





JAVASCRIPT IS COMING TO EAT YOU





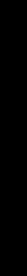


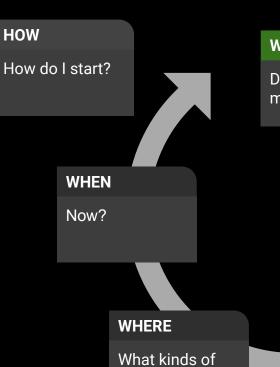


JAVASCRIPT IS COMING TO EAT YOU









sites?

WHI

WHO

Does this affect me?

WHAT

What is it??

WHY

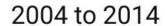
What's the point?



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.























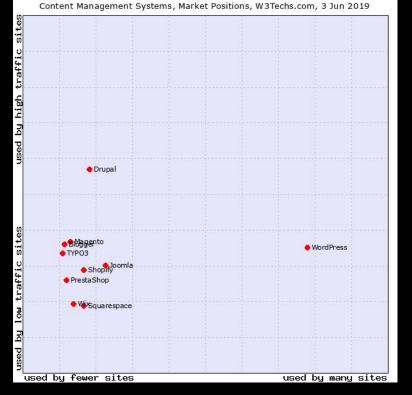


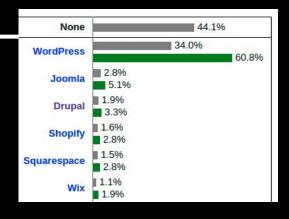




















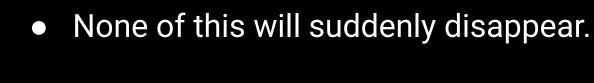








- We enjoy a billion dollar global marketplace.
- Innovation continues at great speed.
- Drupal or WordPress are still the obvious choices for MOST websites.





13 Jesus Manuel Olivas Retweeted



Nader Dabit

@dabit3

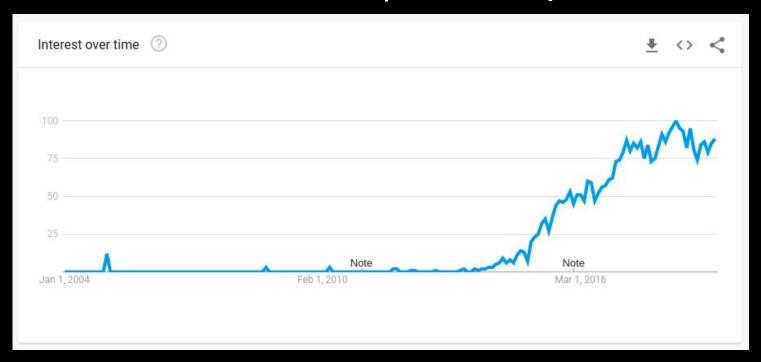
There is a massive paradigm shift happening right now. The front & back end are rapidly moving closer & closer together, assisted by the rise of managed services & serverless tech.



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

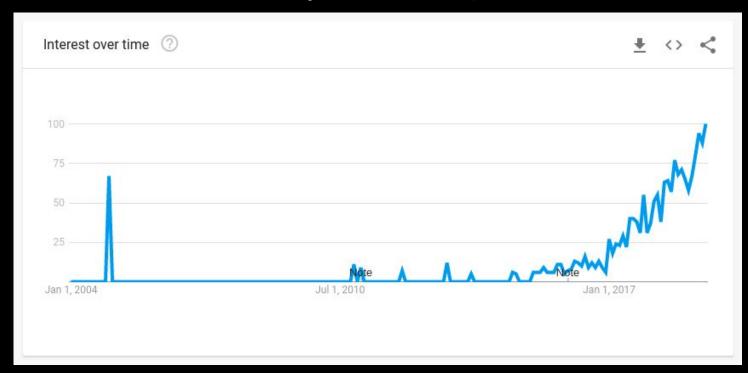
11:21 AM · 21 Apr 19 · Twitter Web Client

REACT & ANGULAR | 2004 to present



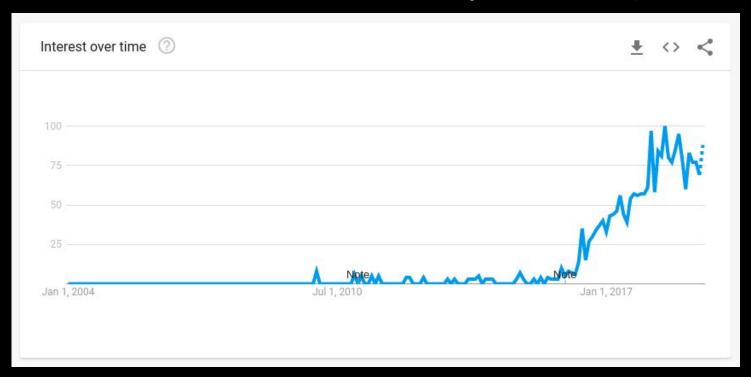


HEADLESS CMS | 2004 to present



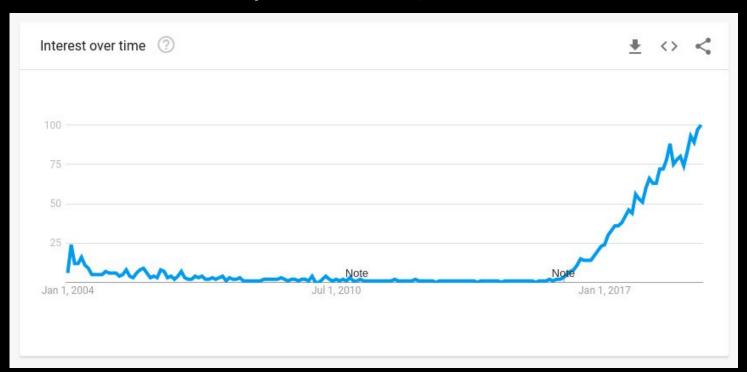


PROGRESSIVE WEB APP | 2004 to present



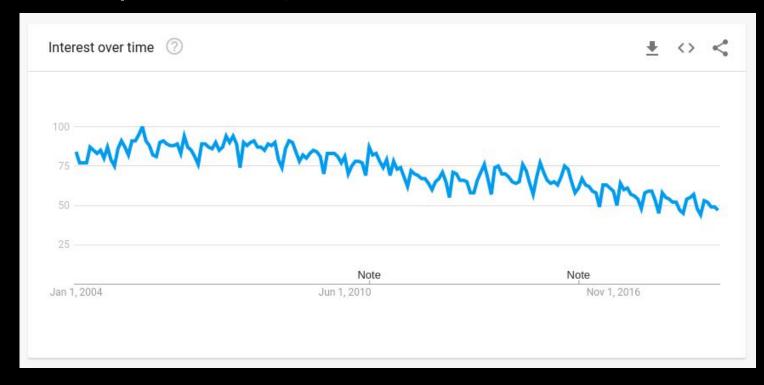


SERVERLESS | 2004 to present



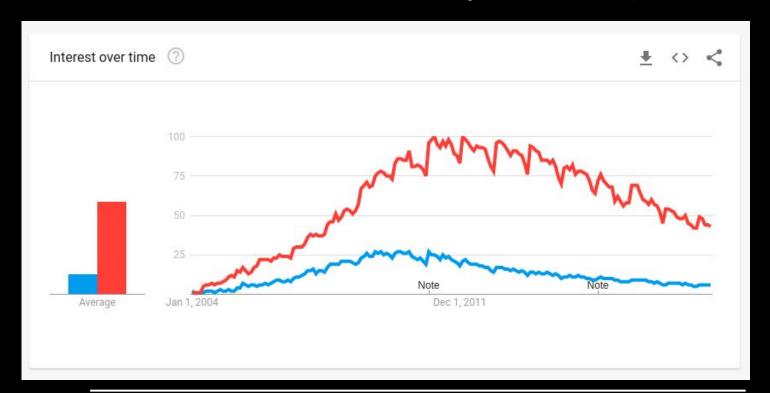


CMS | 2004 to present





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%

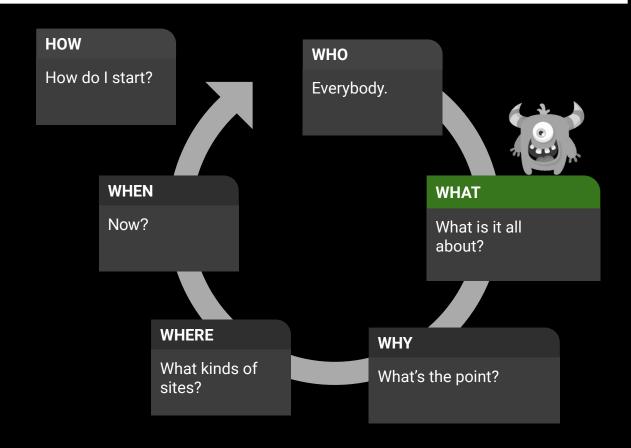
0.3%

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

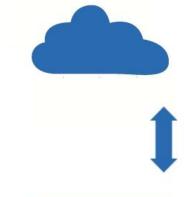


Custom DBs Mongo/SQLite



JSON XML/CSV





Node.js Static Serverless Cloud-native



React, Angular, Vue (bring your own!)

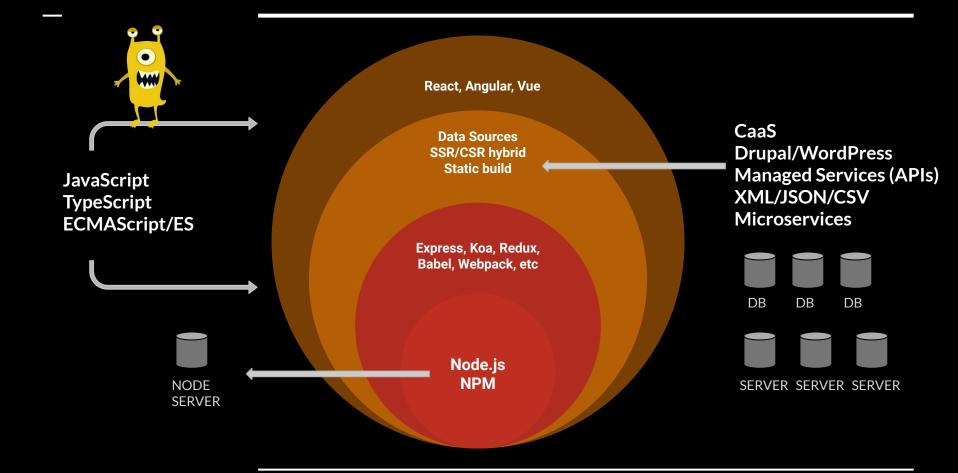


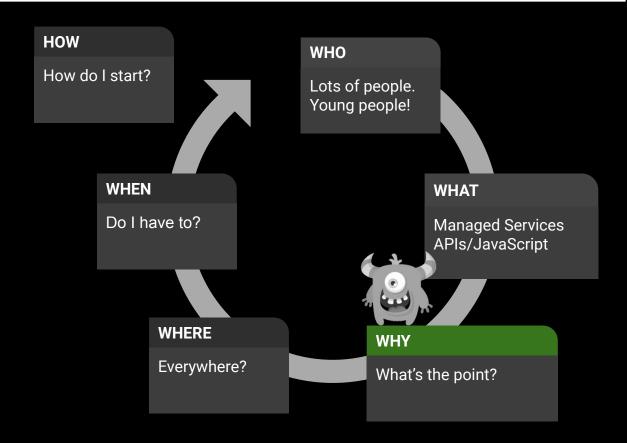








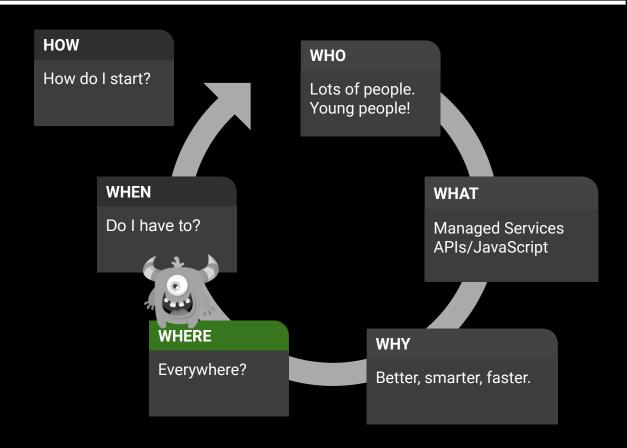




W51H

- WHY?? -

			MONOLITH	NODE	
	1	SPEED		/	Code splitting, critical renderingSSR/Static Rendering
	2	FLEXIBILITY		>	Data agosticRight tool for right job
	3	USER EXPERIENCE		>	Faster UXBetter UX
	4	DEVELOPER EXPERIENCE		>	One stack rules allNPM/Hot reload/Components
•	5	COST		/	Development/SupportInfrastructure



W51H

- WHERE?

WEBSITES

Simple websites Average websites Complex websites

WEB APPS

+

Facebook, Airbnb, Instagram, Netflix, Countless others

MOBILE APPS

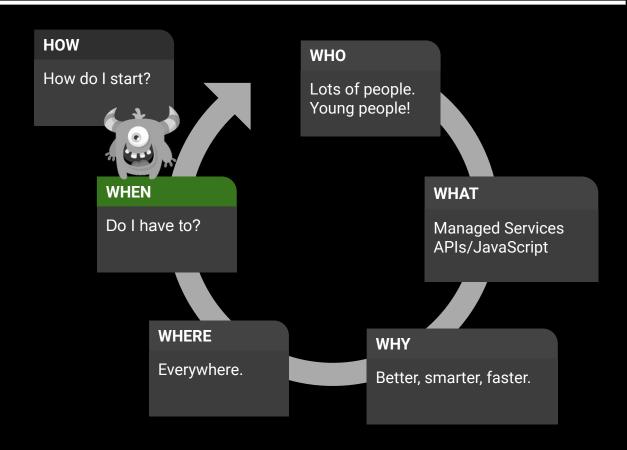
Instagram/FB Bloomberg Walmart etc.

 (\oplus)



Don't forget the Internet of Things!

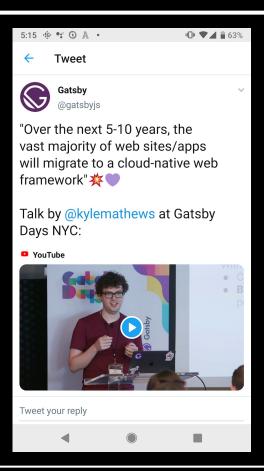
All websites are applications. All applications are websites.



W51H

WHEN?



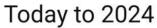




2024 to 2034

Technological Revolution: Natural Order

Continuous improvements Iterations



Technological Revolution: Liftoff

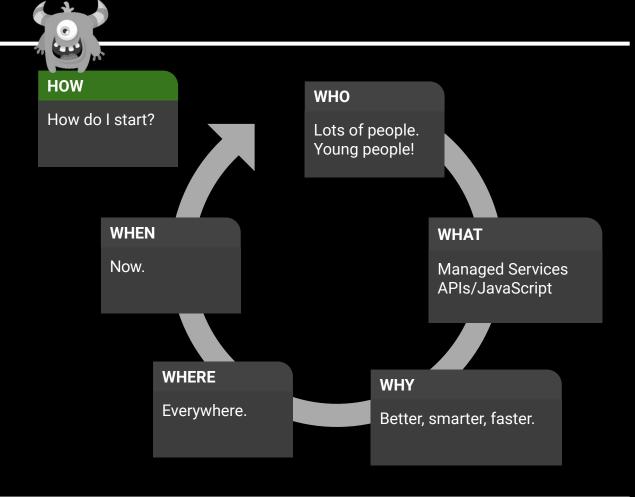
Better approaches, better tooling, better infrastructure Easier paths forward



2014 to Today

Technological Revolution: Early days

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



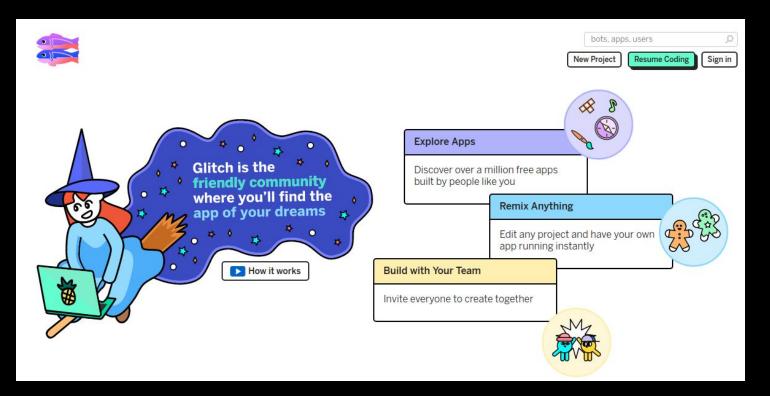
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Resources and Reading

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.

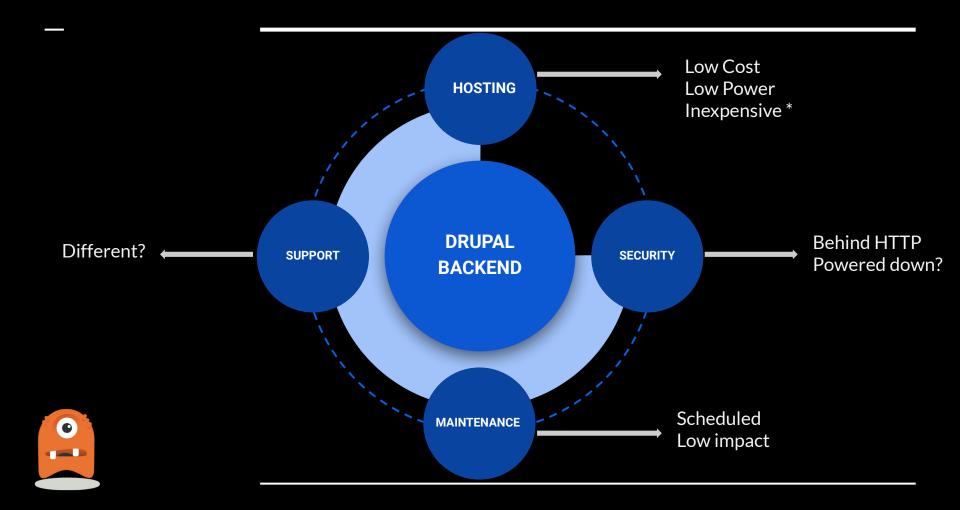
The Drupal JSON:API implementation supports every feature of the JSON:API

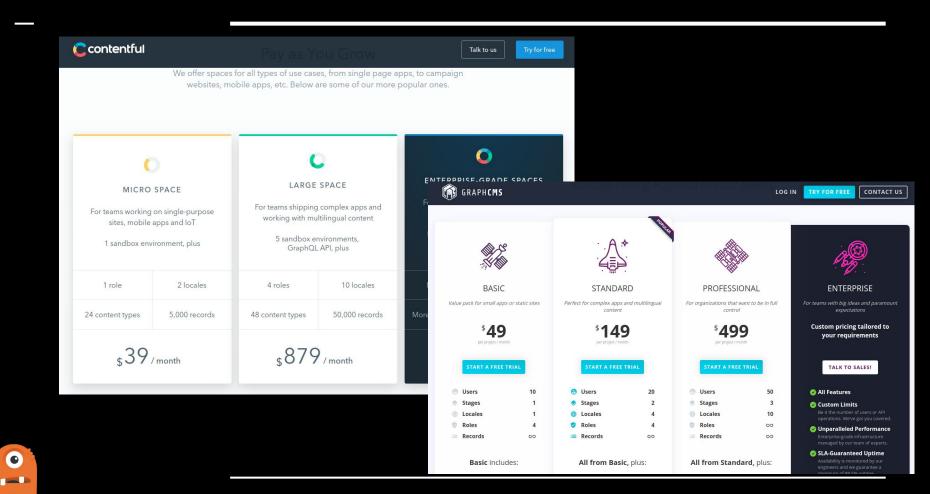
1.0 specification out-of-the-box. Every Drupal entity (i Apps to Control of C



/jsonapi

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





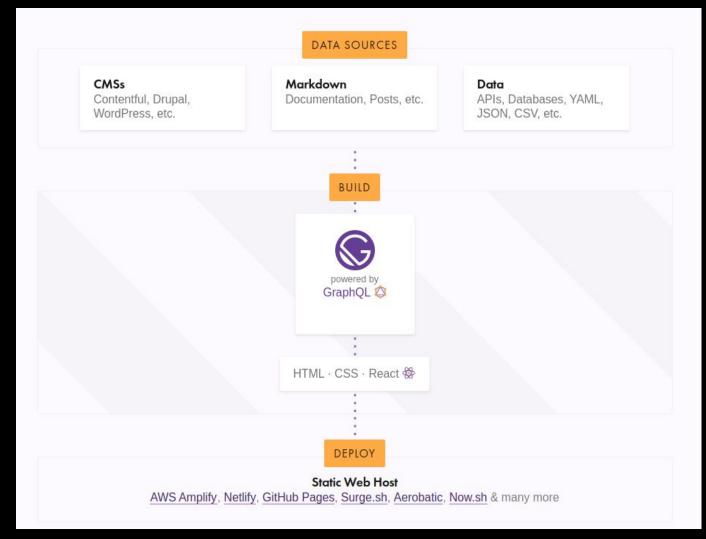
React

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

JAMstack: noun \'jam-stak'\

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









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