

From API Description To Tests & Mocks

You'll need:



Your Mac



Xcode 8 or 9



A bit of Swift...



Paw (<https://paw.cloud>)

Today's Agenda

- Intro & Presentation
- A simple XKCD app with *Alamofire*
- Build **mocks** with *Mockingjay*
- A simple Instagram app
- Create unit + UI tests with mocks

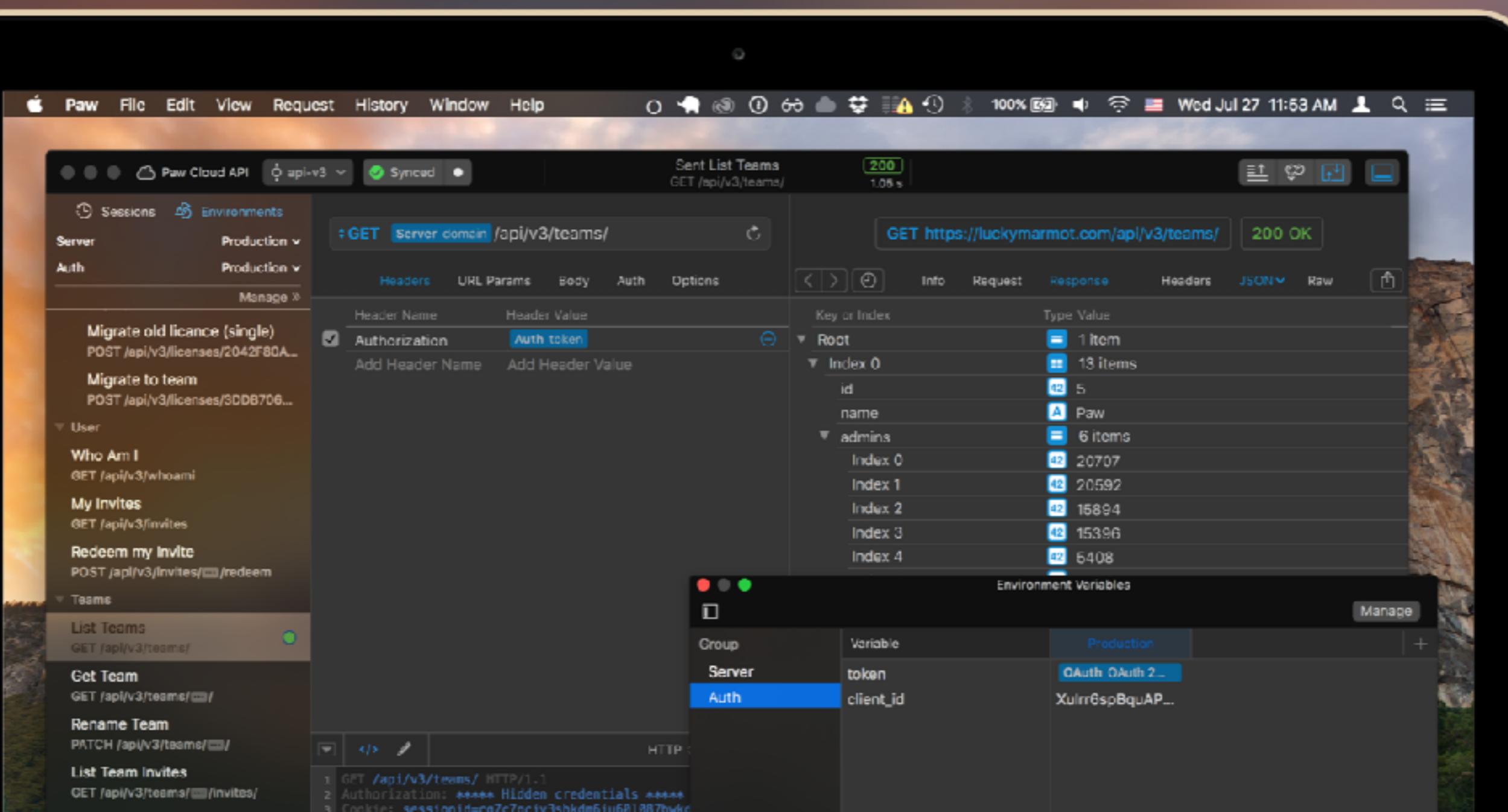
From API Description To Tests & Mocks



@mittsh

Paw

The most advanced API tool for Mac

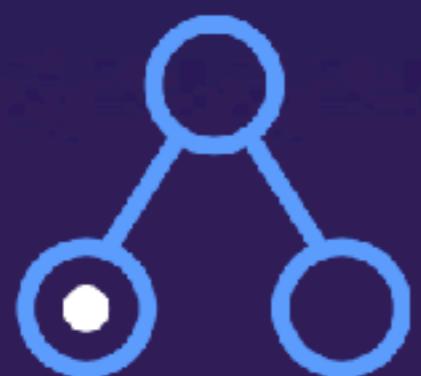


**What's an
API description
format?**





RAML



api blueprint



ENJOY!



APaBMapFotsRCA M?



WHY SO
MANY
FORMATS?

THE
GOOD OLD
DAYS

DIFFERENT NEEDS



...AND OPINIONS



YET



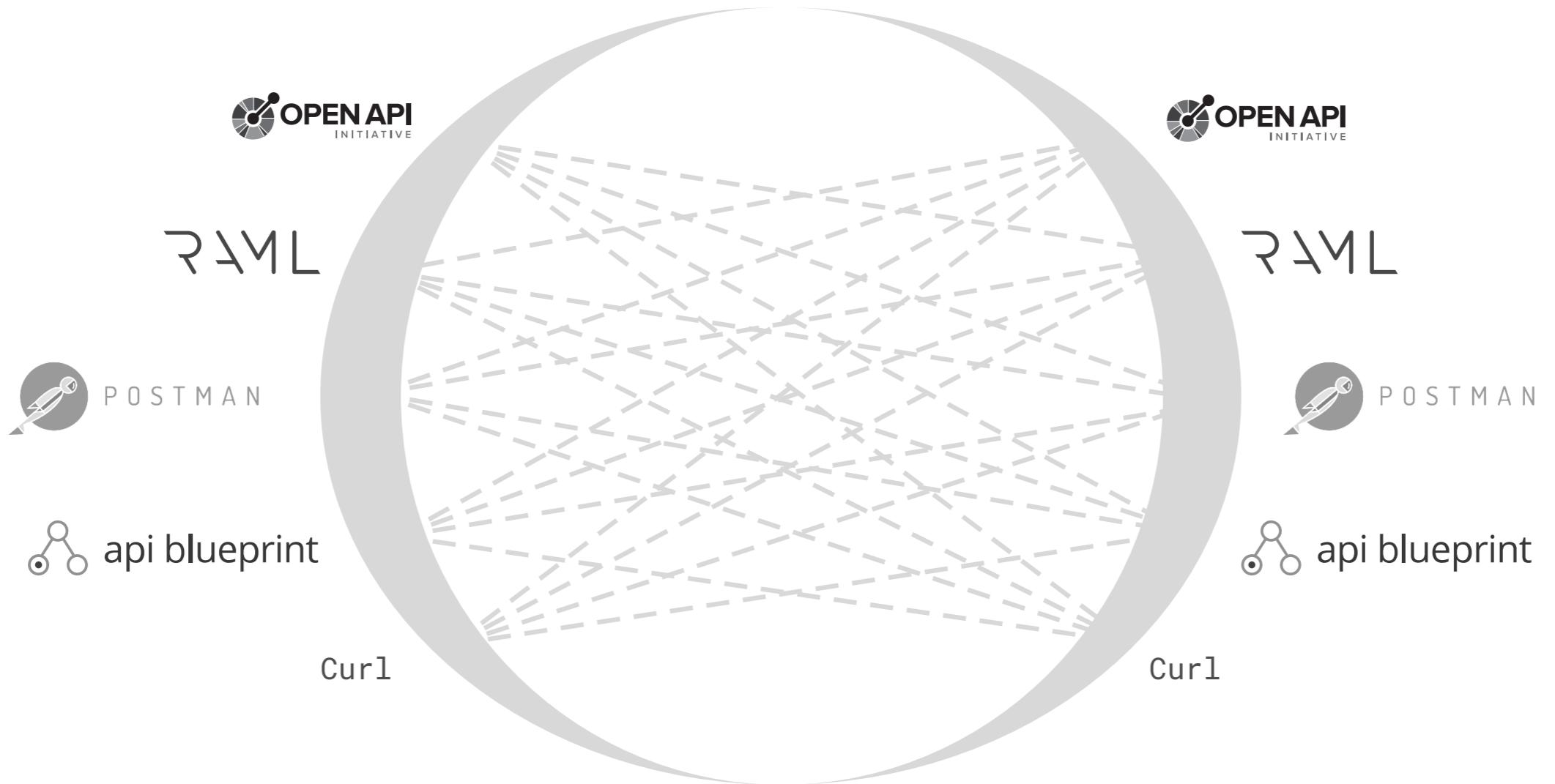
ANOTHER

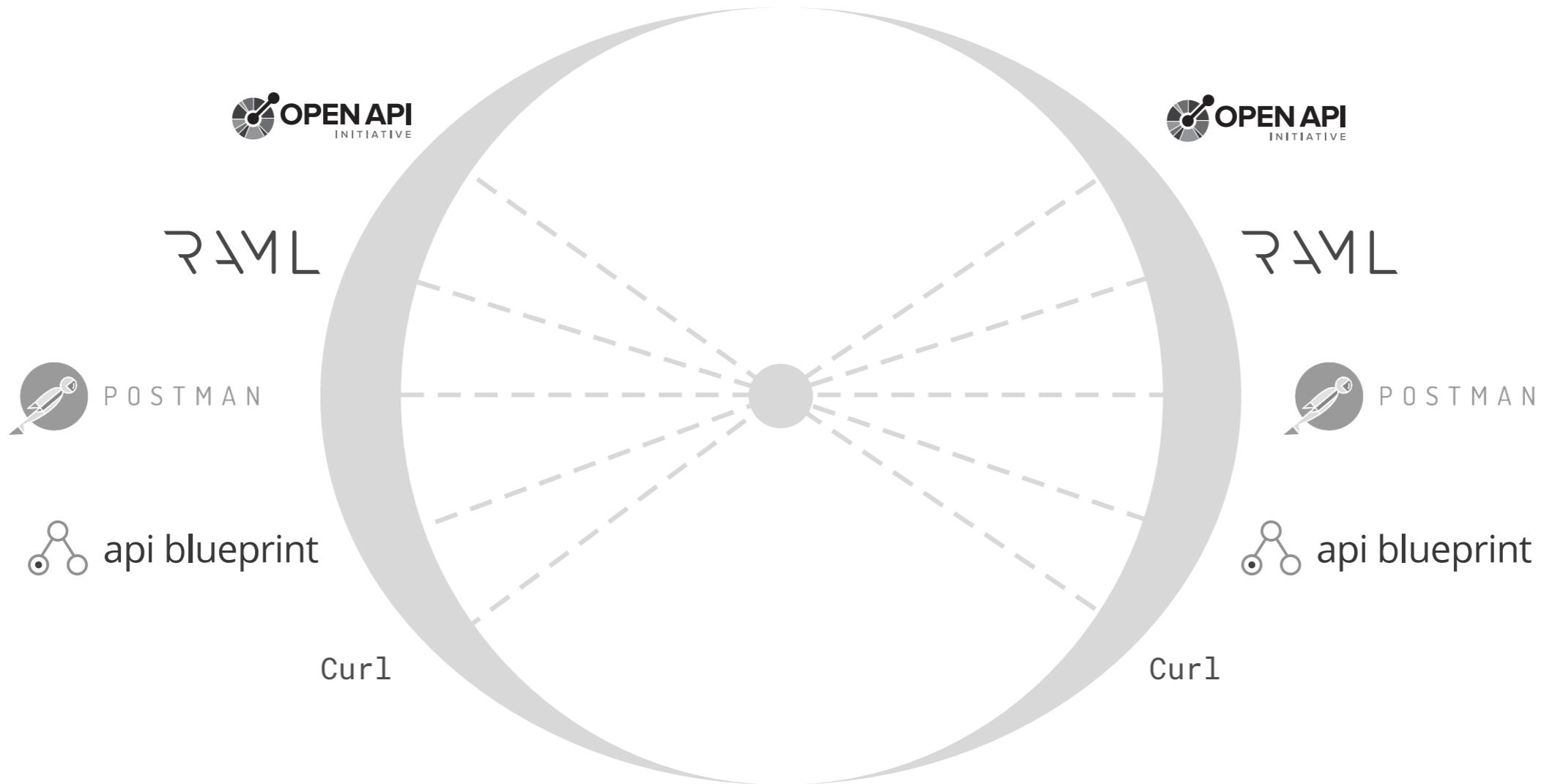
FORMAT?



MIDDLEWARE







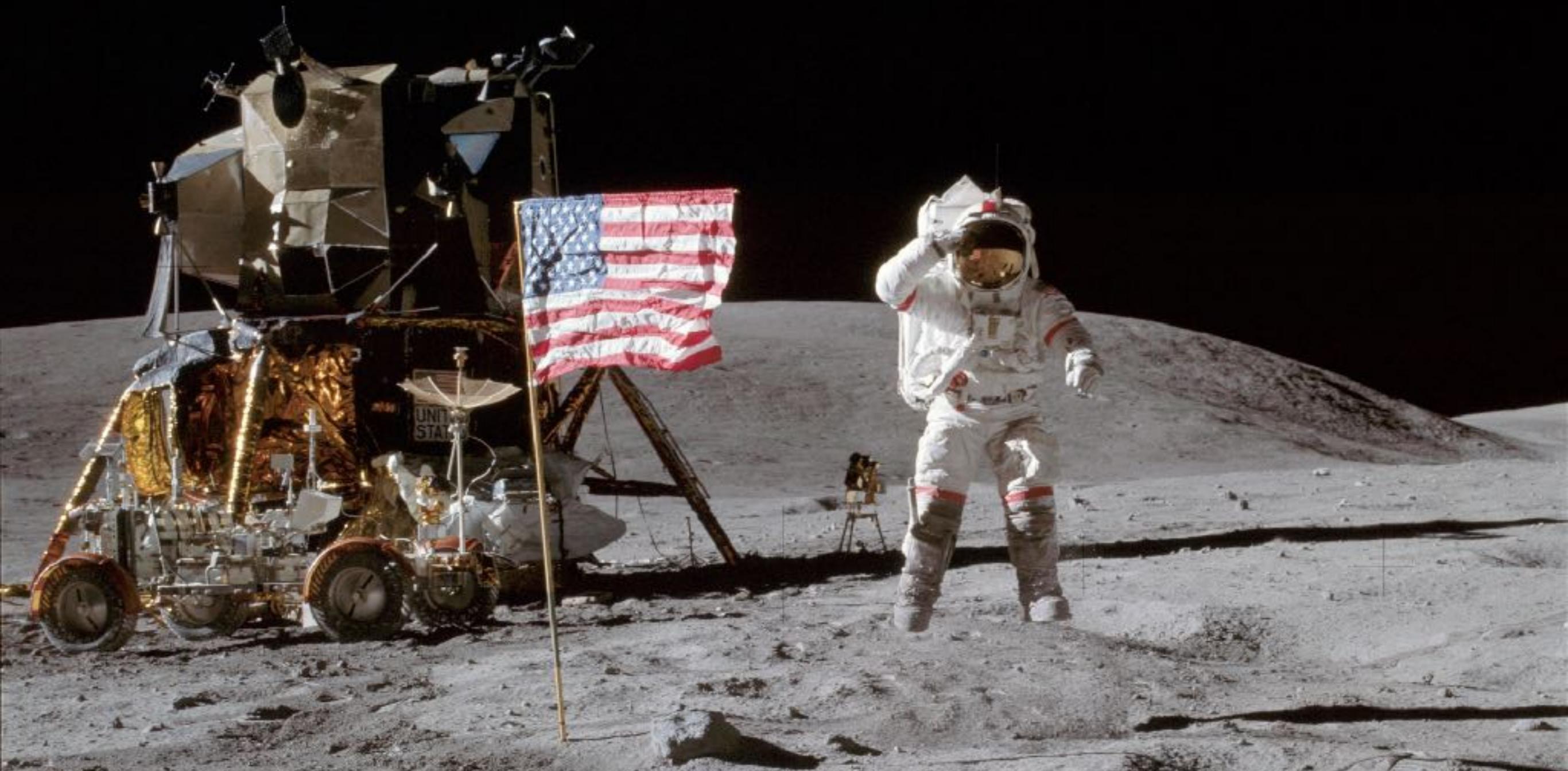


OPEN SOURCE



CROSS PLATFORM

BE THE
FIRST





MAKE APIS
UNIVERSAL



This repository

Search

Pull requests Issues Marketplace Explore



luckymarmot / API-Flow

Unwatch 9

Unstar 90

Fork 10

Code

Issues 12

Pull requests 4

Projects 0

Wiki

Settings

Insights

Universal data structure and converter for API formats (Swagger, RAML, Paw, Postman...)

Edit

raml-utilities paw api-flow postman swagger converter Manage topics

514 commits

6 branches

2 releases

4 contributors

MIT

Branch: develop

New pull request

Create new file

Upload files

Find file

Clone or download

 mittsh committed on GitHub Merge pull request #140 from JonathanMontane/0002-luckymarmot ... Latest commit 8840d89 on Aug 16

 bin	improved metafiles for npm publish	9 months ago
 configs	removed v prefix for versions	5 months ago
 linting	removed duplication engine, added fixme engine, added require-jsdoc r...	5 months ago
 scripts	fixed packing error	5 months ago
 src	fixed a bug where a single slash between two components was removed f...	a month ago
 testing	added tests for api-blueprint serializer	4 months ago
 .babelrc	added coverage to test suite. started working on increasing coverage	5 months ago
 .codeclimate.yml	removed duplication engine, added fixme engine, added require-jsdoc r...	5 months ago
 .eslintignore	set up linting. improved file quality.	2 years ago
 .flowconfig	updated core model to support more features from swagger v3 and raml 1.0	9 months ago
 .gitignore	added coverage to test suite. started working on increasing coverage	5 months ago
 .npmignore	improved metafiles for npm publish	9 months ago
 numerous	updated numerous to 7.4	9 months ago

DEMO



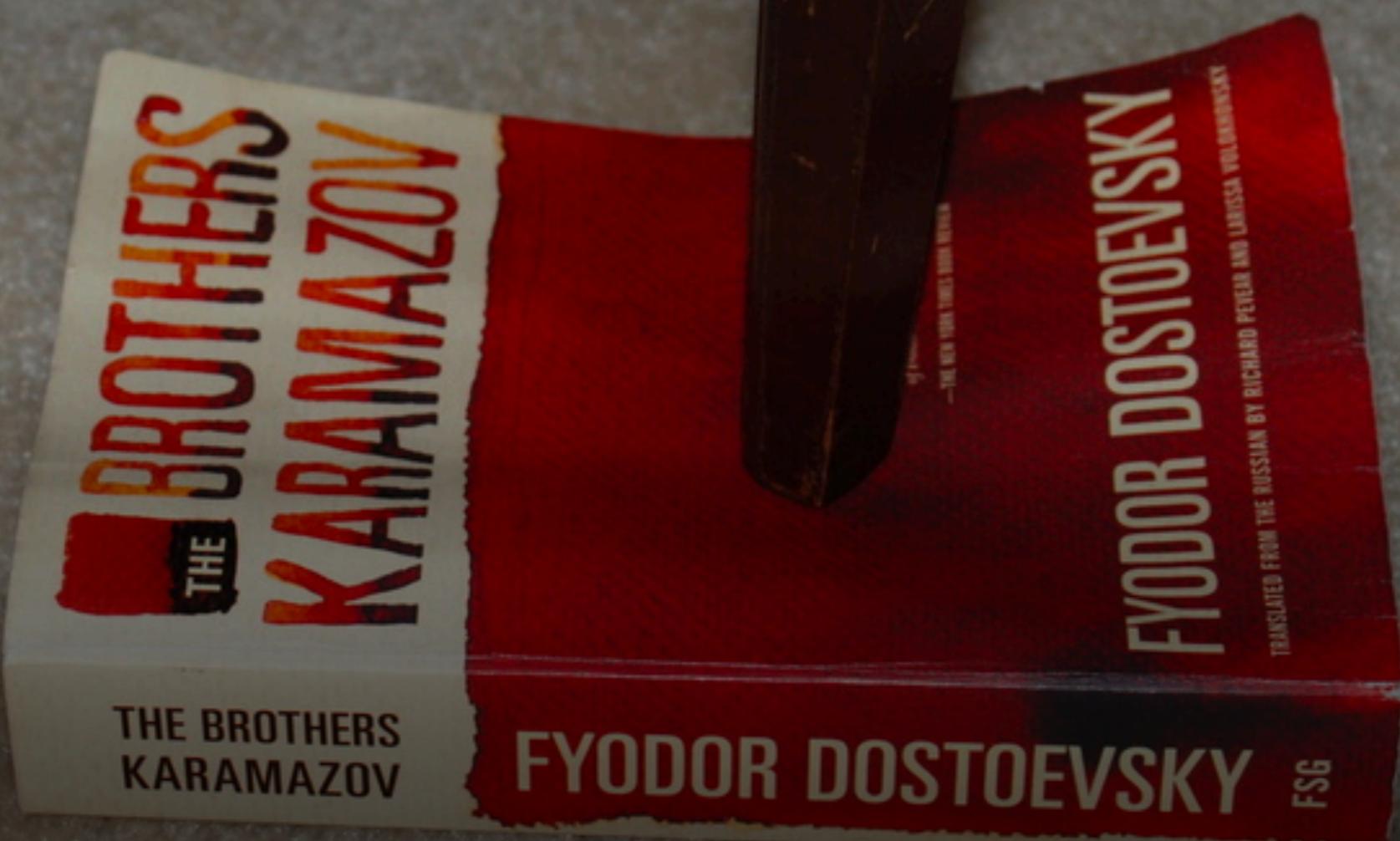
Not for
us?



A photograph of a scientist in a white lab coat and gloves, holding two test tubes. One tube is held vertically in the foreground, showing a dark liquid. The other tube is held horizontally in the background. The scientist is working in a laboratory setting with various equipment and supplies visible.

FOR TESTS

FOR STUBS



START HACKING



A - XKCD

Why Stubs?

*Simulate the behavior of existing code
(or procedure)*

- App development (without server)
- Edge cases (errors...)
- Tests (Unit & UI)
- Faster execution

Stub Libraries

- Mockingjay (*Swift 3*)
- OHHTTPStubs (*ObjC*)
- Nocilla (*ObjC*)

NSURLProtocol

```
URLProtocol.registerClass(MyStubClass.self)
```

```
func canInit(with request:URLRequest) -> Bool
```

NSURLProtocolClient

```
func startLoading() {  
    let data = /* stub data */  
    client?.urlProtocol(self, didLoad: data)  
    client?.urlProtocolDidFinishLoading(self)  
}
```

B - Instagram API
with the help of Paw

 Search Documentation[Overview >](#)[Authentication >](#)[Login Permissions >](#)[Permissions Review >](#)[Sandbox Mode >](#)[Secure Requests >](#)[Endpoints >](#)[Rate Limits >](#)[Subscriptions >](#)[Embedding >](#)[Mobile Sharing >](#)[Libraries >](#)[Support >](#)[Changelog >](#)[Platform Policy >](#)

Register new Client ID

[Details](#)[Security](#)**Application Name:**

Do not use Instagram, IG, insta or gram in your app name. Make sure to adhere to the API Terms of Use and Brand Guidelines.

Description:**Company Name:****Website URL:****Valid redirect URIs:**

Press Enter to confirm.

The redirect_uri specifies where we redirect users after they have chosen whether or not to authenticate your application.

Privacy Policy URL:**Contact email:**

An email that Instagram can use to get in touch with you. Please specify a valid email address to be notified of important information about your app.



C - Integrate with Tests

D - Swift 4 +
JSONEncoder

E - JSON Schema Validation

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