# LIGHTWEIGHT **APIS WITH** HARVESTER.JS

Or how I learned to stop worrying and love Node.js APIs

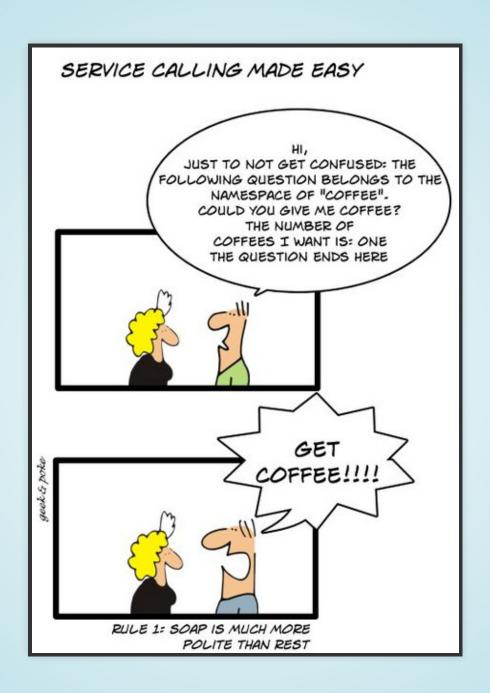
# DISCLAIMER

This presentation is a sales pitch

### THE WHY OF APIS

- simple
- composable
- scalable

on simplicity...



# THE WHY OF NODE.JS & MONGODB

- simple
- scalable
- expressive

# THE WHY OF JSONAPI

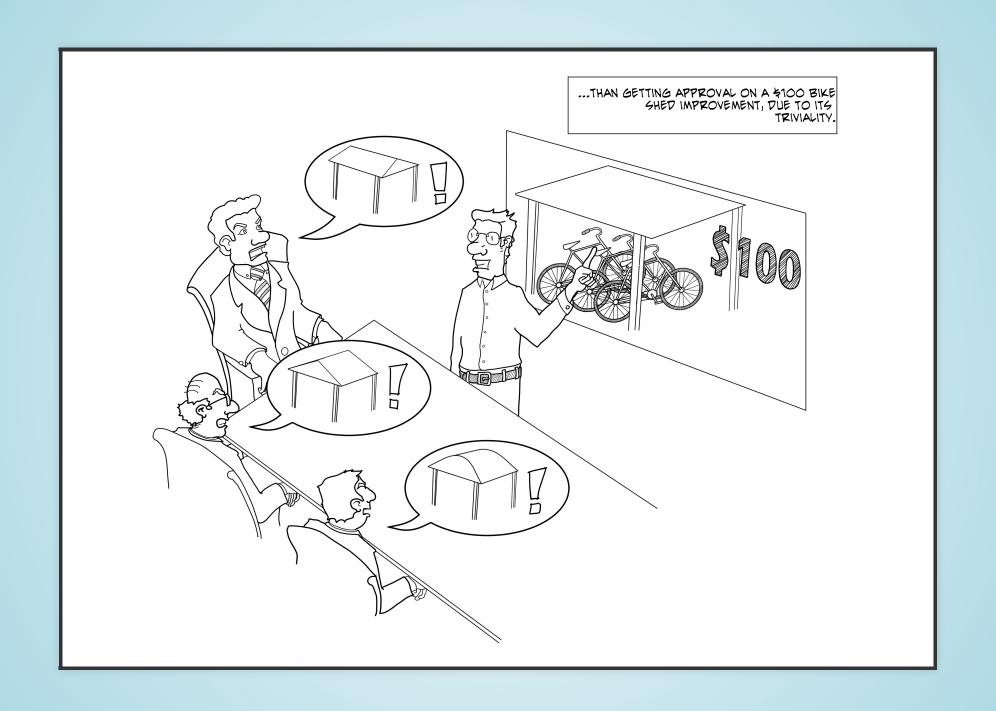
- existing, documented standard
- defines URL routing & payload formats
- no bikeshedding

on standards...

HOW STANDARDS PROLIFERATE: (SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.) 500N: 14?! RIDICULOUS! WE NEED TO DEVELOP ONE UNIVERSAL STANDARD SITUATION: SITUATION: THAT COVERS EVERYONE'S THERE ARE THERE ARE USE CASES. YEAH! 14 COMPETING 15 COMPETING STANDARDS. STANDARDS.

on bikeshedding...





#### THE WHY OF HARVESTER.JS

- all of the above +
- no magic
- no boilerplate

on harvester.js...

# THE WHAT OF HARVESTERJS

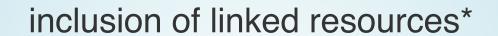
- an AGCO-backed open-source project
- a clone of fortune.js
- a routing/mapping library
- an npm package

enough talk, show me the code!

basic CRUD, out of box

resource relationships\*

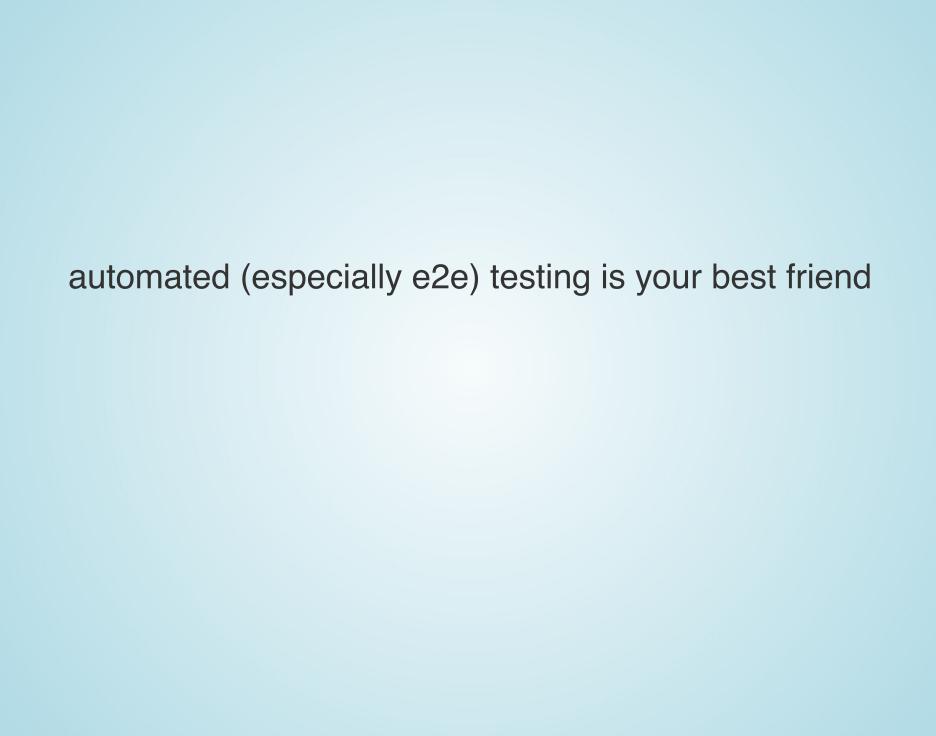
filtering\*



# **BUT WAIT, THERE'S MORE!**

- sparse fieldsets\*
- sorting\*
- errors\*
- offset-based pagination
- node-swagger-express ready

# LESSONS FROM THE TRENCHES...



devops practices as enablers

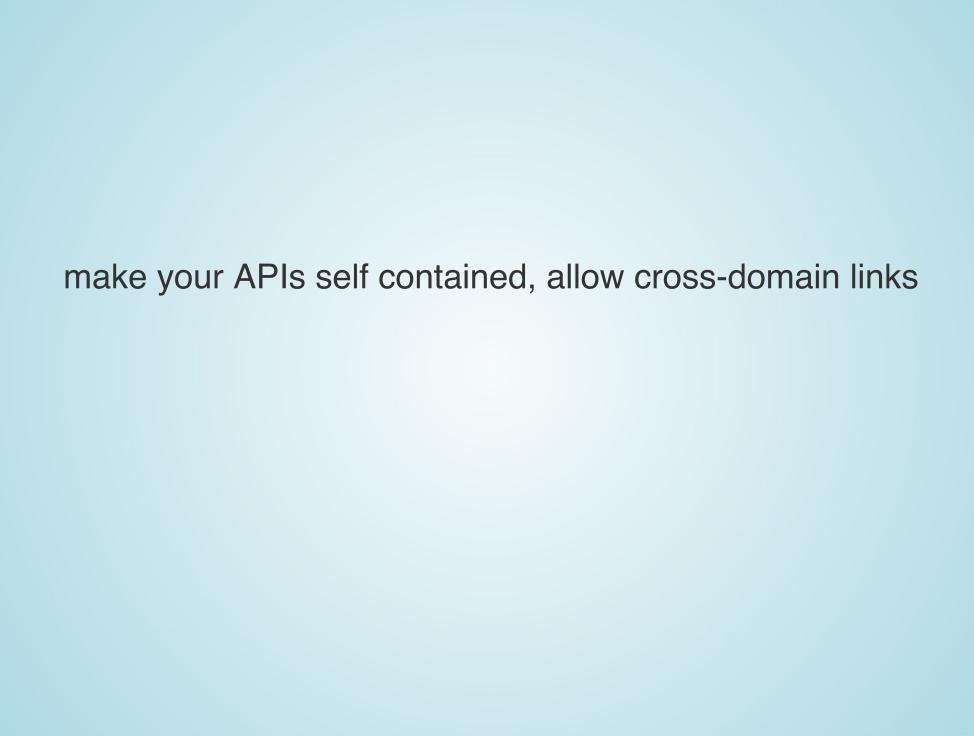
break the heavy, bloated cycle

fullstack js: great, but no silver bullet

promises: easy to make, hard to keep. definitely worth it, though

the hard art of chosing who handles more complex operations

entity relationship: DDD FTW



#### consider indexing across APIs

#### EXTENDING HARVESTER.JS

- elastic-harvesterjs: harvester.js meets ElasticSearch
- passport-openam
- event-source-stream
- to-do: a DSL for v2.0

tks.

### INFO

- presentation libs: reveal.js and reveal-md (runtime)
- comics by Geek and Poke, XKCD, and Diogo Lucas (respectively)
- join our lean coffe meetings: http://portoalegre.leancoffee.org/
- Diogo's contacts: http://about.me/diogo.lucas