



DevOps Summit

...

Drupal Static Sites

John Picozzi

Solution Architect
at



Matt Obert

Director of Screening
at



Salim Lakhani

CTO and Co-Founder



DevPanelTM
DEVOPS CONTROL PANEL



Eric Guerin

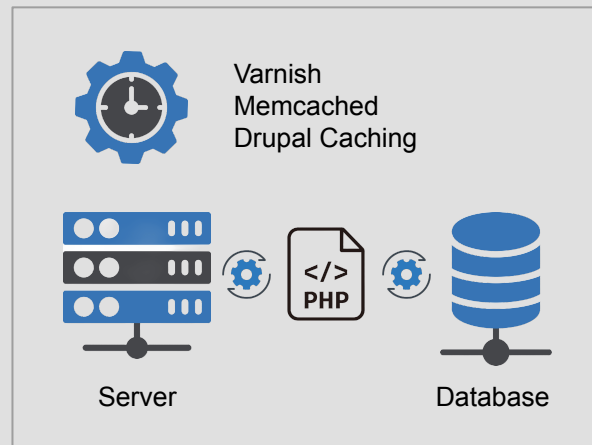
Senior Developer for
all things Drupal at

UCSF



What are Static Sites?

Number of Moving Parts...



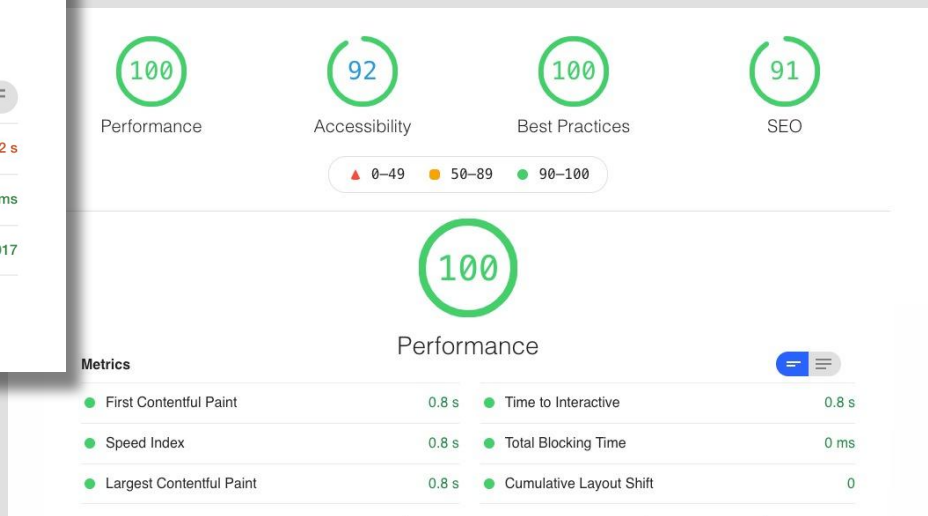
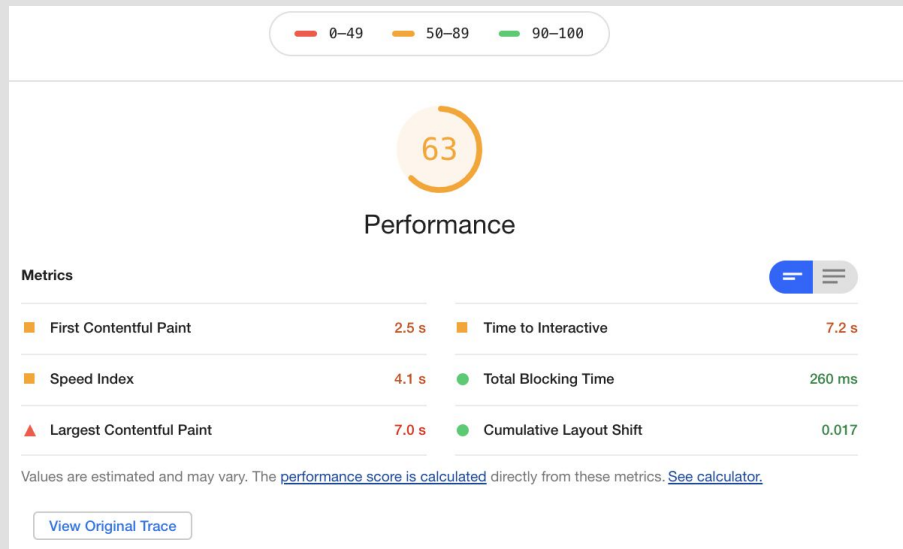
AWS CDN



AWS S3

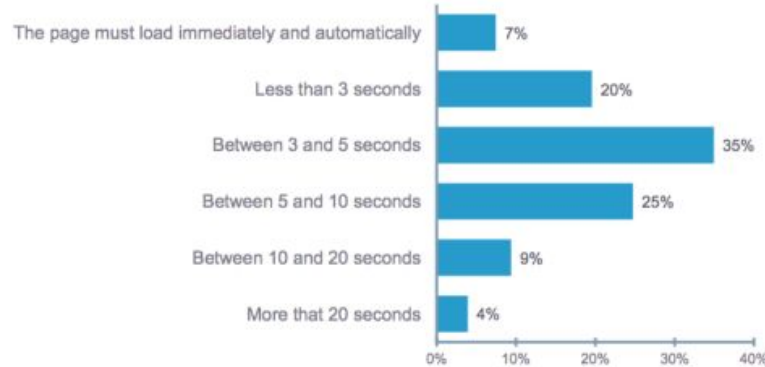
Benefits of Static Sites...

Performance...



Load times...

In your best estimate, how long are you willing to wait for a page to load while shopping?



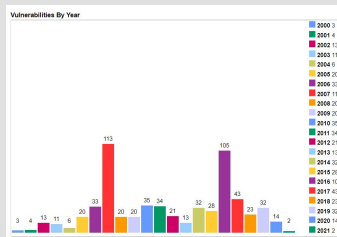
~ < 5 secs

Source:

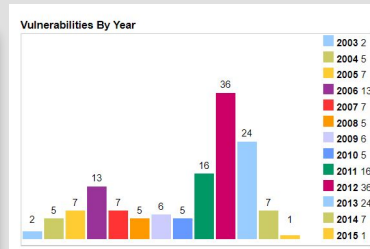
<https://medium.com/stronger-content/how-long-will-customers-wait-for-your-site-to-load-we-put-top-sites-to-the-test-545862be62c>

Security

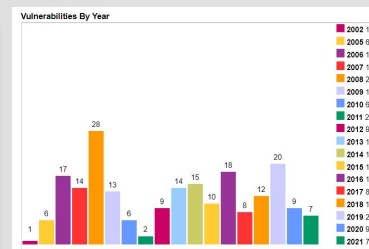
PHP



MySQL



Drupal



Removes > 99% of attack surface!



Static Website

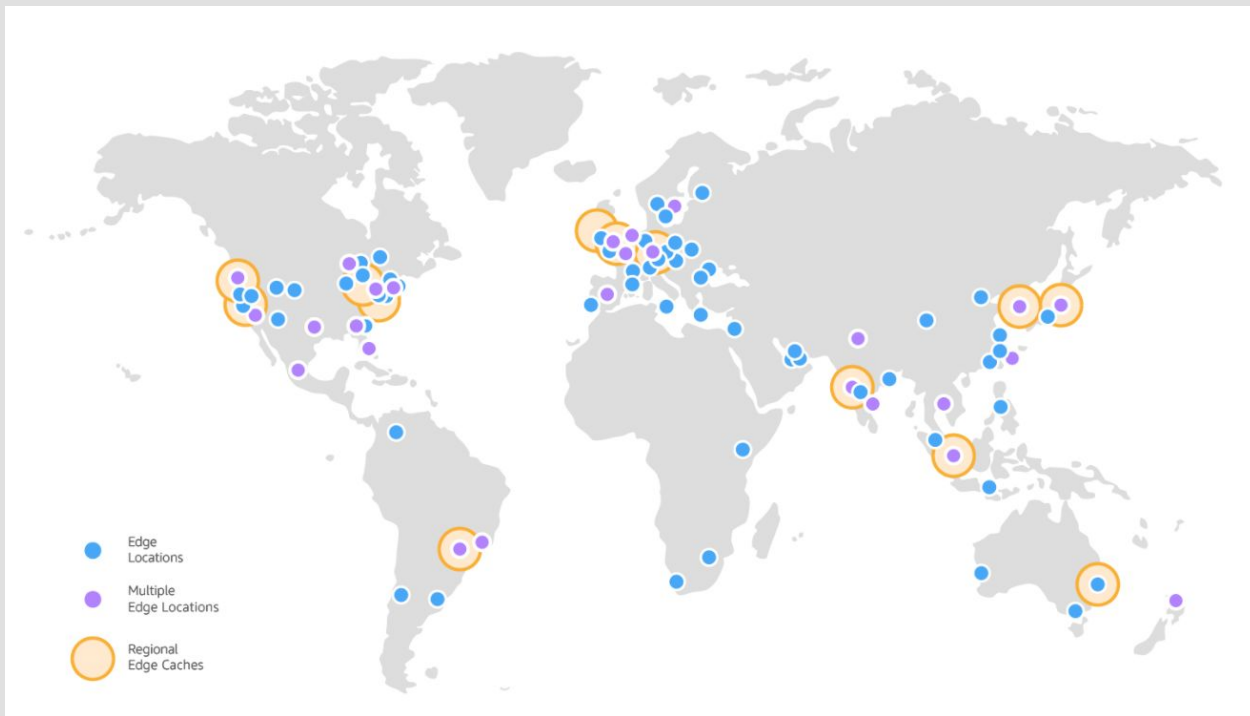


AWS CDN



AWS S3

Security and Compliance with CDN...



Security

- WAF / Shield
- DDOS Protection
- SSL / TLS & HTTPS
- Access Control

Compliance

- PCI-DSS L1, HIPAA, ISO 9001, SOC (1, 2, and 3), FedRamp Moderate, etc.

Hosting Costs...

Free Tier

50 GB of data transfer out

12 months free

2,000,000 HTTP or HTTPS Requests

2,000,000 CloudFront Function

Invocations

Each month for one year

On-demand Pricing

Regional Data Transfer Out to Internet (per GB)

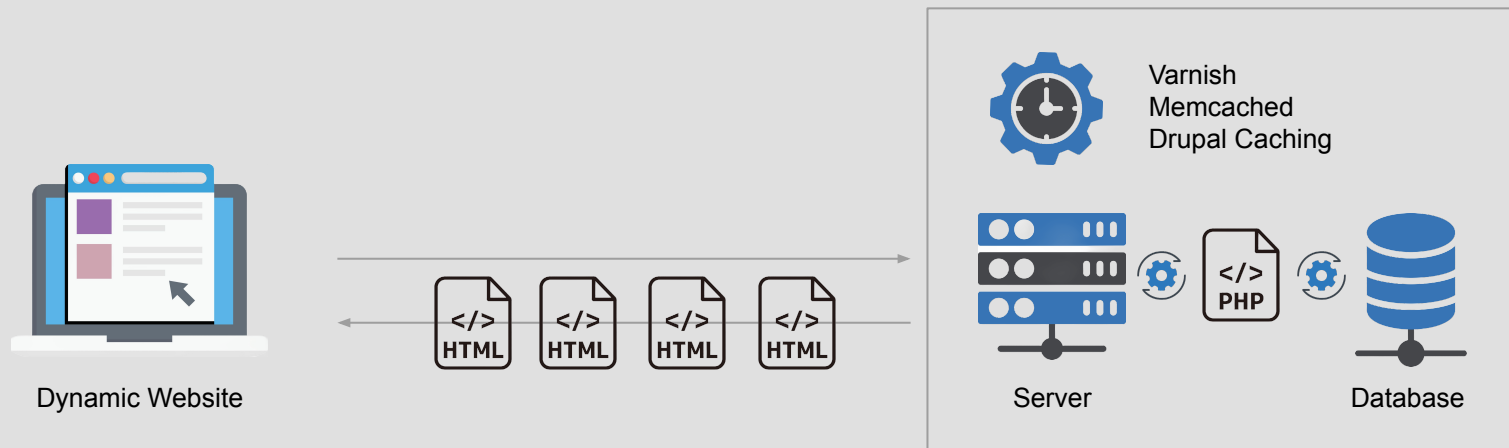
Per Month	United States, Mexico, & Canada	Europe & Israel
First 10TB	\$0.085	\$0.085
Next 40TB	\$0.080	\$0.080
Next 100TB	\$0.060	\$0.060
Next 350TB	\$0.040	\$0.040
Next 524TB	\$0.030	\$0.030

Pay for “data transfer”
not “page views”

-and-

The greater your traffic,
the less you pay!
(per GB)

Total Cost of Ownership



Engineering, Maintenance, Support, Hosting,
Performance Optimization, Security, Upgrades, etc....

Total Cost of Ownership



Engineering, Maintenance, Support, Hosting,
Performance Optimization, Security, Upgrades, etc....

Pros...

- Performance
- Load Times
- Security
- Compliance (w/ WAF)
- Cost Savings on Hosting

Cons...

- All features of Drupal
 - CRUD pages/content
 - Layout Tooling
 - Restructure site
 - Roles and permissions:
 - User management
 - Contrib Module eco-system
 - Routing, Redirect management
 - Views
 - Etc.
- Instant content updates
- Real time API access
- Search, Forms, Comments, etc.



Algolia Benefits

- API Focused
- Speed
- Synonym Suggestions
 - Kids
 - Heart
 - Foot
- Use of Multiple Front Ends

Search for a Lifespan Doctor



Abbott, Brian, MD

**Associate Chief of Cardiology, Clinical Excellence and Op
Lifespan Cardiovascular Institute**

Location:

Lifespan Cardiovascular Institute, East
Greenwich, RI ([map](#))

1454 South County Trail, 2nd Floor

East Greenwich, RI 02818

Phone: 1-855-332-8474

Specialties:

✓ Cardiology

✓ Cardiovascular Disease

✓ Echocardiography


More About this Provider >



SEARCHSTAX

SearchStax Benefits

- Managed Solr Search
- Great Dashboard / Analytics
- High Availability
- Easy Integration

 **Nashville.gov** Metropolitan Government of Nashville & Davidson County

ServicesGovernmentJobs

話 ↔ A Translate

Help me find

Meeting information prior to 2021 is still being added to the site and will be available at a later date.

Parks

Sort By Relevance

Showing 1 — 10 of 9181 results for "Parks"

Content Type

- ☐ Press Release (517)
- ☐ Page (514)
- ☐ Event (195)
- ☐ News Article (121)

[More](#)

Organization

- ☐ Planning Commission (1417)
- ☐ Planning Department (684)
- ☐ Parks And Recreation (606)
- ☐ Metropolitan Nashville Poli... (485)

[More](#)

- SUGGESTED LINK -

Parks and Recreation

August 31, 2021

Parks and Recreation

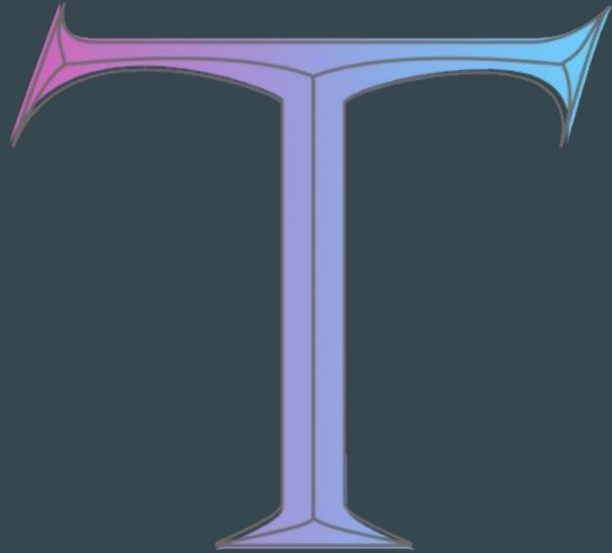
Find a [Park](#) near me Hold a Birthday Party at Wave Country Reserve a Golf Course Time Hold a Special Event in a Metro [Park](#) Learn to Ice Skate Rent a Boat Slip at Hamilton Creek Marina Register for... a [Parks](#) and Recreation Class Get a Centenn

Parking Meters

June 28, 2021

Nashville Department of Transportation and Multimodal Infrastructure [Parking](#) Meters... The purpose of [parking](#) meters is to create turnover and maximize the use of each [parking](#) space to accommodate short-term [parking](#) demand in the area. [Parking](#) Meters are placed throughout the Central... Business District and...

Drupal 8 & 9 Static Sites



When **Tome** is enabled, any changes to config, content, or files will be automatically synced to your local filesystem. These exports can be used to fully rebuild the site from scratch, which removes the need for a persistent SQL database or filesystem. When you're ready to push to production, you can use Tome to generate a static HTML version of your site.



Tome module project page on Drupal.org:

<https://www.drupal.org/project/tome>

Tome documentation:

<https://tome.fyi>

Publish **Tome** to GitHub Pages:

<https://tome.fyi/docs/hosting/github-pages>

Publish **Tome** to Netlify:

<https://tome.fyi/docs/hosting/netlify>

<https://tome.fyi/docs/hosting/hosted-drupal-netlify/>

Example (last year's DCNYC site):

<https://2020.drupalcamp.nyc>

Example (this year's DCNYC site):

<https://tome.hotwebmatter.com>

GitHub Pages example repository:

<https://github.com/drupal-tome/subdir-test>

Tome Netlify example repository:


<https://github.com/hotwebmatter/tome>



Gatsby

Gatsby Benefits


- Page Speed
- Security
- Flexibility
- Easy Integration

 Why Gatsby ▾ Products ▾ Open Source ▾ Learn ▾ Company ▾ [Get Started](#)

[Use Cases](#) → By Technology


Gatsby for Drupal Sites: Dramatically simplify development. Build rich experiences faster.

Get Started With Gatsby




Modern tools

Leverage the power of the latest web technologies including React, Webpack, GraphQL, modern JavaScript, and more to power your headless CMS journey.



High-quality websites

No matter what you need, Gatsby makes it all easy: beautiful image and video galleries, interactive forms and maps, sophisticated animations and data visualizations, instant text search, and more.



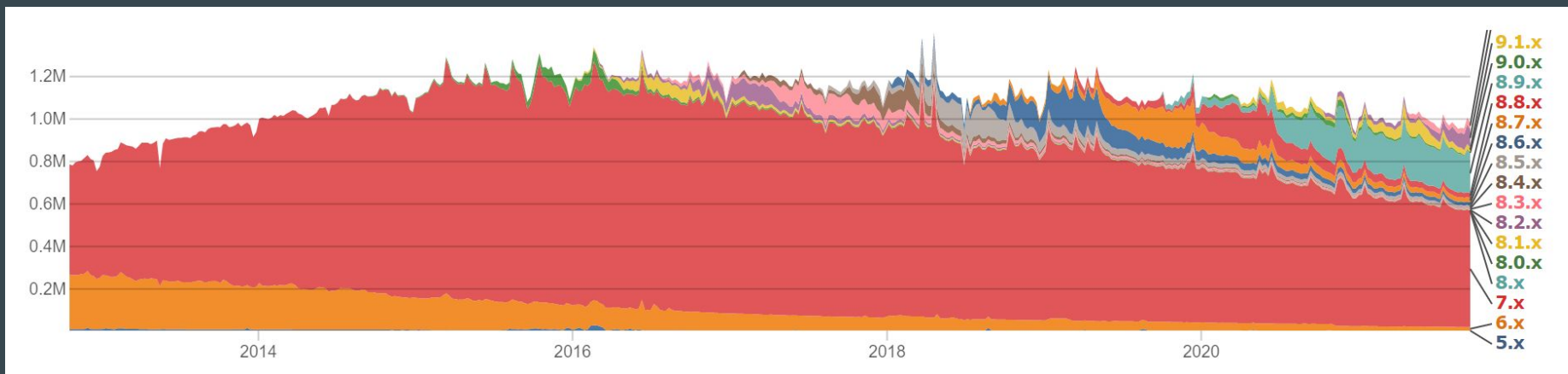
Build whatever you need

Easily add interactive functionality by leveraging the 2500+ Gatsby plugins. Go multi-site, multi-channel, and integrate with your marketing stack. [Gatsby lets you do it all.](#)

Drupal 7 Static Sites

Drupal 7 anyone?

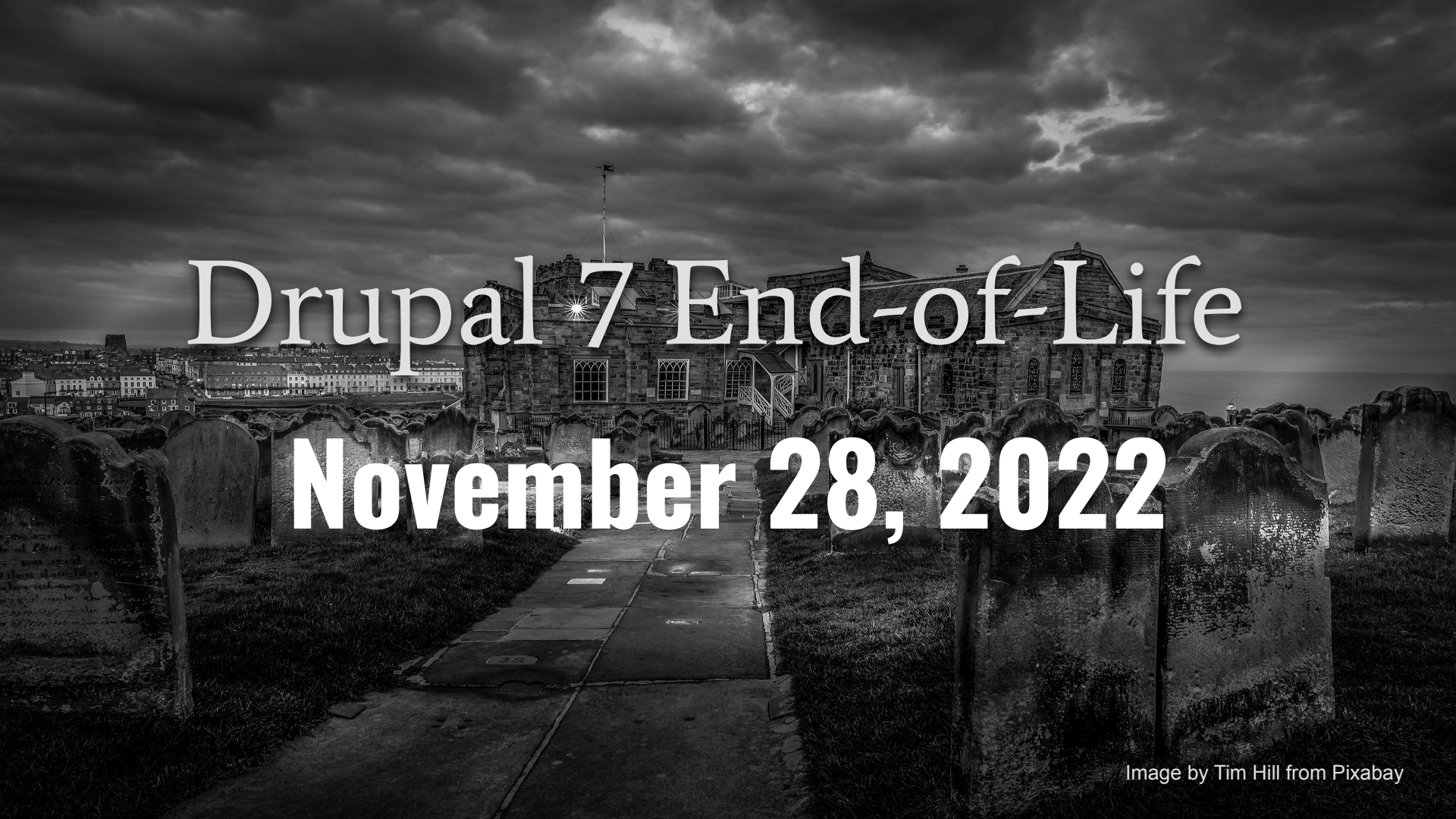
~ 550K Drupal 7 sites as of Sept 19, 2021



Use Case: University of California, San Francisco

- We maintain 1500+ Drupal 7 websites
- ~ 500 of those are custom websites
- Cost to migrate is still very expensive between Drupal 7 and 8.
- Departments don't have budgets for upgrading





Drupal 7 End-of-Life

November 28, 2022

Image by Tim Hill from Pixabay

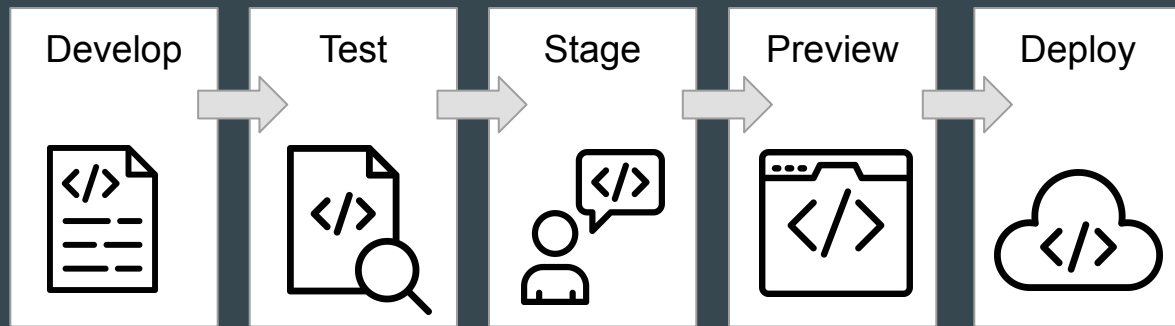


Image by [Darwin Laganzon](#) from [Pixabay](#)

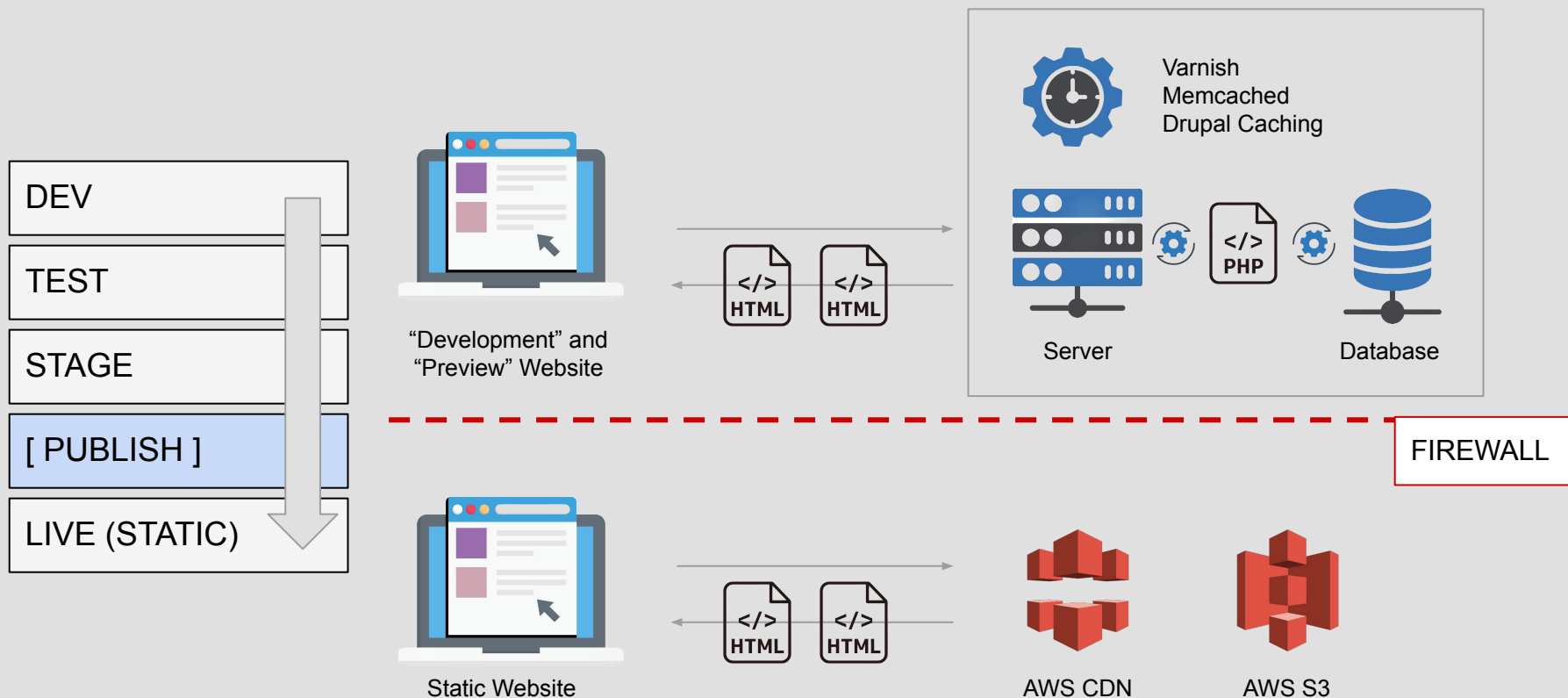
The missing “tool-chain”

No tool-chain for enterprise-grade static sites

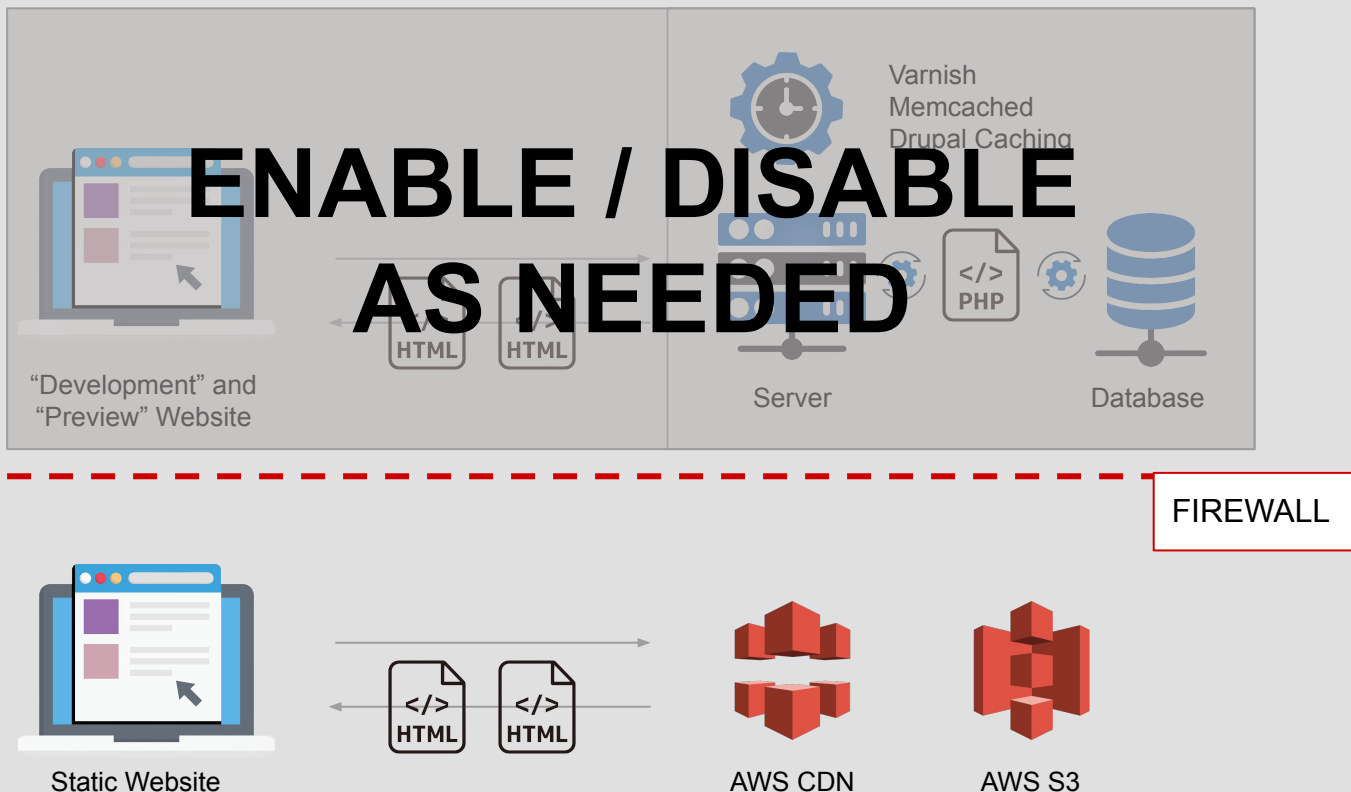
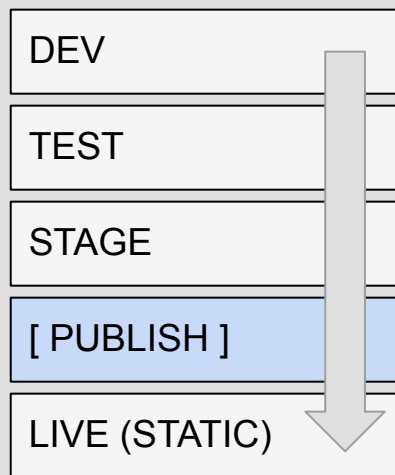
- No easy way to create and manage “Preview” sites
- No real Dev, Test, Stage, Live setup and workflow
- Manual CDN setup and configuration (images, CSS, JS)



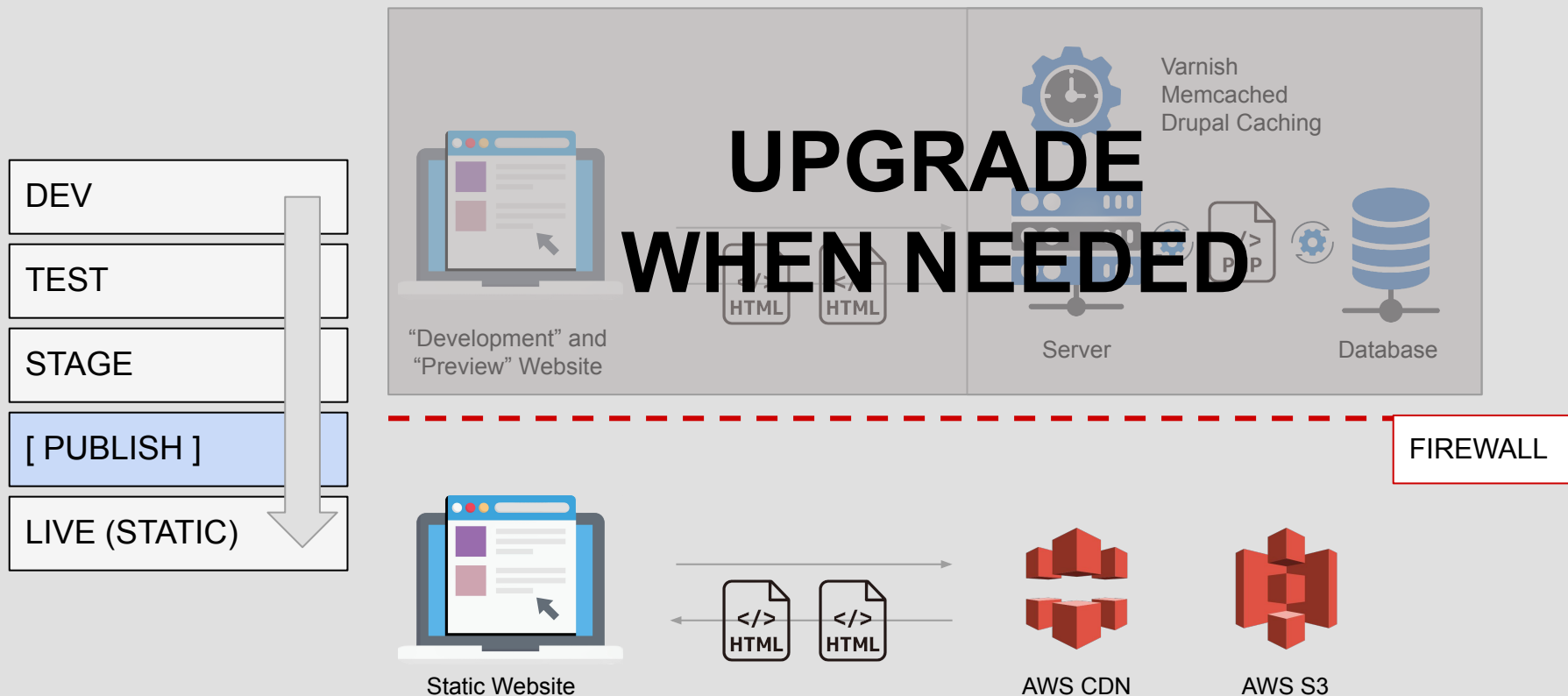
Static Site “tool-chain”



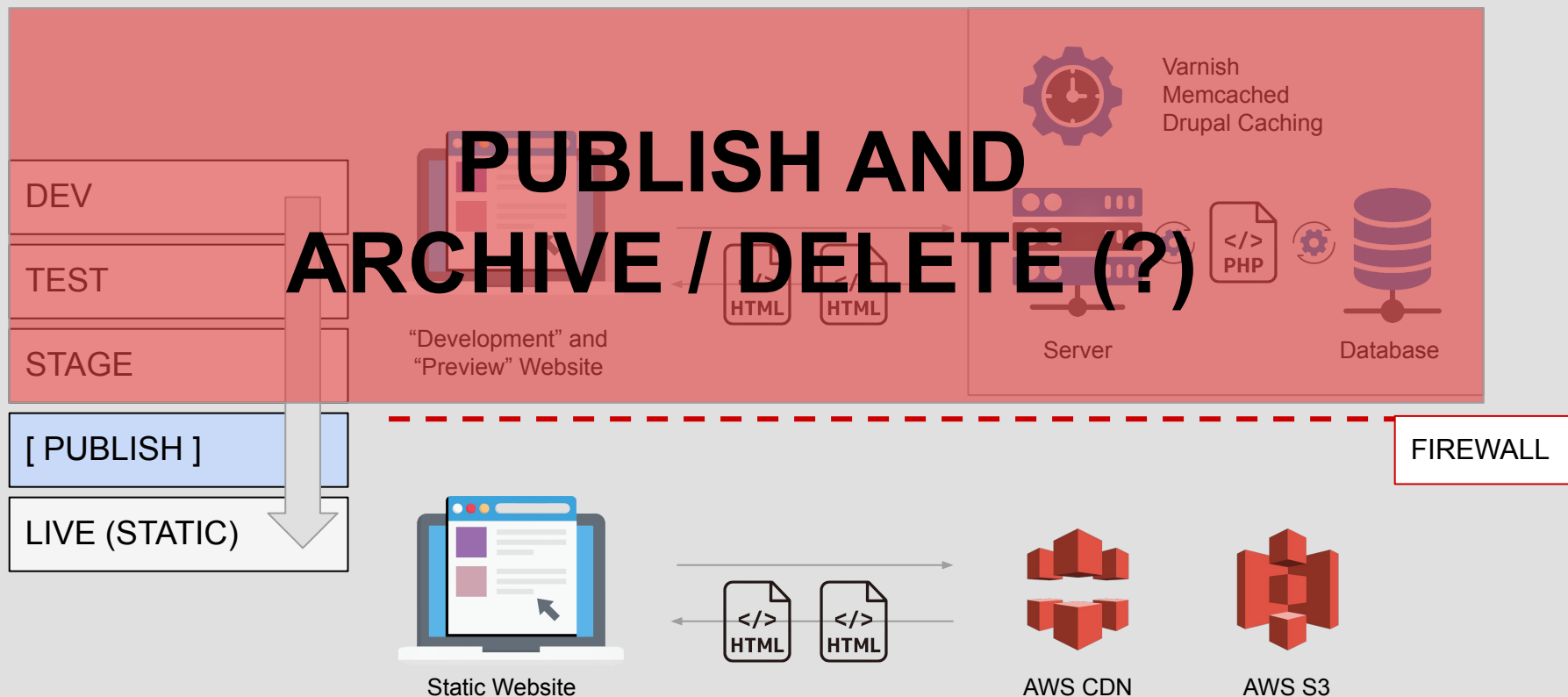
Static Site “tool-chain”



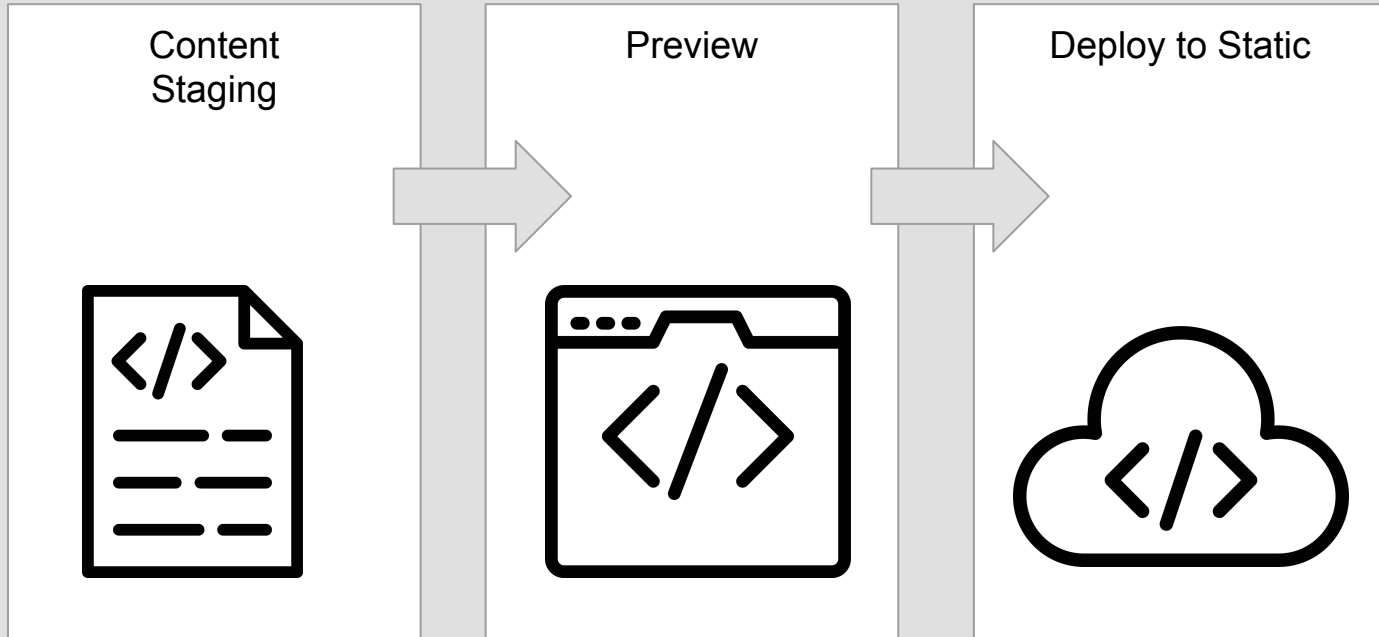
Static Site “tool-chain”



Static Site “tool-chain”



Ideal Editorial Workflow



Drupal 7 + Static Sites Demo

Tools for Drupal 7 Static Sites

- Free
 - HTTrack
 - wget
- Commercial
 - QuantCDN
 - DevPanel



GNU wget



Are static sites right for your use case?

- What about D8 & D9 sites?
- High traffic sites?
- Brochure sites?
- Simple sites?
- Low traffic sites?
- Non-interactive sites?
- Non-active sites?
- Archivable sites?
- Etc. etc.

Kinda “Static” and “Static”

- Works with Drupal...
 - Druxtjs SSG (NuxtJS)
 - Gatsby (React & GraphQL/JSON:API)
 - NextJS (Dynamic & Static)
 - Netlify CMS
 - Jekyll
- Drupal 8 & 9
 - Tome (Tome.fyi)
- Drupal 7
 - HTTRACK
 - wget



Appendix: Search and Forms...

- Search
 - ALGOLIA <https://www.algolia.com/>
 - LUNR <https://lunrjs.com/>
- Forms
 - Google Forms <https://www.google.com/forms/about/>
 - Static Forms <https://www.staticforms.xyz/> & <https://github.com/qualascend/staticforms-nextjs-zeit>
 - FormSpree <https://formspree.io/> & <https://github.com/formspree/formspree>
 - Netlify Forms <https://docs.netlify.com/forms/setup/>
 - Forms Keep <https://formkeep.com/>
 - Kwes Forms <https://kwesforms.com/>
- Comments, Forums, etc.



Thank you! Feel free to ask a question.