

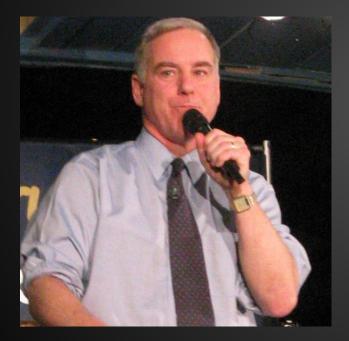
## JAVASCRIPT IS COMING TO EAT YOU

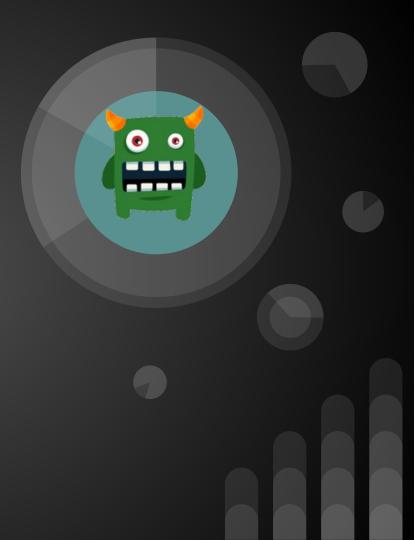


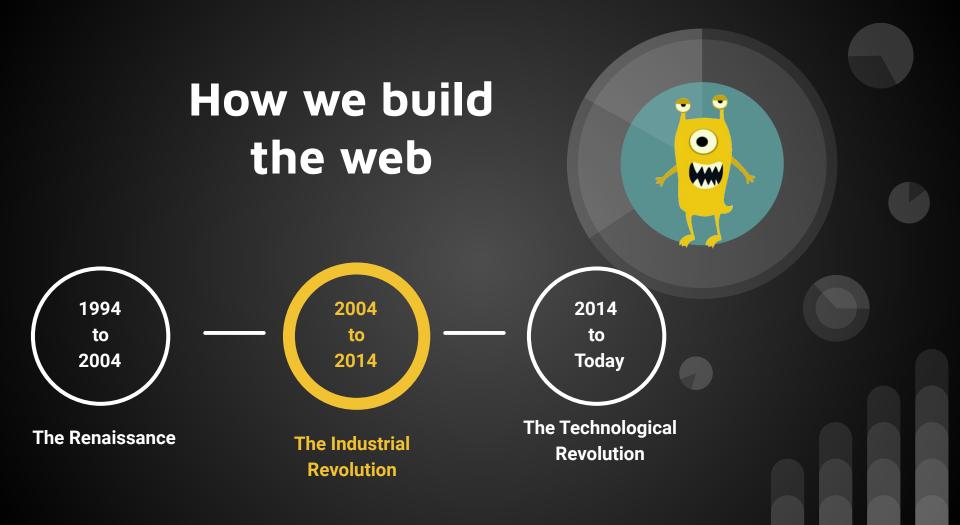
Electric Citizen | November 2019



#### January 2004 🔊 The Dean Scream







#### 2004 to 2014

# The Industrial Revolution

- Rise and domination of the CMS
- Drupal, Joomla, and WordPress
- SaaS/Commercial CMS
- LAMP stack
- The Cloud
- Ajax/Jquery (Gmail)



#### 2014 to Today The Technological Revolution

- React/Angular/Vue
- Decoupled CMS
- Node.js and JS libraries
- JAMstack and APIs
- Managed services
- Serverless



# Most of us are still living in 2014.

And it is a pretty great place to be.









## Winning all the things.

- We enjoy a multi-billion dollar global marketplace
- Innovation continues at great speed
- Drupal or WordPress are still an obvious choice for most websites











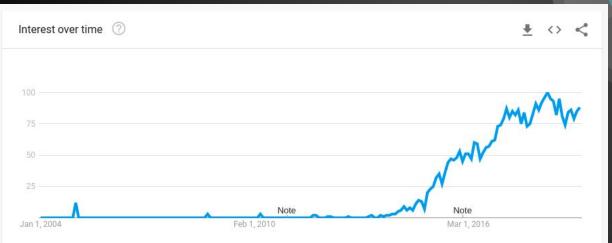


## Come, Watson, come! The game is afoot.





#### REACT & ANGULAR 2004 to present

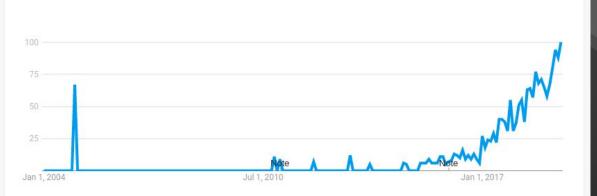


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#### HEADLESS CMS 2004 to present

Interest over time (?)

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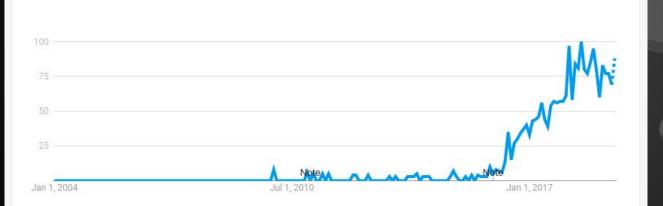
#### PROGRESSIVE WEB APPS 2004 to present

Interest over time 🕐

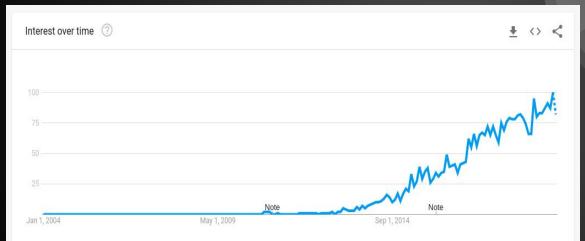
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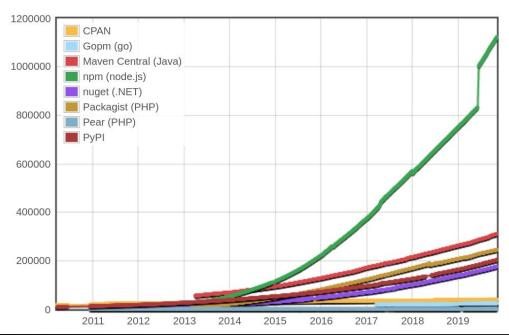
#### FULL STACK DEVELOPER 2004 to present





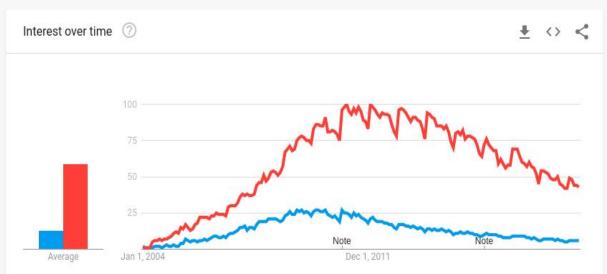
#### Popular Language Modules All time

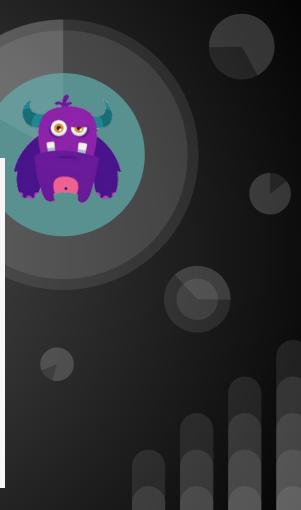
#### **Module Counts**



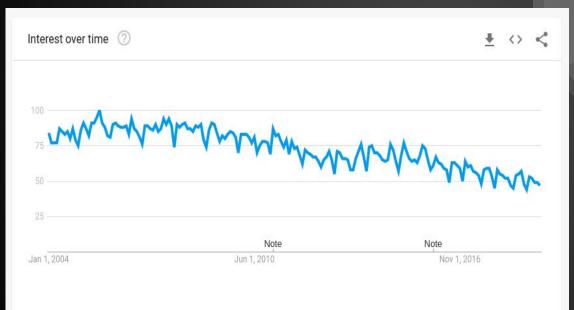


#### DRUPAL & WORDPRESS 2004 to present



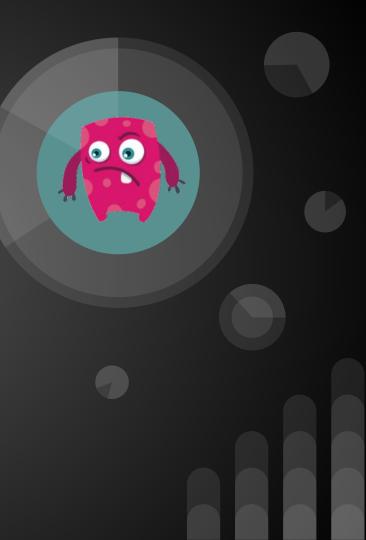


#### CMS 2004 to present





"We would prefer Python, Ruby, and/or Javascript based applications. We would steer clear of Drupal."



#### C↓ 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

Important **Realization #1:** We are rapidly changing how and what we build.



## Option A Stay the course.



## Option A "Nobody ever got fired for buying IBM."



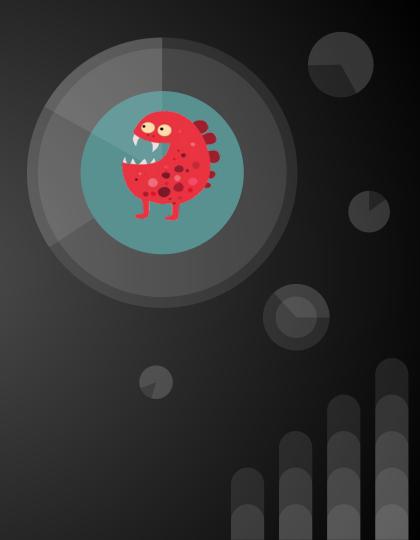
#### **Option A**

# Adobe Dreamweaver 0.4% 0.7% 0.3% 0.3% 0.5%



## Option B Learn and adapt.





## Monolithic CMS vs DECOUPLED FRONTEND

#### **API INTEGRATIONS**

MANAGED SERVICES

MICROSERVICES

SERVERLESS



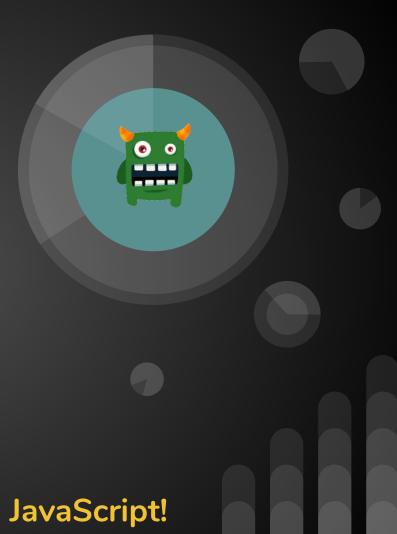
## Monolithic CMS vs DECOUPLED FRONTEND

#### **API INTEGRATIONS**

MANAGED SERVICES

MICROSERVICES

SERVERLESS





#### **Content Management**

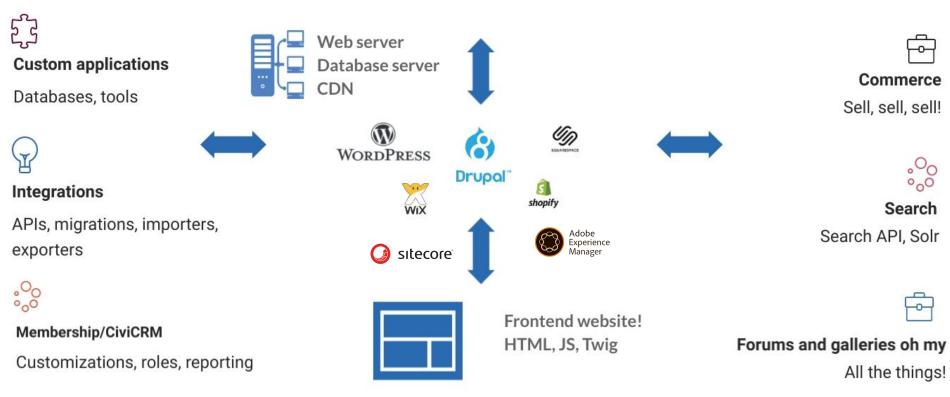
Landing pages, news, events

#### Monolithic CMS

Customization Customize all the things

.0<sub>0</sub>

Search

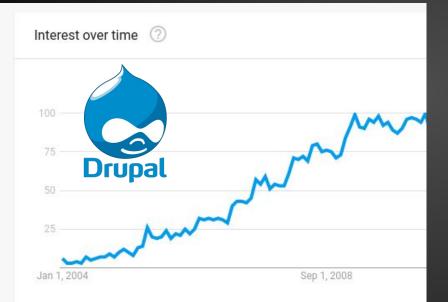


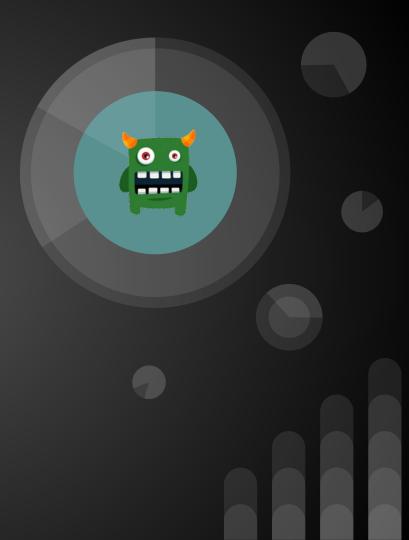
#### The Golden Hammer

•

"I suppose it is tempting, if the only tool you have is a hammer, to treat everything as if it were a nail."

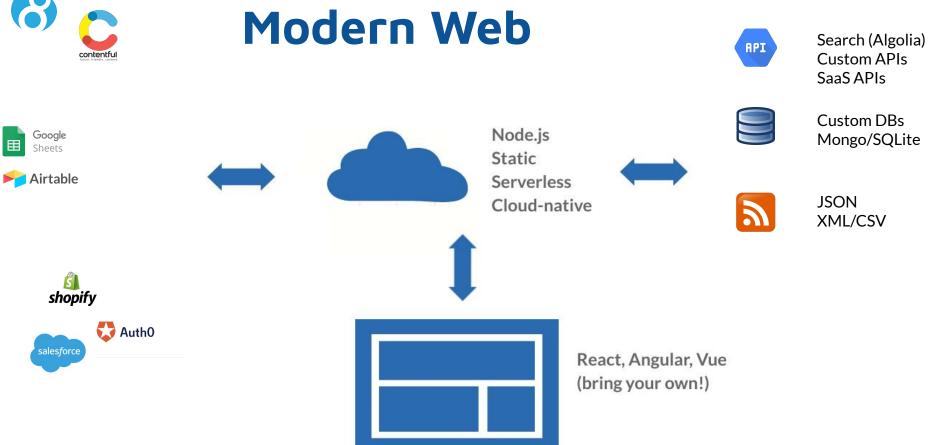
### Once upon a time you dressed so fine.



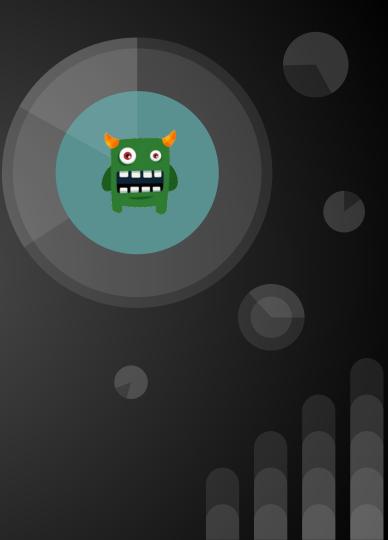








Important Realization #2: We are no longer building websites.









Custom APIs SaaS APIs





#### Everything else has been solved and commoditized.





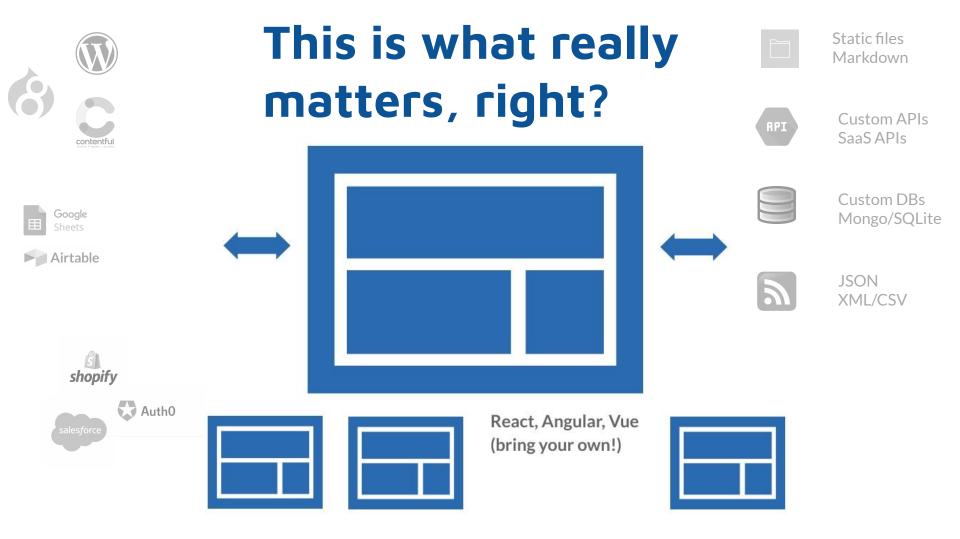
Custom DBs

Mongo/SQLite

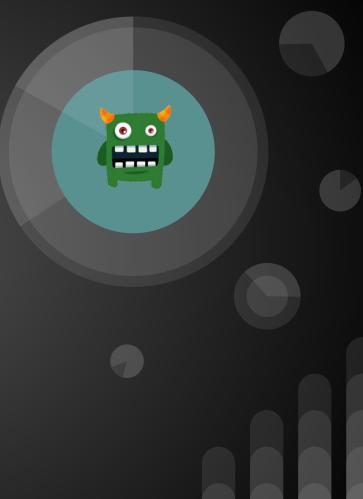
JSON XML/CSV



## So what then is our job?



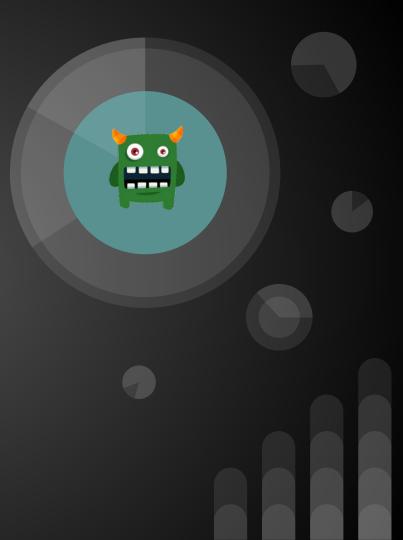




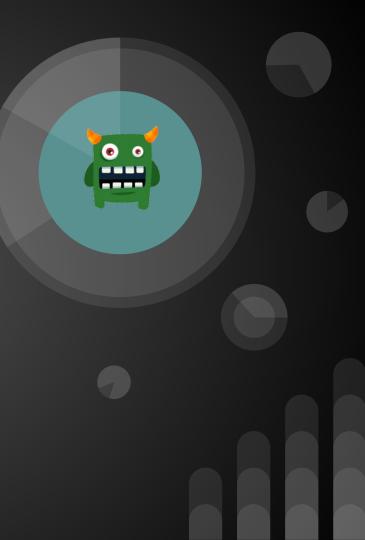
Can't Drupal also provide a good user experience?

Why would I give up all of its out-of-box features?

Why add another layer of complication and expense?



From the dawn of time, web developers hath sought to build better websites, and to build them faster.



# What if there is a better way to build the web?





T R A D I T I O N A L C M S	M O D E R N W E B	
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#### TRADITIONAL MODERN CMS WEB

#### SPEED AND PERFORMANCE

FLEXIBILITY

USER EXPERIENCE

DEVELOPER EXPERIENCE

**OVERALL COST** 

- Critical Rendering
- Code splitting and pre-renders
- Server Side Rendering (SSR)
- Node (Chrome V8)
- Static Rendering





FLEXIBILITY

USER EXPERIENCE

#### DEVELOPER EXPERIENCE

OVERALL COST

#### • Data agnostic

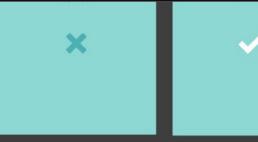
TRADITIONAL

CMS

- Frontend agnostic
- Right tool for the right job

MODERN

WEB





FLEXIBILITY

USER EXPERIENCE

**DEVELOPER EXPERIENCE** 

OVERALL COST

#### • Faster

• More effective

TRADITIONAL

CMS

MODERN

WEB

• More delightful

V V



FLEXIBILITY

USER EXPERIENCE

DEVELOPER EXPERIENCE

OVERALL COST



- One stack = good feelings
- Faster and more fun
- Components/NPM/hot reloading





FLEXIBILITY

USER EXPERIENCE

DEVELOPER EXPERIENCE

OVERALL COST

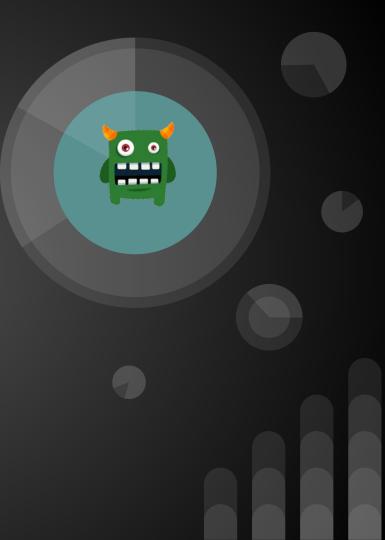
M O D E R N W E B
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✓

- Development
- Support and maintenance
- Hosting and infrastructure





Important Realization #3: You probably still need a CMS.



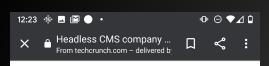
## 24 Headless CMS That Should Be On Your Radar in 2019 CMSWire.com

- Butter CMS
- Contentstack
- Contentful
- dotCMS
- Mura
- Cloud CMS
- Cockpit CMS
- Core dna
- Craft CMS
- Zesty.io
- Directus
- StoryblokWe

• GraphQL CMS

•

- Gentics Mesh
- Cosmic JS
- Kentico Cloud
- Prismic.io
- Quintype
- Sanity.io
- Scrivito
- Squidex
- DNN Evoq Content
- Strapi
- Superdesk



#### TC

#### **Headless CMS company** Strapi raises \$4 million

**Romain Dillet** 

Since

@romaindillet / 2 weeks ago

#### Contentful raises \$33.5M... From techcrunch.com – delivered by

12:34 🚸 🗔 🔟 🔵 🔹



**Contentful raises \$33.5M** for its headless CMS platform

Frenc

Frederic Lardinois

@fredericl / 11 months ago



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**Contentstack raises** \$31.5M Series A round for its headless CMS platform

12:27 📲 🗖 🔴 🔸

#### TC.

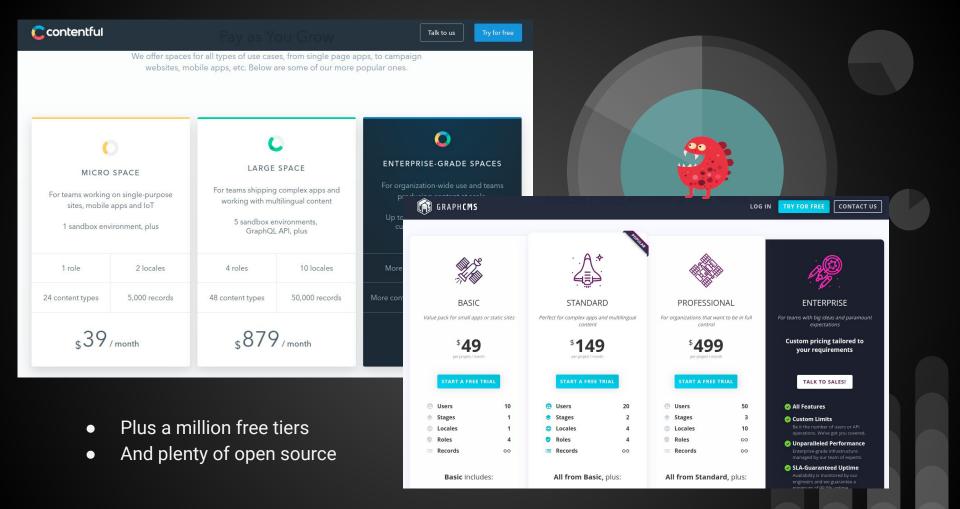
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Webiny announces \$348K seed to build open-source serverless CMS

Webiny announces \$348... From techcrunch.com – delivered b

#### **Ron Miller**

@ron\_miller / 3 days ago



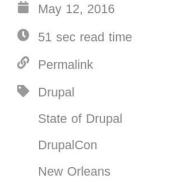








# State of Drupal presentation (May 2016)



DrupalCon New Orleans comes at an important time in the history of Drupal. Now that <u>Drupal 8 has launched</u>, we have a lot of work to do to accelerate Drupal 8's adoption as well as plan what is next.

In my keynote presentation, I shared my thoughts on where we should focus our efforts in order for Drupal to continue its path to become the leading platform for assembling the world's best digital experiences.

Based on recent survey data, I proposed key initiatives for Drupal, as well as shared my vision for building cross-channel customer experiences that span various devices, including conversational technologies like <u>Amazon Echo</u>.

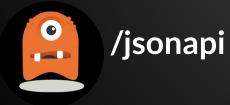
#### $\left| \mathbf{b} \right\rangle$ dries buytaert

ARCHIVE

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.

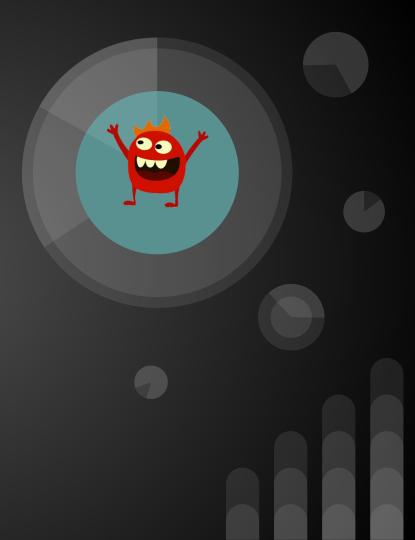
The Drupal JSON:API implementation supports *every* feature of the JSON:API 1.0 specification out-of-the-box. Every Drupal entity (a *resource object* in JSON:API terminology) is automatically made available through JSON:API. Existing access controls for both reading and writing are respected. Both <u>translations</u> and <u>revisions</u> of entities are also made available. Furthermore, <u>querying</u> entities (*filtering resource collections* in JSON:API terminology) is possible without any configuration (e.g. setting up a "Drupal View"), which means front-end developers can get started on their work right away.



#### ← → C ③ Not secure | dev-mtcv.pantheonsite.io/jsonapi/node/page

#### 🔢 Apps 🖿 Office 😹 Gmail 🖿 Github

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	"version": "1.0",	
	"meta": {	
	"links": {	
	"href": <u>"http://jsonapi.org/format/1.0/"</u>	
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	"attributes": {	
	"drupal_internalnid": 2,	
	"drupal_internalvid": 52,	
	"langcode": "en",	
	"revision_timestamp": "2019-05-28T20:27:28+00:00",	
	"revision_log": null,	
	"status": true,	
	"title": "Safe Browsing",	
	"created": "2019-05-12T17:41:59+00:00",	
	"changed": "2019-05-28T20:27:28+00:00",	
	"promote": false,	
	"sticky": false,	
	"default_langcode": true,	
	"revision_translation_affected": null,	
	 "path": {	/jsonapi
	"alias": "/safe-browsing",	Jeenapi
	"pid": 1,	
	"langcode": "en"	
	[슬로 말] 2007년 120년 121년 121년 221년 221년 221년 221년 221	



# Important Realization #4: Drupal solved most of the hard problems 10 years ago or more.



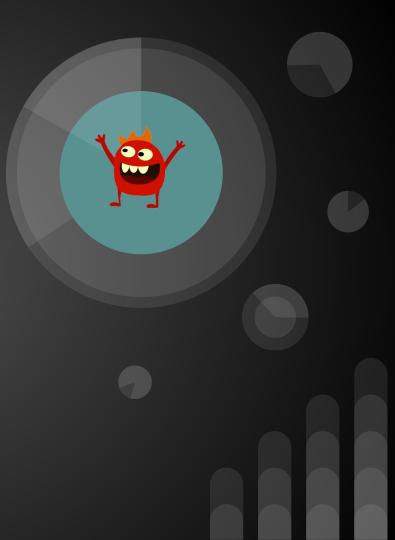
- Content architecture and entities
- Nodes and taxonomies
- Entity References
- Workflow and Permissions
- Content scheduling
- Media and File Handling
- Battle tested goodness

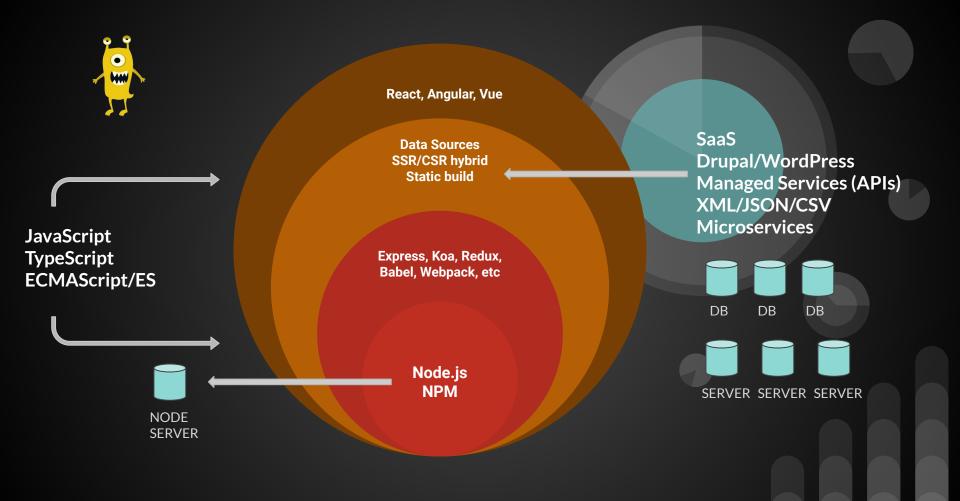
# Important Realization #5: Drupal is still the bomb.



- Free and Open source
- API-first
- No "record" limitations
- No "rate" limitations
- Arguably better at the fundamentals of CMS
- Right tool for this job







### React

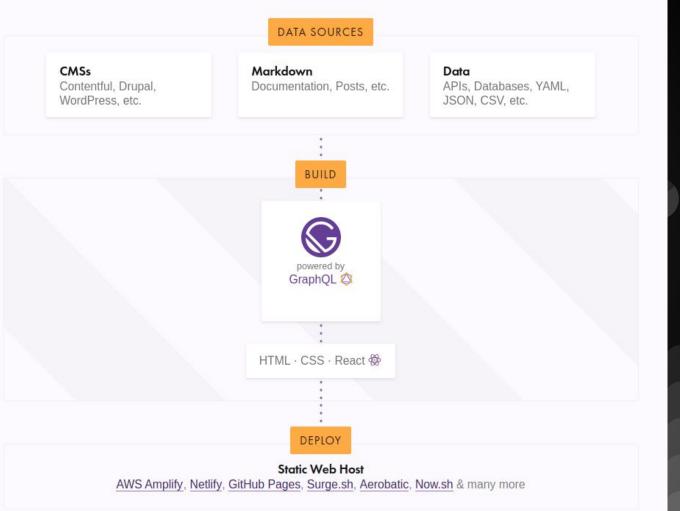
A JavaScript library for building user interfaces

Get Started

Take the Tutorial  $\geq$ 

0

# Gatsby Meet



0

# The React Framework for Server-Rendered Apps See Showcase

See Showcase License: MIT View Docs GitHub



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

Wes Bos, Feb. 2019



Best Practices Examples Resources Community Diversity and

## JAMstack: noun \'jam-stak'\

Modern web development architecture based on client-side JavaScript, reusable APIs, and prebuilt Markup.



# The World is your Playground:

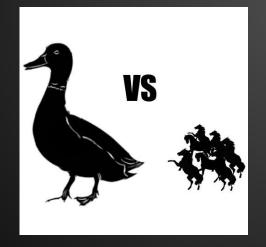
- Netlify, Now, AWS Amplify
- Codepen/Sandbox/Glitch
- One click demos
- Free tiers for miles
- Excellent documentation

## Important Realization #6: Things that were super hard 5 years ago are now easy (and even fun!)

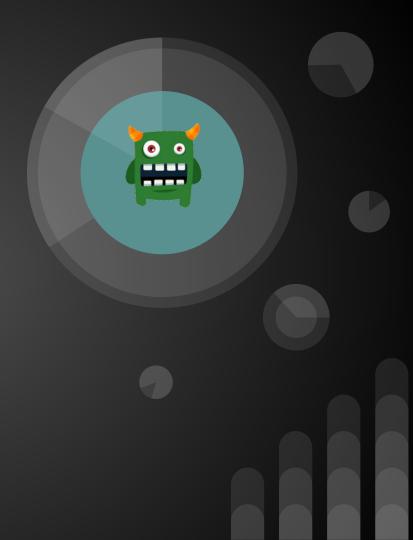


# Important Realization #7:

Would you rather fight 100 duck sized horses, or one horse sized duck?









# Thank you!



Electric Citizen | October 2019



 $\bullet$