





# JAVASCRIPT IS COMING TO EAT YOU





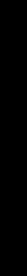


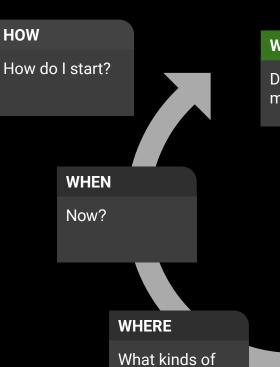


# JAVASCRIPT IS COMING TO EAT YOU









sites?

WHI

WHO

Does this affect me?

**WHAT** 

What is it??

WHY

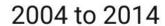
What's the point?



1994 to 2004

### The Renaissance

HTML, CSS, Javascript, CGI Scripts, ASP Classic, PHP, Custom CMS, Open Source CMS, Flash



### **The Industrial Revolution**

Drupal and WordPress, LAMP, Commercial CMS, Jquery/Ajax, SaaS, Cloud



1994 to 2004

### The Renaissance

HTML, CSS, Javascript, CGI Scripts, ASP Classic, PHP, Custom CMS, Open Source CMS, Flash



# 2014 to Today The Technological Revolution

React/Angular, Decoupled Drupal, APIs, Node.js, MEAN, JAMStack, Serverless



2004 to 2014

### The Industrial Revolution

Drupal and WordPress, LAMP, Commercial CMS, Jquery/Ajax, SaaS, Cloud



1994 to 2004

### The Renaissance

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# Most of us are living in 2014.

And it is not a bad place to be.























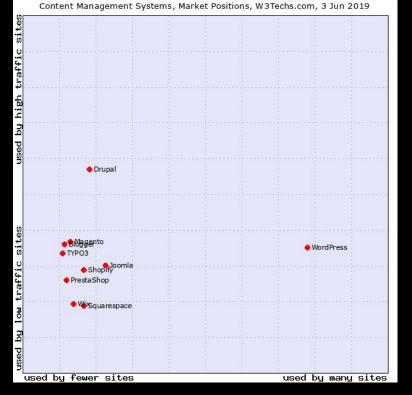


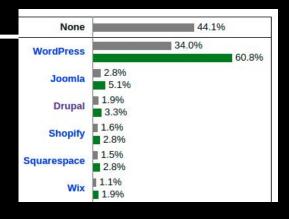




















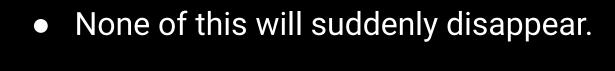








- We enjoy a billion dollar global marketplace.
- Innovation continues at great speed.
- Drupal or WordPress are still the obvious choices for MOST websites.





### 13 Jesus Manuel Olivas Retweeted



### Nader Dabit

@dabit3

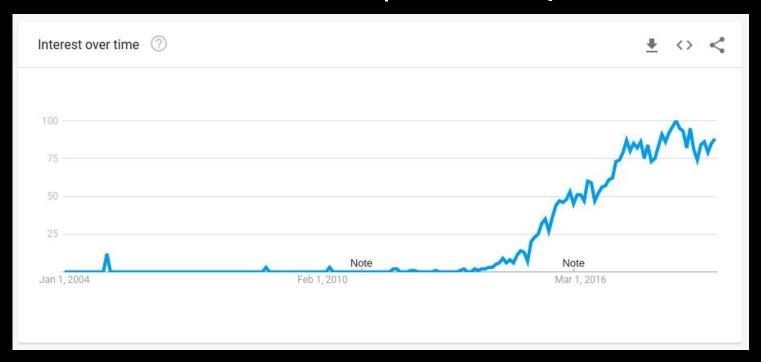
There is a massive paradigm shift happening right now. The front & back end are rapidly moving closer & closer together, assisted by the rise of managed services & serverless tech.



Those who acknowledge & take advantage of this will be the biggest winners in the coming years.

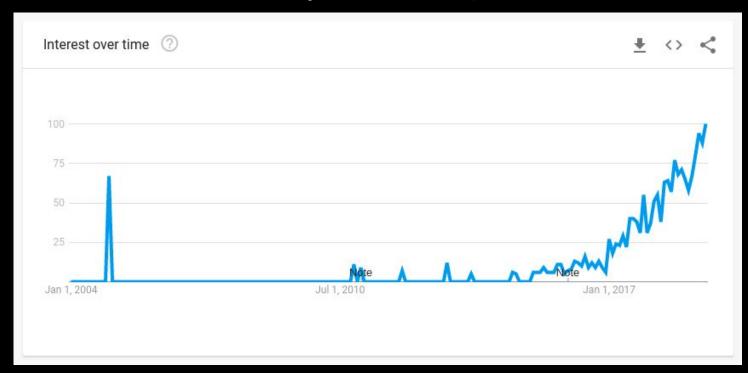
11:21 AM · 21 Apr 19 · Twitter Web Client

## REACT & ANGULAR | 2004 to present



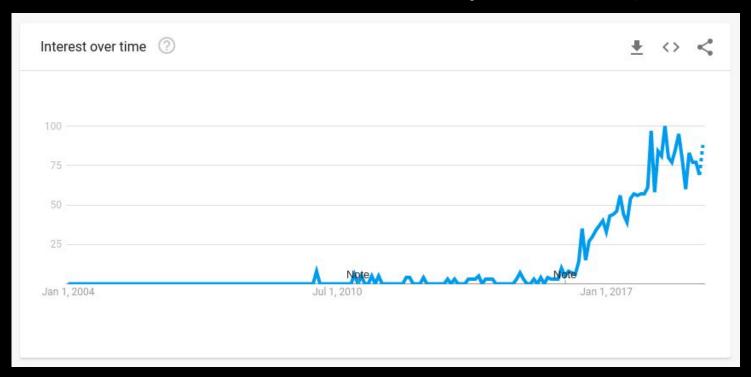


## HEADLESS CMS | 2004 to present



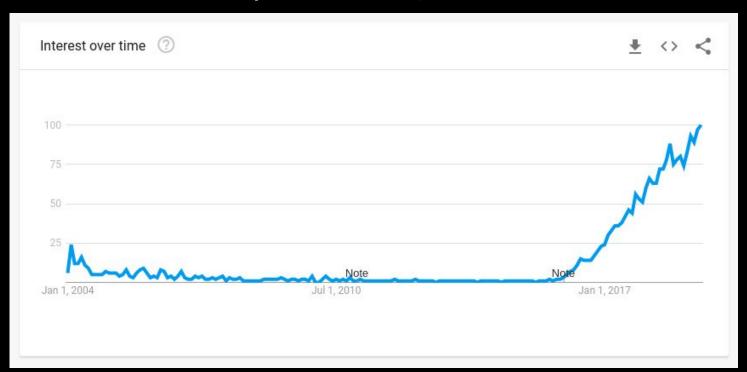


## PROGRESSIVE WEB APP | 2004 to present



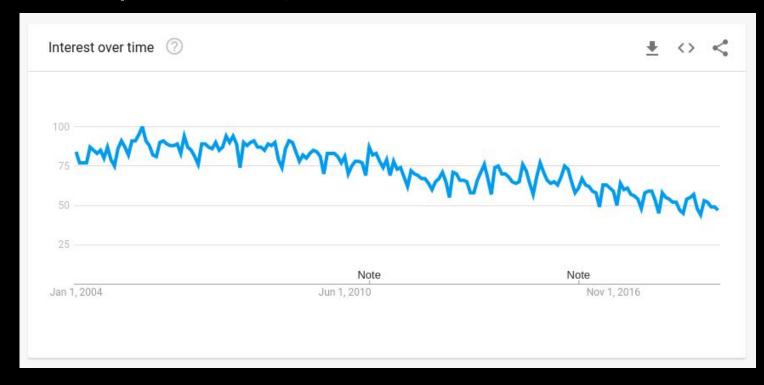


# SERVERLESS | 2004 to present



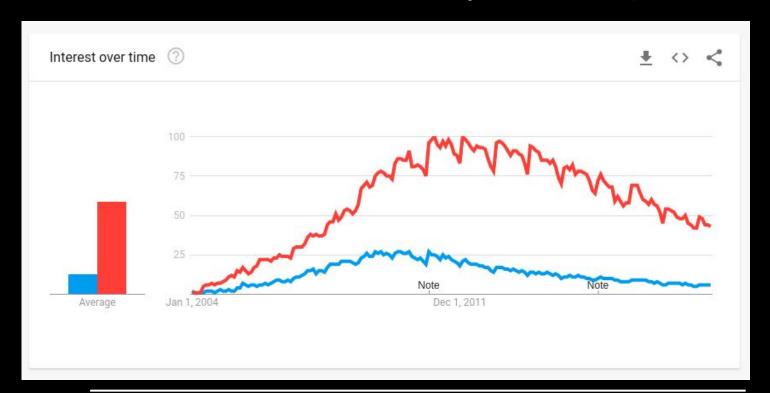


# CMS | 2004 to present





# DRUPAL & WORDPRESS | 2004 to present







"We would prefer Python, Ruby, and/or Javascript based applications. Also something like SOLR that can handle searching large data sets. We would steer clear of Drupal."

# REASON ONE Our tools and techniques WORK and they keep

getting better.



## **REASON TWO**

This new stuff is COMPLICATED, and super hard to do correctly.



# REASON THREE We LOSE 80% of Drupal or WordPress goodness.

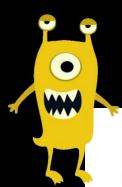


# REASON FOUR This stuff is EXPENSIVE (and clients can barely afford Pantheon.)



These are all perfectly valid, reasonable, and REAL reasons.





# And yet.

Adobe Dreamweaver

FrontPage

0.4%

0.7%

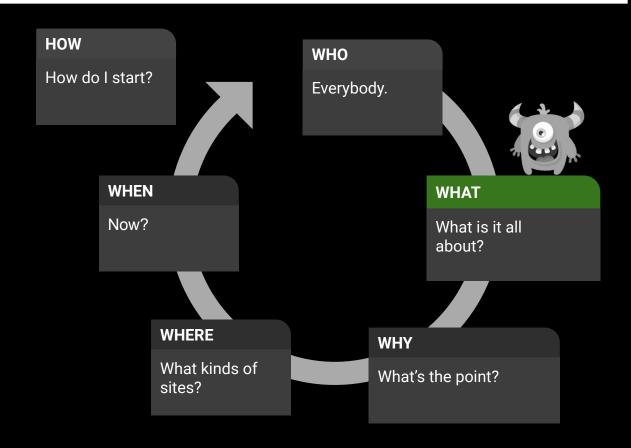
0.3%

0.5%

# OPTION A Stay the course.







W51H



# MANAGED SERVICES MODULAR SYSTEMS

**MICROSERVICES** 

**CONTENT MESH** 



### **Content Management**

Landing pages, news, events



### **Custom applications**

Databases, tools



### Integrations

APIs, migrations, importers, exporters



### Membership/CiviCRM

Customizations, roles, reporting



### **MONOLITHIC CMS**





Web server Database server



WIX



















Frontend website! HTML, JS, Twig



### Customization

Customize all the things



### Commerce

Sell, sell, sell!



### Search

Search API, Solr



### Forums and galleries oh my

All the things!





aka the "content mesh"



Static files Markdown



**Custom APIs** SaaS APIs

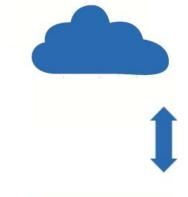


**Custom DBs** Mongo/SQLite



**JSON** XML/CSV





Node.js Static Serverless Cloud-native



React, Angular, Vue (bring your own!)

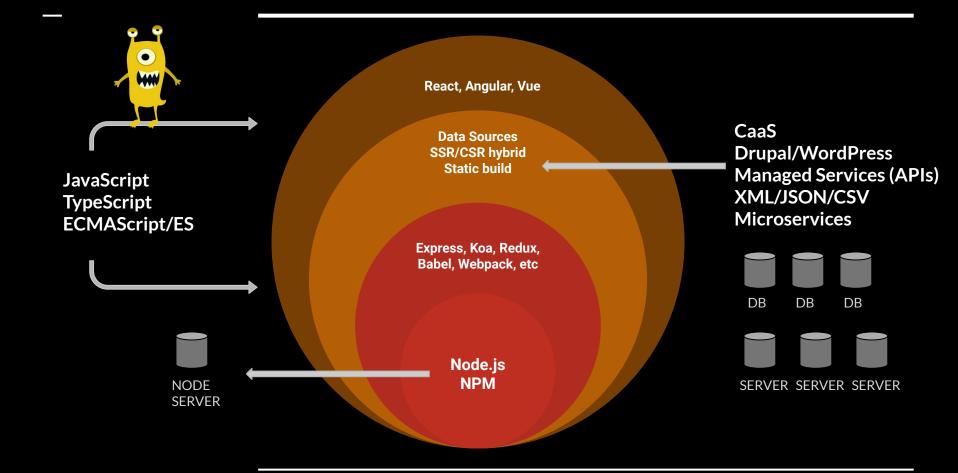


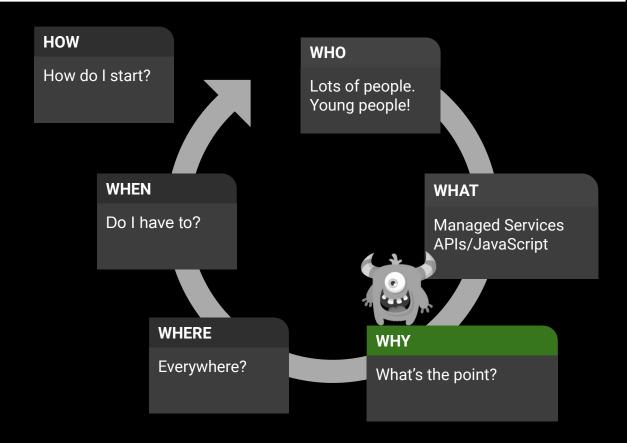








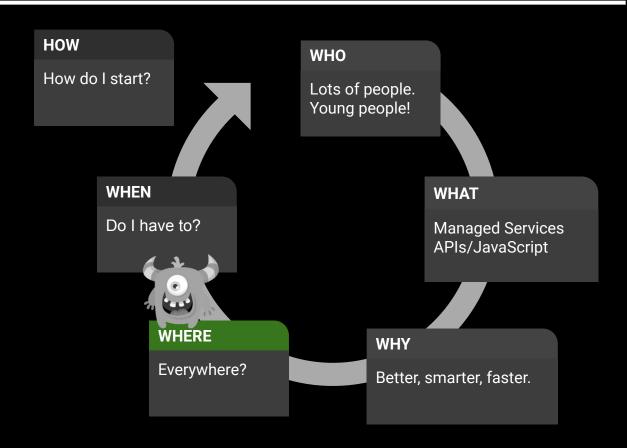




**W51H** 

## - WHY?? -

			MONOLITH	NODE	
	1	SPEED		<b>/</b>	<ul><li>Code splitting, critical rendering</li><li>SSR/Static Rendering</li></ul>
	2	FLEXIBILITY		<b>&gt;</b>	<ul><li>Data agostic</li><li>Right tool for right job</li></ul>
	3	USER EXPERIENCE		<b>&gt;</b>	<ul><li>Faster UX</li><li>Better UX</li></ul>
	4	DEVELOPER EXPERIENCE		<b>&gt;</b>	<ul><li>One stack rules all</li><li>NPM/Hot reload/Components</li></ul>
· · ·	5	COST		<b>✓</b>	<ul><li>Development/Support</li><li>Infrastructure</li></ul>



**W51H** 

### - WHERE?

### **WEBSITES**

Simple websites Average websites Complex websites

### **WEB APPS**

+

Facebook, Airbnb, Instagram, Netflix, Countless others

### **MOBILE APPS**

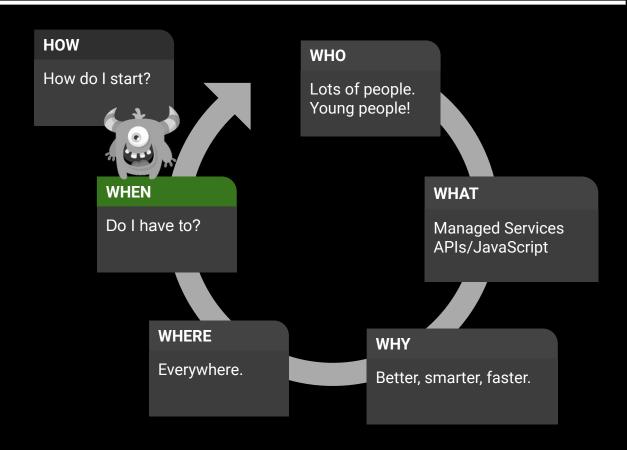
Instagram/FB Bloomberg Walmart etc.

 $(\oplus)$ 



Don't forget the Internet of Things!

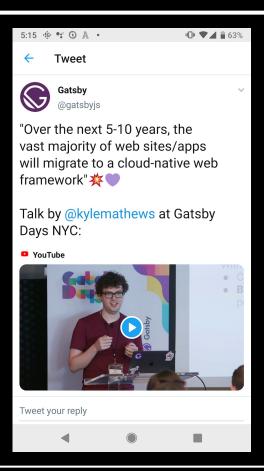
All websites are applications. All applications are websites.



**W51H** 

### WHEN?



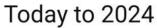




2024 to 2034

### Technological Revolution: Natural Order

Continuous improvements Iterations



### **Technological Revolution: Liftoff**

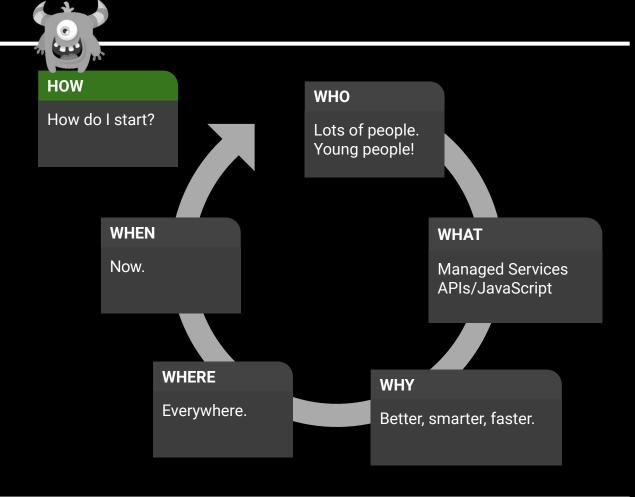
Better approaches, better tooling, better infrastructure Easier paths forward



2014 to Today

Technological Revolution: Early days

React/Angular, Decoupled Drupal, APIs, Node.js, MEAN, JAMStack, Serverless



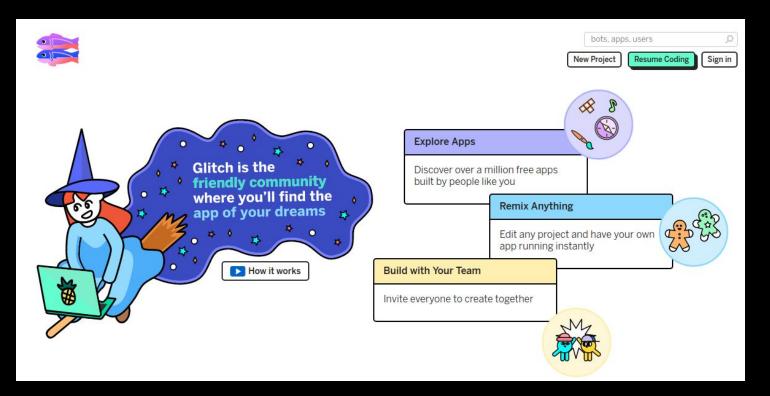
W51H

## Resources and Reading

https://tinyurl.com/tcdc2019



### - GLITCH-





#### Go!

https://glitch.com/~hello-gatsby

https://codesandbox.io/s/new

https://www.sanity.io/create





#### The best JSON:API implementation in existence

The JSON:API module for Drupal is almost certainly the most feature-complete and easiest-to-use JSON:API implementation in existence.

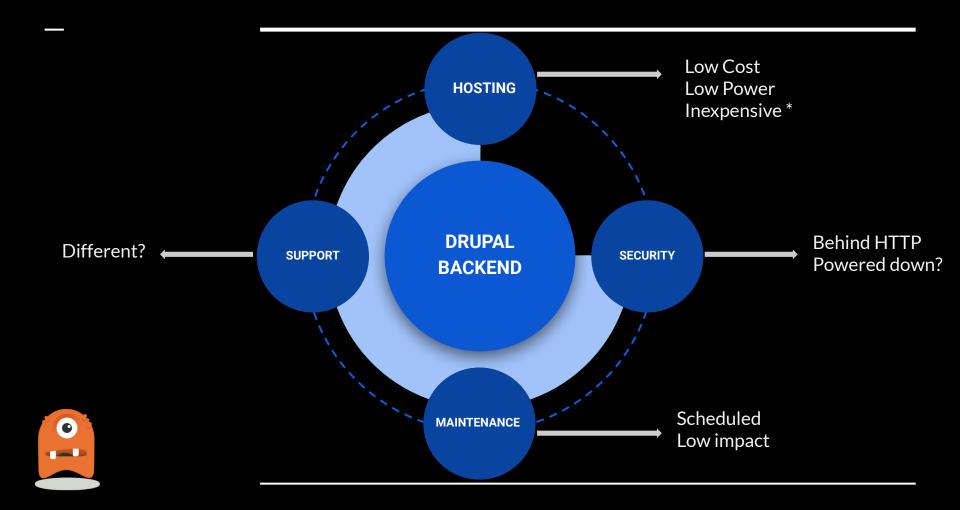
The Drupal JSON:API implementation supports every feature of the JSON:API

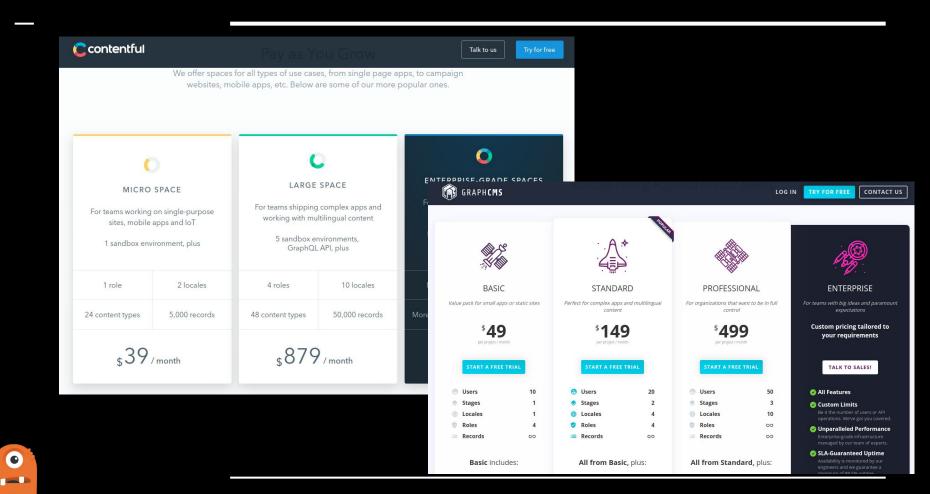
1.0 specification out-of-the-box. Every Drupal entity (i Apps to Control of C



/jsonapi

CAN I USE IT??	YES	NO!
VIEWS		<b>(</b>
TWIG		
LAYOUT BUILDER		
CONTRIB MODULES		
WEBFORMS		
SEARCH API		
CONTENT TYPES		
ENTITY REFERENCES	<b>Ø</b>	
PARAGRAPHS & MEDIA		
TAXONOMY	<b>Ø</b>	
WORKFLOW & SCHEDULING	<b>Ø</b>	
JSON API	<b>⊘</b>	





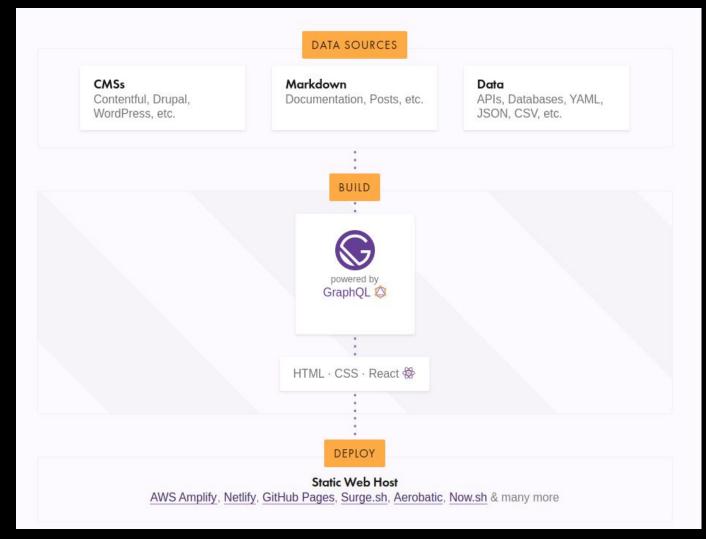
#### React

A JavaScript library for building user interfaces

Get Started

Take the Tutorial >









## The React Framework for Server-Rendered Apps



See Showcase

License: MIT View Docs GitHu

"I would never build anything in React without choosing Next or Gatsby."



Wes Bos, Feb. 2019







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