

Understanding

TIPS, INSIGHTS, AND HELPING IMPROVE

npom

A brown bear cub is standing in shallow water, facing the camera. It has its right front paw raised, with its fingers spread, as if waving. Water droplets are visible around its paw and on its fur. The background is a blurred autumn forest with yellow and orange leaves.

WHY, HELLO THERE



@INDEXZERO

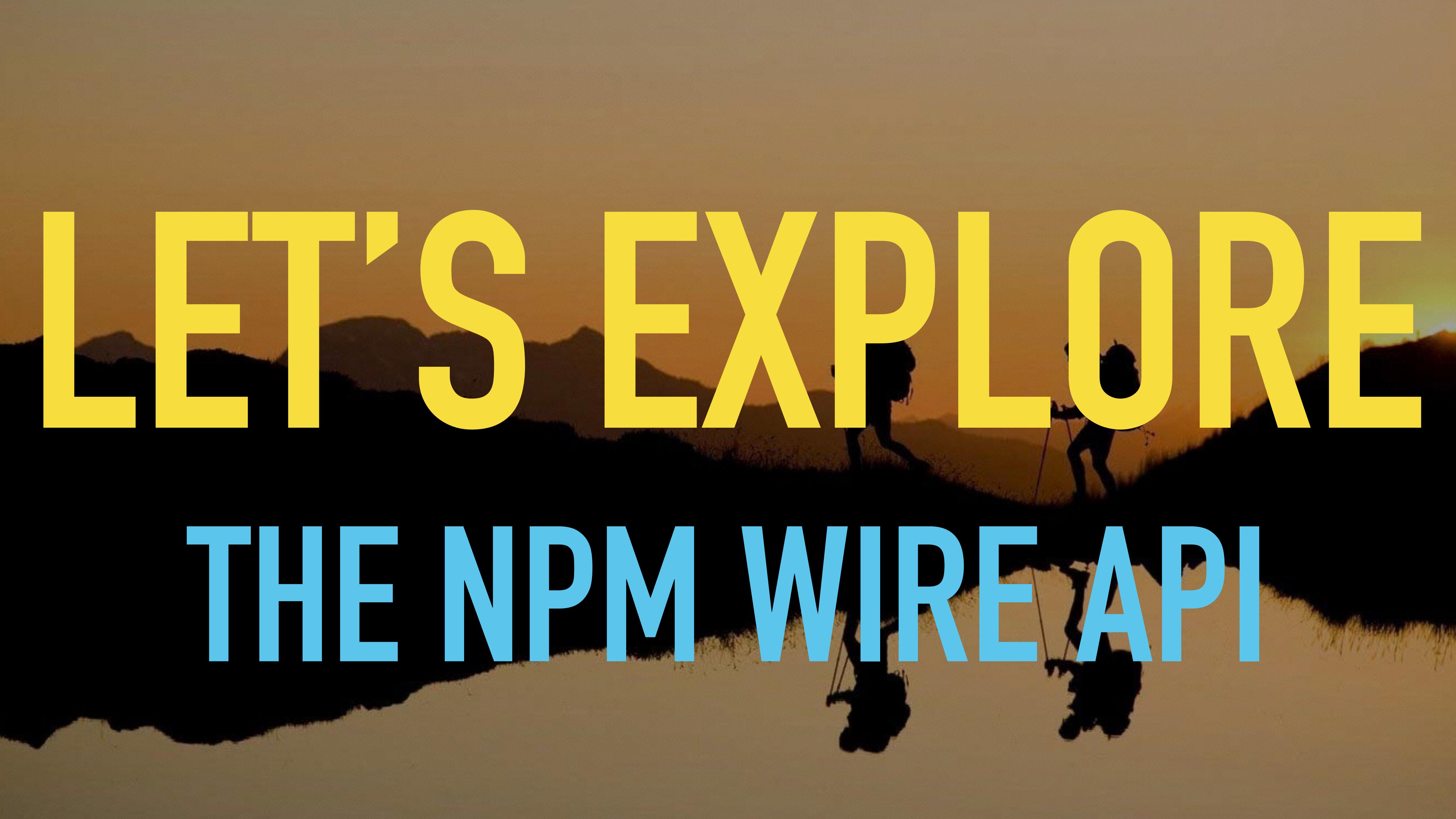
GITHUB

TWITTER



GoDaddy™



A silhouette of two people with backpacks and trekking poles walking through a field with mountains in the background at sunset. The sky is a warm orange and yellow.

LET'S EXPLORE
THE NPM WIRE API

QUATUOR
ELEMENTAE



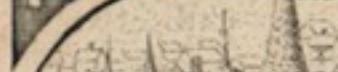
AER



AQUA



TERRA



QUATUOR
ANNI TEM
PESTATES



HISTORY



HISTORY WIRE API



HISTORY

WIRE API

IMPROVEMENTS



HISTORY





HISTORY

IN THE BEGINNING
... THERE WAS OPEN SOURCE

NPM-REGISTRY-COUCHAPP





NPM-REGISTRY-COUCHAPP

“THIS THING I HACKED TOGETHER IN A WEEKEND” — @mikeal



NPM-REGISTRY-COUCHAPP

“THIS THING I HACKED TOGETHER IN A WEEKEND” — @mikeal

REWRITES

Once upon a time

REWRITES



The screenshot shows a web browser window with the following details:

- Tab:** npm-registry-couchapp/rev
- Address Bar:** GitHub, Inc. [US] <https://github.com/npm/npm-registry-couchapp/blob/master/registry/rewrites.js#L88-L99>
- Toolbar:** Includes icons for back, forward, search, and various browser settings.
- Content Area:** Displays a block of JSON code representing rewrite rules for an npm registry. The code is highlighted with line numbers from 81 to 106. The highlighted section starts at line 88 and ends at line 105, covering rules for attachments, package updates, and version tags.

```
81
82     , { from: "/npm/public/registry/:pkg/_attachments/:att", to: ".../:pkg/:att", method: "GET" }
83     , { from: "/npm/public/registry/:pkg/_attachments/:att/:rev", to: ".../:pkg/:att", method: "PUT" }
84     , { from: "/npm/public/registry/:pkg/_attachments/:att/-rev/:rev", to: ".../:pkg/:att", method: "PUT" }
85     , { from: "/npm/public/registry/:pkg/_attachments/:att/:rev", to: ".../:pkg/:att", method: "DELETE" }
86     , { from: "/npm/public/registry/:pkg/_attachments/:att/-rev/:rev", to: ".../:pkg/:att", method: "DELETE" }
87
88     , { from: "/:pkg/-/:att", to: ".../:pkg/:att", method: "GET" }
89     , { from: "/:pkg/-/:att/:rev", to: ".../:pkg/:att", method: "PUT" }
90     , { from: "/:pkg/-/:att/-rev/:rev", to: ".../:pkg/:att", method: "PUT" }
91     , { from: "/:pkg/-/:att/:rev", to: ".../:pkg/:att", method: "DELETE" }
92     , { from: "/:pkg/-/:att/-rev/:rev", to: ".../:pkg/:att", method: "DELETE" }
93
94     , { from: "/:pkg", to: "/_update/package/:pkg", method: "PUT" }
95     , { from: "/:pkg/-rev/:rev", to: "/_update/package/:pkg", method: "PUT" }
96
97     , { from: "/:pkg/:version", to: "_update/package/:pkg", method: "PUT" }
98     , { from: "/:pkg/:version/-rev/:rev", to: "_update/package/:pkg"
99         , method: "PUT" }
100
101    , { from: "/:pkg/:version/-tag/:tag", to: "_update/package/:pkg"
102        , method: "PUT" }
103    , { from: "/:pkg/:version/-tag/:tag/-rev/:rev", to: "_update/package/:pkg"
104        , method: "PUT" }
105
106    , { from: "/-metadata/:pkg", to: "/_update/metadata/:pkg", method: "PUT" }
```

[HTTPS://SKIMDB.NPMJS.COM/_UTILS](https://skimdb.npmjs.com/_utils)



HTTPS://SKIMDB.NPMJS.COM/_UTILS

Apache CouchDB - Futon: Charlie

https://skimdb.npmjs.com/_utils/

Magicify Other Bookmarks

Overview

Create Database ...

Name	Size	Number of Documents	Update Seq
_replicator	4.1 KB	1	1
_users	24.1 KB	2	4
registry	3.3 GB	288122	1233856

Showing 1-3 of 3 databases

← Previous Page | Rows per page: 10 | Next Page →



CouchDB
relax

Tools

- Overview
- Configuration
- Replicator
- Status

Documentation

- Manual

Diagnostics

- Verify Installation

Recent Databases

HTTPS://SKIMDB.NPMJS.COM/_UTILS



Apache CouchDB - Futon: Charlie

https://skimdb.npmjs.com/_utils/

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← Previous Page | Rows per page: 10 | Next Page →

CouchDB relax

Tools

- Overview
- Configuration
- Replicator
- Status

THIS IS STILL RUNNING TODAY ... BUT IT IS NOW ONLY ONE PIECE.

NPM-REGISTRY-CLIENT



NPM-REGISTRY-CLIENT

The screenshot shows a GitHub repository page for 'npm-registry-client'. The repository has 377 commits, 16 branches, 140 releases, and 37 contributors. The latest commit was made 9 days ago. The repository has 22 watchers, 116 stars, and 70 forks. The 'Code' tab is selected. The repository URL is <http://npm.im/npm-registry-client>.

Branch: master [New pull request](#) [Create new file](#) [Upload files](#) [Find file](#) [Clone or download](#)

File	Commit Message	Time
lib	initialize: Limit maxSockets for client connections	4 months ago
test	initialize: Limit maxSockets for client connections	4 months ago
.gitignore	until we have tests, ignore linter config	2 years ago
.travis.yml	test: use containerized Travis, add Node 0.8	10 months ago



SINGLE
WRITE
PUBLISH



AND
THEN





AND
THEN

—CAME THE—

MICROSERVICES

CHEATING GALL'S LAW

speakerdeck.com/ceejbot/cheating-galls-law

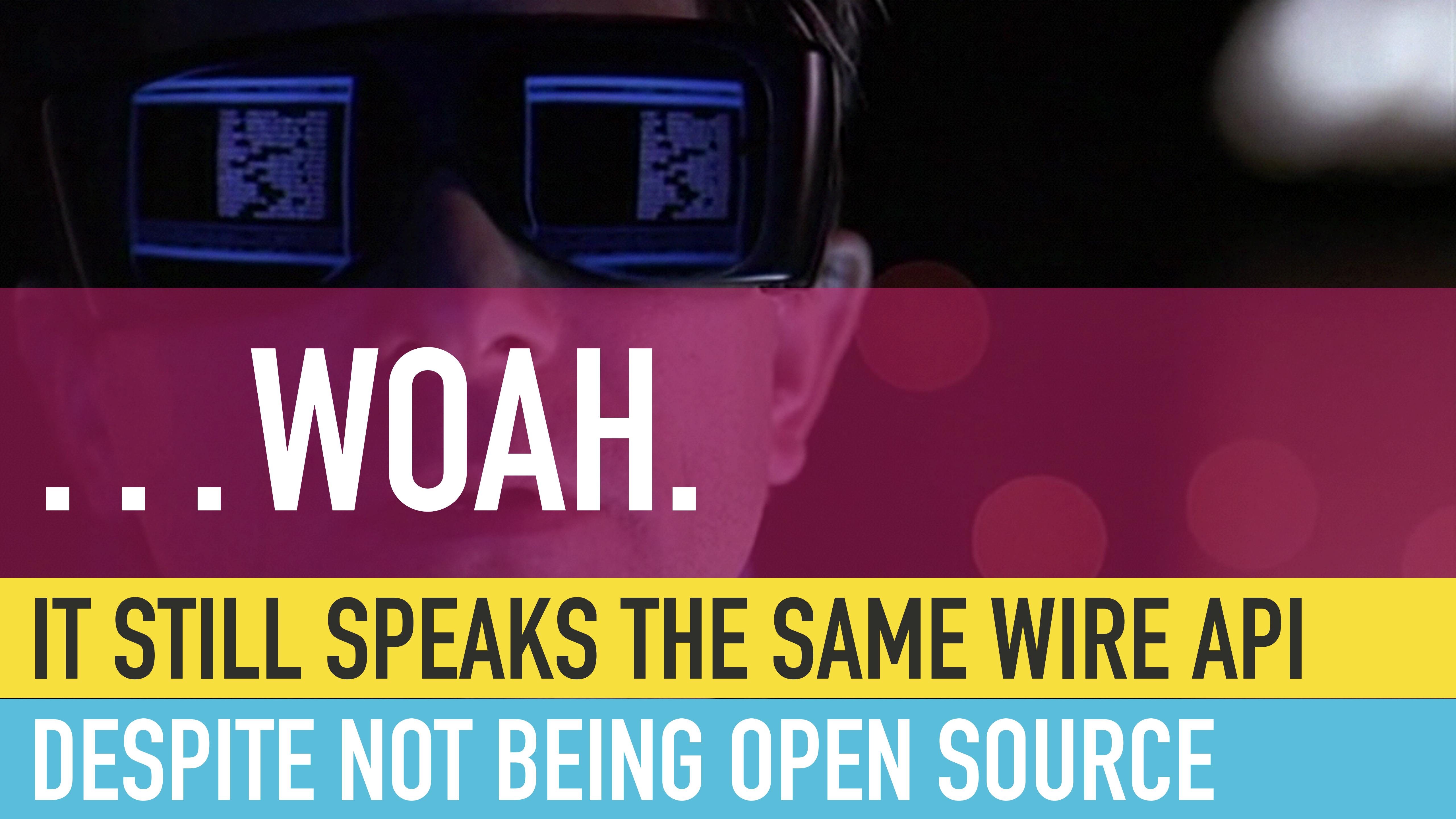




DESPITE NOT BEING OPEN SOURCE



**IT STILL SPEAKS THE SAME WIRE API
DESPITE NOT BEING OPEN SOURCE**

A person is wearing a VR headset, with two screens on the front showing a 3D environment. The background is dark, and the person's face is partially visible in profile.

...WOAH.

IT STILL SPEAKS THE SAME WIRE API

DESPITE NOT BEING OPEN SOURCE

NPM WIRE API



NPM WIRE API



NPM C SET LOGLEVEL INFO

npm view <pkg>

GET /:PKG



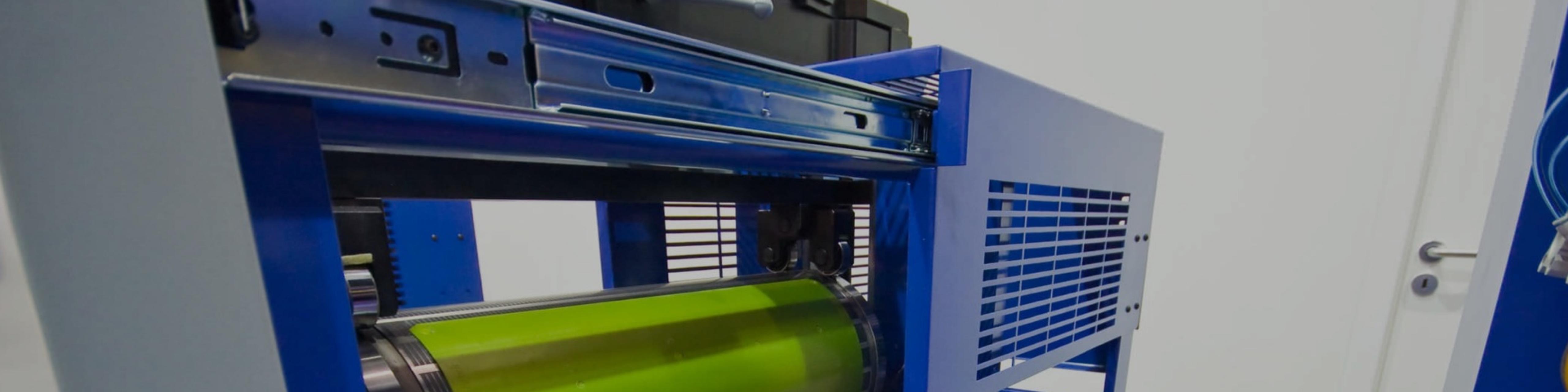
npm view <pkg>@<version>

GET /:PKG/:VERSION

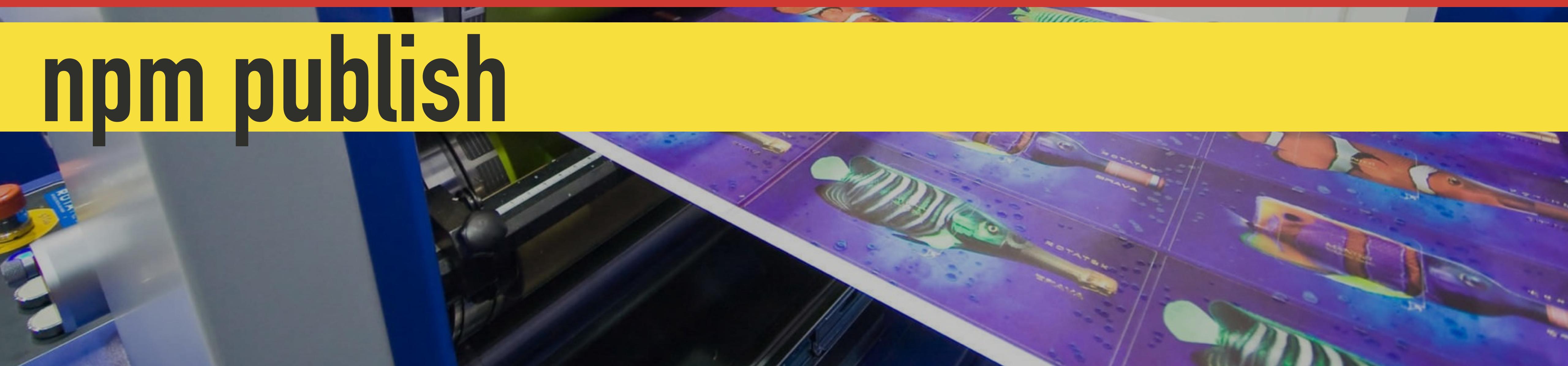


npm pack -g <pkg>

GET /:PKG/-/:ATT



PUT /:PKG



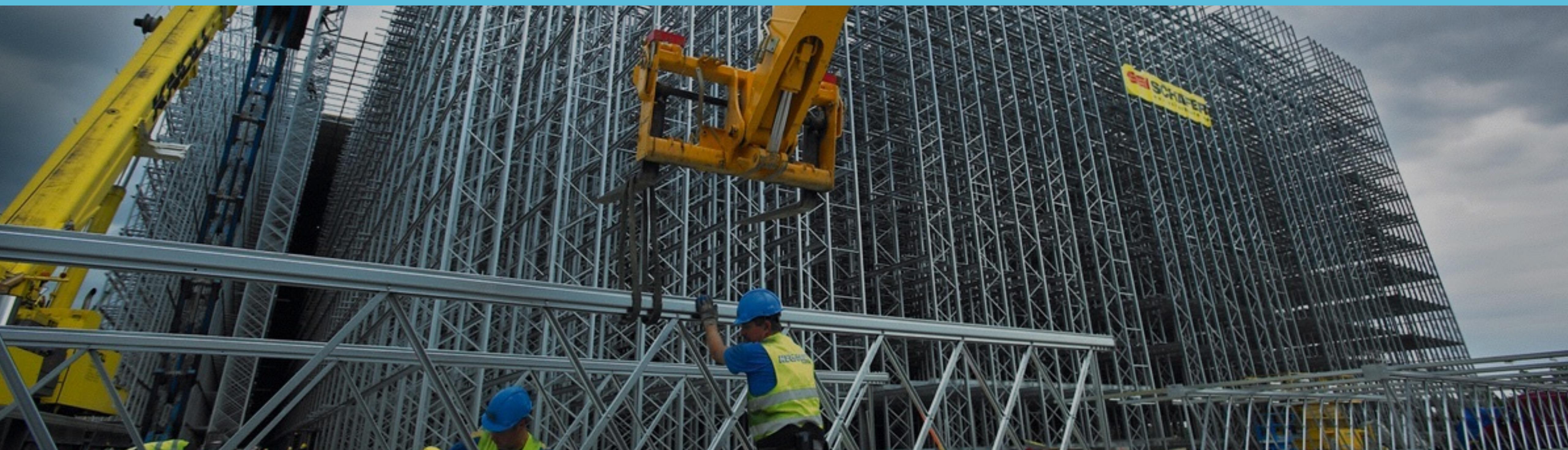
npm publish





NPM PUBLISH PAYLOAD

IMPROVEMENTS



API DOCUMENTATION

[HTTPS://GITHUB.COM/NPM/PUBLIC-API](https://github.com/npm/public-api)



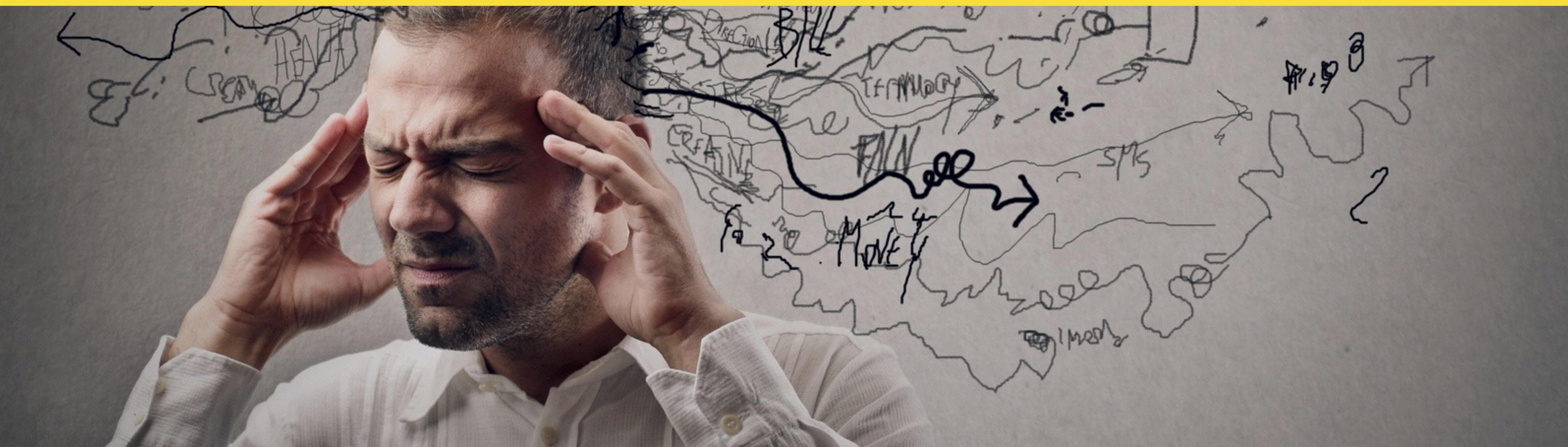


NPM-REGISTRY-CLIENT



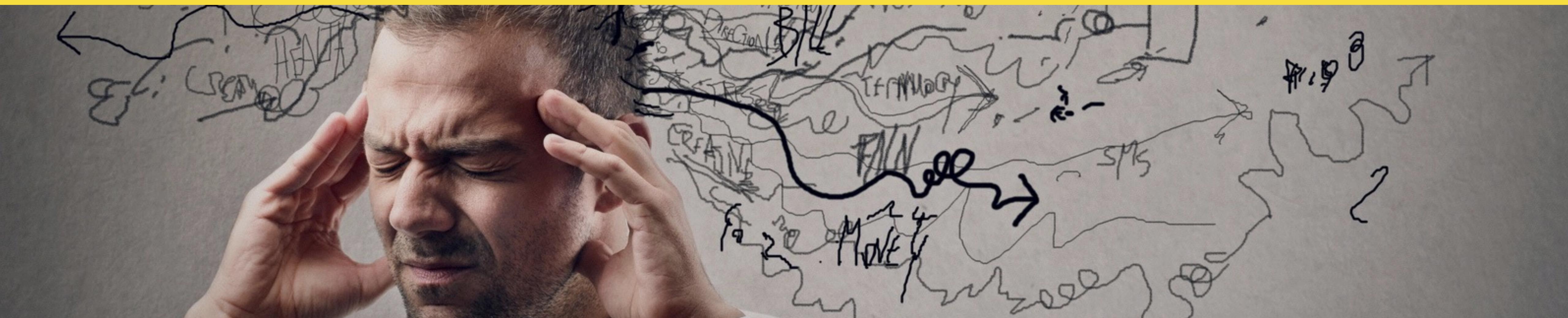
NPM-REGISTRY-CLIENT

IS PRETTY GOOD



NPM-REGISTRY-CLIENT

IS PRETTY GOOD



SEARCH FOR URL.RESOLVE

WAREHOUSEAI/ABSTRACT-NPM-REGISTRY



WAREHOUSEAI/ABSTRACT-NPM-REGISTRY



REUSABLE TEST SUITE FOR THE NPM API

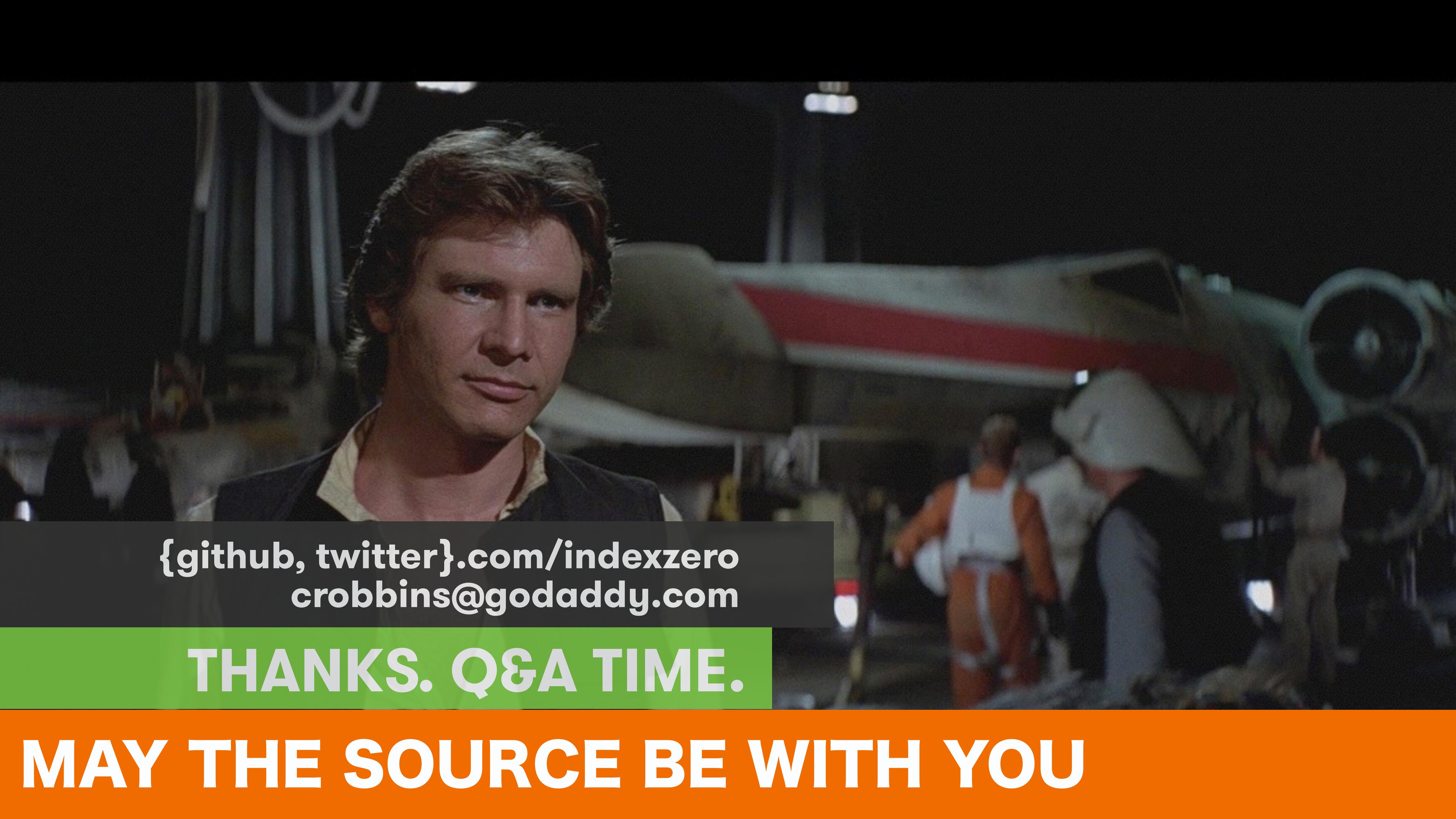
INSPIRED BY ABSTRACT-BLOB-STORE

WAREHOUSEAI/ABSTRACT-NPM-REGISTRY

CONTRIBUTE & LEARN!

REUSABLE TEST SUITE FOR THE NPM API

INSPIRED BY ABSTRACT-BLOB-STORE



{github, twitter}.com/indexzero
crobbins@godaddy.com

THANKS. Q&A TIME.

MAY THE SOURCE BE WITH YOU