

**Pump.io +
Community = ♥**

AJ Jordan

Let's talk about moi

Arch Linux

Emacs

Git

zsh

Node.js

Firefox

Also about moi

Radical FLOSS zealot

Self-hoster

Pump.io primary maintainer

Gap year (mostly) @ the [Recurse Center](#)

he/him

Let's talk about this session

What & why of pump.io

Its API

New community (+ history)

The "what & why"

Social network

Federated

Successor to StatusNet (aka GNU Social)

"That thing that runs identi.ca"

Pump.io != StatusNet++

Both written by Evan Prodromou

StatusNet was his first social project

identi.ca circa July-ish 2013

Very complex

Codebase problem & protocol problem

(Side note: Apache 2.0 vs. AGPL)

StatusNet protocol

(Fair warning: this is Long Before My Time™)

OStatus

Atom (status update feed)

PubSubHubbub (post push)

Salmon (comment distribution)

ActivityStreams (favorites, etc.)

Let's talk Salmon

Just as an example.

Comment distribution

Based on Atom/RSS

Data is `POST`ed back to an endpoint URL in original
post

Turns out this is overkill

StatusNet code problems

Everything and the kitchen sink

OpenID

Twitter cross-posting

URL shortening

Publish updates over XMPP

Content embedding (think YouTube)

A lot of this had custom server-side stuff

140 characters

Looked like Twitter

Artificial limits

Eventually evolved to support pictures, etc.

AKA: understood more and more types of
ActivityStreams

Enter pump.io

I post something and my followers see it. That's the rough idea behind the pump. - [README.md](#)

In other words:

Pump.io is just an ActivityStreams distribution engine

ActivityStreams

Usually JSON

Actor, verb and object (+ optional target)

```
{
  "published": "2011-02-10T15:04:55Z",
  "actor": {
    "url": "http://example.org/martin",
    "objectType": "person",
    "id": "tag:example.org,2011:martin",
    "image": {
      "url": "http://example.org/martin/image",
      "width": 250,
      "height": 250
    },
    "displayName": "Martin Smith"
  },
  "url": "http://example.org/martin",
  "objectType": "person",
  "id": "tag:example.org,2011:martin",
  "image": {
    "url": "http://example.org/martin/image",
    "width": 250,
    "height": 250
  },
  "displayName": "Martin Smith"
}
```

The API

OAuth 1.0

Post activities to the user's outbox

Read activities from the user's inbox

Major/minor stream differentiation

Example: let's post a note

POST to my outbox

Pump.io POSTs to my follower's inboxes

Generic ActivityStreams distribution

OpenFarmGame

Implements custom verbs and objects

Pump.io distributes them, no problem

Generic, extensible social server

I post something and my followers see it. That's the rough idea behind the pump. - [README.md](#)

Community

June 22, 2014

Evan pushes the last commit for over a year



This repository Search

Pull requests Issues Gist



e14n / pump.io

Unwatch 149

Unstar 1,411

Fork 269

Code

Issues 474

Pull requests 7

Wiki

Pulse

Graphs

Merge pull request #853 from liamzebedee/patch-2

Browse files

Disabled registration link on login page when appropriate

master (#17)



evanp committed on Jun 22, 2014

2 parents 8be0ab3 + ff82dcf commit 1029ac71b94dec2b51f6b2aa461b5b2a514e585a

Showing 1 changed file with 10 additions and 0 deletions.

Unified Split

10 public/template/login.utml

View

	*	@@ -22,6 +22,16 @@
22	22	</div>
23	23	</div>
24	24	</form>
	25	+
	26	+ <% if (config.disableRegistration) { %>
	27	+
	28	+ <p class="text-warning">Registrations disabled for new users.</p>
	29	+
	30	+ <% } else { %>
	31	+
25	32	<p>New user?</p>

The fork

Late August: I send [this note](#) to Evan, asking him to nominate a new maintainer

I fork <2 weeks later

First commit is September 2, 2016



This repository Search

Pull requests Issues Gist



strugee / pump.io

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Wiki Pulse Graphs Settings

Fix some problems with the README

Browse files

master

strugee committed on Sep 2, 2015 1 parent 1029ac7 commit b6f27ddf9d0a6096571321b5e55439c091e65621

Showing 1 changed file with 2 additions and 3 deletions.

Unified Split

5 README.md

Code View

		@@ -42,16 +42,15 @@ The software is useful for at least these scenarios:
42	42	* Activity stream functionality for an existing app
43	43	* Experimenting with social software
44	44	
45		-Version 0.2.0 will have a Web UI, which will probably make the whole
46		-thing much more enjoyable.
	45	+It also comes with a web UI.
47	46	
48	47	## Installation
49	48	
50	49	### Prerequisites
51	50	
52	51	You'll need four things to get started:
53	52	

Bringing it home

September 21, 2015: Evan wants to hand off the
code to the community

Informal meeting that same day

Evan grants admin rights to cwebber and jpope

Since then...

I become primary maintainer

Small but strong community

Meetings every third Friday of the month

PRs get merged now

Releases

Focus so far: reducing technical debt

Almost 0 outdated dependencies, perf improvements, bug fixes

Releases every month, alternating betas/stables

4.0 entering beta April 1

Other awesome stuff

Conservancy

Node transition

Community accounts

MediaGoblin **federates with us!**

SocialWG (ActivityPub in PR, ActivityStreams 2.0 in PR)

Future

ActivityPub support

Out-of-the-box HTTPS

More security improvements

Packaging

Bugfixes

Join us!

#pump.io on Freenode

XMPP: pump.io@muc.jappix.com

[pump-io/pump.io](https://github.com/pump-io/pump.io) on GitHub

@[pumpdotio](https://twitter.com/pumpdotio) or (even better) pumpio@pumpit.info

Sign up for a hosted node...

...or run your own!

Thanks!

I've been AJ

alex@strugee.net (email & XMPP)

alex@pump.strugee.net

[@strugee2](#) (if you must)

[strugee](#) on GitHub

strugee.net

Access this presentation again

<https://strugee.net/presentation-pumpio/libreplanet/>



Or, [check out the source.](https://strugee.net/presentation-pumpio/libreplanet/)