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 posted 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
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"
  }
}
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
Merge pull request #853 from liamzebedee/patch-2

Disabled registration link on login page when appropriate

evanp committed on Jun 22, 2014

Showing 1 changed file with 10 additions and 0 deletions.

10 public/template/login.utml

```
 22 22
 23 23
 24 24
</form>
+<% if (config.disableRegistration) { %>
+<p class="text-warning">Registrations disabled for new users.</p>
+<% } else { %>
+
25 26 27 28 29 30 31 32
<p><a class="add-continue" href="/main/register">New user?</a></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
Fix some problems with the README

`master`

strugee committed on Sep 2, 2015

1 parent 1029ac7 commit b6f27ddf9d0a6096571321b5e55439c901e65621

Showing 1 changed file with 2 additions and 3 deletions.

```
5 READMe.md

@@ -42,16 +42,15 @@ The software is useful for at least these scenarios:

- Activity stream functionality for an existing app
- Experimenting with social software

- Version 0.2.0 will have a Web UI, which will probably make the whole
  thing much more enjoyable.
+ It also comes with a web UI.

## Installation

### Prerequisites

You'll need four things to get started:
```

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 j pope
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 on GitHub

@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.