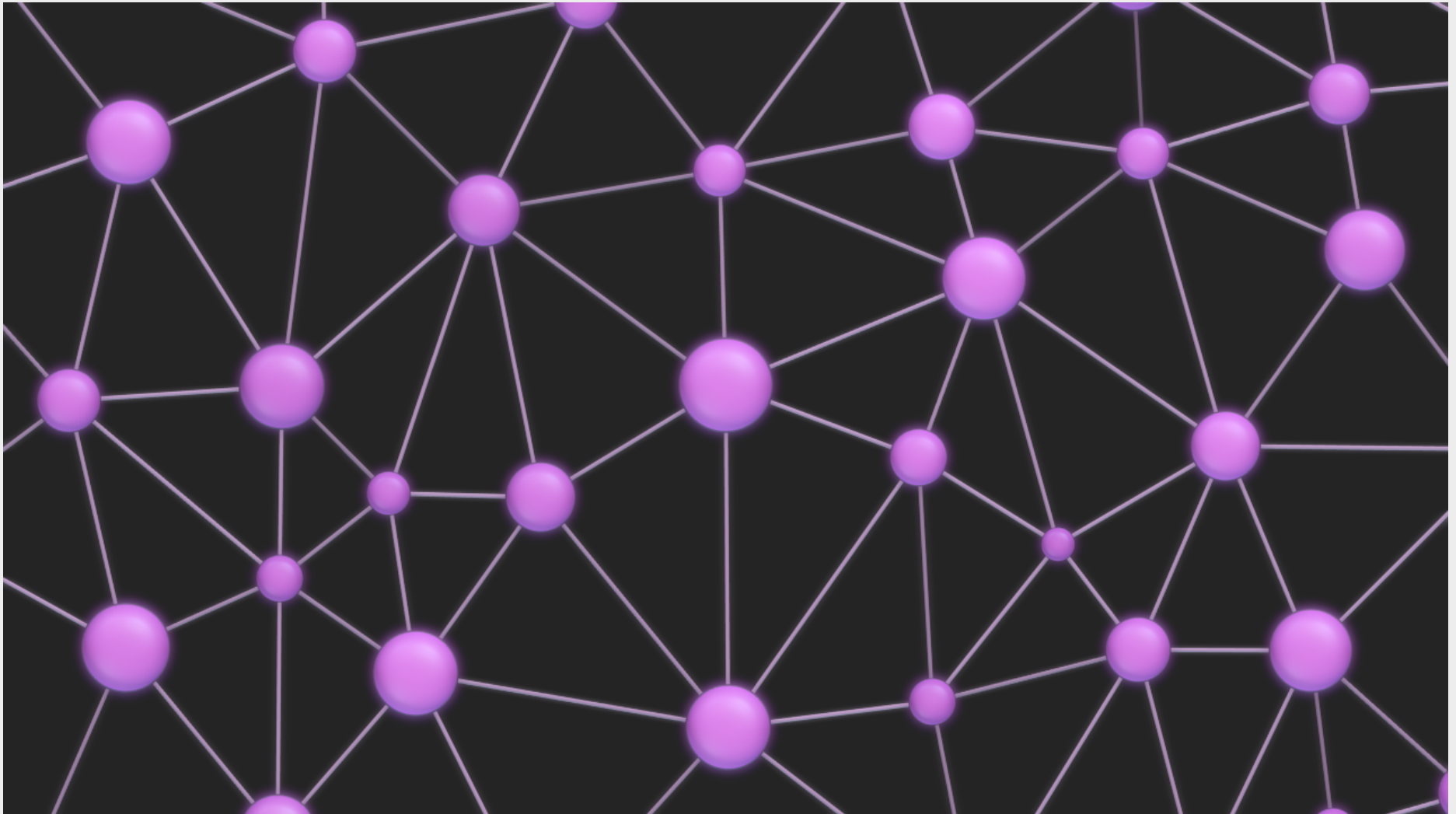
Three years ago...

Federate it!



Three years ago...

What is federation?



Three years ago...

A fractured federation

We now have a smattering of incompatible protocols:

- OStatus
- Zot
- XMPP
- Pump
- Tent

Even GNU does not "agree"

Three years ago...

W3C Social Working Group!

W3C[®]

Page [Discussion](#) Read [View source](#) [View history](#) Search

Socialwg

Welcome to the **Social Web Working Group** (SocialWG) home page!

Social Web Working Group

Home Page
<http://w3.org/Social/WG>

Charter
<http://w3.org/2013/socialweb/social-wg-charter.html>

Announcement
w3.org/blog/news/archives/3958

Chairs
Tantek Çelik (Mozilla)
Arnaud Le Hors (IBM)
Evan Prodromou (e14N)


Staff Contact
Harry Halpin (W3C/MIT)

Participation

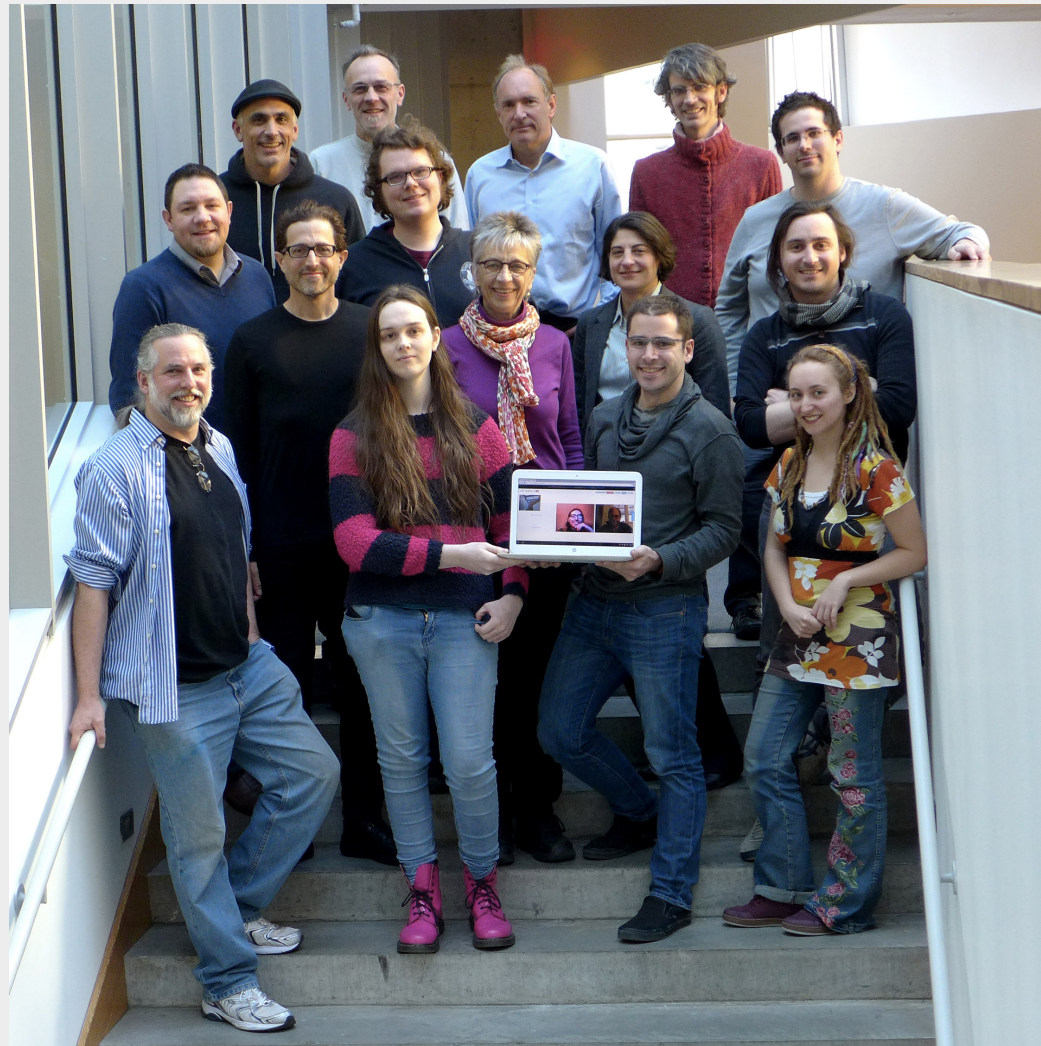
Members

- [list of current participants](#) (or with contact info)
- [socialwg/invited-experts](#)

How to participate



Let's make this official, yo



Chris and Jessica: "We'll just show up an hour a week to make sure things are on track..."

* *FAST FORWARD...* *

* *FAST FORWARD...* *

- Chris and Jessica become ActivityPub co-editors...

* *FAST FORWARD...* *

- Chris and Jessica become ActivityPub co-editors...
- Meetings meetings meetings...

** FAST FORWARD... **

- Chris and Jessica become ActivityPub co-editors...
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- Implementor feedback..

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- Test suite and implementation reports...

** FAST FORWARD... **

- Chris and Jessica become ActivityPub co-editors...
- Meetings meetings meetings...
- Implementor feedback..
- Lots of issues closed...
- Test suite and implementation reports...
- First Public Working Draft, Working Draft, Candidate Recommendation...

* FAST FORWARD THREE YEARS *



Views: [desktop](#) [mobile](#) [print](#)

[STANDARDS](#)

[PARTICIPATE](#)

[MEMBERSHIP](#)

[ABOUT W3C](#)

MAIL, NEWS, BLOGS,
PODCASTS, AND TUTORIALS



[News](#)

[Weekly Newsletter](#)

[W3C Blogs](#)

[Mailing Lists](#)

[Podcasts and Video](#)

[Tutorials and Courses](#)

[Team Submissions](#)

[W3C](#) » [Participate](#) » [Mail, News, Blogs, Podcasts, and...](#) » [W3C News](#)

ACTIVITYPUB IS NOW A W3C RECOMMENDATION

23 January 2018

The [Social Web Working Group](#) has published [ActivityPub](#) as a W3C Recommendation.

ActivityPub is a decentralized social networking protocol based upon the [ActivityStreams](#) 2.0 data format. It provides a client to server API for creating, updating and deleting content, as well as a federated server to server API for delivering notifications and content.

ActivityPub is already [implemented and deployed](#) to a number of projects and a wide userbase, including over [1 million registered users](#) across thousands of Mastodon instances. ActivityPub allows software projects both small and large to build social network offerings into their systems. Adding ActivityPub support allows interoperable social networking between applications with entirely different codebases. For example, [Mastodon](#) and [PeerTube](#) users are able to use ActivityPub to [allow users to share videos and comment](#) across different servers.

Whoohoo!

(it was a lot more than an hour a week...)

What is ActivityPub anyway?



ActivityPub

What is ActivityPub anyway?



- Server-to-Server protocol (federation!)

What is ActivityPub anyway?



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- Client-to-Server protocol (mobile, desktop, web clients)

What is ActivityPub anyway?



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- Client-to-Server protocol (mobile, desktop, web clients)
- Choose one, or choose both! Once you have one, the other is easy.

What is ActivityPub anyway?



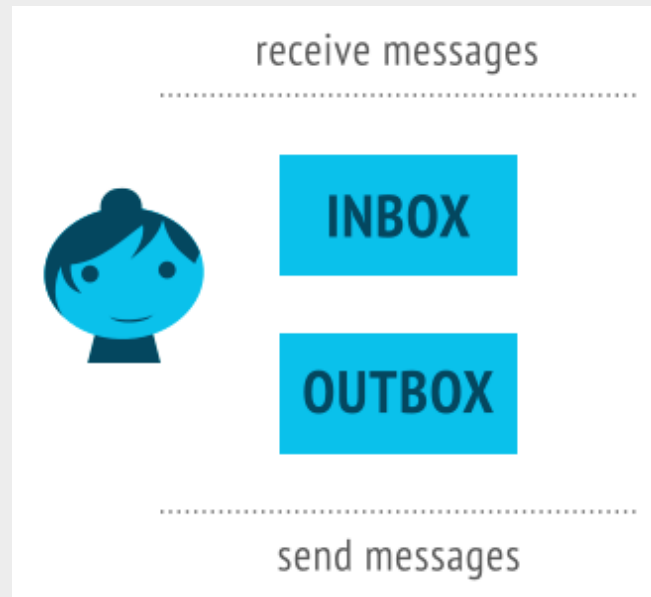
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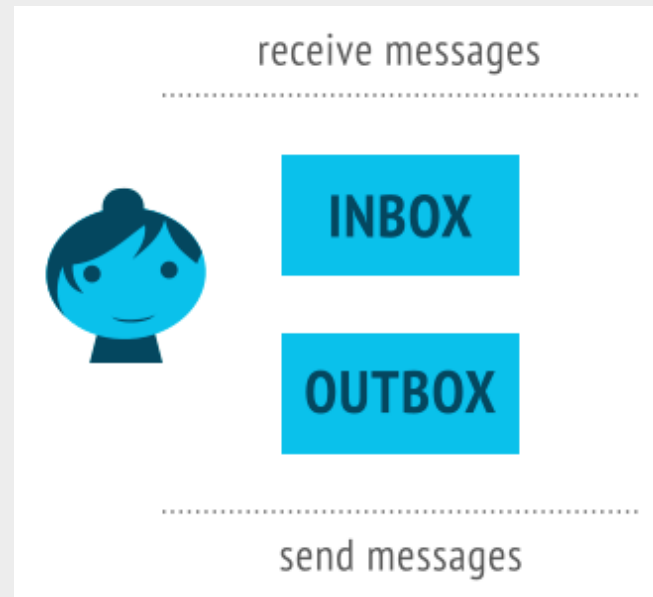


- Server-to-Server protocol (federation!)
- Client-to-Server protocol (mobile, desktop, web clients)
- Choose one, or choose both! Once you have one, the other is easy.
- Uses ActivityStreams as its vocabulary
- Uses JSON-LD as its serialization

This is Alyssa, an actor!

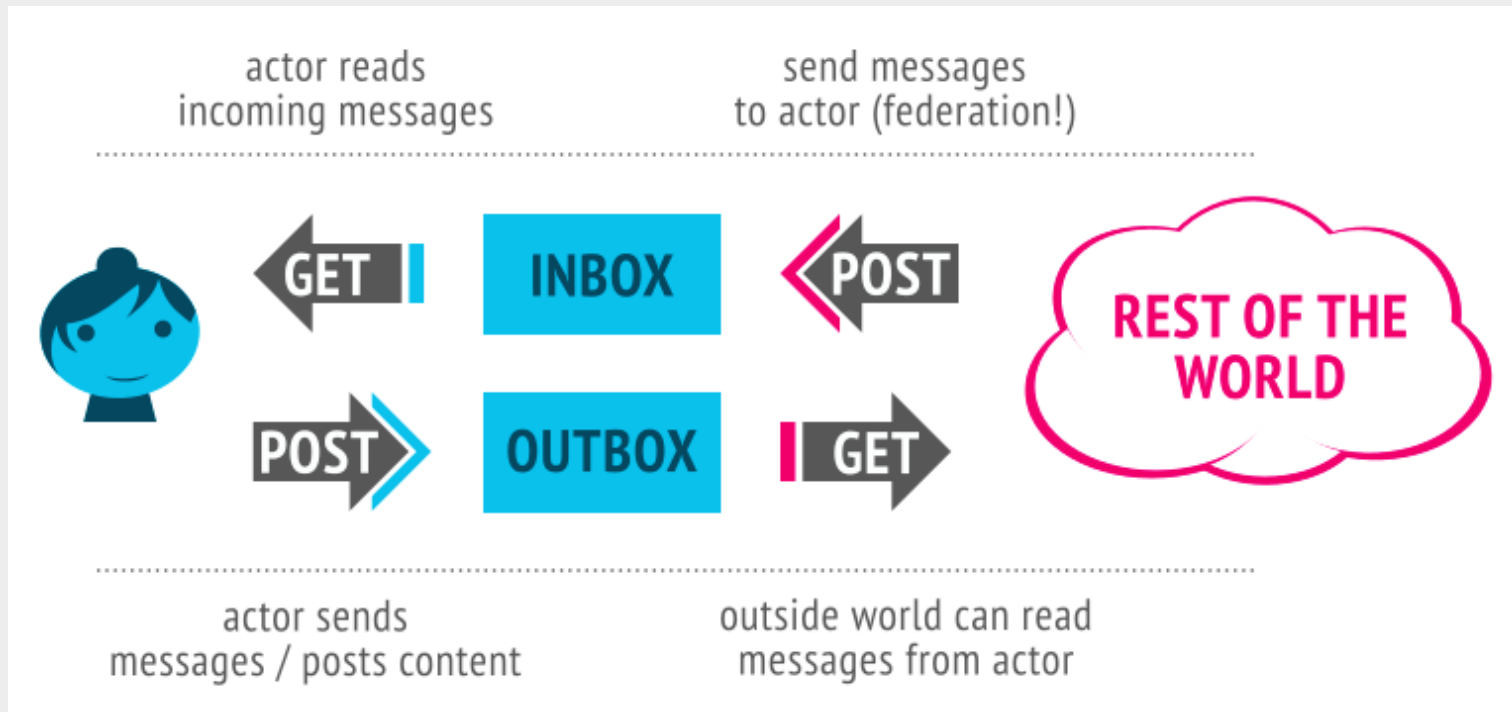


This is Alyssa, an actor!



```
{"@context": "https://www.w3.org/ns/activitystreams",  
 "type": "Person",  
 "id": "https://social.example/alyssa/",  
 "name": "Alyssa P. Hacker",  
 "preferredUsername": "alyssa",  
 "summary": "Lisp enthusiast hailing from MIT",  
 "inbox": "https://social.example/alyssa/inbox/",  
 "outbox": "https://social.example/alyssa/outbox/",  
 "followers": "https://social.example/alyssa/followers/",  
 "following": "https://social.example/alyssa/following/",  
 "liked": "https://social.example/alyssa/liked/"}
```

An overview of ActivityPub



Alyssa's client =POST=> Alyssa's outbox



Alyssa's client =POST=> Alyssa's outbox



```
{"@context": "https://www.w3.org/ns/activitystreams",  
  "type": "Note",  
  "to": ["https://chatty.example/ben/"],  
  "attributedTo": "https://social.example/alyssa/",  
  "content": "Say, did you finish reading that book I lent you?"}
```

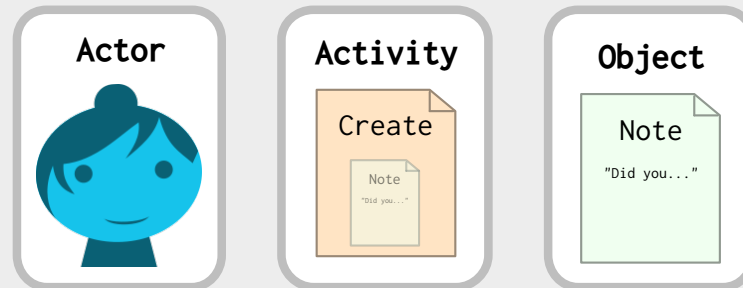

Server wraps it in a Create...

```
{"@context": "https://www.w3.org/ns/activitystreams",
  "type": "Create",
  "id": "https://social.example/alyssa/posts/a29a6843",
  "to": ["https://chatty.example/ben/"],
  "actor": "https://social.example/alyssa/",
  "object": {"type": "Note",
    "id": "https://social.example/alyssa/posts/49e2d03d",
    "attributedTo": "https://social.example/alyssa/",
    "to": ["https://chatty.example/ben/"],
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             "content": "Did you finish reading that book I lent you?"}}
```

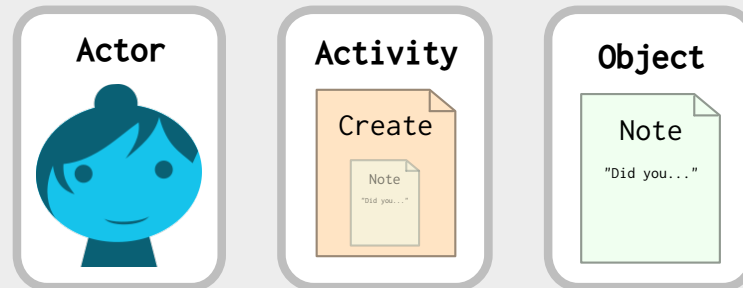
An actor always performs an activity on an object...



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  "type": "Create",  
  "id": "https://social.example/alyssa/posts/a29a6843",  
  "to": ["https://chatty.example/ben/"],  
  "actor": "https://social.example/alyssa/",  
  "object": {"type": "Note",  
             "id": "https://social.example/alyssa/posts/49e2d03d",  
             "attributedTo": "https://social.example/alyssa/",  
             "to": ["https://chatty.example/ben/"],  
             "content": "Did you finish reading that book I lent you?"}}
```

An actor always performs an activity on an object...



... with email-like addressing.



Federation: Alyssa's server POSTs to Ben's Inbox



Take note!

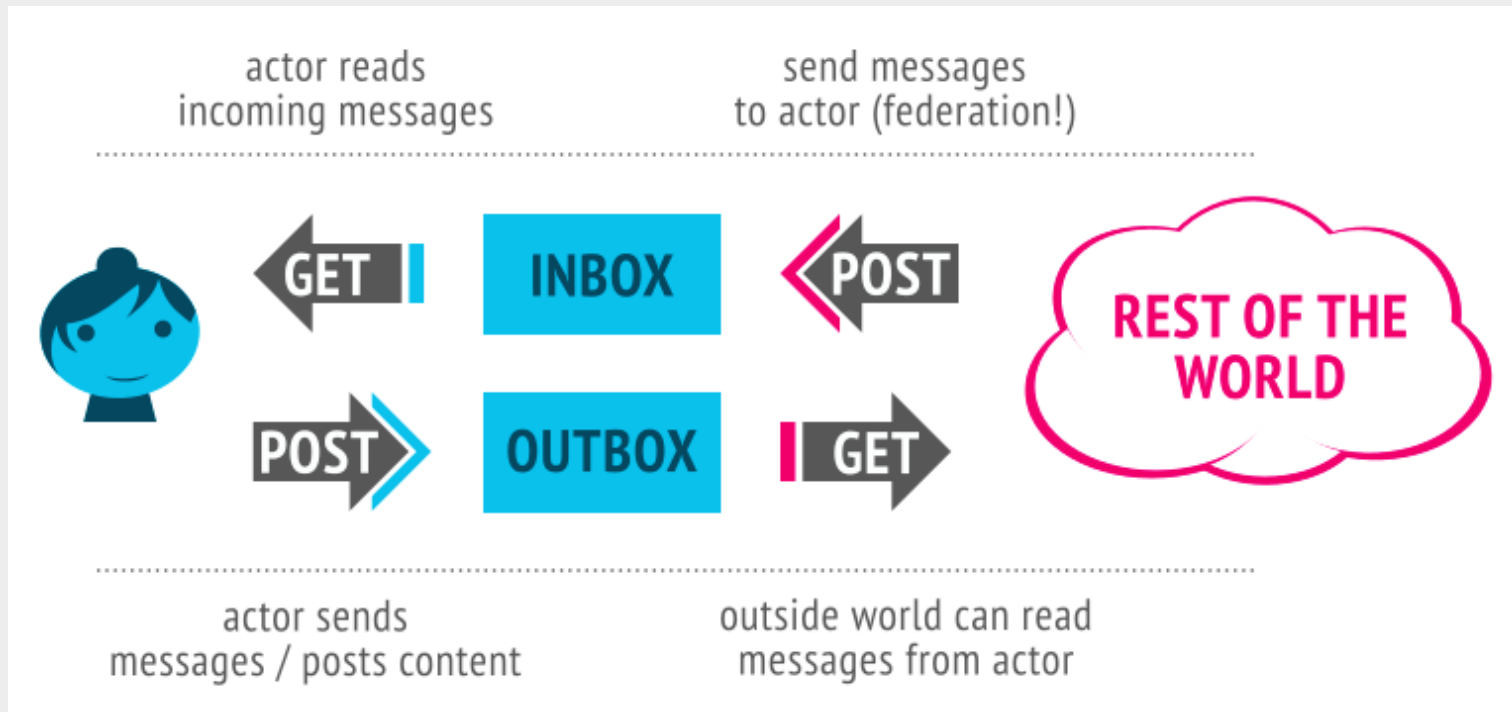
Federation **is** POSTing to an inbox!

A simplified view



And Ben can GET from his inbox to see recent posts!

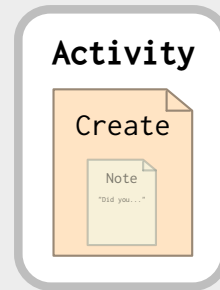
Let's see that again!



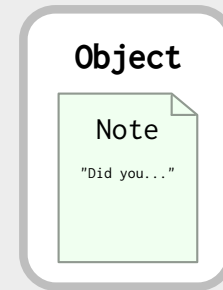
ActivityStreams is AP's social vocabulary



Application
Group
Organization
Person
Service



Accept	Like
Add	Listen
Announce	Move
Arrive	Offer
Block	Question
Create	Reject
Delete	Read
Dislike	Remove
Flag	TentativeReject
Follow	TentativeAccept
Ignore	Travel
Invite	Undo
Join	Update
Leave	View



Article
Audio
Document
Event
Image
Note
Page
Place
Profile
Relationship
Tombstone
Video

Extensible with JSON-LD, too!

Read the Overview section of the ActivityPub spec!

This stuff is easier than you think!

Mastodon picks up ActivityPub!



Over 1 million registered ActivityPub users through Mastodon alone!

And not just Mastodon...

ActivityPub implementors:

Aardwolf	PeerTube
Bridgy Fed	places.pub
distbin.com	Pubstrate
dokieli	Smilodon
Hubzilla	tags.pub
Kroeg	Pleroma
Mastodon	Rustodon
Nextcloud	

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Coming soon?

MediaGoblin Pump.io

Peertube and Mastodon interop demo!

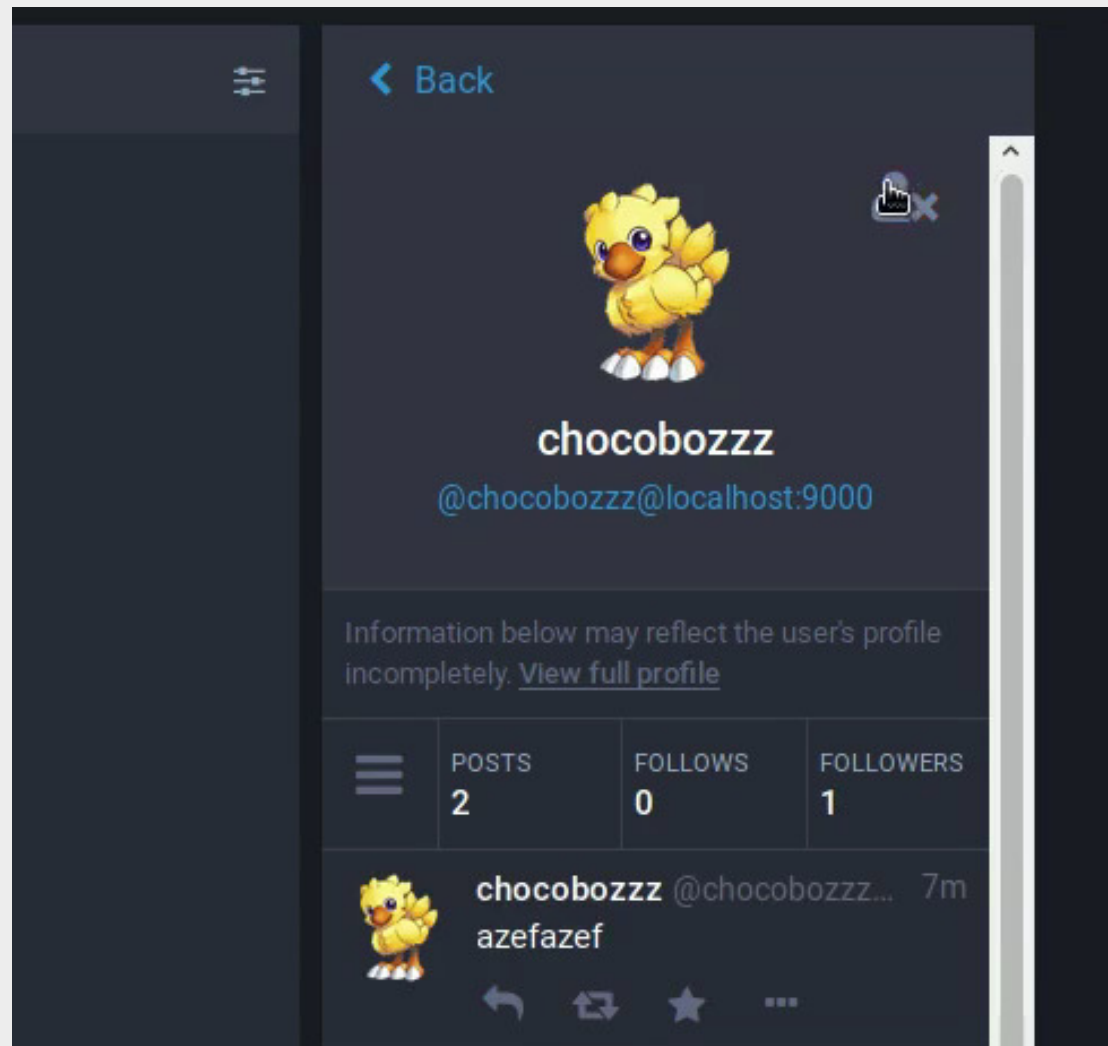
The screenshot shows a web browser with two tabs: 'Account settings - PeerTube' and 'Mastodon (Dev)'. The address bar displays 'localhost:3000/web/accounts/18'. The interface is dark-themed and divided into several sections:

- Left Panel:** Contains account settings for 'chocobozzz@localhost:9000'. It shows '1 result' for a search, displaying the user's profile card with a yellow chick avatar, the name 'chocobozzz', and the handle '@chocobozzz@localho...'. Below this is a search bar.
- Home Panel:** Labeled 'Home', it is currently empty.
- Notifications Panel:** Labeled 'Notifications', it is currently empty.
- Profile Panel (Right):** Shows the profile for 'chocobozzz' (@chocobozzz@localhost:9000) with a yellow chick avatar. Below the profile name is a warning: 'Information below may reflect the user's profile incompletely. [View full profile](#)'. A statistics table is displayed:

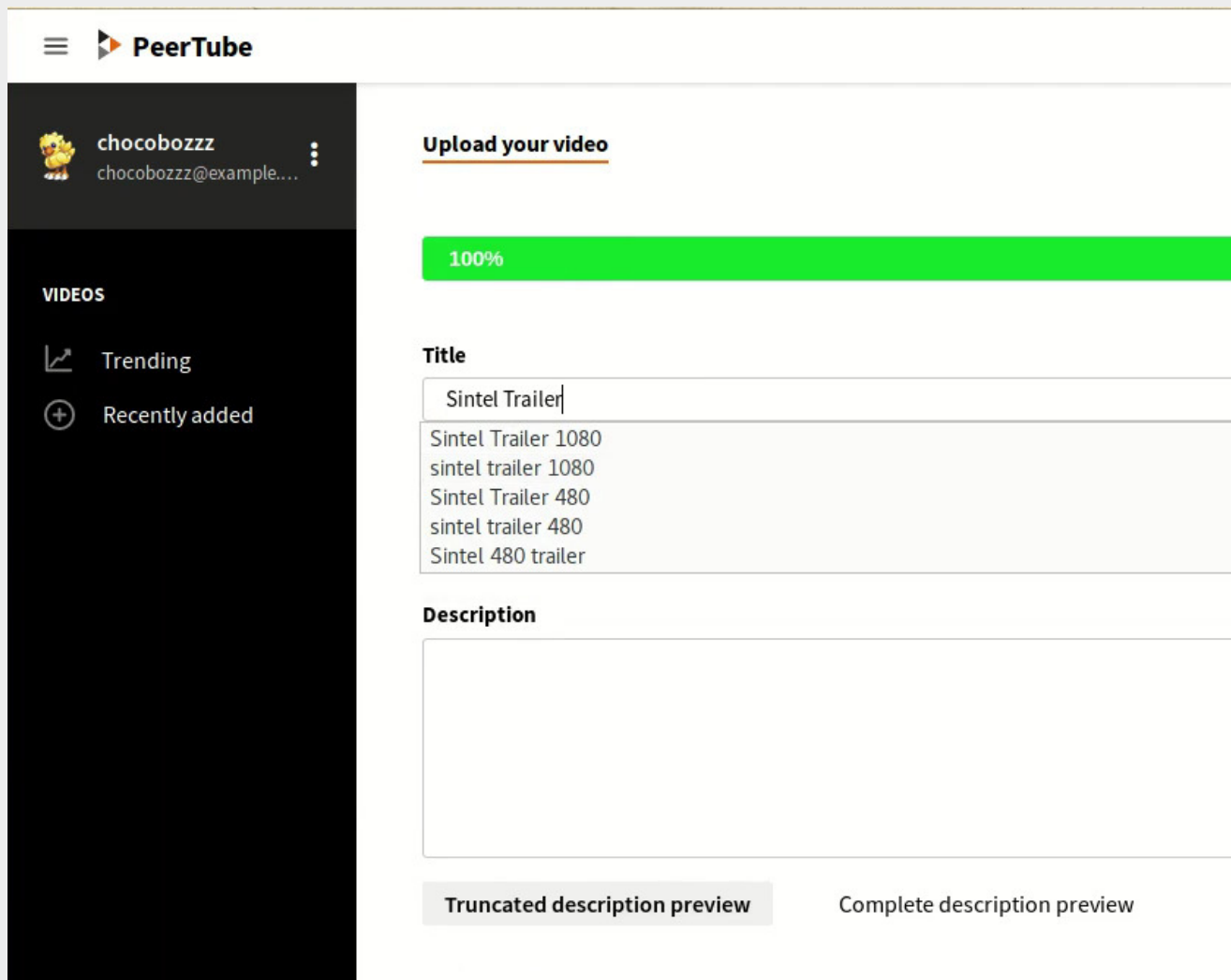
	POSTS	FOLLOWS	FOLLOWERS
	2	0	1

Below the statistics is a post from 'chocobozzz @chocobozzz...' with the text 'azefazef' and a timestamp of '7m'. The post includes a yellow chick avatar and interaction icons for reply, retweet, favorite, and more options.

Peertube and Mastodon interop demo!



Peertube and Mastodon interop demo!



The screenshot shows the Peertube upload interface for a user named 'chocobozzz'. The interface is split into a dark sidebar on the left and a main content area on the right. The sidebar contains a user profile section with a yellow chicken avatar and a 'VIDEOS' section with 'Trending' and 'Recently added' options. The main content area is titled 'Upload your video' and features a green progress bar at 100%. Below the progress bar is a 'Title' field containing 'Sintel Trailer', with a dropdown menu showing suggestions: 'Sintel Trailer 1080', 'sintel trailer 1080', 'Sintel Trailer 480', 'sintel trailer 480', and 'Sintel 480 trailer'. A 'Description' field is empty. At the bottom, there are two buttons: 'Truncated description preview' and 'Complete description preview'.

PeerTube

chocobozzz
chocobozzz@example...

VIDEOS

- Trending
- Recently added

Upload your video

100%

Title

Sintel Trailer

- Sintel Trailer 1080
- sintel trailer 1080
- Sintel Trailer 480
- sintel trailer 480
- Sintel 480 trailer

Description

Truncated description preview Complete description preview

Peertube and Mastodon interop demo!

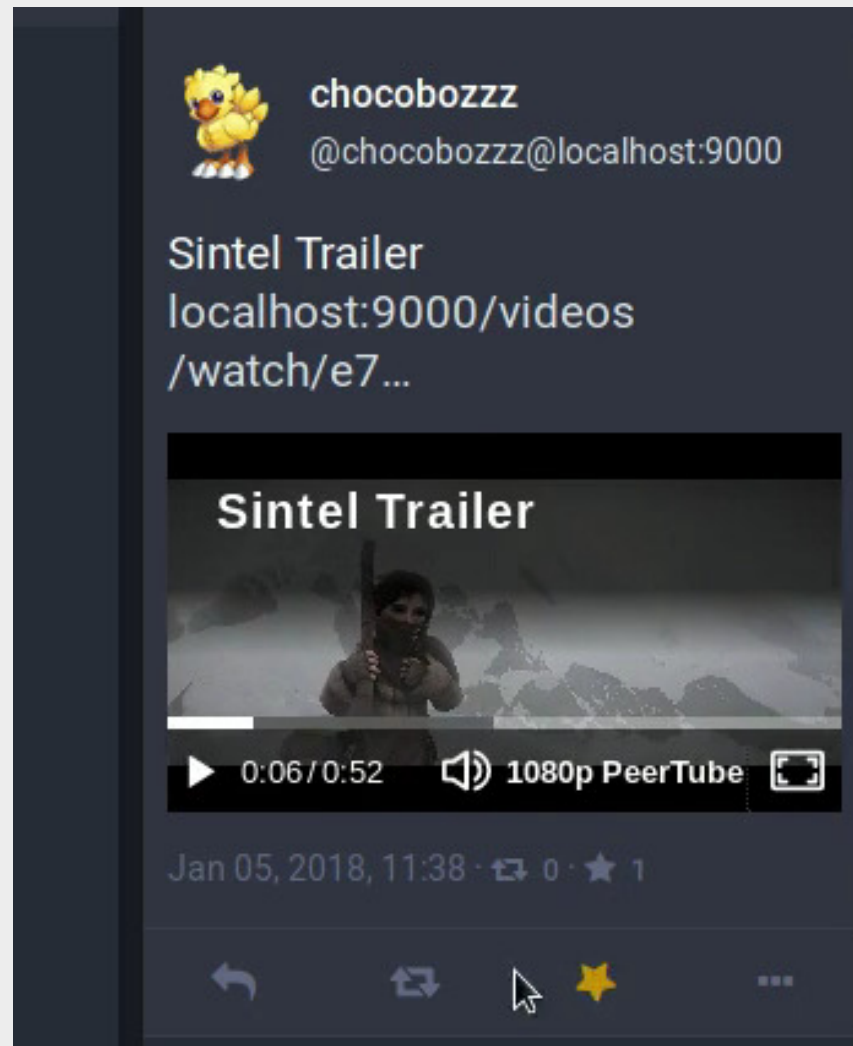
The screenshot shows a web browser window with two tabs: 'Sintel Trailer - PeerTube' and 'Mastodon (Dev)'. The address bar shows the URL `localhost:9000/videos/watch/e7692f1c-25c0-4ceb-ab5f-3c96226cb03d`. The PeerTube interface includes a search bar with the text 'Rechercher' and an 'Upload' button. The video player shows a scene from the Sintel trailer with a white play button in the center. Below the video, the title 'Sintel Trailer' is displayed along with the uploader's name 'chocobozzz' and channel information. Metadata such as 'Privacy: Public', 'Category: Misc', 'Licence: Unknown', and 'Language: Unknown' is visible. To the right, there is a section for 'Other videos' featuring thumbnails for 'Sintel Trailer' and 'conf-puppet-small'. A green notification box at the bottom right of the page displays the message 'Success Video published.' with a checkmark icon.

Peertube and Mastodon interop demo!

The screenshot shows a web browser window with two tabs: "Recently added videos - P X" and "Mastodon (Dev)". The address bar displays "localhost:3000/web/statuses/99296786757880450". The interface is dark-themed and divided into four main sections:

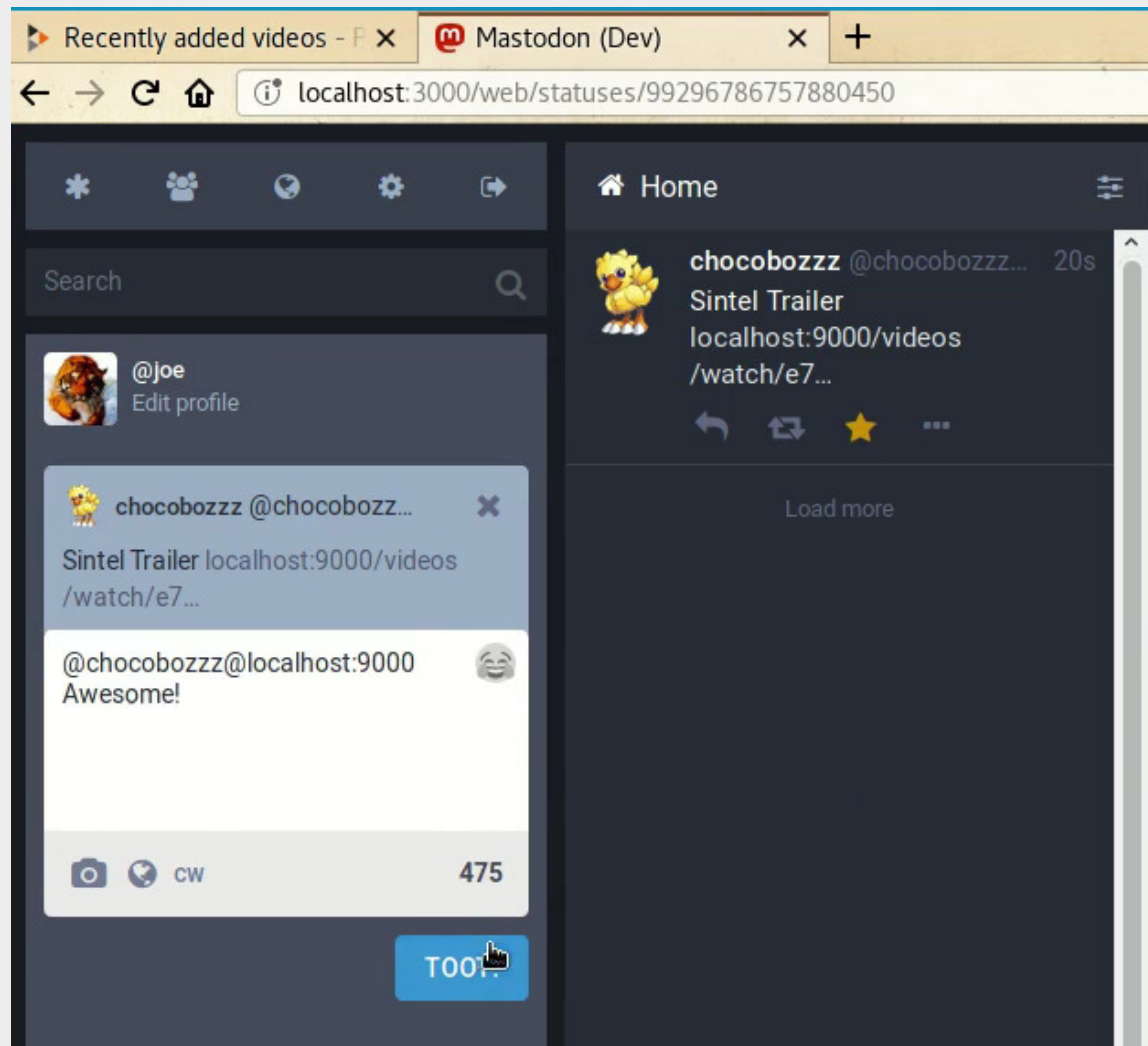
- Left Panel:** A search bar at the top. Below it is a profile card for "@joe" with a tiger avatar and an "Edit profile" link. A text input field contains "What is on your mind?". At the bottom of this panel is a blue "TOOT!" button.
- Home Panel:** Displays a post from "chocobozzz" (@chocobozzz...) 20s ago. The post content is "Sintel Trailer" with a link to "localhost:9000/videos/watch/e7...". Below the text are icons for reply, retweet, favorite, and a menu. A "Load more" button is visible below the post.
- Notifications Panel:** Shows a message: "You don't have any notifications yet. Interact with others to start the conversation."
- Right Panel:** A detailed view of the "Sintel Trailer" post. It includes the user's profile, the post text, a video player with the title "Sintel Trailer", a progress bar at 0:06 / 0:52, and "1080p PeerTube" resolution. Below the video, it shows the date "Jan 05, 2018, 11:38" and "0" retweets and "1" favorite.

Peertube and Mastodon interop demo!



The screenshot shows a Mastodon post from the user **chocobozzz** (@chocobozzz@localhost:9000). The post content is "Sintel Trailer" with a link to "localhost:9000/videos/watch/e7...". Below the text is a video player for the "Sintel Trailer". The video player shows a scene from the Sintel animation, with a progress bar at 0:06 / 0:52, a volume icon, "1080p PeerTube" resolution, and a full-screen icon. Below the video player, the post is dated "Jan 05, 2018, 11:38" and shows 0 replies and 1 star. At the bottom of the post are icons for reply, retweet, cursor, star, and a menu.

Peertube and Mastodon interop demo!



Peertube and Mastodon interop demo!

The screenshot shows the Peertube interface. At the top left is the Peertube logo and a search bar. A user profile for 'chocobozz' is visible in the top left corner. The main content area displays a video titled 'Sintel Trailer' with 1 view and a duration of 40 seconds. The video is from the 'Default chocobozz channel'. Below the video, there are interaction buttons for like, comment, share, and a menu. A comment section is visible with a comment from 'joe@localhost:3000' saying '@chocobozz Awesome!' and a reply from 'chocobozz' saying '@joe Thanks!'. A 'Post comment' button is at the bottom right.

PeerTube Search...

chocobozz
chocobozz@example...

VIDEOS

- Trending
- Recently added

Sintel Trailer

40 sec ago - 1 views

Default chocobozz channel
By chocobozz@localhost:9000 🐣

Privacy: Public
Category: Misc
Licence: Unknown
Language: Unknown
Tags:

Comments

🐣 Add comment...

joe@localhost:3000 6 sec ago
@chocobozz Awesome!

Reply

🐣 @joe Thanks!

Post comment

Peertube and Mastodon interop demo!

Comments



Add comment...



joe@localhost:3000 6 sec ago

@chocobozz Awesome!

Reply



@joe Thanks!

Yay! A working, interoperable federated social web!
But we're not done!

[Home](#) / Social Web Incubator...

SOCIAL WEB INCUBATOR COMMUNITY GROUP

The purpose of the Social Web Incubator Community Group is to continue and extend the development of vocabularies, formats and protocols to support the distributed / federated social web, as well as related technologies (such as anti-abuse and anti-spam techniques suitable for an open web). This group continues the work of the W3C Social Web Working Group. As proposals gain support and become more stable and mature, they will be considered for migration to a W3C Working Group where they can be put on the Recommendation track with appropriate status and Intellectual Property (IP) considerations.

Note: Community Groups are proposed and run by the community. Although W3C hosts these conversations, the groups do not necessarily represent the views of the W3C Membership or staff.

No Reports Yet Published i

Chairs, when logged in, may publish draft and final reports. Please see [report requirements](#).

PUBLISH REPORTS

Social Web Incubator Community Group kick-off call

Christopher Webber | Posted on: May 1, 2017

Hello everyone,

We're planning the first call for the SWICG. This will be on [Friday, May 5th of 2017 at 4PM GMT](#). This will be a loose call mostly talking about what's currently happening in the

Tools for this group i



- IRC
- Github
- RSS
- Contact This Group

Get involved i







Anyone may join this Community Group. All participants in this group have signed the [W3C Community Contributor License Agreement](#).

JOIN OR LEAVE THIS GROUP

Chairs ↖

-  Aaron Parecki
-  Christopher Webber

Participants (63)

- 
- 
- 
- 
-  Peter Alexander
- 

In incubation:

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- Lots more exciting applications to build!

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- More robust anti-abuse tooling

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- More robust anti-abuse tooling
- Decentralized/nomadic identity

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- Bridging federated social networks and peer to peer networks

In incubation:

- Lots more exciting applications to build!
- More robust anti-abuse tooling
- Decentralized/nomadic identity
- Bridging federated social networks and peer to peer networks
- Complimentary work happening at Rebooting Web of Trust

Standards work: a pain but worth it

What about the W3C and DRM/EME?



How could the W3C betray its mission?

What about the W3C and DRM/EME?



How could the W3C betray its mission?

- Conway's Law but for funding

What about the W3C and DRM/EME?



How could the W3C betray its mission?

- Conway's Law but for funding
- Fear of irrelevance
 - They'll abandon the web!!!
 - WHATWG

What about the W3C and DRM/EME?



Should we start a hacker-centric standards org?

What about the W3C and DRM/EME?



Should we start a hacker-centric standards org?

- Probably! Though...

What about the W3C and DRM/EME?



Should we start a hacker-centric standards org?

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- I can't: A finite number of yaks to shave in life (but happy to advise)

What about the W3C and DRM/EME?



Should we start a hacker-centric standards org?

- Probably! Though...
- I can't: A finite number of yaks to shave in life (but happy to advise)
- Got to work where collaborators are

Remember this slide?

Coming soon?

MediaGoblin Pump.io

- ActivityPub is (largely) derived from Pump.io's API

Remember this slide?

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- ActivityPub is (largely) derived from Pump.io's API
- MediaGoblin is the entire reason Jessica and I became ActivityPub co-editors

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- ActivityPub is (largely) derived from Pump.io's API
- MediaGoblin is the entire reason Jessica and I became ActivityPub co-editors

ActivityPub wouldn't have happened without Pump.IO and MediaGoblin

MediaGoblin and Pump.IO had interop:

The image shows a browser window with two tabs. The main tab is titled "Home - Identi.ca - Iceweasel" and displays the Identi.ca website. The address bar shows "https://identi.ca". The website header includes "Identi.ca" and buttons for "Note" and "Picture". The main content area shows a feed of posts. The first post is a link to "Free as in Freedom, Episode 0x54" with a description and interaction buttons. The second post is by Charles Stanhope, featuring a photo of a chessboard and a text post about chess moves. The third post is titled "Die PEGIDA hatte Recht. Wir hatten Unrecht." and includes a bar chart titled "Migration Wanderungs" with data for the top 7 categories.

The second tab is titled "Pumpa - cwebber@identi.ca" and shows an email interface. The email content includes a link to "FaiF Episode 0x54" and a quote from the same "Free as in Freedom" episode. Below the quote are buttons for "like", "share", and "comment". At the bottom of the email view, the text "Ready!" is visible.

Category	Value
1	+71.610
2	+49.551
3	+32.748
4	+24.242
5	+23.795
6	+20.729
7	+20.513

MediaGoblin and Pump.IO had interop:


The screenshot shows a web browser window titled "Pumpa - jpope@media.jpope.org". The browser has tabs for "Inbox", "Mentions", "Direct", "Meanwhile", and "Activities". The main content area displays a gallery of images created in Blender. The first image is titled "Debian Glow - Blender Render" and shows a red, glowing, spiral-like object. The second image is titled "Glass Arch - Blender Render" and shows a blue, glass-like arch structure. Below the gallery, there is a notification: "jpope added image to collection via GNU MediaGoblin".

Overlaid on the browser is a "Post a note" dialog box. The dialog has a title bar "Pumpa - Post a note" and a "Use Markdown" checkbox which is checked. The "To:" field is set to "Public". The "Cc:" field is empty. There are buttons for "Change picture", "Remove picture", "+ To", and "+ Cc". A preview image shows a purple goblin character holding a sign with a pumpkin. Below the preview is a text input field containing the text: "GMG + Pumpa" and "Another test upload from pump.io client [Pumpa](https://gitorious.org/pumpa).". At the bottom of the dialog are buttons for "Cancel", "Preview", and "Send post".

MediaGoblin and Pump.IO had interop:

mediagoblin ➔

* Browsing media by jpope



GMG + Pumpa

Another test upload from pump.io client Pumpa.

Added
48 minutes ago

Tagged with
mediagoblin · pumpa

Report media

License
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Attachments

- pumpa_goblin.xcf
- Screenshot - 12072014 - 12:01:54 PM.png

Powered by MediaGoblin, a GNU project. Released under the AGPL. Source code available.

MediaGoblin and Pump.IO had interop:
Federation also worked (in a branch)...

Thank you Jessica Tallon!

Addressing the obvious irony

So where the heck is MediaGoblin???

Excuses, excuses, excuses

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- While we've been busy, other projects like Peertube have been able to build on our work with ActivityPub, and have done some new and interesting things
- In the meanwhile, I've done some experimentation:

Pubstrate

Browser tabs: Guile Refere... Pubstrate Percent-enc... MIME - Wiki... FidoNet - Wi... Store and fo... Pubstrate dustycloud.org

Address bar: Pubstrate http://127.0.0.1:8080/u/mlemmer -

Header: *pubstrate* [Log in]

Hi! This is mlemmer's page.

Hello, Morgan!

By: mlemmer

At: April 22, 2016 @ 2:30pm

Hi Morgan, I love you a lot. Thanks for being there for me, even when I was going crazy doing all this.

Hopefully, this will render. <3!

Like Share Reply

Another test, but more serious?

By: mlemmer

At: April 22, 2016 @ 2:30pm

Pubstrate



Portrait of Ellen Terry

By: [mlemmer](#)

At: Jul 03, 2017 @ 10:17:00 PM



A portrait of [Ellen Terry](#) as photographed by [Julia Margaret Cameron](#).

All sizes: [large \[3367x3392; image/jpeg\]](#), [medium \[762x768; image/jpeg\]](#), [small \[238x240; image/jpeg\]](#)

♥ Like

◊ Share

▢ Reply

Pubstrate

pubstrate

Hello, mlemmer! :: [inbox] :: [Log out]

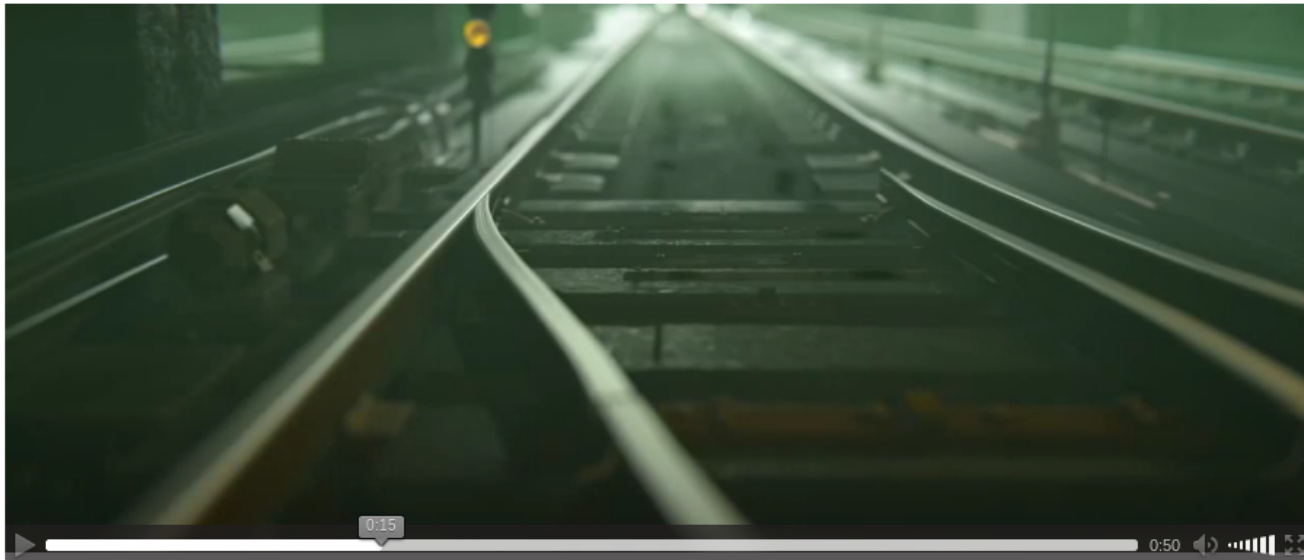
Hi! This is mlemmer's page.



Wires for Empathy trailer

By: mlemmer

At: Feb 25, 2017 @ 04:30:01 AM



Wires for Empathy trailer. (AKA, Tube!)

♥ Like

🔄 Share

💬 Reply

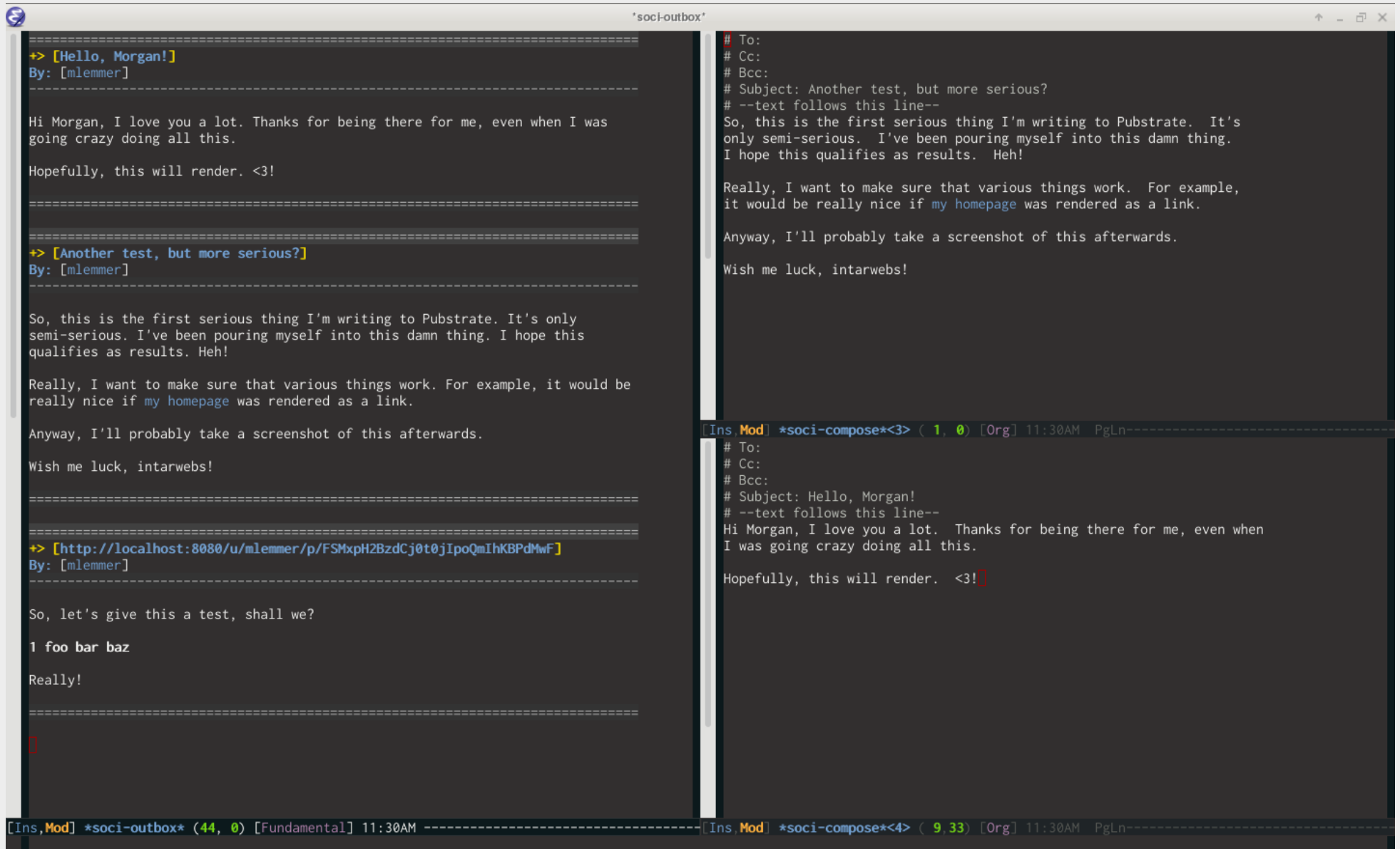


testing testing

By: mlemmer

At: Feb 25, 2017 @ 04:29:35 AM

I also wrote an emacs client...



```
[Ins,Mod] *soci-outbox* (44, 0) [Fundamental] 11:30AM -----[Ins Mod] *soci-compose* (9, 33) [Org] 11:30AM PgLn-----

+> [Hello, Morgan!]
By: [mlemmer]

Hi Morgan, I love you a lot. Thanks for being there for me, even when I was
going crazy doing all this.

Hopefully, this will render. <3!

+> [Another test, but more serious?]
By: [mlemmer]

So, this is the first serious thing I'm writing to Pubstrate. It's only
semi-serious. I've been pouring myself into this damn thing. I hope this
qualifies as results. Heh!

Really, I want to make sure that various things work. For example, it would be
really nice if my homepage was rendered as a link.

Anyway, I'll probably take a screenshot of this afterwards.

Wish me luck, intarwebs!

+> [http://localhost:8080/u/mlemmer/p/FSMxpH2BzdCj0t0jIpoQmIhKBPdMwF]
By: [mlemmer]

So, let's give this a test, shall we?

1 foo bar baz

Really!

# To:
# Cc:
# Bcc:
# Subject: Another test, but more serious?
# --text follows this line--
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```

I also experimented with async models...



docs download community news

What's 8sync?

8sync (pronounced "eight-sync") is an asynchronous programming library for [GNU Guile](#). Based on the [actor model](#), it makes use of [delimited continuations](#) to avoid a mess of callbacks resulting in clean, easy to read non-blocking code.

8sync also aims to be batteries included. Ever wanted to make your own IRC bot? Here's a real example taken straight from [the tutorial](#).

```
(define-class <my-irc-bot> (<irc-bot>))

(define-method (handle-line (irc-bot <my-irc-bot>) message
                          speaker channel line emote?)
  (define my-name (irc-bot-username irc-bot))
  (define (looks-like-me? str)
    (or (equal? str my-name)
        (equal? str (string-concatenate (list my-name ":")))))
```

The yak barbershop is full!

MediaGoblin's community has continued work in my absence!

Thanks especially to Boris Bobrov (breton) for stepping up as maintainer

Next steps for MediaGoblin

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I'm interested in your thoughts! Talk to me in the hallway or at soon-to-come MediaGoblin contributor meetings

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The next exciting ActivityPub application could be yours!

Thanks!

Image credits:

MediaGoblin federation images: (CC BY-SA 4.0)

Christopher Lemmer Webber and Morgan Lemmer Webber

Defective By Design march: (CC BY 3.0)

<https://media.libreplanet.org/u/zakkai/tag/no-drm-in-web-standards/>

Alyssa and Ben ActivityPub examples (CC0 1.0)

By mray, part of the ActivityPub spec

ActivityPub logo (CC0 1.0)

Also by mray!

Pump.io and MediaGoblin interop pics (CC BY-SA 4.0)

By jpope, from the MediaGoblin blog

Anything else by Christopher Lemmer Webber (CC BY-SA 4.0)

BONUS TOPICS

- Joining the SocialCG and why you should
- Possible paths for anti-abuse tooling
- What does it take to write an ActivityPub application?
- DIDs (Decentralized Identifiers) and identity with self-control
- Linked Data Capabilities for secure interactions
- Better async programming paradigms
- Bridging ActivityPub and P2P networks
- Why the retrofuture of social networks is cyberpunk games