How to keep Drupal relevant in the Git-based and API-driven CMS era

#BADCamp

by Jesus Manuel Olivas / weKnow

weKnow

$ whoami

Jesus Manuel Olivas

jmolivas@weknowinc.com

🐦 jmolivas

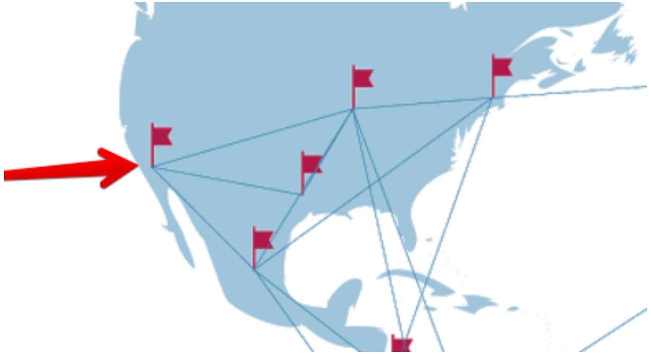
jmolivas

drupal.org/u/jmolivas

jmolivas.weknowinc.com

weKnow

$ ifconfig



Mexicali

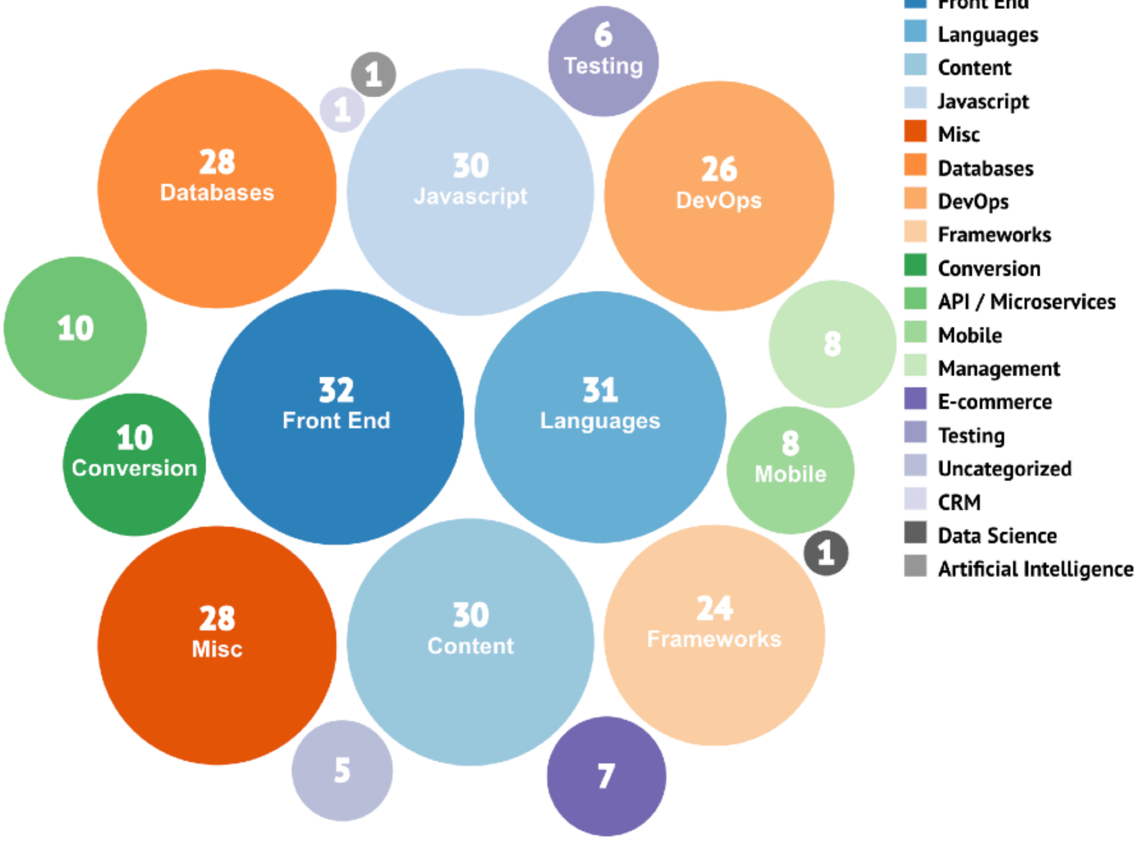
Mexico + **Cali**fornia

Calexico

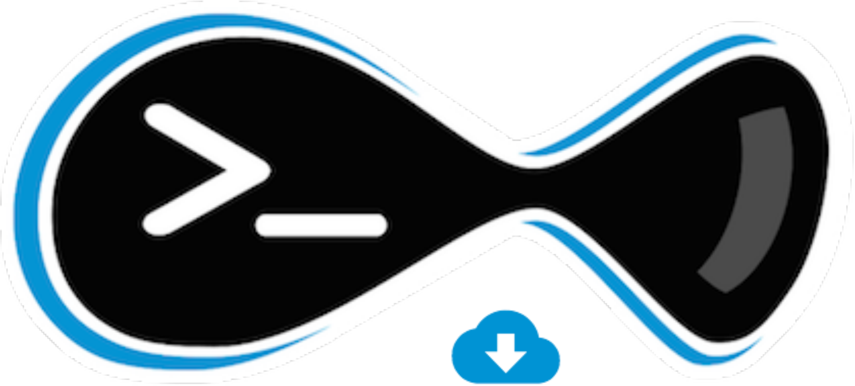
California + M**exico**

weAre

weKnow


6
Testing
1
1
28
Databases
30
Javascript
26
DevOps
10
8
32
Front End
31
Languages
10
Conversion
8
Mobile
1
28
Misc
30
Content
24
Frameworks
5
7
Front End
Languages
Content
Javascript
Misc
Databases
DevOps
Frameworks
Conversion
API / Microservices
Mobile
Management
E-commerce
Testing
Uncategorized
CRM
Data Science
Artificial Intelligence

weGive



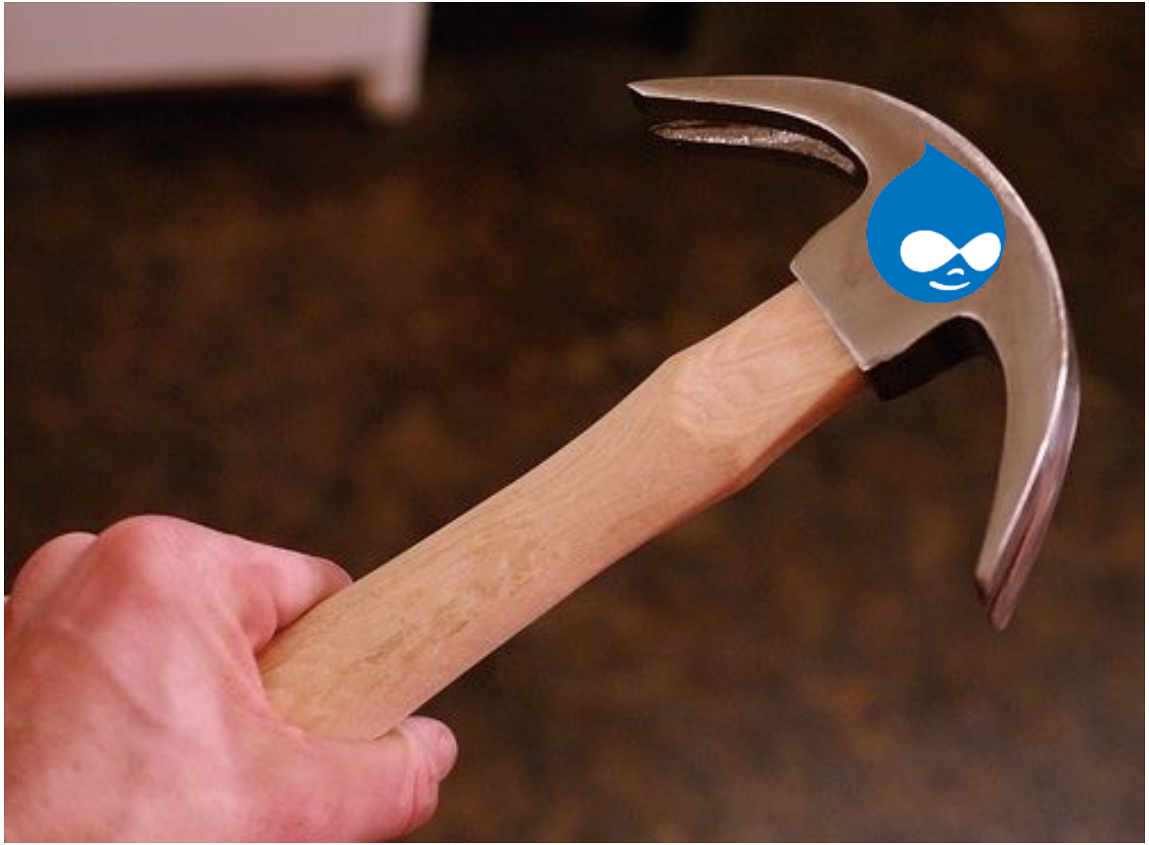
2,572,697

Drupal … Drupal … Drupal

“

When all you have is a hammer, everything looks like a nail.

”



Traditional Monolithic CMS

Decoupling the frontend

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Traditional Monolithic CMS + Particle (Design System)

The Traditional Headless

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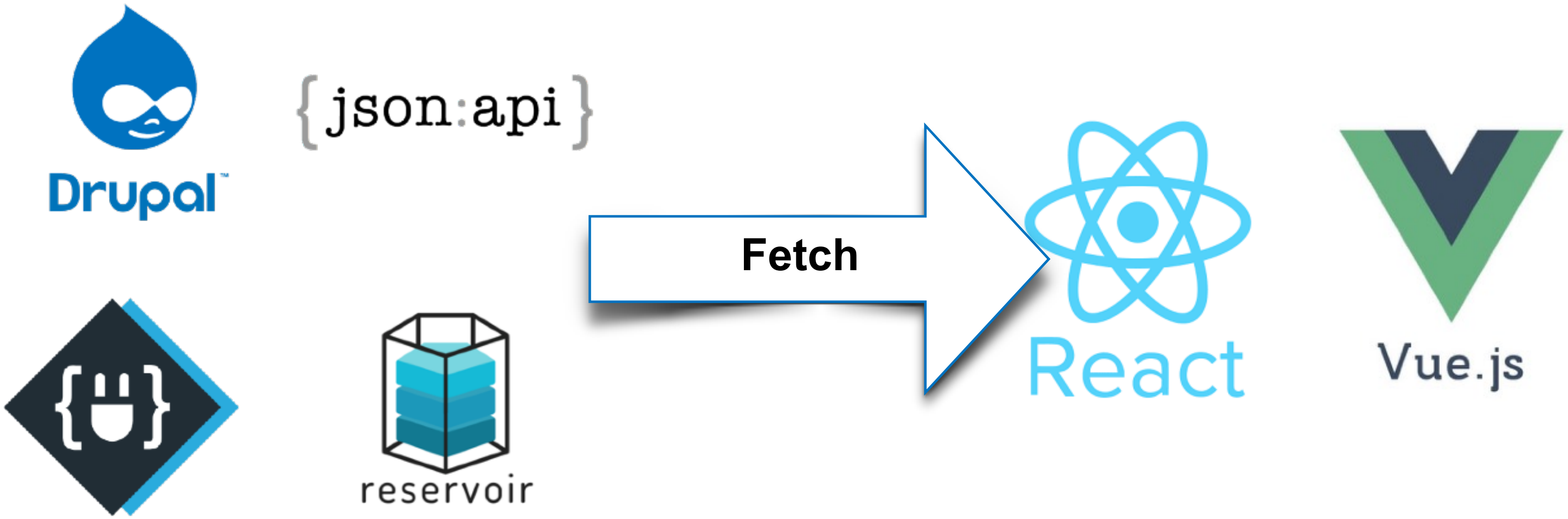
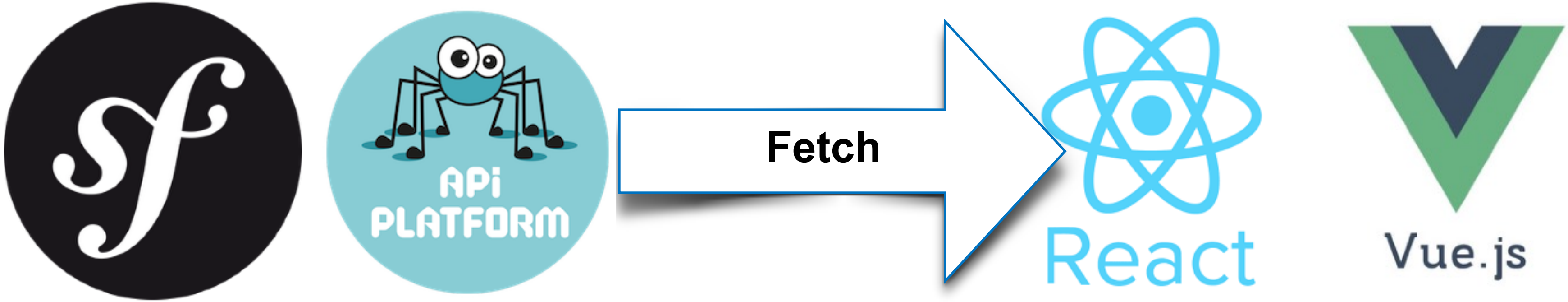
Drupal Headless API + Front-end library



Symfony API + Front-end library



Fetch

Challenges

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Challenges

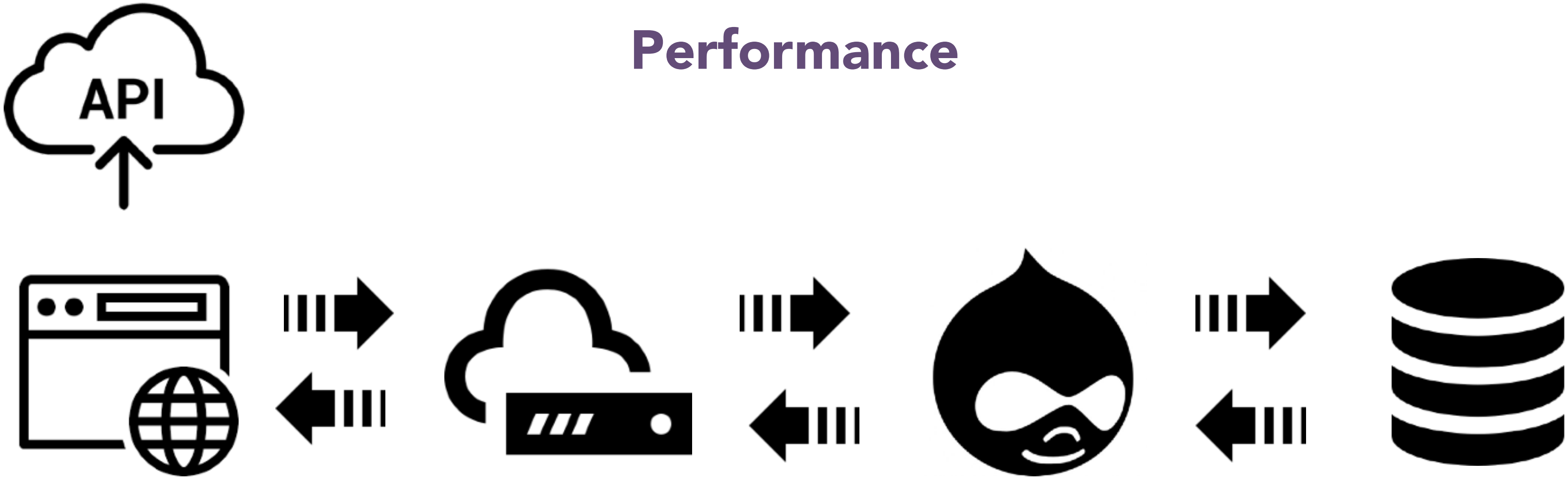
> Performance

> Reliability

> Security

> Hosting

Performance



Visitor

Server

CMS

Database

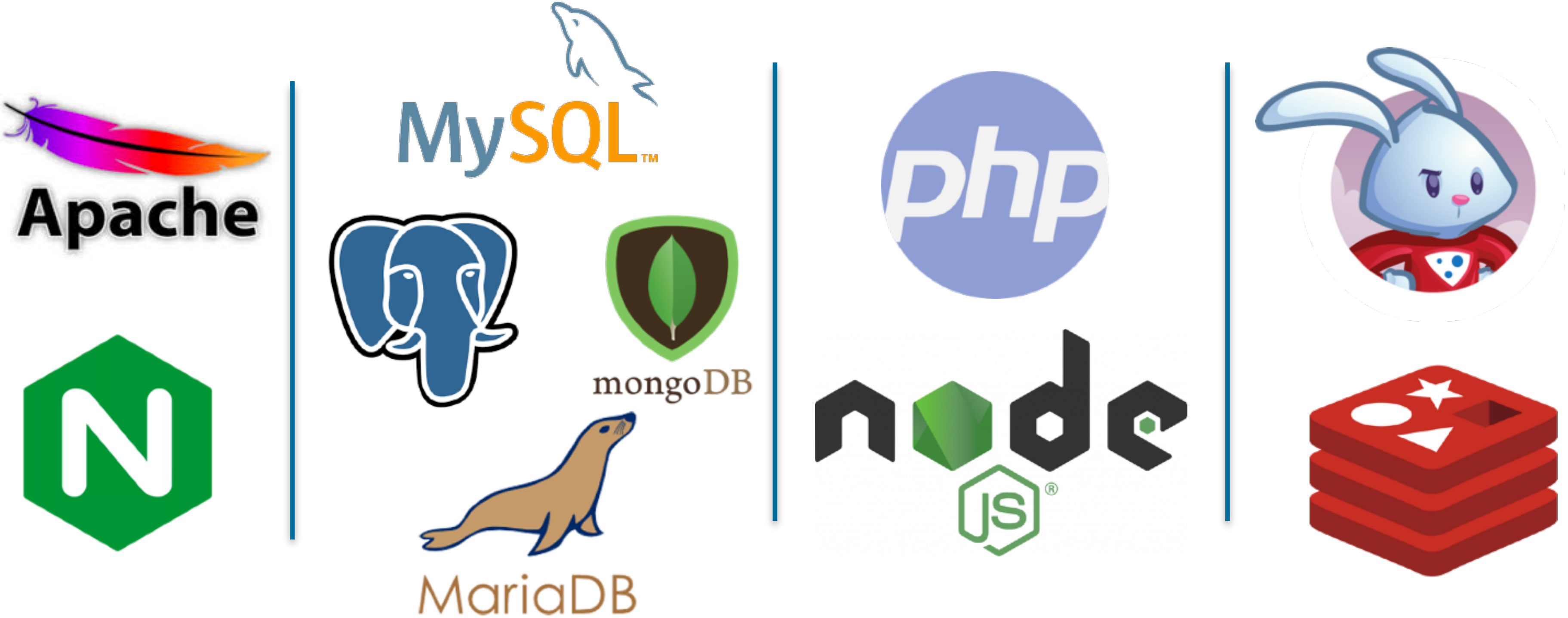
Reliability - The Traditional Stack

Apache
MySQL
MariaDB
php

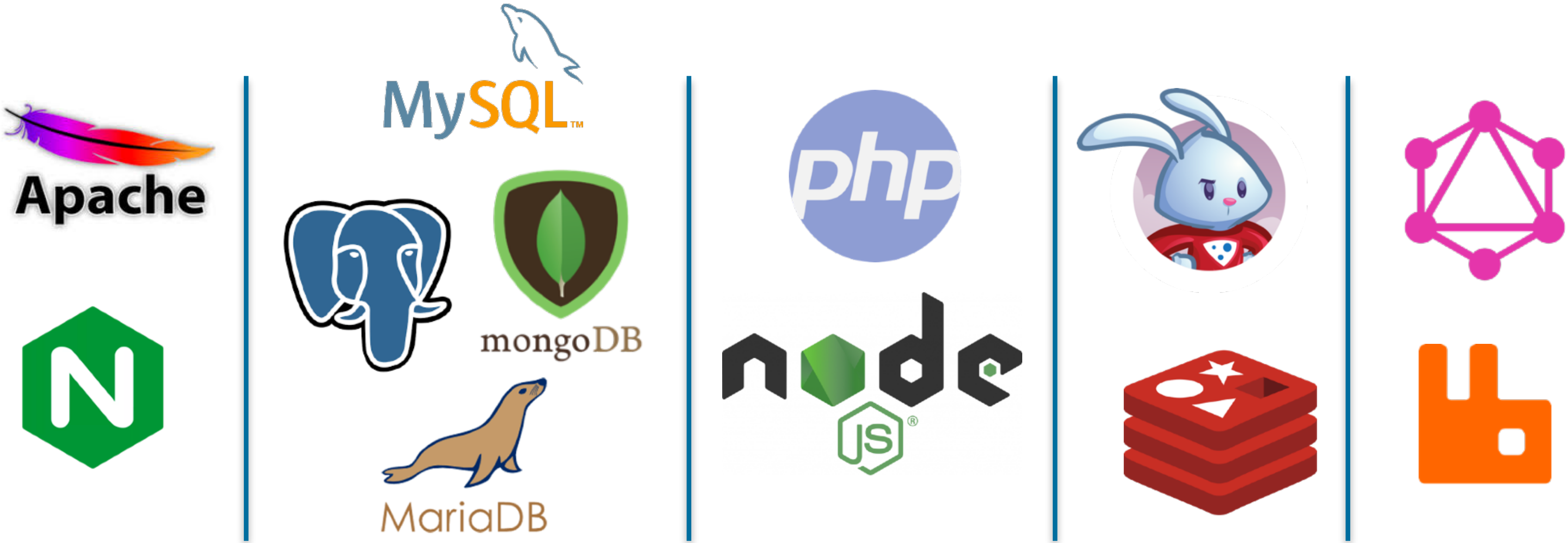
Reliability - The Traditional Stack

Apache
MySQL™
MariaDB
php

Reliability - The Headless Stack



Reliability - A more advanced Stack



Security

> System dependencies

> Stack dependencies

> Platform dependencies core

> Custom modules dependencies hosted

> Third party libraries hosted

Hosting

> Managing a complicated stack is not easy.

> Requires knowledge of managing servers, databases, cache, DNS, backups, automation, and much more.

> The more complex your stack is to support your production site, the more expensive it becomes.

PaaS Headless CMS

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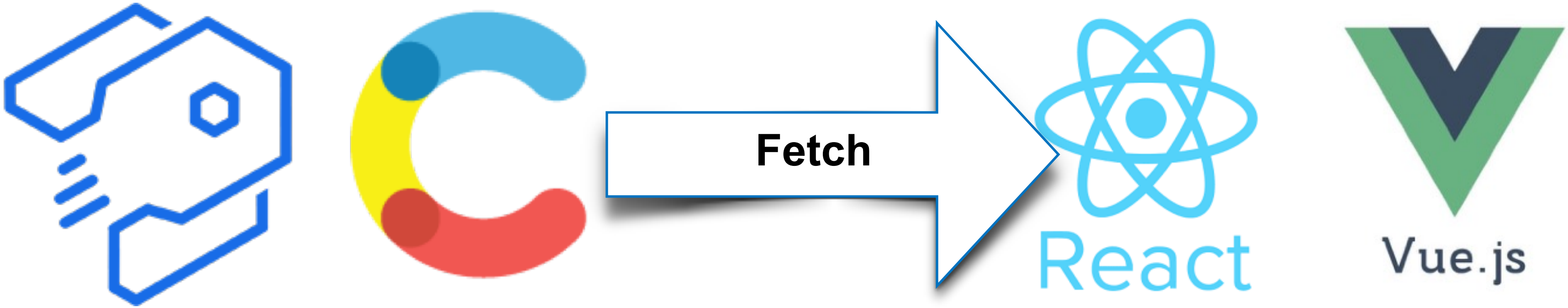
Strapi, Contentful (PaaS) + Front-end library



Fetch

Back to the flat-files

“Everything old is new again”

git-based

HUGO
A Fast & Modern Static Website Engine

Improving the UX providing a GUI when using a Git-based CMS.

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git-based + UI using a PaaS

GravCMS Flat Files + Particle (Design System)

Using Drupal to provide a GUI and content for a Git-based/API-driven CMS.

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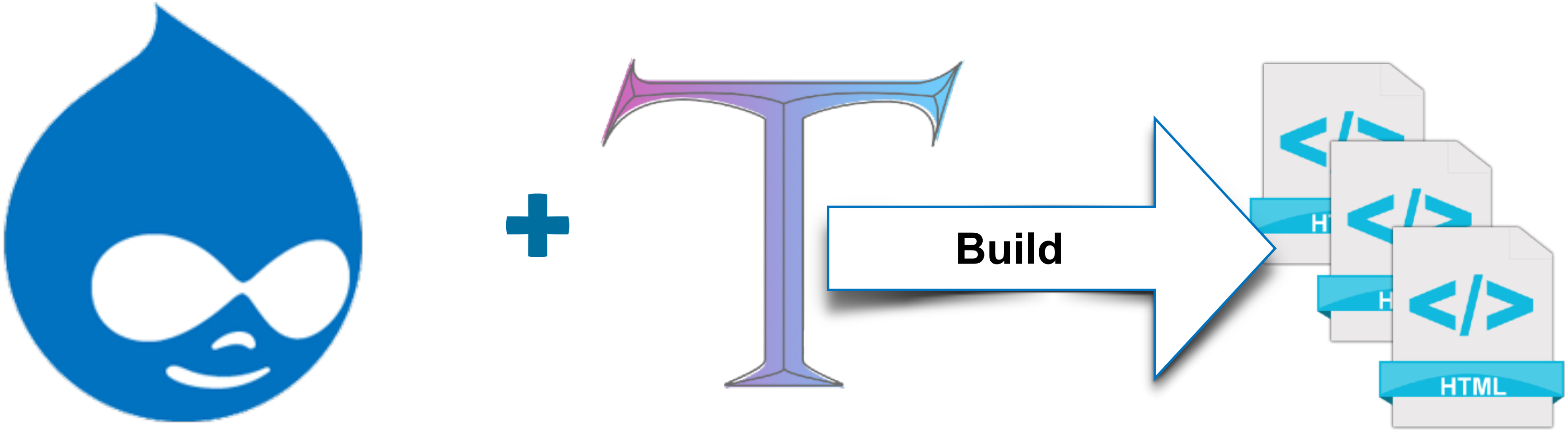
Drupal CMS + Tome to export as Flat Files



Decoupling the "Content Management GUI" from the “Production Environment".

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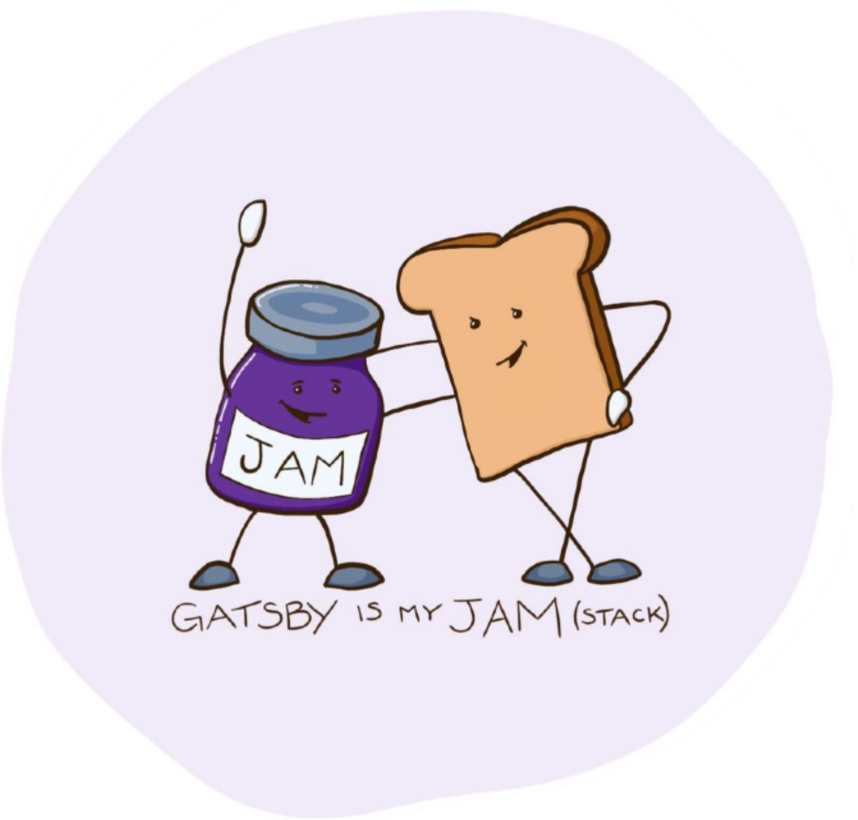
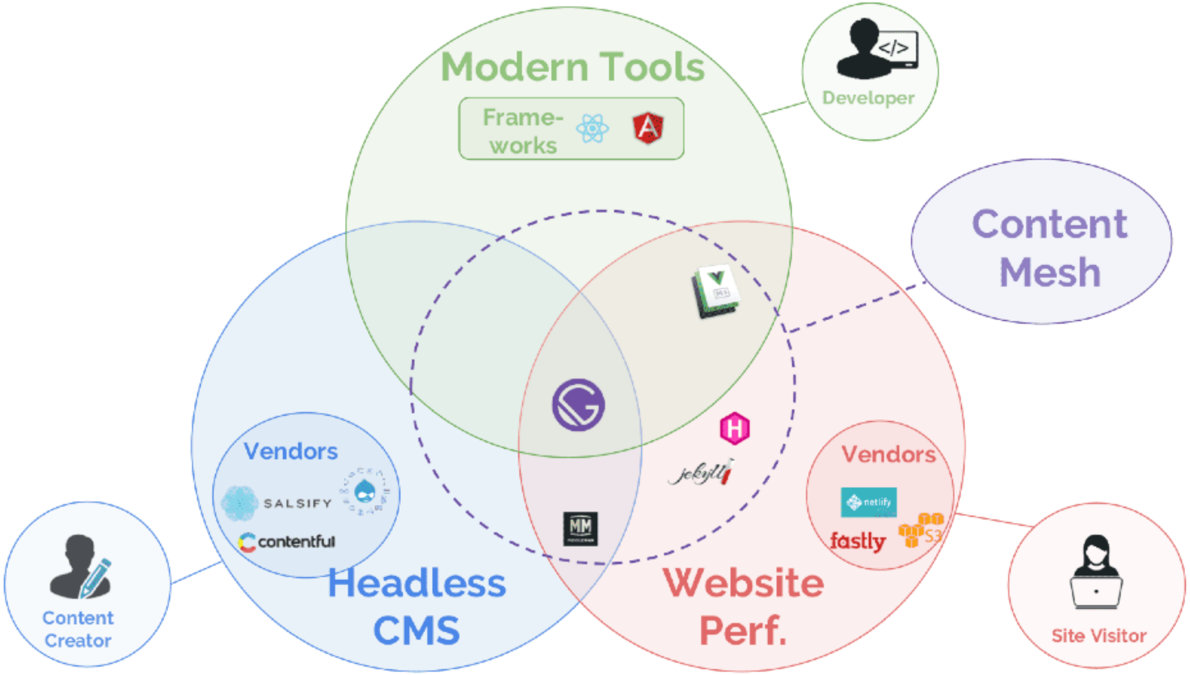

JAM
GATSBY IS MY JAM (STACK)

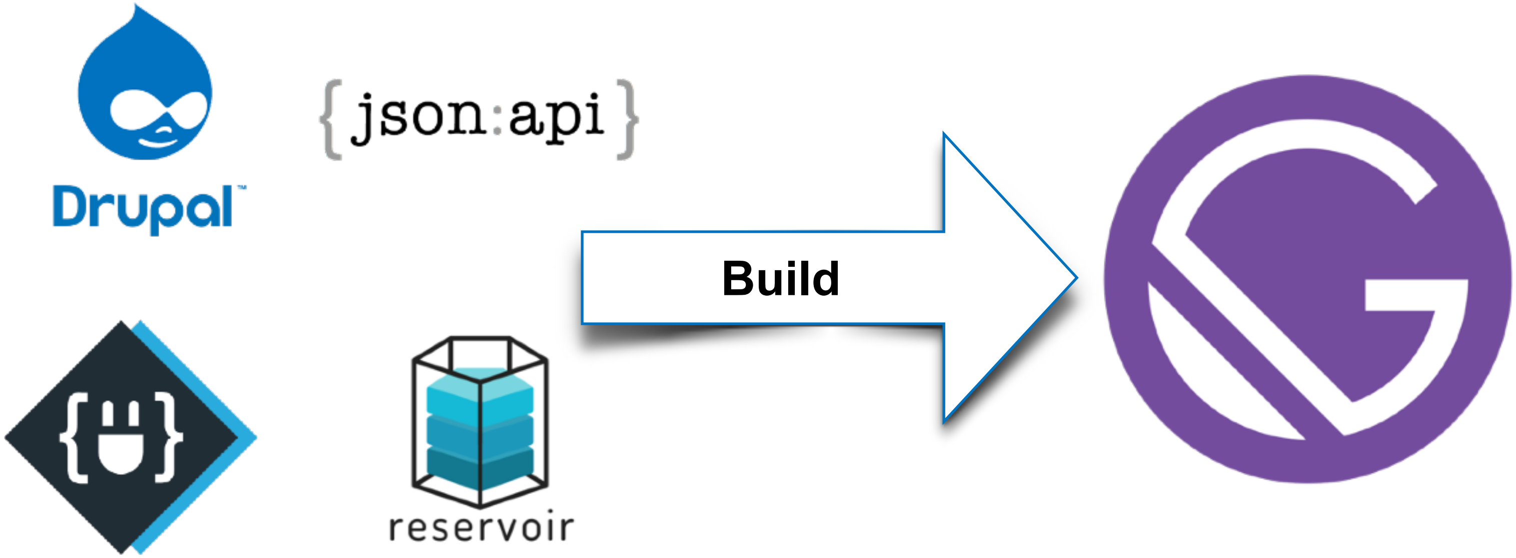
Blazing fast site generator for React

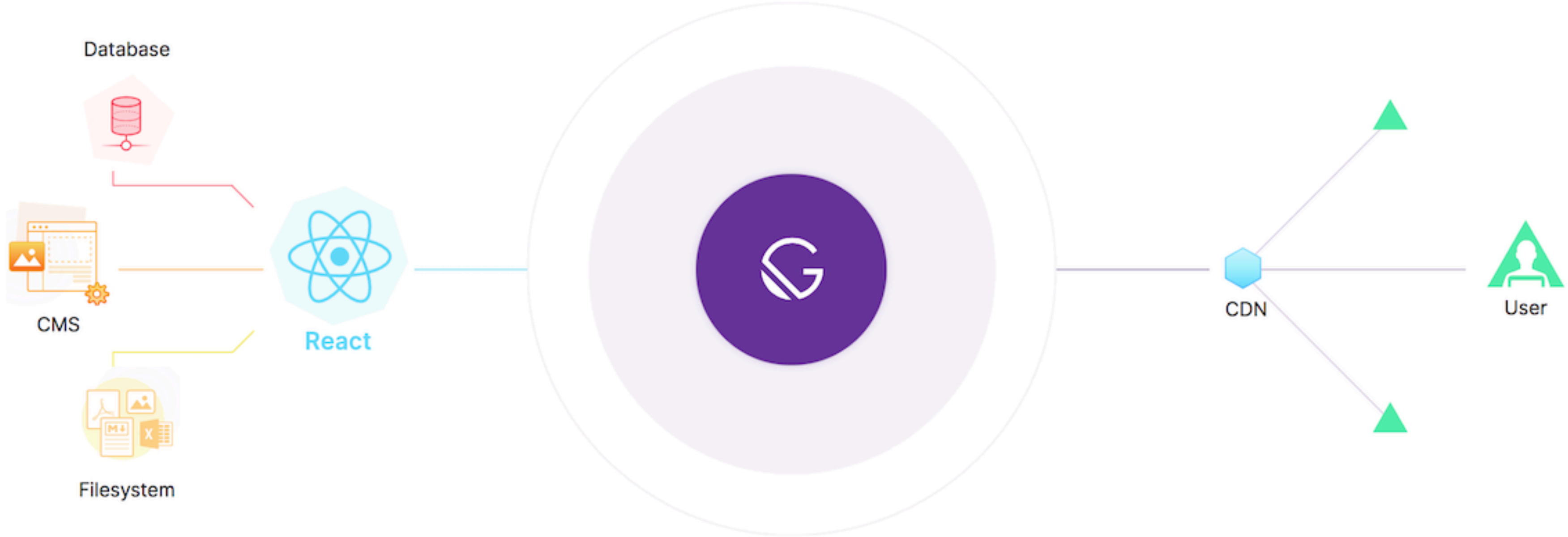
The Content Mesh

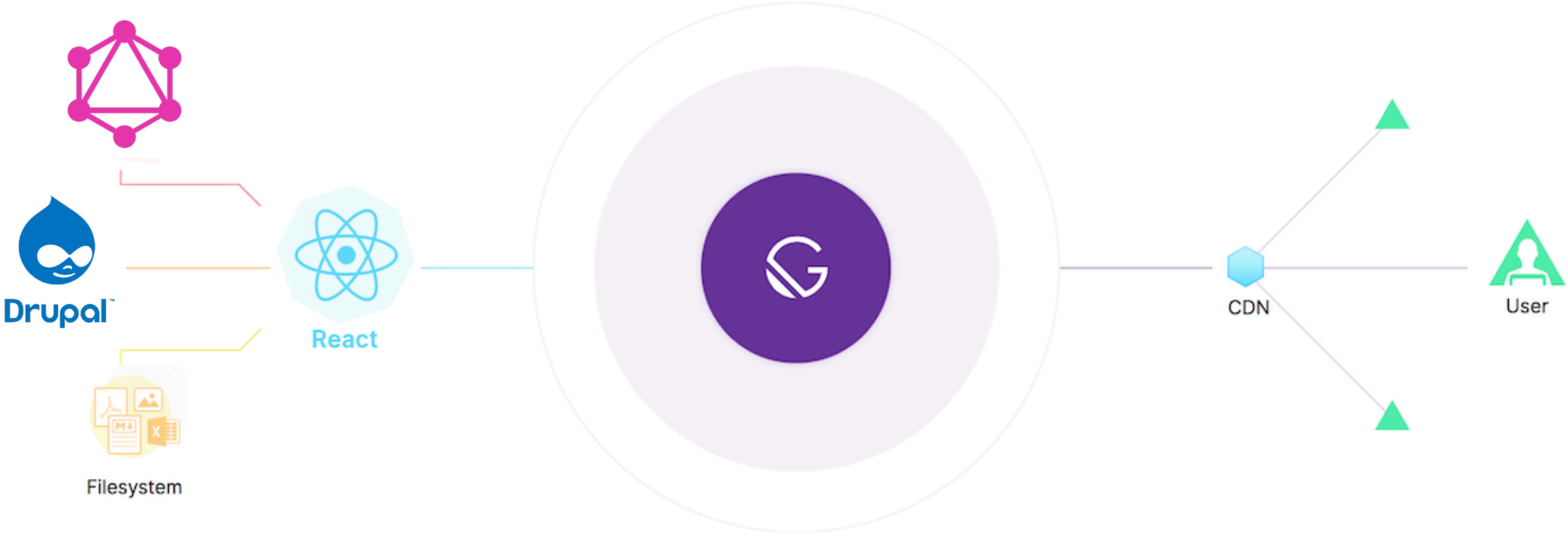


https://www.gatsbyjs.org/blog/2018-10-18-creating-compelling-content-experiences/

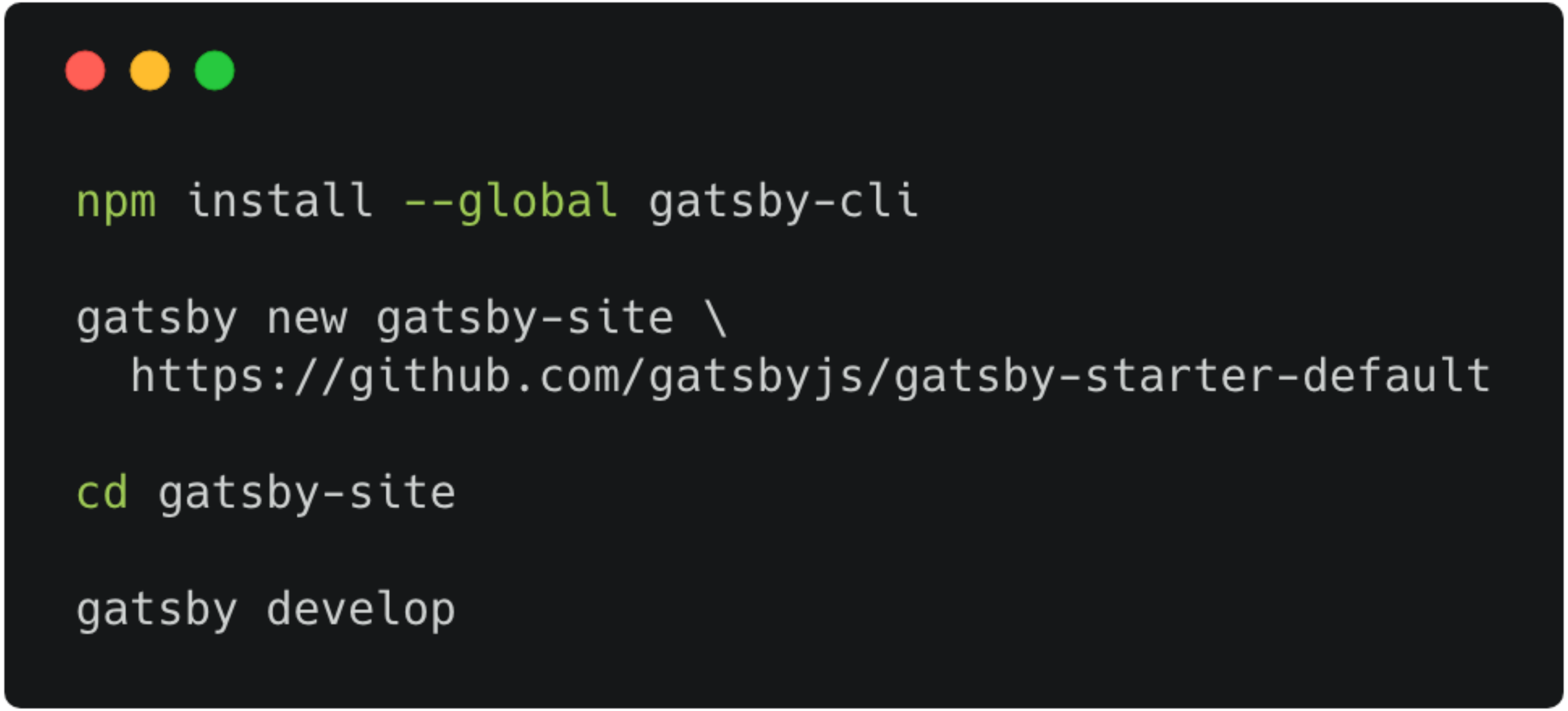
Drupal API + GatsbyJS




Database
CMS
Filesystem
React
CDN
User


Drupal
Filesystem
React
CDN
User

Getting Started

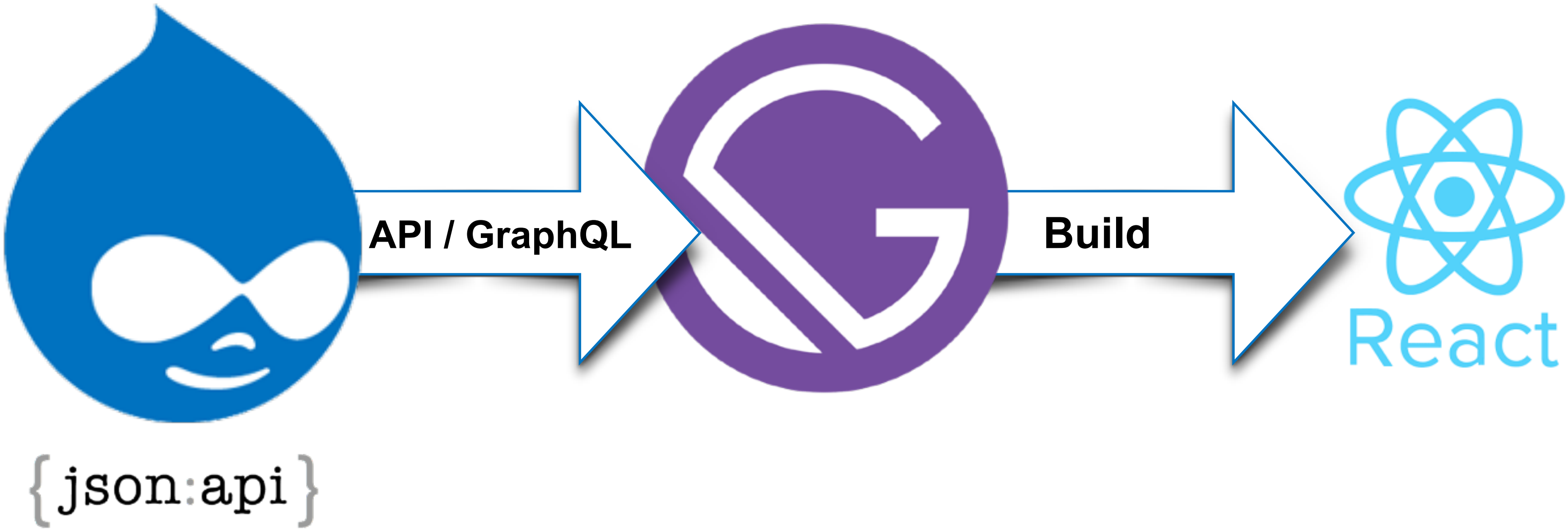


```
npm install --global gatsby-cli

gatsby new gatsby-site \
  https://github.com/gatsbyjs/gatsby-starter-default

cd gatsby-site

gatsby develop
```



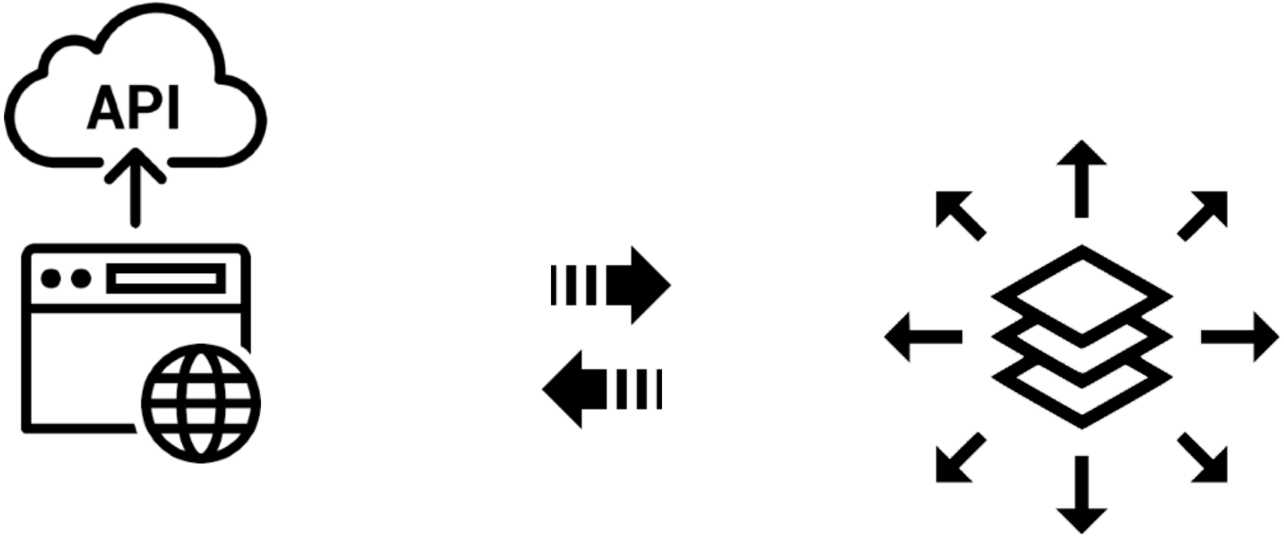
API / GraphQL

Build

Feel free to turn off your Drupal after build

https://twitter.com/ckaotik/status/647020262001614848

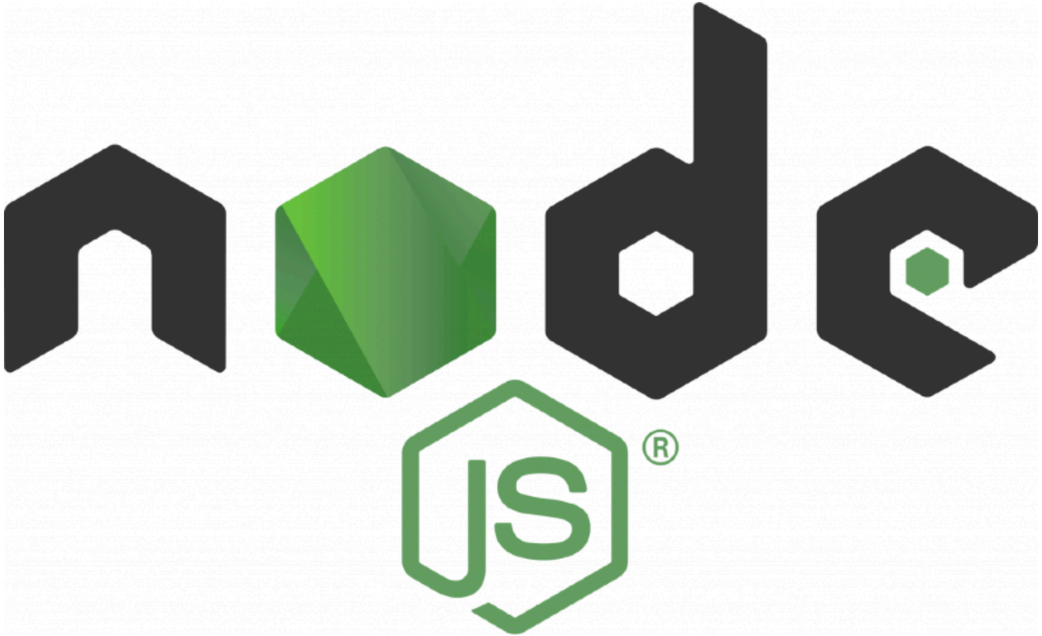
Performance



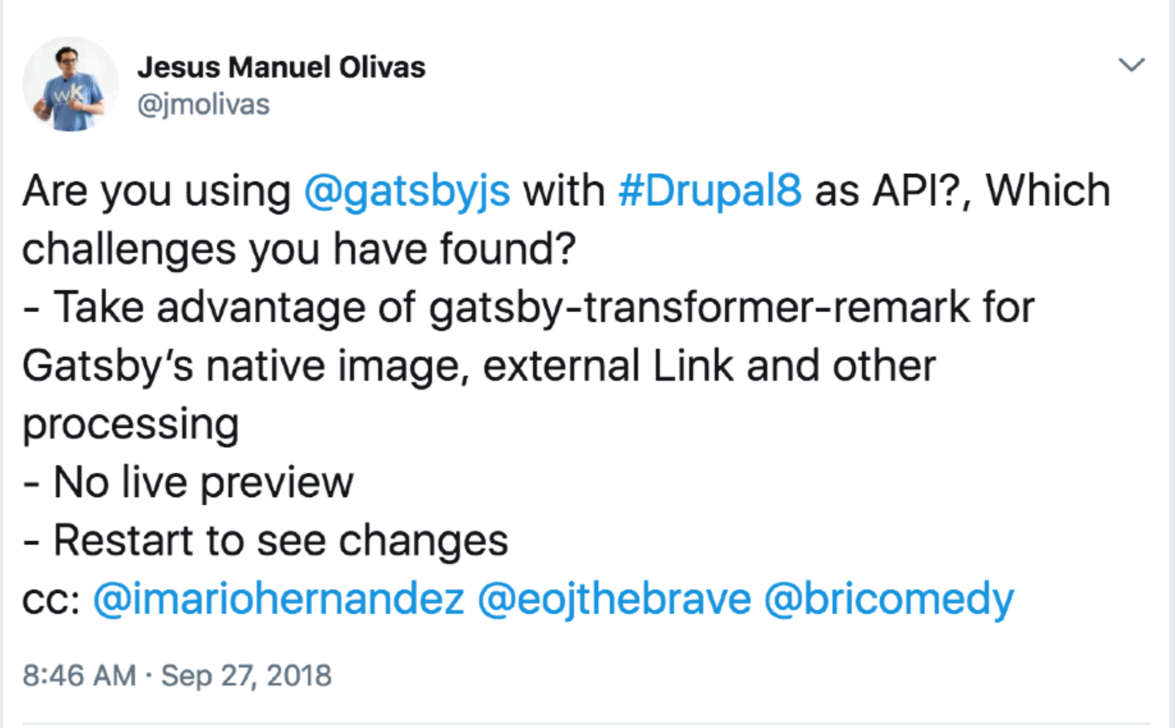
Visitor

CDN

The API Driven CMS Stack



Challenges

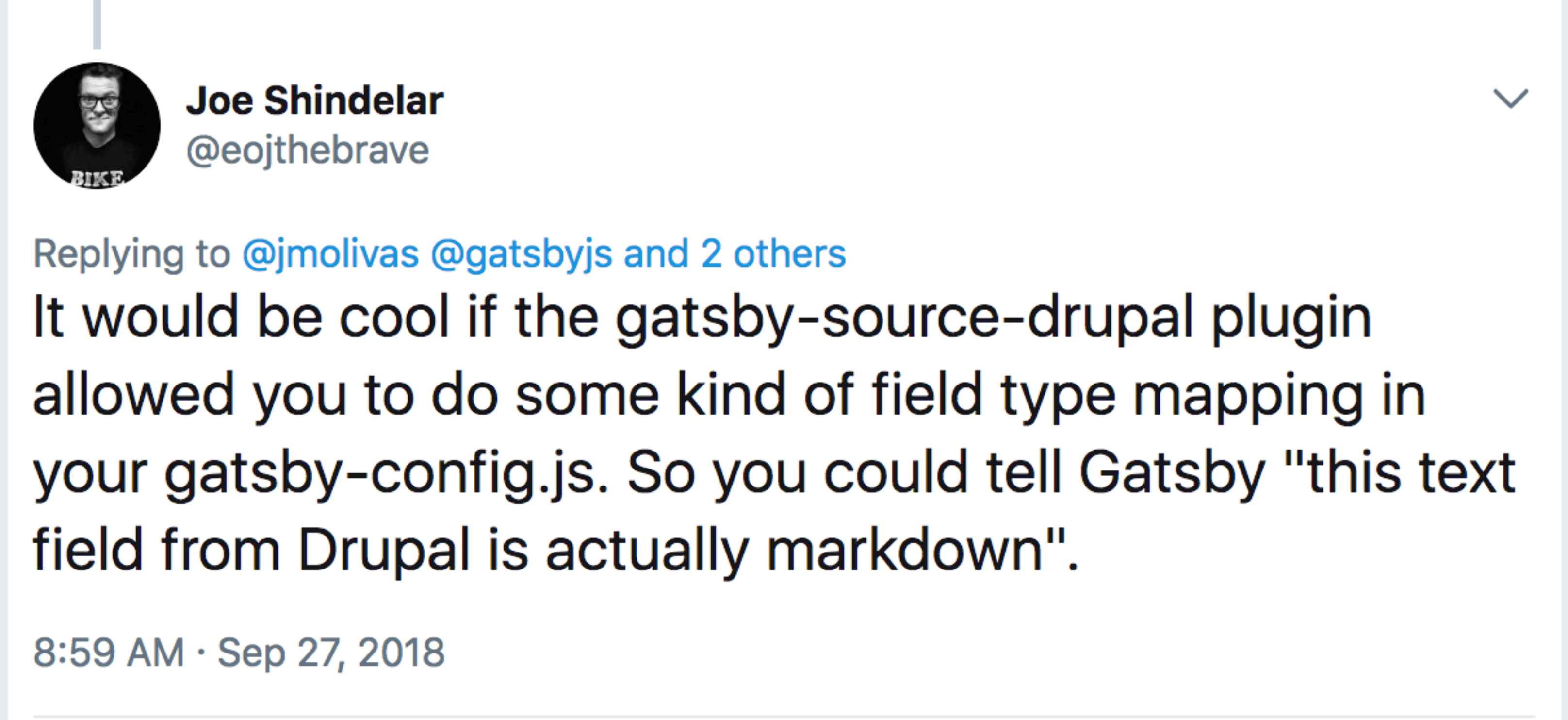


Jesus Manuel Olivas
@jmolivas

Are you using @gatsbyjs with #Drupal8 as API?, Which challenges you have found?
- Take advantage of gatsby-transformer-remark for Gatsby’s native image, external Link and other processing
- No live preview
- Restart to see changes
cc: @imariohernandez @eojthebrave @bricomedy

8:46 AM · Sep 27, 2018

Challenges



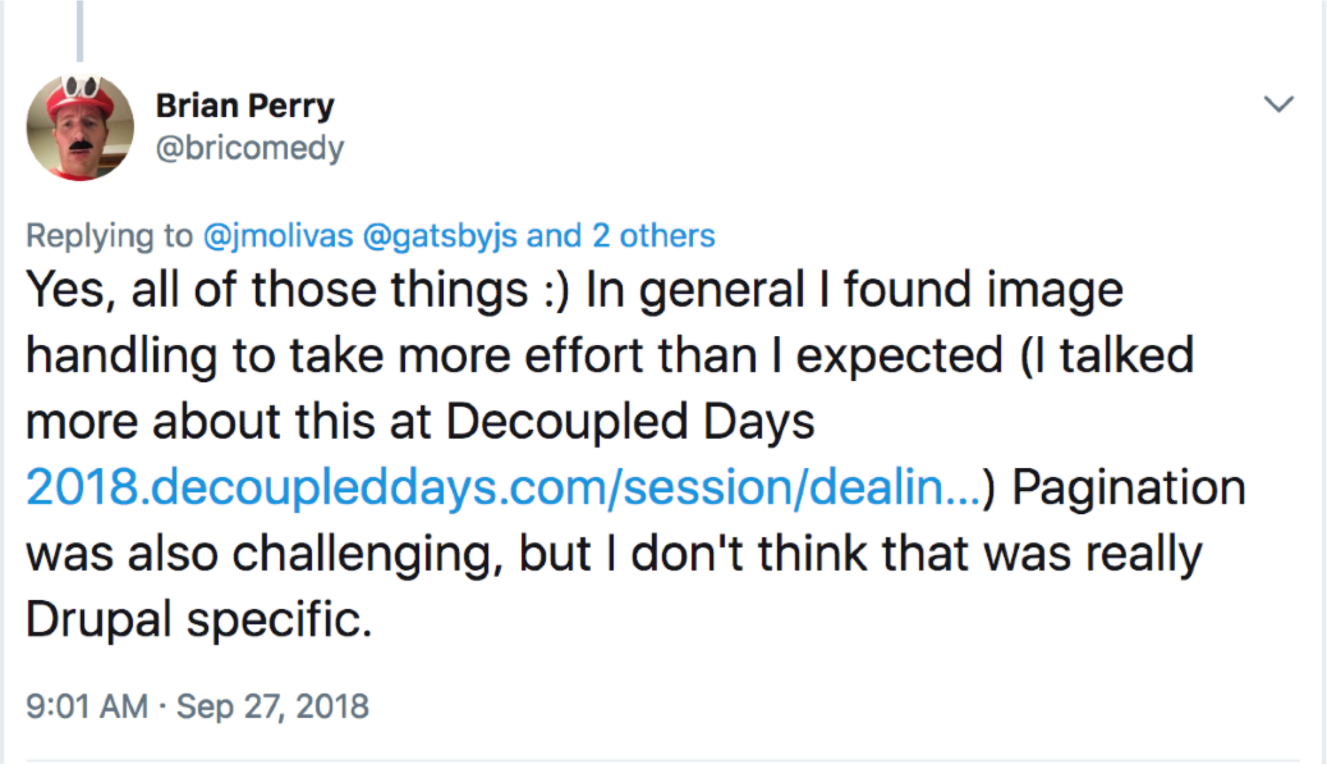
Joe Shindelar
@eojthebrave

Replying to @jmolivas @gatsbyjs and 2 others

It would be cool if the gatsby-source-drupal plugin allowed you to do some kind of field type mapping in your gatsby-config.js. So you could tell Gatsby "this text field from Drupal is actually markdown".

8:59 AM · Sep 27, 2018

Challenges



Brian Perry
@bricomedy

Replying to @jmolivas @gatsbyjs and 2 others

Yes, all of those things :) In general I found image handling to take more effort than I expected (I talked more about this at Decoupled Days 2018.decoupleddays.com/session/dealin...) Pagination was also challenging, but I don't think that was really Drupal specific.

9:01 AM · Sep 27, 2018

Challenges

- Use a markdown editor with Drupal. (we wrote a module for that)
- Preprocess inline-images on markdown. (we wrote a fix for that)
- Deploy site from Drupal. (we wrote a module for that)
- Learn Javascript
- Learn ReactJS
- Learn GraphQL

What is Gone

- Twig
- Render array
- Theme layer
- Theme preprocessing
- *Views (use GraphQL instead)

What to keep using

- Data modeling.
- Content editor capabilities, revisions, moderation and scheduling.
- Pathauto
- Site Settings

Must have plugins

- gatsby-source-drupal
- gatsby-transformer-remark
- gatsby-remark-images
- gatsby-remark-external-links
- gatsby-plugin-sharp
- gatsby-transformer-sharp
- gatsby-plugin-react-helmet

“

Choose the right tool for the job

”

Design System - Atomic Design

1. Atoms
2. Molecules
3. Organisms
4. Templates
5. Pages

UI Development Environment

Want to see this talk at DrupalCon Seattle?, ask for it

https://events.drupal.org/seattle2019/sessions/how-keep-drupal-relevant-git-based-and-api-driven-cms-era

Thank you … Questions?

weknowinc.com

Feel free to ping me during the event,
at the parties, after-parties, and twitter **@jmolivas**