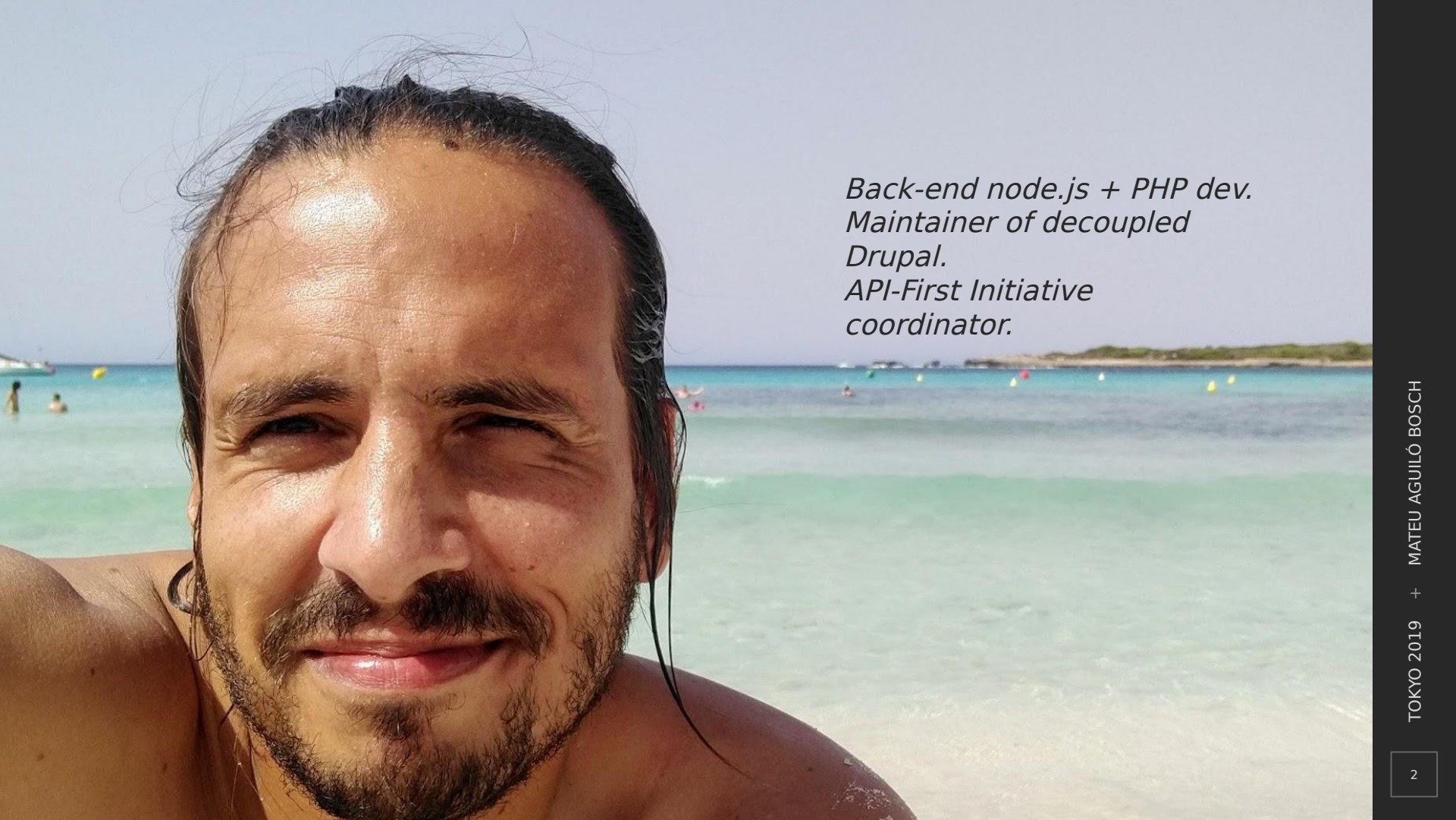


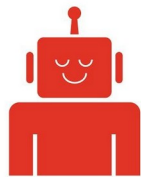
MATEU AGUILÓ BOSCH

A node.js proxy between Drupal and your consumers



*Back-end node.js + PHP dev.
Maintainer of decoupled
Drupal.
API-First Initiative
coordinator.*

*Strategy, design, and
Drupal development
for large-scale
publishers.*



Lullabot

What we'll cover

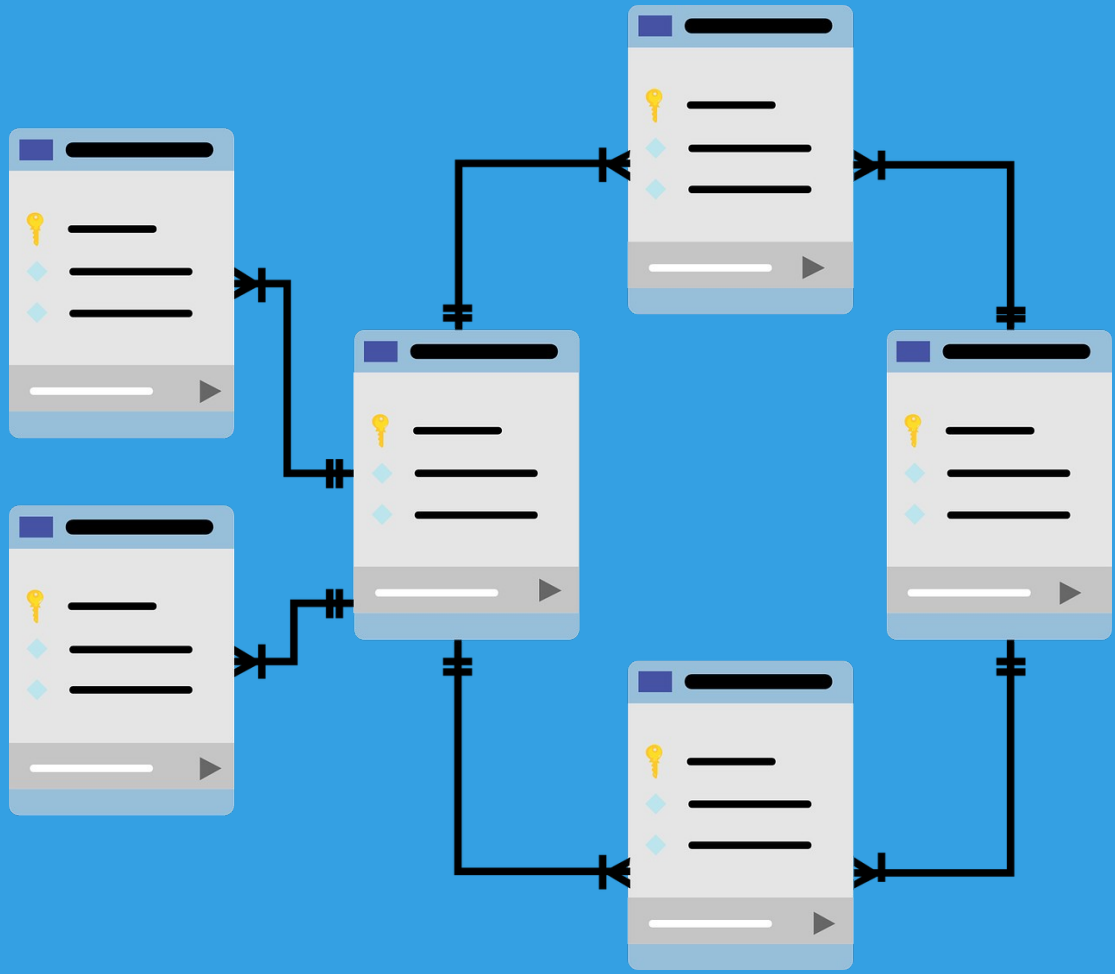
- ★ The powerful abstractions
- ★ The benefits of a proxy
- ★ The abstraction of your proxy

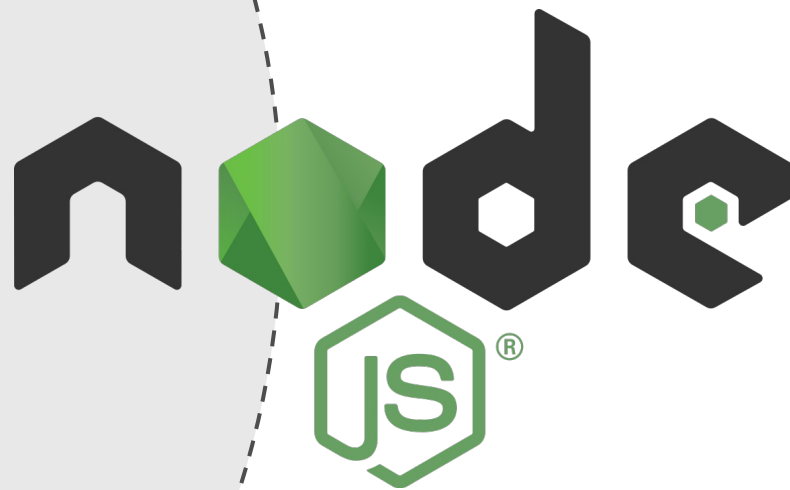
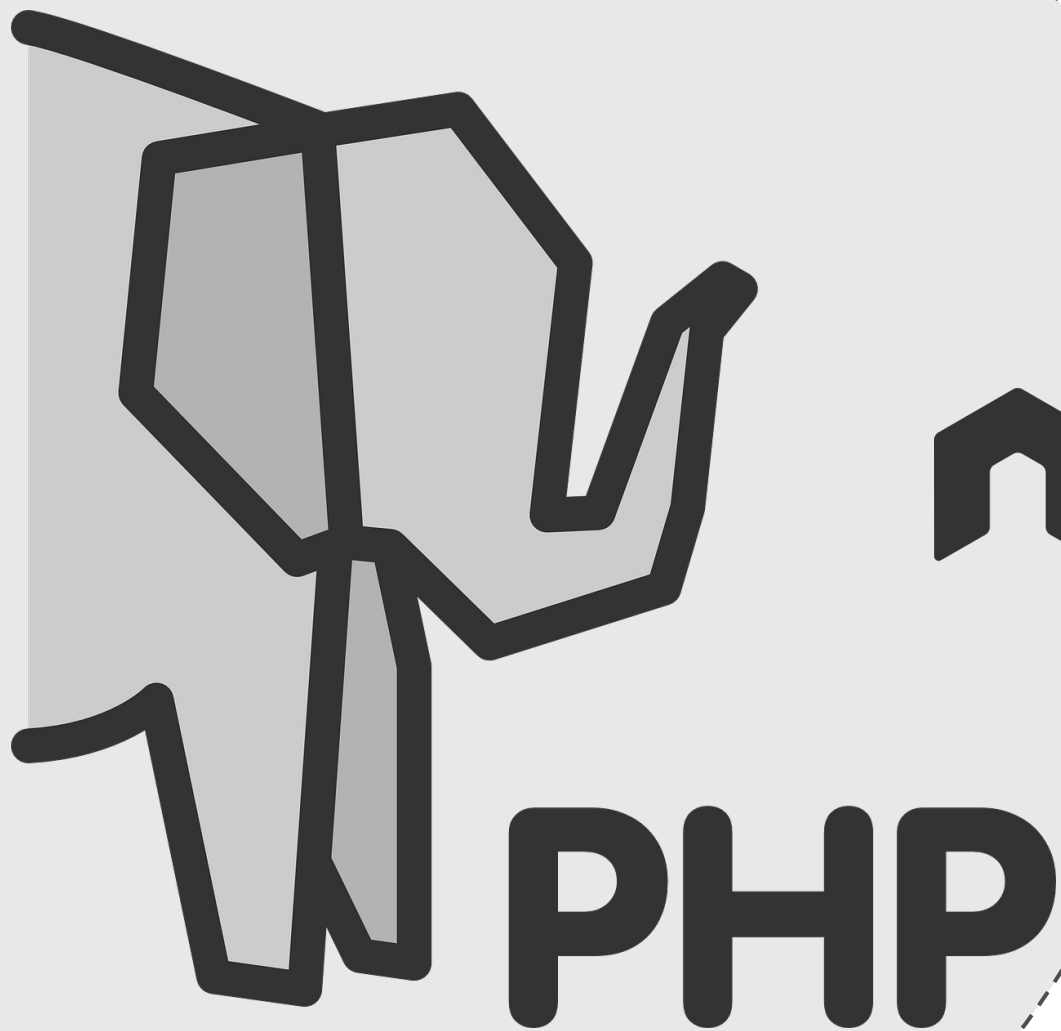
OUR JOB IS BASED ON ABSTRACTIONS

What goes into an HTTP request?

`fetch(url: string): Promise`

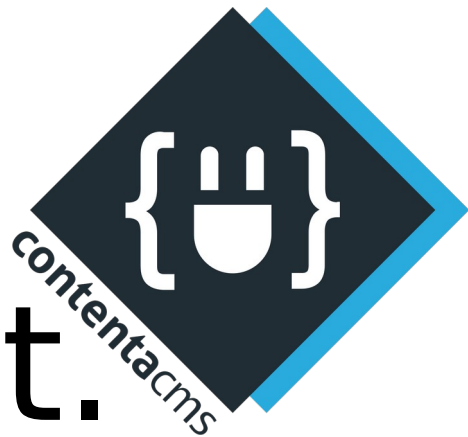






THE POWERFUL ABSTRACTIONS

Your ~~content~~
~~repository~~
Drupal is
already
abstracted out.



THE POWERFUL ABSTRACTIONS

Abstractions

- ★ Content repository (R&W) - *JSON:API*.
- ★ API customizations - *JSON:API Extras*.
- ★ OAuth 2 authorization - *Simple OAuth*.
- ★ Remote tasks - *JSON-RPC*.
- ★ Performance - *Subrequests, Consumer Image Styles, JSON:API Boost*.
- ★ Application enablers - *JSON:API Hypermedia, JSON:API Schema*.
- ★ Automatic documentation - *Open API*.

*What about the
rest of the
stack? Can we
provide helpful
abstractions?*



THE POWERFUL ABSTRACTIONS

I advocate for all decoupled **Drupal** back-ends to be **primarily** a **node.js** application.

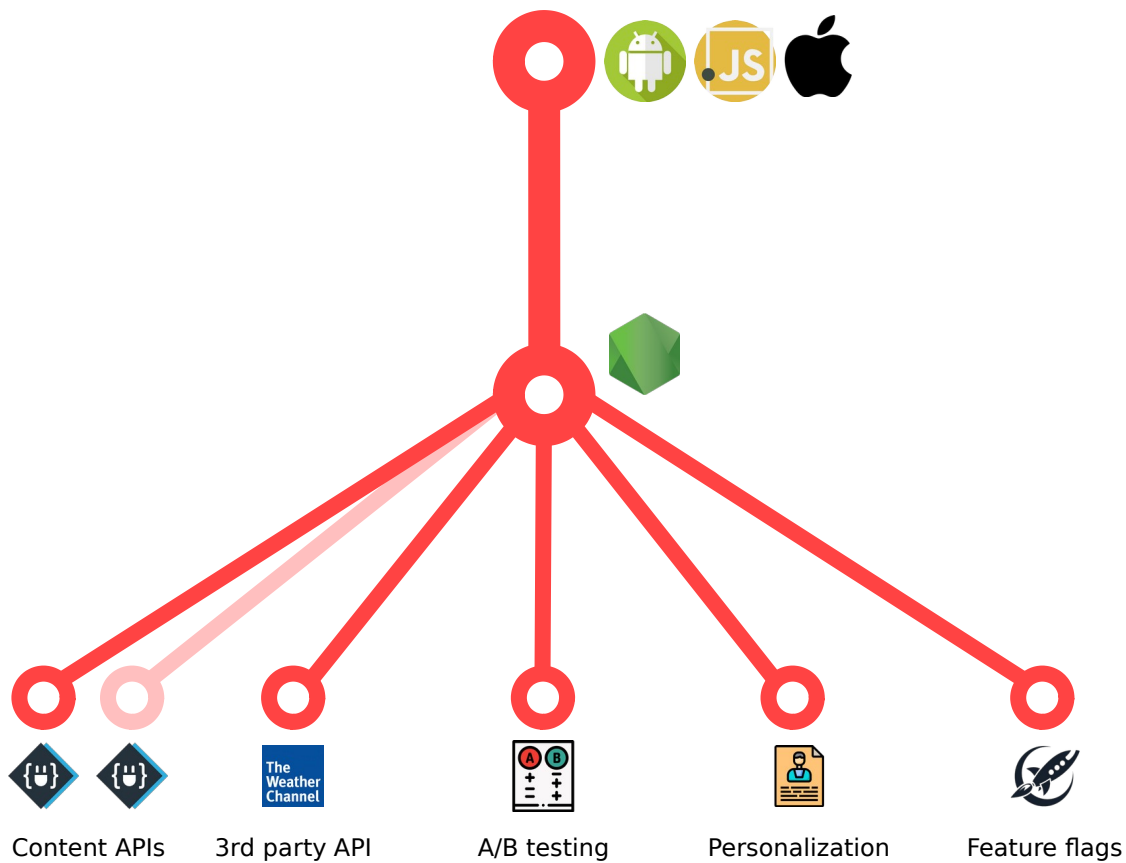
Why node.js?

A seagull with white and grey feathers and a yellow beak is perched on a rugged, grey rock formation. The rock has some green moss or small plants growing on it. The background is a clear, deep blue sky. The overall scene is bright and clear.

Photo by [Patrick Perkins](#) on [Unsplash](#)

THE BENEFITS OF A PROXY

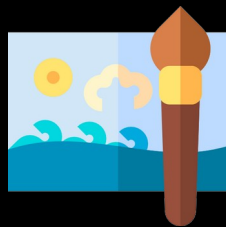
Flexibility



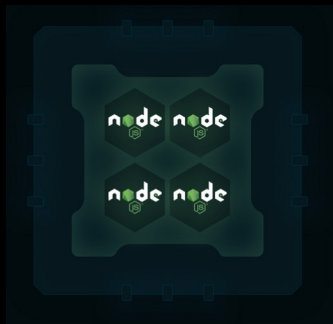
Performance



Non-blocking I/O



Server side rendering



**Stateless applications scale
better**

Security

Private connexion between node.js and Drupal

Stay private

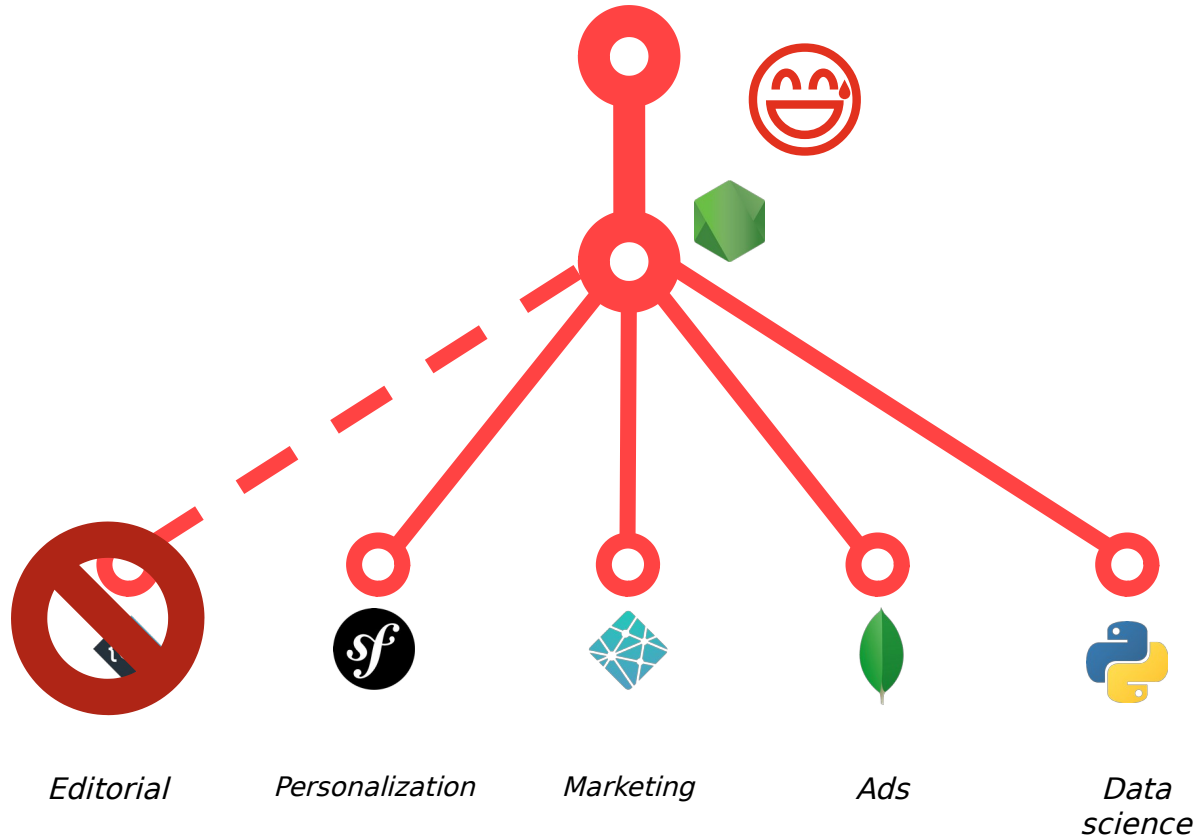
- ★ `/admin/*`
- ★ `/node/*`
- ★ `/user/login/*`
- ★ `/devel/php`
- ★ “Insecure” contribs: query string params, forms, access bypass, information disclosure, ...
- ★ “Insecure” core.

Robustness

Robust flexibility

THE BENEFITS OF A PROXY

STATUS:



Allows each team to
exercise their
domain expertise.



Don't force a fight

Photo by [CloudVisual](#) on [Unsplash](#)

THE BENEFITS OF A PROXY

A black and white photograph featuring three LEGO Star Wars minifigures. Two Stormtroopers are in the center-left, one standing and the other in mid-air as if being thrown or falling. In the bottom right, a small Darth Vader minifigure stands looking up. The background is dark and out of focus, with some light bokeh. The text 'Don't fight a force' is overlaid in a large, white, sans-serif font, with the words 'Don't' and 'a' crossed out by horizontal lines.

~~Don't~~ fight
~~a~~ force

OUR JOB IS BASED ON ABSTRACTIONS

GitHub

contentacms/contentajs

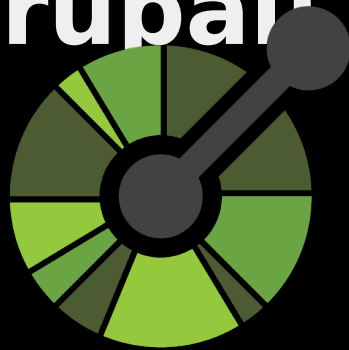
The auto-generated proxy: based on OpenAPI.

APIs form the connecting glue between modern applications [...]. Creating an open description format for API services that is vendor neutral, portable and open is critical to accelerating the vision of a truly connected world.

— The OpenAPI Initiative, open governance structure under the Linux Foundation

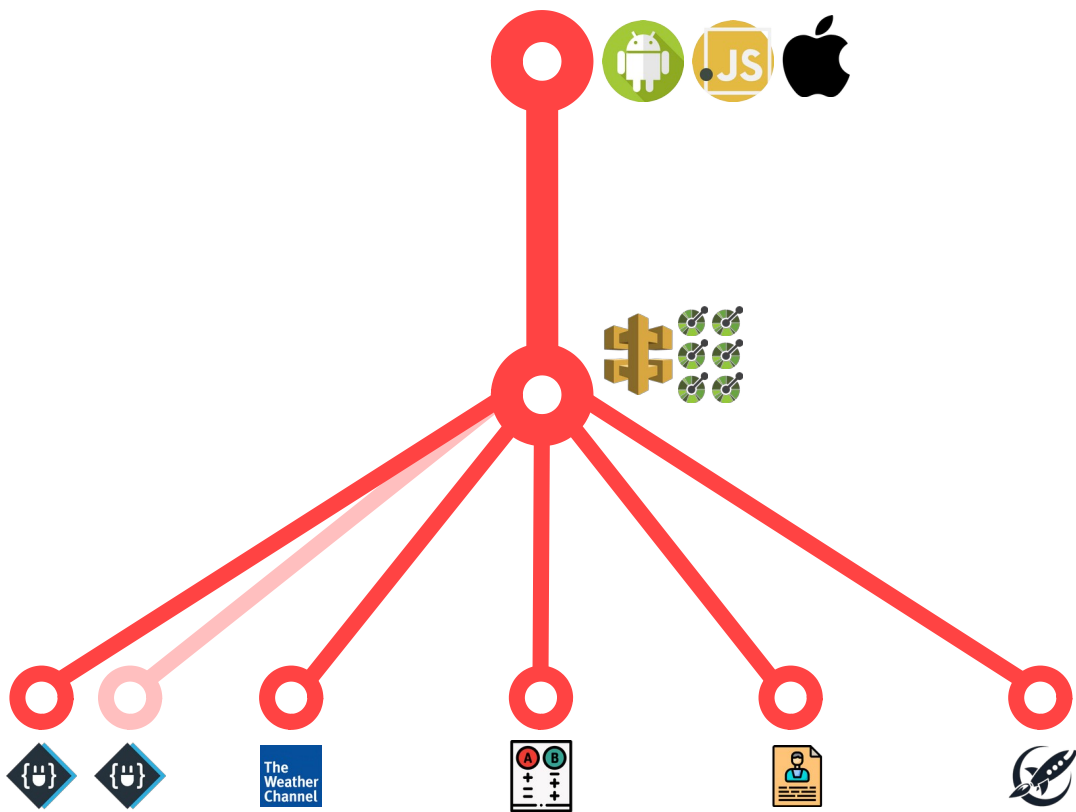
**On server start we
download the OpenAPI
document from Drupal.**

- Schema**
- Routing**



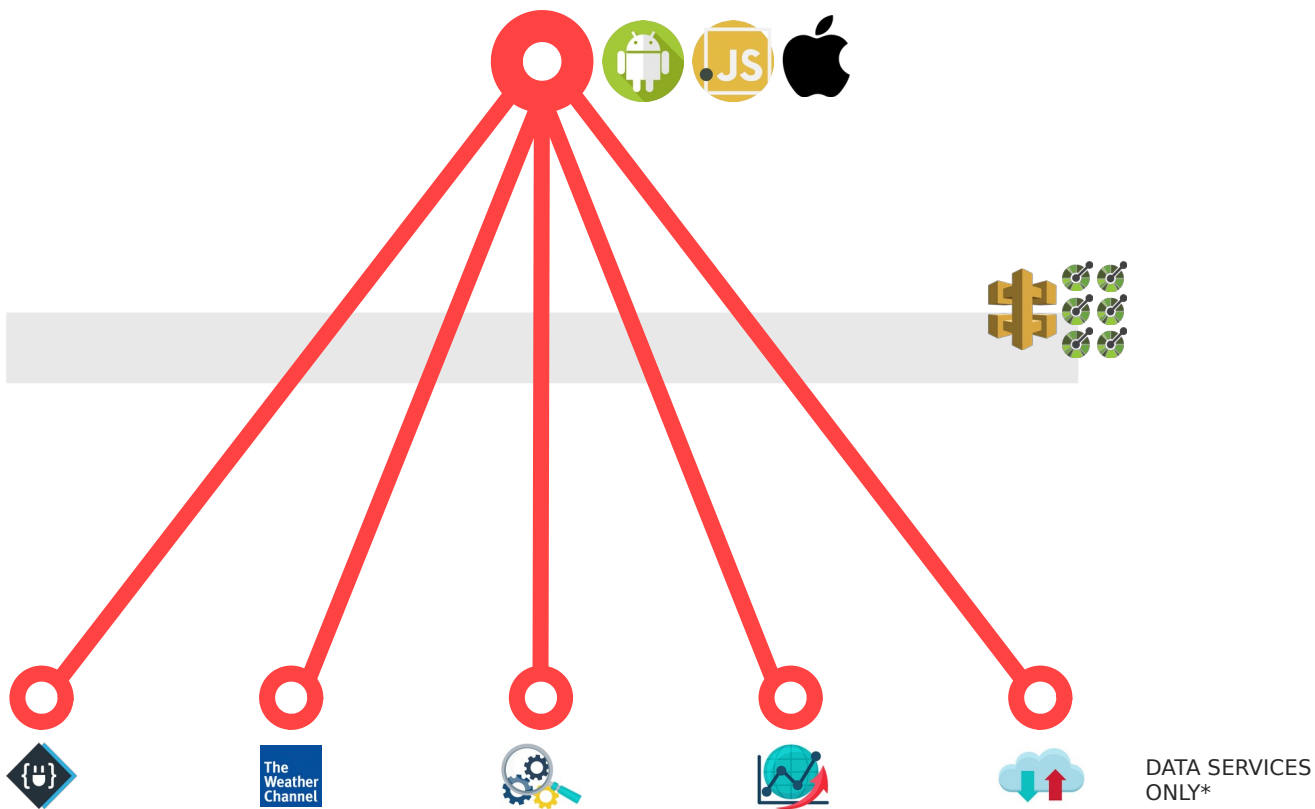


*“But why not just
AWS API Gateway?”*



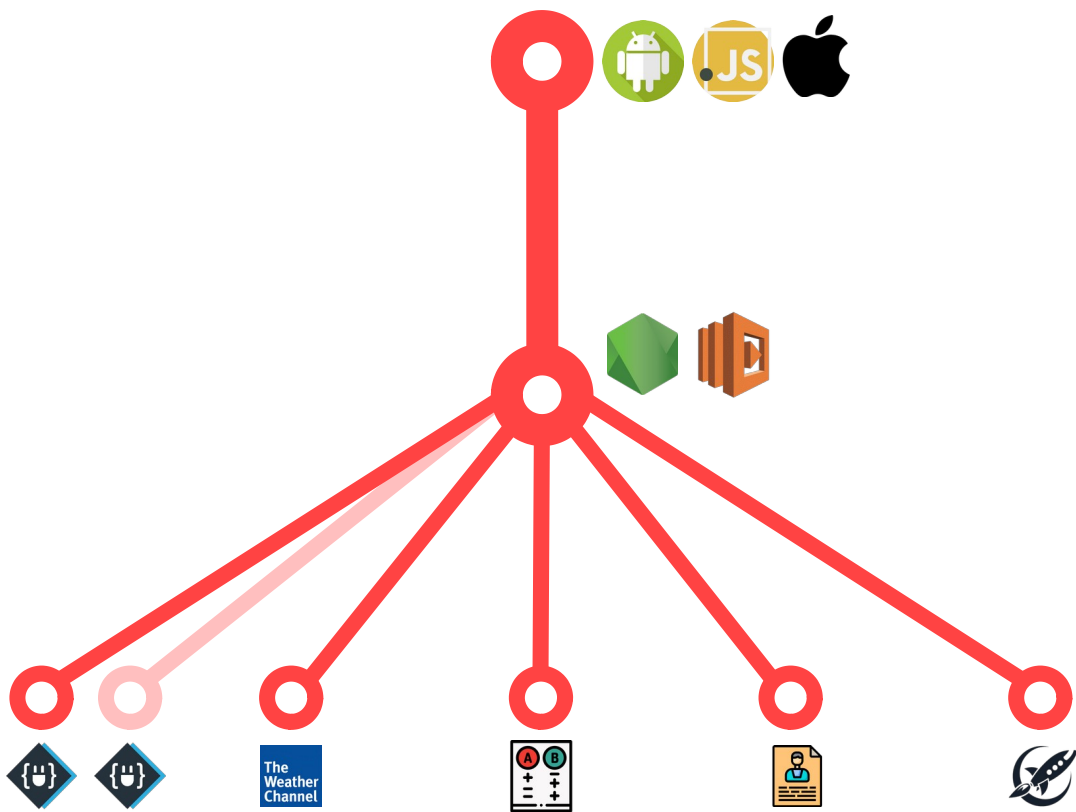
No custom computations












**Would I use
this pattern
everywhere?**



thanks!