

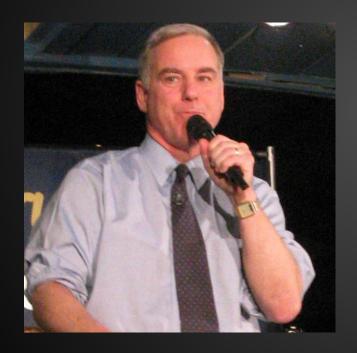
### JAVASCRIPT IS COMING TO EAT YOU

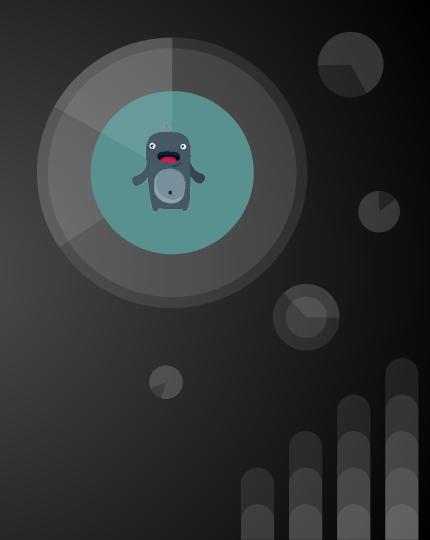






# January 2004 The Dean Scream





# How we build the web





The Renaissance

The Industrial Revolution

The Technological Revolution

#### 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 great place to be.

























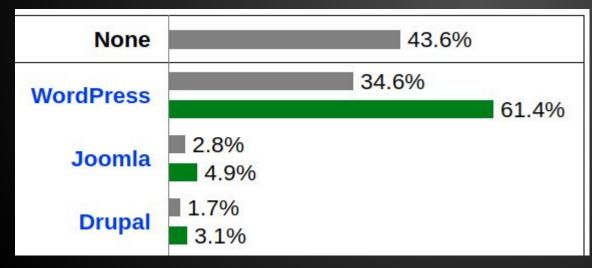


















NEW YORKER



### Winning all the things.

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

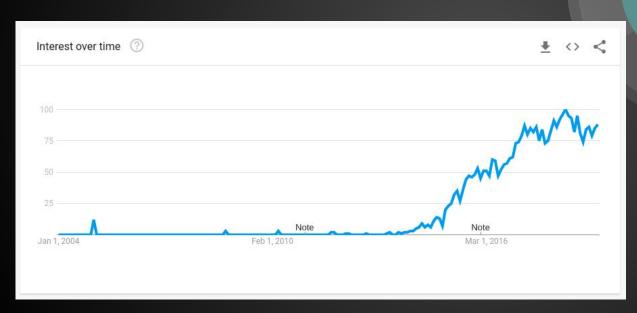


### Come, Watson, come! The game is afoot.



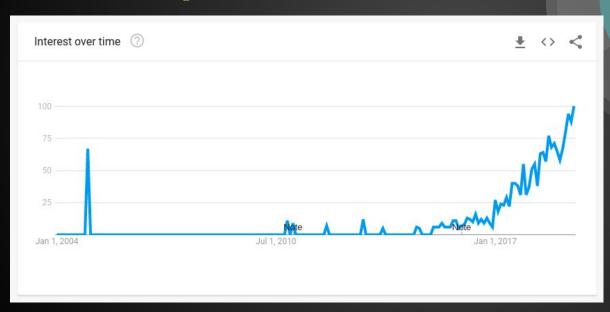


### REACT & ANGULAR 2004 to present



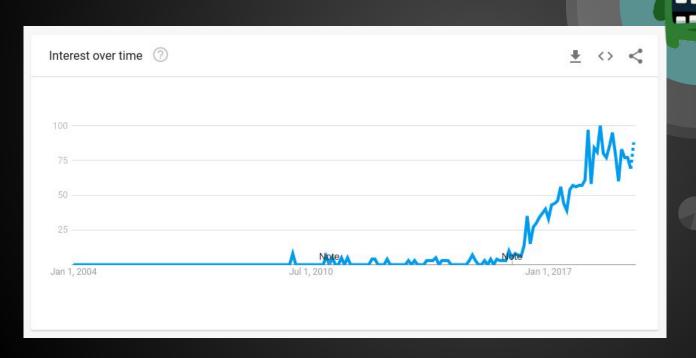


### HEADLESS CMS 2004 to present

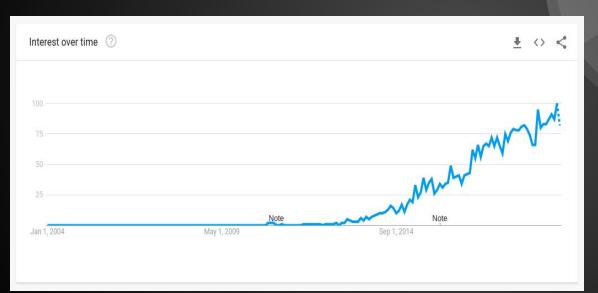




### PROGRESSIVE WEB APPS **2004 to present**

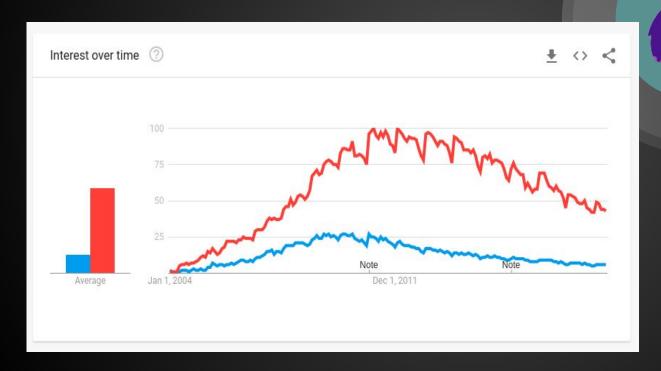


### FULL STACK DEVELOPER 2004 to present

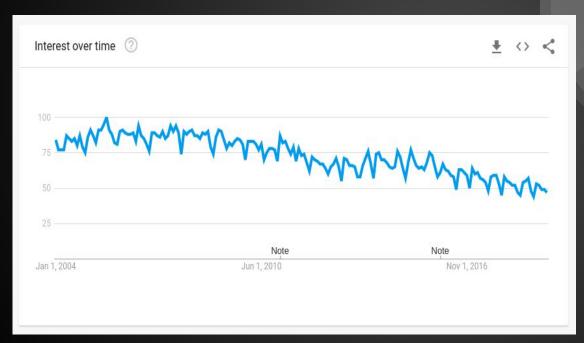




### DRUPAL & WORDPRESS 2004 to present



### CMS 2004 to present





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



な Jesus Manuel Olivas Retweeted



#### **Nader Dabit**

@dabit3

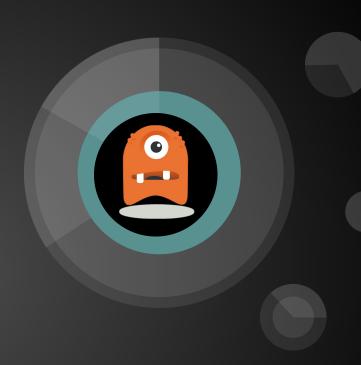
There is a massive paradigm shift happening right now. The front & back end are rapidly moving closer & closer together, assisted by the rise of managed services & serverless tech.

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.



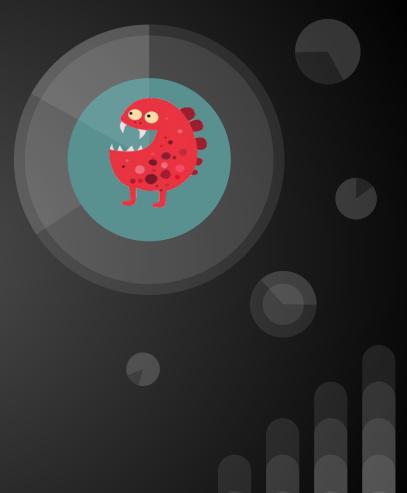
### Option A

Adobe Dreamweaver | 0.4% | 0.7% | 0.3% | 0.5%



# 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



#### **Custom applications**

Databases, tools



### Web server Database server





#### Commerce

Sell, sell, sell!



#### $\Leftrightarrow$











#### Search

Search API, Solr



APIs, migrations, importers, exporters



#### Membership/CiviCRM

Customizations, roles, reporting





shopify





Forums and galleries oh my

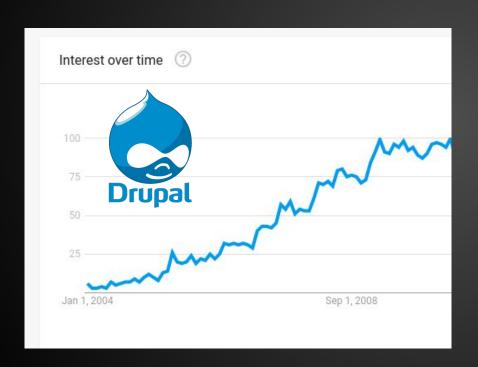
All the things!

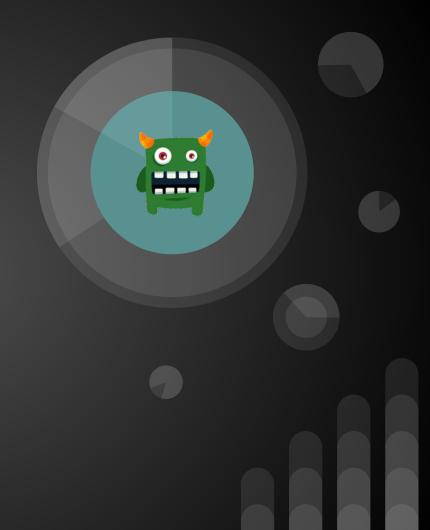
### The Golden Hammer

"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.







### Modern Web



Static files Markdown



Search (Algolia) **Custom APIs** SaaS APIs

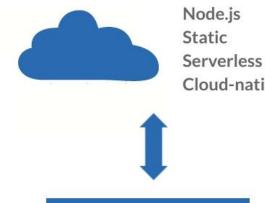


**Custom DBs** Mongo/SQLite



**JSON** XML/CSV









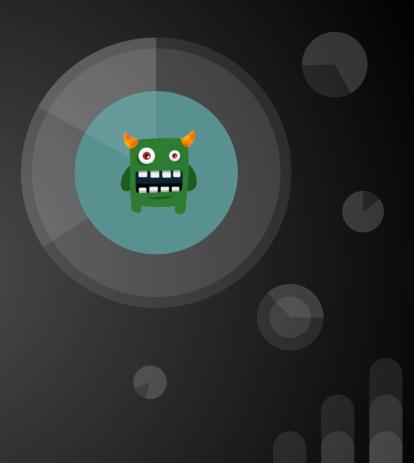
React, Angular, Vue (bring your own!)



shopify



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



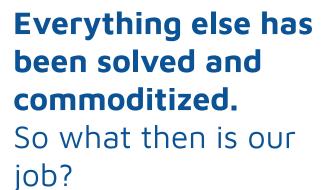














Static files Markdown



**Custom APIs** SaaS APIs



**Custom DBs** Mongo/SQLite



**JSON** XML/CSV











### This is what really matters, right?



Static files Markdown



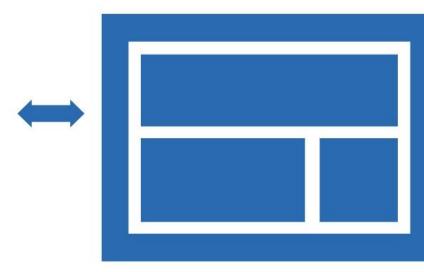
**Custom APIs** SaaS APIs



**Custom DBs** Mongo/SQLite



**JSON** XML/CSV













React, Angular, Vue (bring your own!)



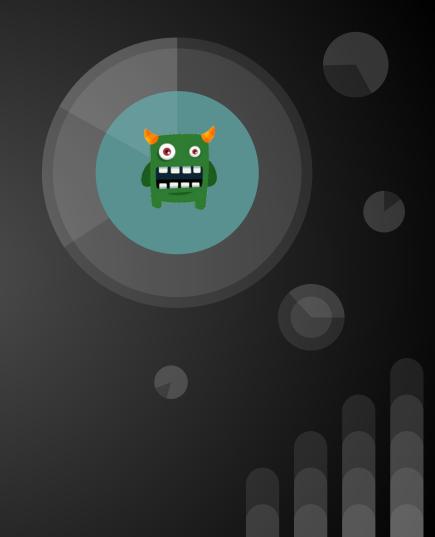




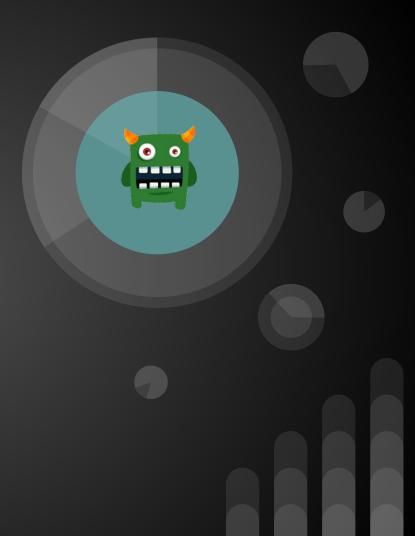
Can't Drupal also provide a good user experience?

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?



SPEED AND PERFORMANCE

**FLEXIBILITY** 

**USER EXPERIENCE** 

**DEVELOPER EXPERIENCE** 

**OVERALL COST** 







#### SPEED AND PERFORMANCE

**FLEXIBILITY** 

**USER EXPERIENCE** 

DEVELOPER EXPERIENCE

OVERALL COST

#### TRADITIONAL CMS

MODERN WEB

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











FLEXIBILITY

**USER EXPERIENCE** 

DEVELOPER EXPERIENCE

OVERALL COST

#### TRADITIONAL CMS

M O D E R N W E B

- Data agnostic
- Frontend agnostic
- Right tool for the right job



**FLEXIBILITY** 

**USER EXPERIENCE** 

DEVELOPER EXPERIENCE

OVERALL COST

#### TRADITIONAL CMS











- More effective
- More delightful



**FLEXIBILITY** 

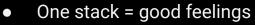
**USER EXPERIENCE** 

DEVELOPER EXPERIENCE

OVERALL COST

#### TRADITIONAL CMS





- Faster (and more fun)
- Components/NPM/hot reloading



**FLEXIBILITY** 

**USER EXPERIENCE** 

DEVELOPER EXPERIENCE

**OVERALL COST** 

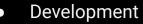
#### TRADITIONAL CMS



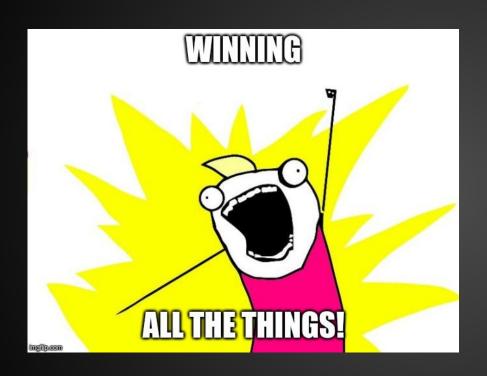






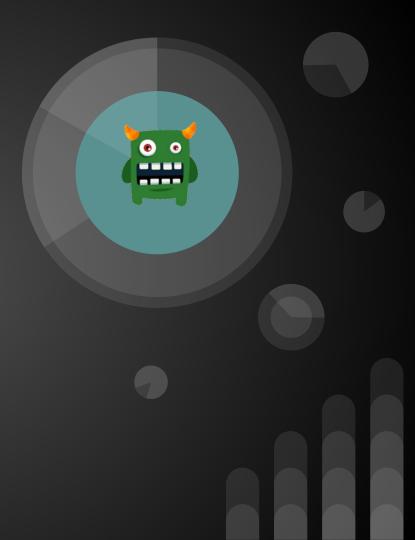


- Support and maintenance
- Hosting and infrastructure





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





#### Pay as You Grow

Talk to us

Try for fre

We offer spaces for all types of use cases, from single page apps, to campaign websites, mobile apps, etc. Below are some of our more popular ones.



#### MICRO SPACE

For teams working on single-purpose sites, mobile apps and IoT

1 sandbox environment, plus

1 role	2 locales
24 content types	5,000 records

\$39/month



#### LARGE SPACE

For teams shipping complex apps and working with multilingual content

> 5 sandbox environments, GraphQL API, plus

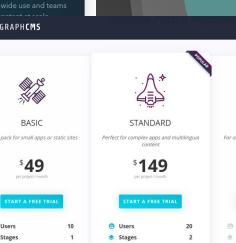
4 roles	10 locales
48 content types	50,000 records

\$879 / month



Records

Basic includes:

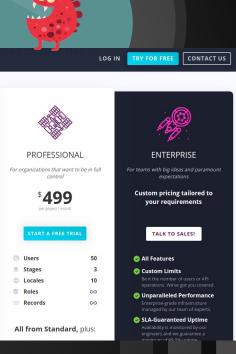


Locales

Roles

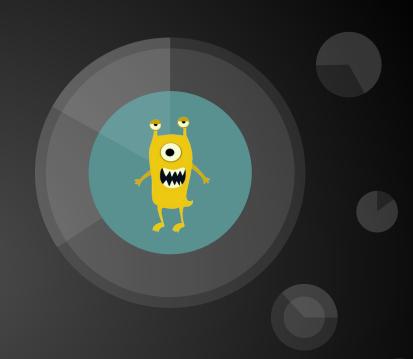
= Records

All from Basic, plus:



- Plus a million free tiers
- And plenty of open source





## State of Drupal presentation (May 2016)



- **May 12, 2016**
- 51 sec read time
- Permalink
- DrupalState of DrupalDrupalConNew Orleans

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 Amazon Echo.

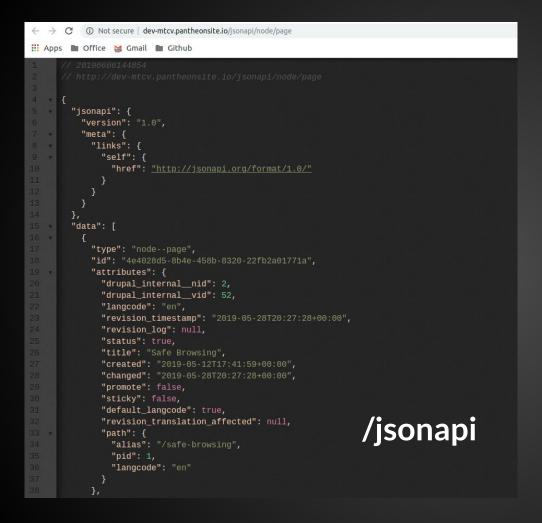


#### The best JSON:API implementation in existence

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.







## 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.

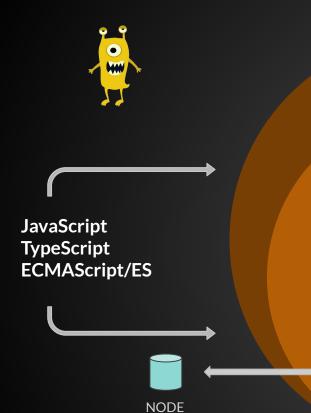


- Free and Open source
- API-first
- No "record" limitations
- No "rate" limitations
- Arguably better at the fundamentals of CMS
- Right tool for this job









**SERVER** 

React, Angular, Vue

Data Sources SSR/CSR hybrid Static build

Express, Koa, Redux, Babel, Webpack, etc

Node.js NPM SaaS
Drupal/WordPress
Managed Services (APIs)
XML/JSON/CSV
Microservices





SERVER SERVER SERVER

### React

A JavaScript library for building user interfaces

Get Started

Take the Tutorial >



### DATA SOURCES CMSs Markdown Data Contentful, Drupal, Documentation, Posts, etc. APIs, Databases, YAML, WordPress, etc. JSON, CSV, etc. BUILD powered by GraphQL 🕸 HTML · CSS · React ∰ DEPLOY Static Web Host AWS Amplify, Netlify, GitHub Pages, Surge.sh, Aerobatic, Now.sh & many more





### The React Framework for

### Server-Rendered Apps

See Showcase

License: MIT View Docs GitHub



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

Wes Bos, Feb. 2019



JAMstack: noun \'jam-stak'\

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



## The World is your Playground:

- Netlify and Now
- 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!)



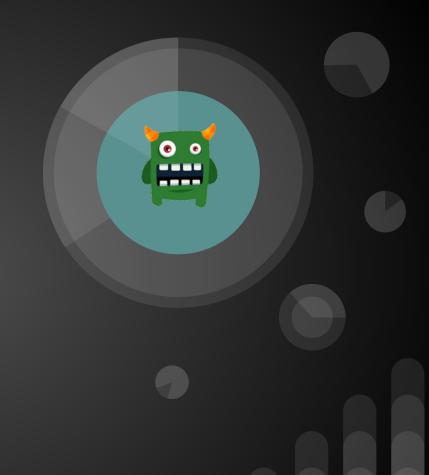
Important Realization #7:

100 duck sized horses vs one horse sized duck.











### Thank you!





