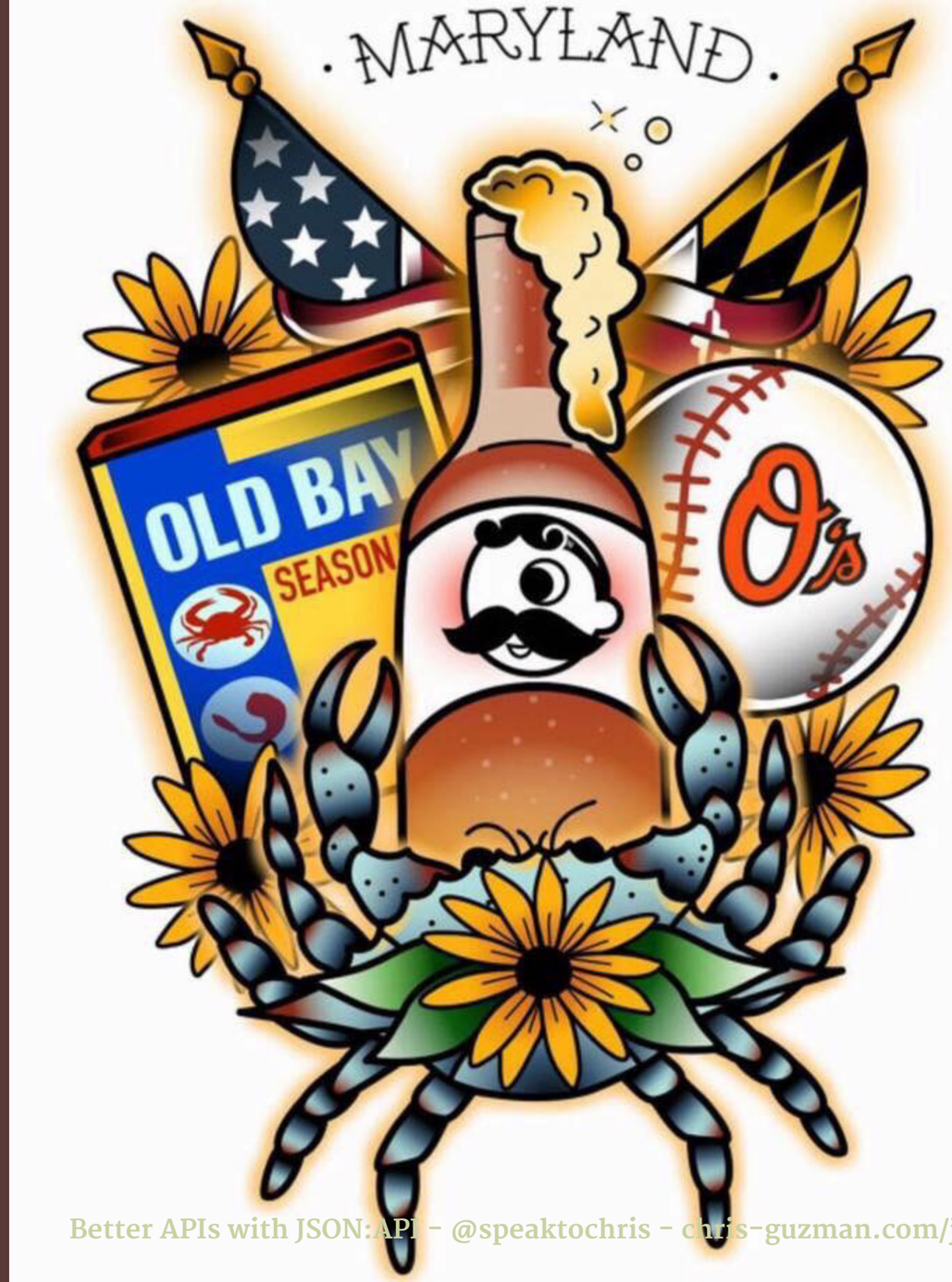
{json:api}

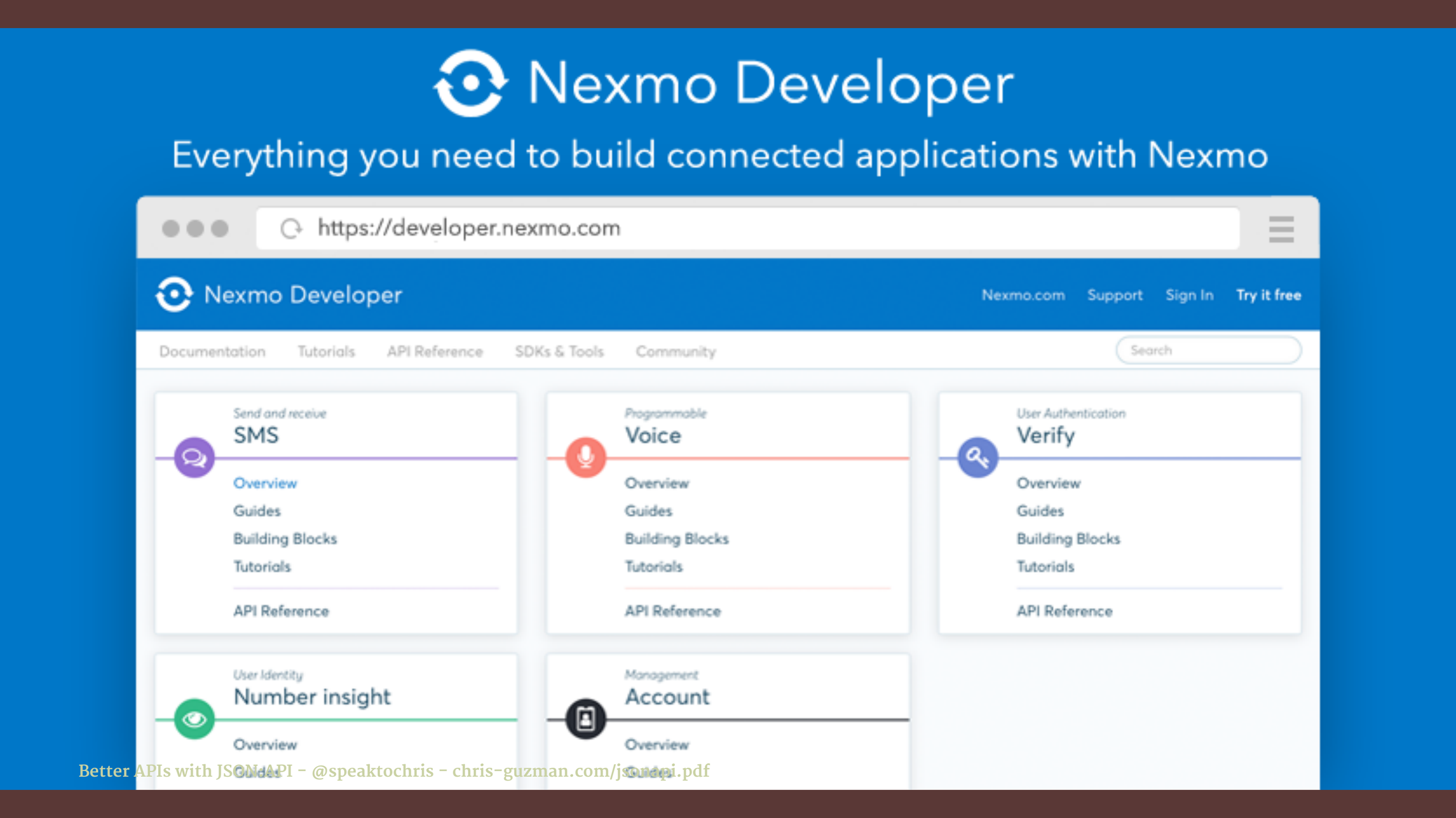
@speaktochris
@NexmoDev

chris-guzman.com/jsonapi.pdf


MARYLAND
OLD BAY
SEASON
O's

➡️


NEW ORLEANS
CITY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Guides
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API Reference
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Number insight
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Management
Account
Overview

Ruby 💎 & Android 🤖

{json:api}

A specification for building APIs in JSON

{json:api}

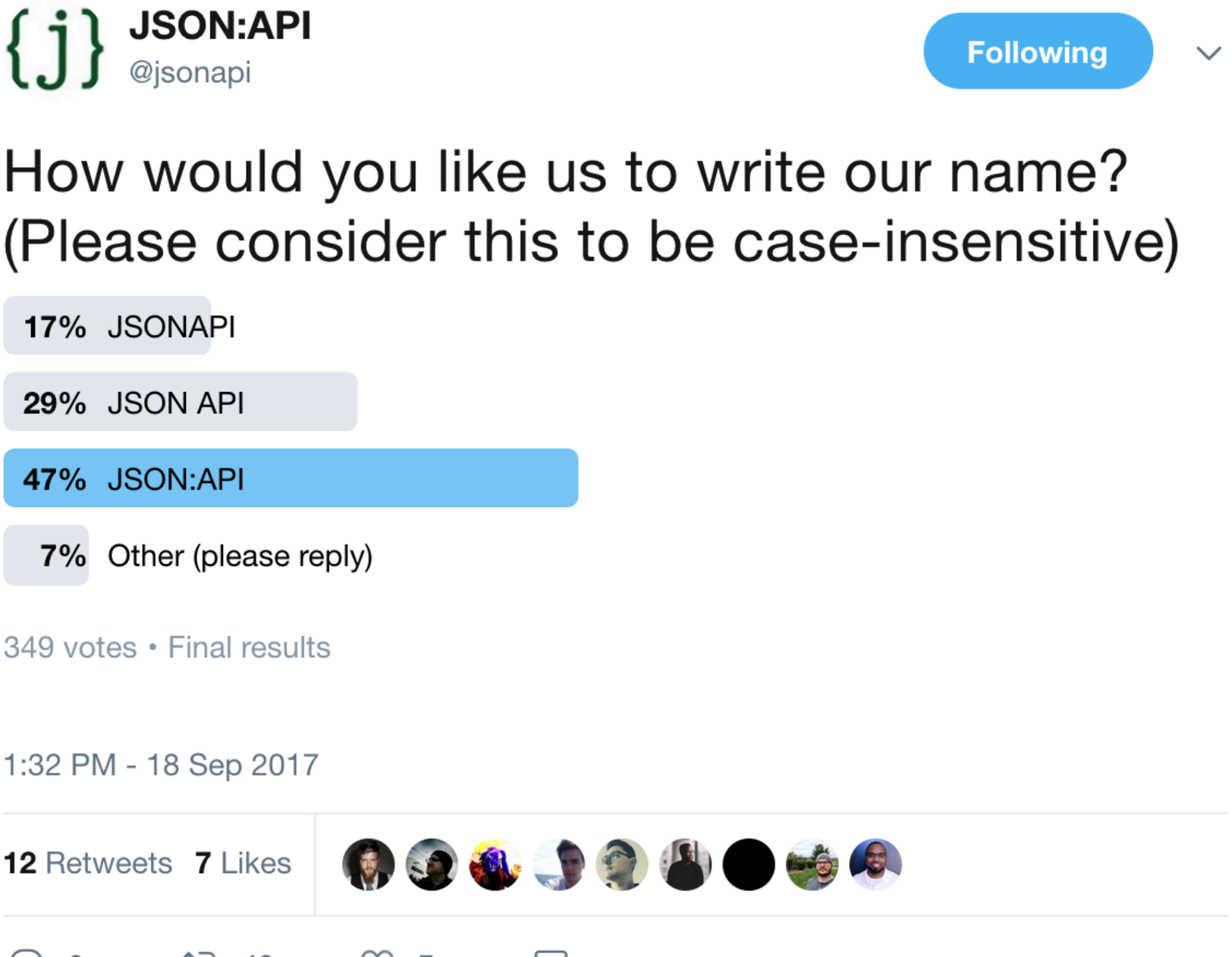
A specification for building APIs in JSON

(duh)

{json:api}

{json:api}

{"json":"api"}

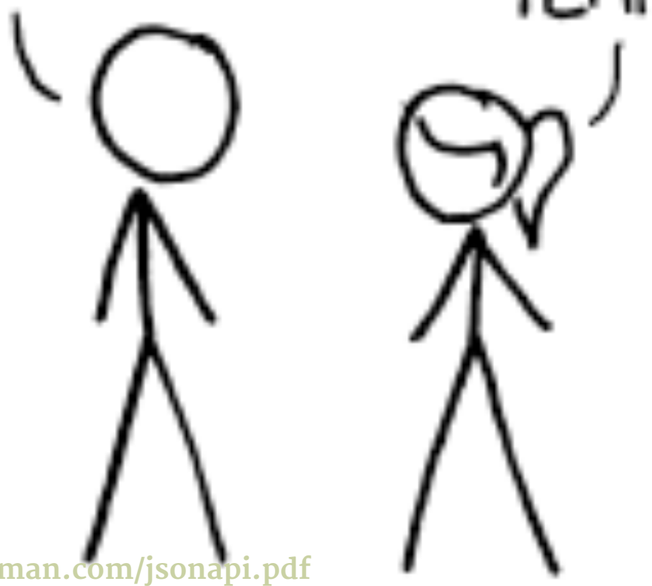

JSON:API
@jsonapi
Following
How would you like us to write our name? (Please consider this to be case-insensitive)
17% JSONAPI
29% JSON API
47% JSON:API
7% Other (please reply)
349 votes • Final results
1:32 PM - 18 Sep 2017
12 Retweets 7 Likes
9
12
7

Why?

HOW STANDARDS PROLIFERATE:
(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

SITUATION:
THERE ARE
14 COMPETING
STANDARDS.

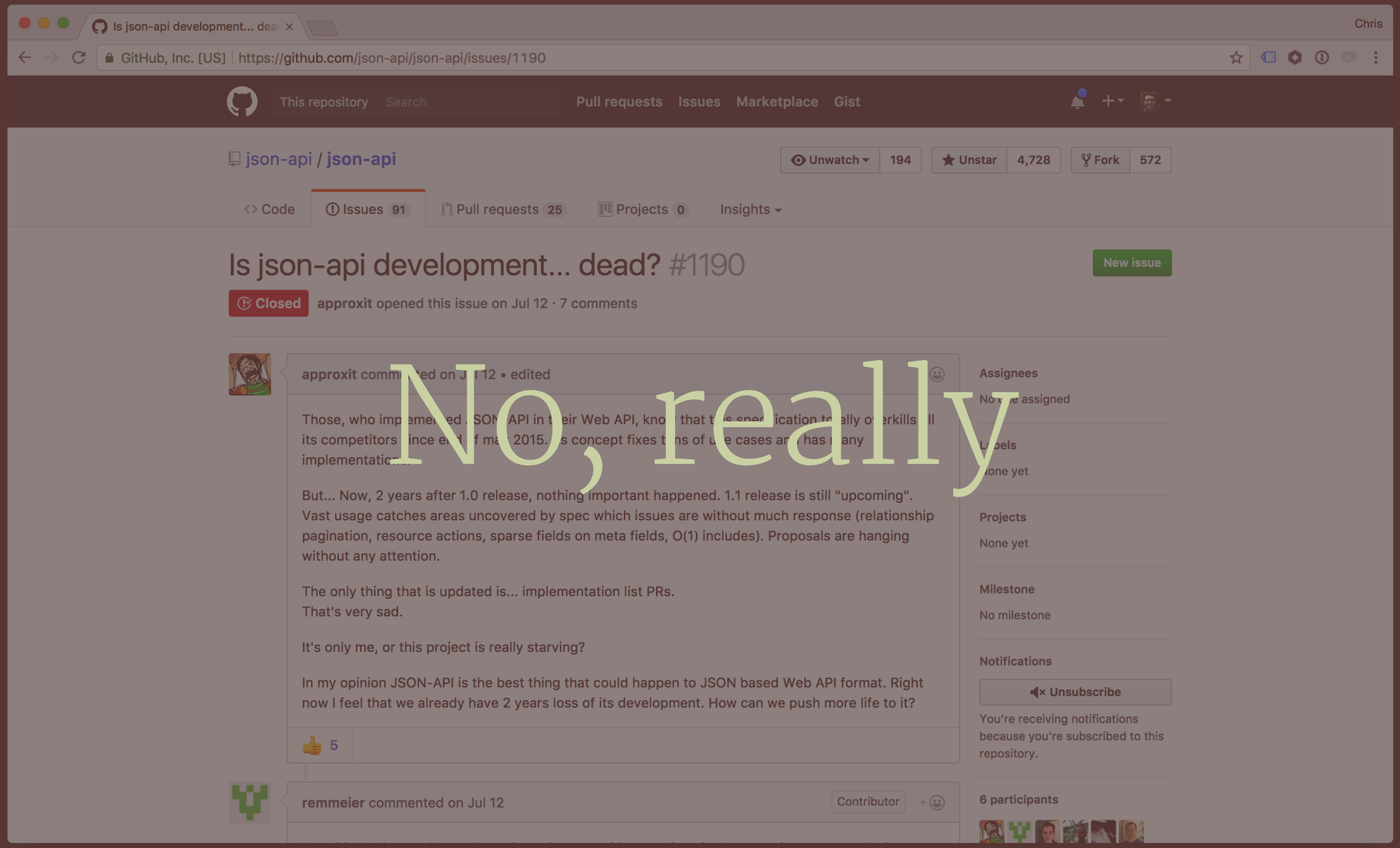
14?! RIDICULOUS!
WE NEED TO DEVELOP
ONE UNIVERSAL STANDARD
THAT COVERS EVERYONE'S
USE CASES.



SOON:

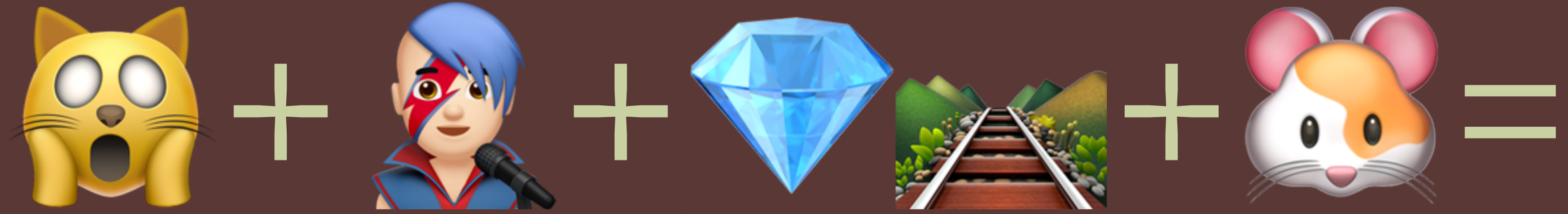
SITUATION:
THERE ARE
15 COMPETING
STANDARDS.

- Minimize requests & data between clients & servers
- Consistency, popular among consultancies
- Always backwards compatible
- Stable 1.0, *not dead*


Is json-api development... dead? #1190
Closed
approxit opened this issue on Jul 12 · 7 comments
New issue
Those, who implemented JSON API in their Web API, know that this specification totally overkills all its competitors since end of may 2015. Its concept fixes tons of use cases and has many implementations.
But... Now, 2 years after 1.0 release, nothing important happened. 1.1 release is still "upcoming". Vast usage catches areas uncovered by spec which issues are without much response (relationship pagination, resource actions, sparse fields on meta fields, O(1) includes). Proposals are hanging without any attention.
The only thing that is updated is... implementation list PRs.
That's very sad.
It's only me, or this project is really starving?
In my opinion JSON-API is the best thing that could happen to JSON based Web API format. Right now I feel that we already have 2 years loss of its development. How can we push more life to it?
5
remmeier commented on Jul 12
Contributor
Assignees
No one assigned
Labels
None yet
Projects
None yet
Milestone
No milestone
Notifications
Unsubscribe
You're receiving notifications because you're subscribed to this repository.
6 participants

No, really

History



{json:api}

A SPECIFICATION FOR BUILDING APIS IN JSON.

Spec

- meta: a meta object that contains non-standard meta-information.
- errors: an array of error objects
- *OR* -
- data: the document's "primary data"

Meta

```
{
  "meta": {
    "count": "42",
    "copyright": "Copyright 2015 Example Corp.",
    "authors": [
      "Yehuda Katz",
      "Steve Klabnik",
      "Dan Gebhardt",
      "Tyler Kellen"
    ]
  }
}
```

Errors

```
{
  "errors": [
    "id": "UUID",
    "status": "418",
    "code": "42",
    "title": "You're a teapot",
    "detail": "The object is not short nor stout",
    "links": {
       "about": "https://httpstatuses.com/418"
    },
    "meta": {
      "email": "nobody@example.com"
    }
  ]
}
```

Data

```
GET /articles
Accept: application/vnd.api+json

GET /articles/1
Accept: application/vnd.api+json

GET /articles/1/author
Accept: application/vnd.api+json
```

```
{
  "data": {
    "type": "articles",
    "id": "1",
    "attributes": {
        "title": "Rails is Omakase"
    },
    "relationships": {},
    "links": {
      "self": "http://example.com/articles/1"
    },
  }
}
```

Links

```
{"links": {
    "self": "/articles/1",
    "href": "http://example.com/articles/1"
  },
}
```

Relationships

```
{
  "relationships": {
    "author": {
      "data": {
        "type": "people",
        "id": "9"
      },
      "links": {
        "related": "/articles/1/author",
        "self": "/articles/1/relationships/author"
      }
    }
  }
}
```

```
#Request comments with an article
GET /articles/1?include=comments

#Request comments & authors with an article
GET /articles/1?include=comments,authors

#Request comments as well as the author of each of those comments
GET /articles/1?include=comments.author
```

```
{ "data":[],
  "included": [
  {
    "type": "people",
    "id": "11",
    "attributes": {
      "name": "Oli Rumbelow",
      "email": "oliver.rumbelow@example.com"
    }
  },
  {
    "type": "photos",
    "id": "45",
    "attributes": {
      "url": "http://www.example.com/foobar",
      "height": 1080,
      "width": 1920
    }}]}
```

```
#Request authors with id of 1 or 2
GET /authors/?filter[id]=1,2

#Request authors who are alive
GET /authors?filter[alive]=true

#Request comments published after a date
GET /comments?filter[published_after]=1990-01-01
```

Note: JSON:API is agnostic about how the filter query parameter can be used.

```
#Request only the title, & status fields
GET /articles?fields[articles]=title,status

#Request only the article's title & body fields
#plus the name of the author
GET /articles/1?&fields[articles]=title,body\
    include=author&fields[people]=name
```

```
{"data": [
    {
      "type": "articles",
      "id": "3",
      "attributes": {
        "title": "NodeJS Best Practices",
        "status": "published"
      }
    }
]}
```

```
#Sort articles alphabetically by title
GET /articles/?sort=title

#Sort authors by name, then life
GET /authors?sort=name,alive

#Sort authors by reverse alphabetical order, then life
GET /authors?sort=-name,alive
```

Note: JSON:API is agnostic about how the sort query parameter can be used.

```
#Get the third of 13 pages, one article at a time
GET /articles?page[number]=3&page[size]=1

"links": {
  "self": "http://example.com/articles?page[number]=3&page[size]=1",
  "first": "http://example.com/articles?page[number]=1&page[size]=1",
  "prev": "http://example.com/articles?page[number]=2&page[size]=1",
  "next": "http://example.com/articles?page[number]=4&page[size]=1",
  "last": "http://example.com/articles?page[number]=13&page[size]=1"
}
```

Note: JSON:API is agnostic about how the page query parameter can be used.

```
GET /articles?include=comments,author
    &fields[people]=first_name,last_name
    &sort=-date
```

» fetch all articles with their associated comments and authors

» Only be return the first and last names

» Sorted by date, most recent first

POST /photos

```
{"data": {
    "type": "photos",
    "attributes": {
      "title": "Ember Hamster",
      "src": "http://example.com/images/productivity.png"
    },
    "relationships": {
      "photographer": {
        "data": { "type": "people", "id": "9" }
      }
    }
  }
}
```

PATCH /articles/1

```
{"data": {
    "type": "articles",
    "id": "1",
    "attributes": {
      "title": "To TDD or Not",
      "text": "TLDR; It's complicated..."
    }
  }
}
```

PATCH /articles/1/relationships/author

```
{
  "data": {
    "type": "people", "id": "12"
  }
}
```

PATCH /articles/1/relationships/tags

```
{
  "data": [
    { "type": "tags", "id": "2" },
    { "type": "tags", "id": "3" }
  ]
}
```

```
PATCH /articles/1/relationships/author
{"data": null}

PATCH /articles/1/relationships/tags
{"data": []}

DELETE /photos/1
#empty body
```

JSON:API

» Can take advantage of caching

» built on top of REST

vs GraphQL

» Backed by heavier players

» GraphiQL UI

Tom Dale
@tomdale

Follow

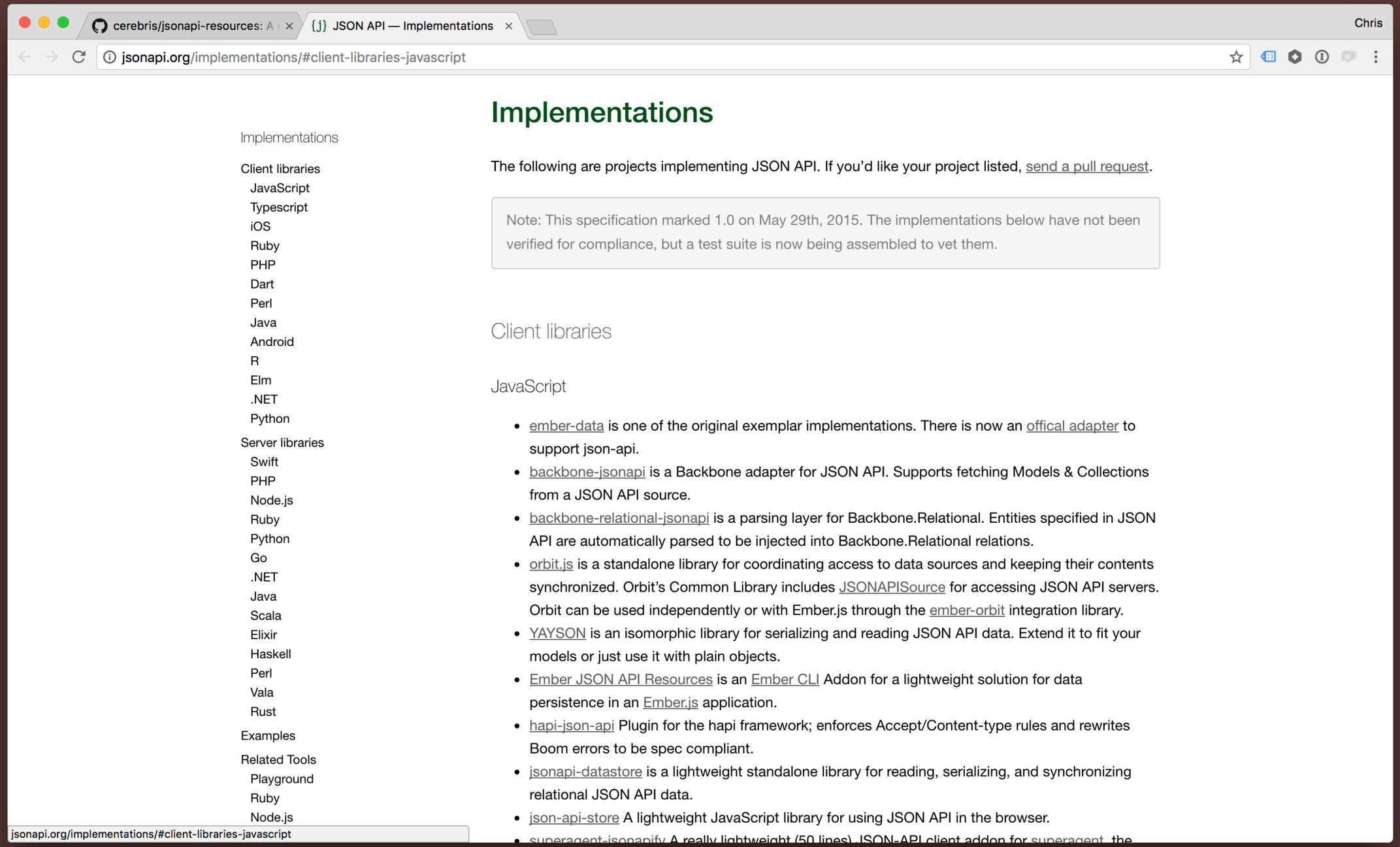
GraphQL will replace REST in the same way MongoDB replaced PostgreSQL.

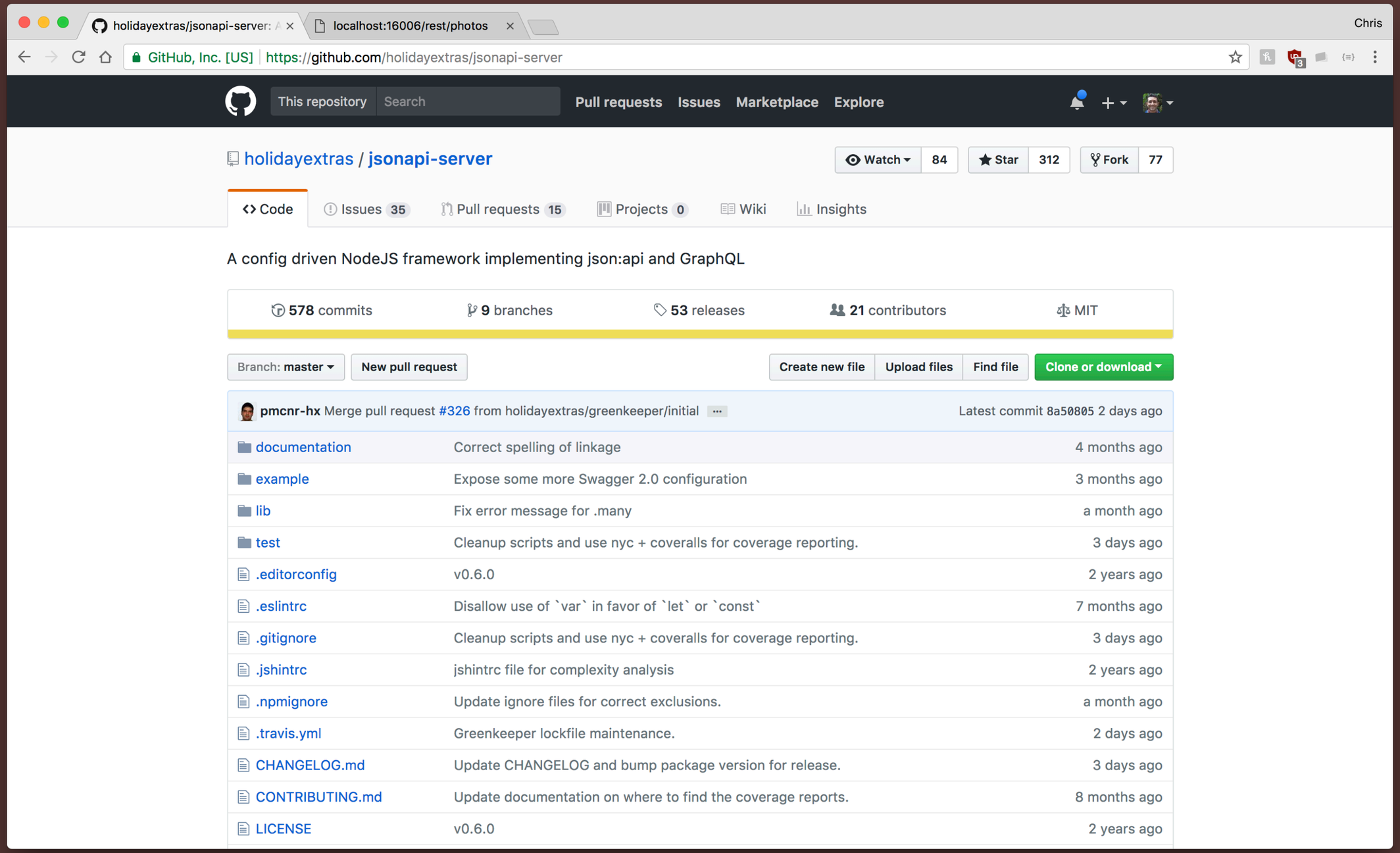
11:40 AM - 14 Oct 2016

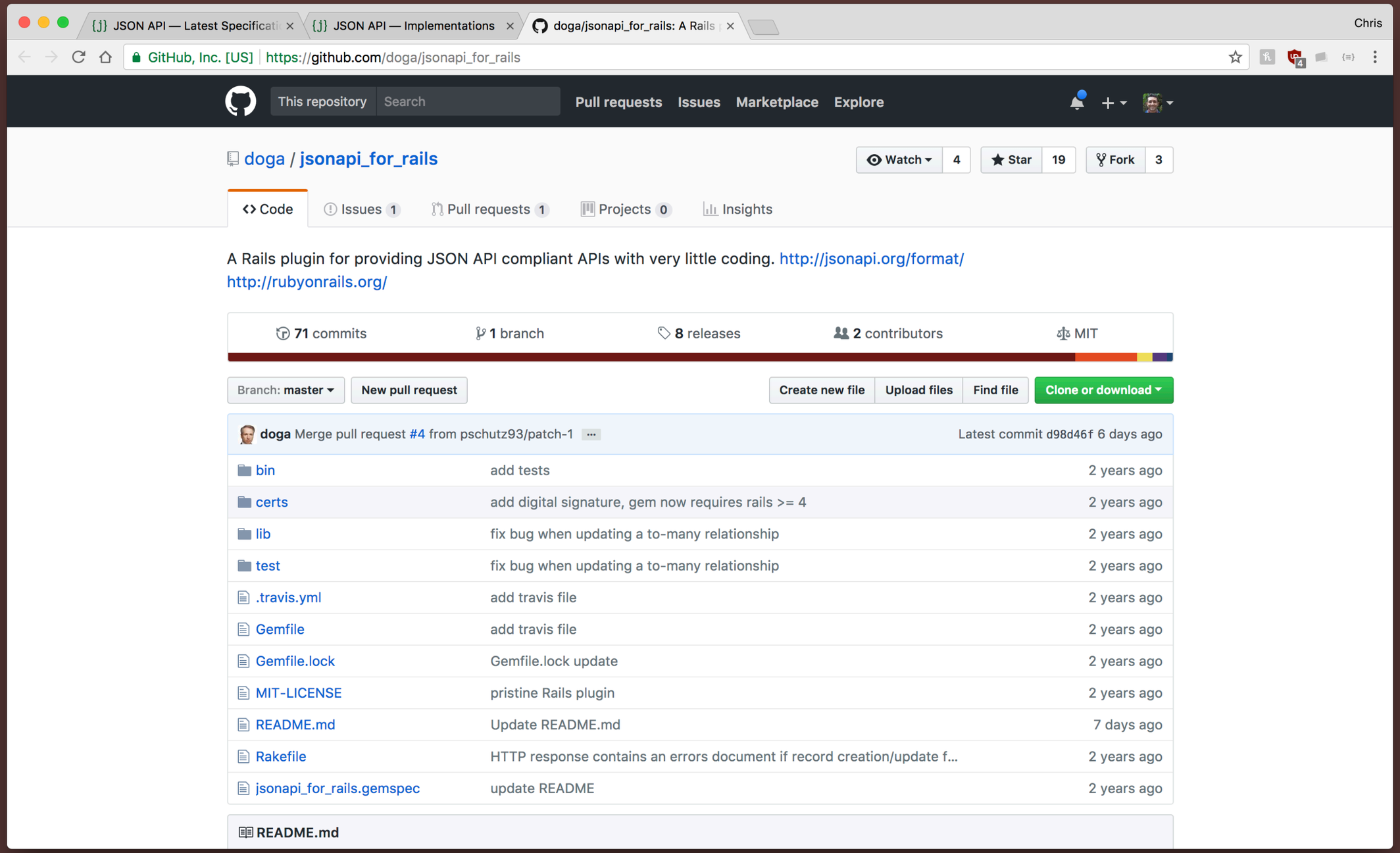
125 Retweets **155** Likes

11 125 155

Ok, maybe not the best analogy


cerebris/jsonapi-resources: A
{j} JSON API — Implementations
Chris
jsonapi.org/implementations/#client-libraries-javascript
Implementations
Client libraries
JavaScript
Typescript
iOS
Ruby
PHP
Dart
Perl
Java
Android
R
Elm
.NET
Python
Server libraries
Swift
PHP
Node.js
Ruby
Python
Go
.NET
Java
Scala
Elixir
Haskell
Perl
Vala
Rust
Examples
Related Tools
Playground
Ruby
Node.js
jsonapi.org/implementations/#client-libraries-javascript
Implementations
The following are projects implementing JSON API. If you'd like your project listed, send a pull request.
Note: This specification marked 1.0 on May 29th, 2015. The implementations below have not been verified for compliance, but a test suite is now being assembled to vet them.
Client libraries
JavaScript
ember-data is one of the original exemplar implementations. There is now an offical adapter to support json-api.
backbone-jsonapi is a Backbone adapter for JSON API. Supports fetching Models & Collections from a JSON API source.
backbone-relational-jsonapi is a parsing layer for Backbone.Relational. Entities specified in JSON API are automatically parsed to be injected into Backbone.Relational relations.
orbit.js is a standalone library for coordinating access to data sources and keeping their contents synchronized. Orbit's Common Library includes JSONAPISource for accessing JSON API servers. Orbit can be used independently or with Ember.js through the ember-orbit integration library.
YAYSON is an isomorphic library for serializing and reading JSON API data. Extend it to fit your models or just use it with plain objects.
Ember JSON API Resources is an Ember CLI Addon for a lightweight solution for data persistence in an Ember.js application.
hapi-json-api Plugin for the hapi framework; enforces Accept/Content-type rules and rewrites Boom errors to be spec compliant.
jsonapi-datastore is a lightweight standalone library for reading, serializing, and synchronizing relational JSON API data.
json-api-store A lightweight JavaScript library for using JSON API in the browser.


holidayextras/jsonapi-server:
localhost:16006/rest/photos
Chris
GitHub, Inc. [US] https://github.com/holidayextras/jsonapi-server
This repository
Search
Pull requests
Issues
Marketplace
Explore
holidayextras / jsonapi-server
Watch 84
Star 312
Fork 77
Code
Issues 35
Pull requests 15
Projects 0
Wiki
Insights
A config driven NodeJS framework implementing json:api and GraphQL
578 commits
9 branches
53 releases
21 contributors
MIT
Branch: master
New pull request
Create new file
Upload files
Find file
Clone or download
pmcnr-hx Merge pull request #326 from holidayextras/greenkeeper/initial
Latest commit 8a50805 2 days ago
documentation Correct spelling of linkage 4 months ago
example Expose some more Swagger 2.0 configuration 3 months ago
lib Fix error message for .many a month ago
test Cleanup scripts and use nyc + coveralls for coverage reporting. 3 days ago
.editorconfig v0.6.0 2 years ago
.eslintrc Disallow use of `var` in favor of `let` or `const` 7 months ago
.gitignore Cleanup scripts and use nyc + coveralls for coverage reporting. 3 days ago
.jshintrc jshintrc file for complexity analysis 2 years ago
.npmignore Update ignore files for correct exclusions. a month ago
.travis.yml Greenkeeper lockfile maintenance. 2 days ago
CHANGELOG.md Update CHANGELOG and bump package version for release. 3 days ago
CONTRIBUTING.md Update documentation on where to find the coverage reports. 8 months ago
LICENSE v0.6.0 2 years ago


{j} JSON API — Latest Specificati
{j} JSON API — Implementations
doga/jsonapi_for_rails: A Rails
Chris
GitHub, Inc. [US] https://github.com/doga/jsonapi_for_rails
This repository
Search
Pull requests
Issues
Marketplace
Explore
doga / jsonapi_for_rails
Watch 4
Star 19
Fork 3
Code
Issues 1
Pull requests 1
Projects 0
Insights
A Rails plugin for providing JSON API compliant APIs with very little coding. http://jsonapi.org/format/
http://rubyonrails.org/
71 commits
1 branch
8 releases
2 contributors
MIT
Branch: master
New pull request
Create new file
Upload files
Find file
Clone or download
doga Merge pull request #4 from pschutz93/patch-1
Latest commit d98d46f 6 days ago
bin add tests 2 years ago
certs add digital signature, gem now requires rails >= 4 2 years ago
lib fix bug when updating a to-many relationship 2 years ago
test fix bug when updating a to-many relationship 2 years ago
.travis.yml add travis file 2 years ago
Gemfile add travis file 2 years ago
Gemfile.lock Gemfile.lock update 2 years ago
MIT-LICENSE pristine Rails plugin 2 years ago
README.md Update README.md 7 days ago
Rakefile HTTP response contains an errors document if record creation/update f... 2 years ago
jsonapi_for_rails.gemspec update README 2 years ago
README.md

{json:api}

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