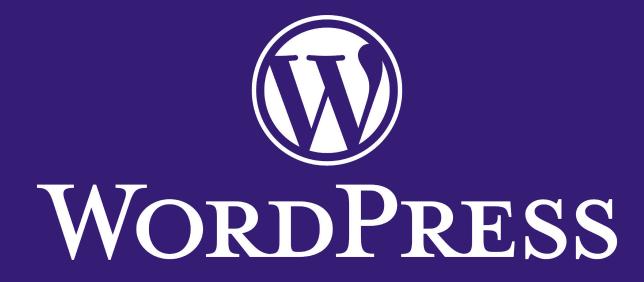
Scaling WordPress

Next.js

Colby Fayock
Developer Advocate



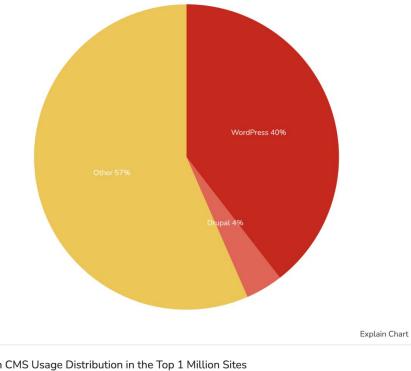




Home / Trends / Content Management System

CMS Usage Distribution in the Top 1 Million Sites

Distribution for websites using CMS technologies



Technology	Websites	%
WordPress	346,776	34.68
Drupal	34,573	3.46
G Google Search Appliance	25.782	2.58

876,862 Detections

of Content Management System in the Top 1 Million Sites. Last updated 26th May 2021.

WordPress is currently the most popular technology in this category.

Top 1m Top 1,000,000 sites by traffic	876,862
Top 100k Top 100,000 sites by traffic	143,999
Top 10k Top 10,000 sites by traffic	21,792
Entire Internet	63,596,048
🔁 India	444,805
United States	24,312,838
Germany	2,618,150
👫 United Kingdom	2,019,342
Russia	1,430,983
Italy	889,070
France	835,638
Netherlands	783,992
l* Canada	804,768
🎽 Australia	675,790
💿 Brazil	535,143
Spain	514,679
Japan	435,872
- Poland	332,601

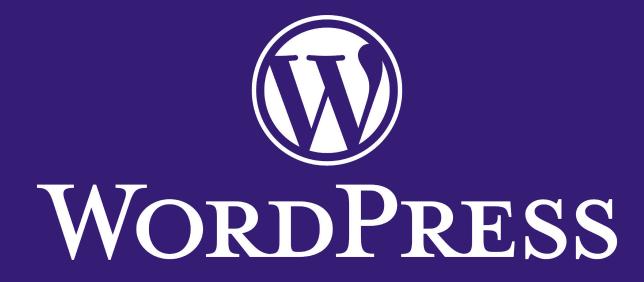
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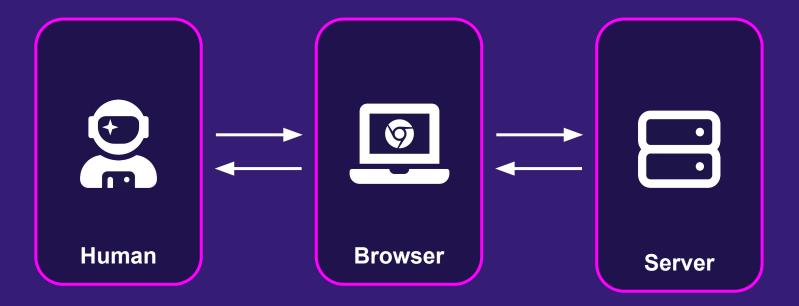
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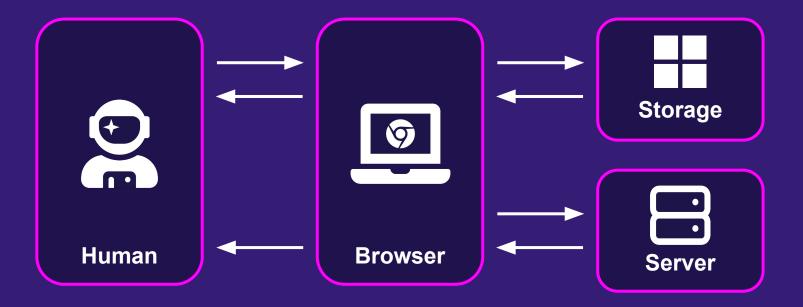


What is "headless"?

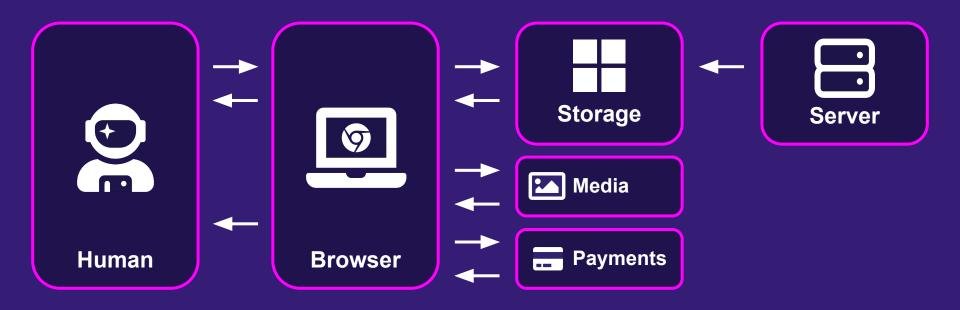
Traditional



Headless



Headless + Static

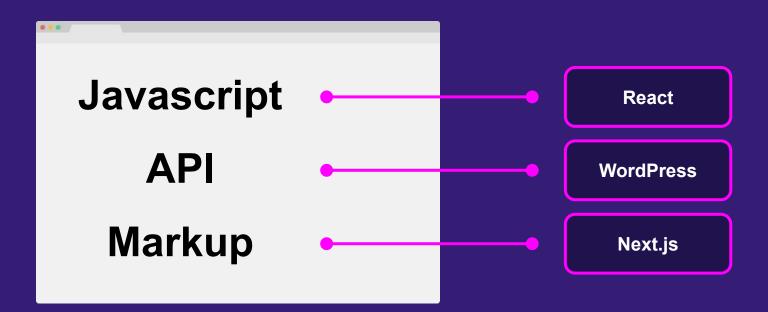


What is "Jamstack"?

Jamstack



Jamstack



Why headless?

Why Jamstack?

Why not regular WordPress?

Jamstack











Operational Excellence Security

Reliability

Performance Efficiency Cost Optimization



Performance

Plugins

My Favorites Beta Testing Developers

Q

Showing results for: cache



LiteSpeed Cache

All-in-one unbeatable acceleration & PageSpeed improvement: caching, image/CSS/JS optimization...

LiteSpeed Technologies 1+ million active installations
Tested with 5.5.1



W3 Total Cache

cache

Search Engine (SEO) & Performance Optimization (WPO) via caching. Integrated caching: CDN, Page, Minify, Object, Fragment, Database support.

📥 BoldGrid

🖬 1+ million active installations 🕥 Tested with 5.5.1



WP Fastest Cache

 $\bigstar \bigstar \bigstar \bigstar \bigstar (3,215)$ The simplest and fastest WP Cache system



WP-Optimize – Clean, Compress, Cache.

WPOptimize

Makes your site fast and efficient. It cleans the database, compresses images and caches pages. Cached sites attract more traffic and users.

👗 Emre Vona

Performance

•

aws	Services 🗸 Resource C	🕞 📘 🛛 Elements Console	Sources	Network	Perfo	ormance Memo	ry Application	Elements Console Source	es Network Performance Memory Applic
		🔴 🛇 🍸 🔍 🗌 Preserve la	og 🔽 Disa	able cache	Online	• <u>+</u> <u>+</u>		🕚 🛇 🍸 🔍 🗌 Preserve log 🗹	Disable cache 🛛 Online 🔻 🛓 🛓
Q	Type a prefix and press Enter to sea	Filter Hid	de data URI	Ls All XH	r js c	SS Img Media	Font Doc WS Ma	a Filter 🗌 Hide data	URLs AU XHR JS CSS Img Media Font Doc
		Blocked Requests						Blocked Requests	
		50 ms	100 ms		1!	50 ms	200 ms	50 ms 100 ms	150 ms 200 ms 250 ms
1 U	pload + Create folder				-				
	componentsrc-templates-								
	Componentsrc-templates-	Name	Status	Туре	Initi	Size	Time v Wa	a Name	× Headers Preview Response Initiator
	o componentsrc-templates-	page-data.json	200	json	<u>pref</u>	35.1 kB	45 ms	app-68985b05b0da25bfb78b.js	▼ General
		componentsrc-templates-po	200	javascript	<u>pref</u>	2.3 kB	39 ms	page-data.json	Request URL: http://colbyfayock.com.s3-w
	Componentsrc-templates-	app-68985b05b0da25bfb78b.js	200	script	<u>(ind</u>	114 kB	36 ms	commons-c11bf753e4e20f81649e.js	Request Method: GET
	componentsrc-templates-1	styles-f4fca833434e9b8756b5.js	200	script	<u>(ind</u>	486 B	34 ms	webpack-runtime-ff7acf49e4604a8f0bd8.js	
		gtm.js?id=GTM-NJ75NM>m	200	script	<u>(ind</u>	28.9 kB	32 ms	page-data.json	Remote Address: 52,216,143,163;80
	Componentsrc-templates-t	commons-c11bf753e4e20f816	200	script	<u>(ind</u>	160 kB	30 ms	gtm.js?id=GTM-NJ75NM>m_cookies	
	favicon.gif	page-data.json	200	json	<u>(ind</u>	472 B	29 ms	colbyfayock.com.s3-website-us-east-1.a	. Referrer Policy: no-referrer-when-downgrade
	a lavicon.gii	colby-fayock-bite-world.jpg	200	jpeg	<u>(ind</u>	51.6 kB	29 ms	page-data.json	▼ Response Headers view source
	றி index.html	colbyfayock.com.s3-website-u	200	docum	Other	72.3 kB	29 ms	styles-f4fca833434e9b8756b5.js	Content-Length: 71955
		page-data.json	200	xhr	<u>VM</u>	19.7 kB	28 ms	colby-fayock-bite-world.jpg	Content-Type: text/html
	resume.pdf	page-data.json	200	xhr	<u>VM</u>	19.7 kB	27 ms	page-data.json	Date: Mon, 07 Sep 2020 02:04:44 GMT
	(b) styles-f4fca833434e9b8756b	favicon-e7251aa0ffb9bcbef691	200	png	Other	25.2 kB	27 ms	css?family=Source+Sans+Pro:400,600,700	ETag: "b8f7bd3c920771bda901ccecef75a05f"
	_	page-data.json	200	xhr	<u>VM</u>	35.1 kB	26 ms	page-data.json	Last-Modified: Wed, 19 Feb 2020 00:54:41
	styles-f4fca833434e9b8756b	css?family=Source+Sans+Pro:	200	stylesh	<u>(ind</u>	821 B	26 ms	page-data.json	Server: AmazonS3
	ふ styles.31968c143acc1eddc48	page-data.json	200	json	<u>pref</u>	19.7 kB	24 ms	componentsrc-pages-index-js-e09aeb	
	··· ····	componentsrc-pages-index-j	200	script	(<u>ind</u>	33.9 kB	24 ms	page-data.json	x-amz-request-id: BCA69B162EE48601
	webpack-runtime-ff7acf49e4	webpack-runtime-ff7acf49e460	200	script	<u>(ind</u>	4.3 kB	23 ms	favicon-e7251aa0ffb9bcbef691127fb85c	
		app-data.json	200	xhr	<u>VM</u>	390 B	23 ms	app-data.json	▼ Request Headers view source
	webpack-runtime-ff7acf49e4	page-data.json	200	xhr	<u>VM</u>	35.1 kB	23 ms	analytics.js	Accept: text/html,application/xhtml+xml,
	webpack.stats.json	analytics.js	200	script	<u>gtm</u>	18.4 kB	13 ms	collect?v=1&_v=j85&a=1341425568&t=p	. g,*/*;q=0.8,application/signed-exchange;
		collect?v=1&_v=j85&a=408353	200	gif	<u>anal</u>	61 B	12 ms	componentsrc-templates-post-js-a76	Accept-Encoding: gzi
Feedback	🔇 English (US)								Accept-Language: en- @colbyfayock



5×× SERVER ERROR

503 SERVICE UNAVAILABLE

The server is currently unable to handle the request due to a temporary overload or scheduled maintenance, which will likely be alleviated after some delay.

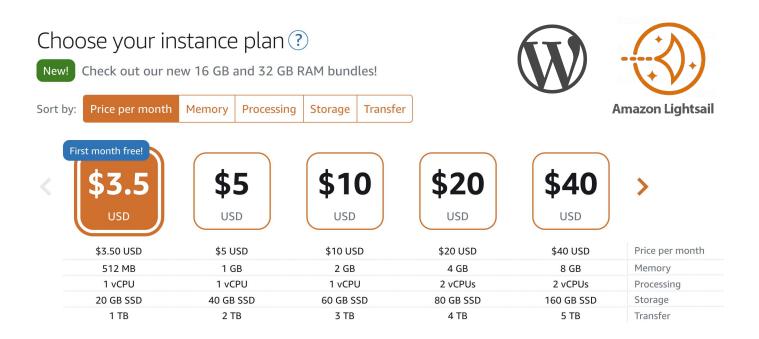
Reliability



Reliability



Cost



Cost

Storage	pricina
Storage	pricing

S3 Standard - General purpose storage for any type of data, typically used for frequently accessed data	
First 50 TB / Month	\$0.023 per GB
Next 450 TB / Month	\$0.022 per GB
Over 500 TB / Month	\$0.021 per GB

	PUT, COPY, POST,	GET, SELECT, and all	Lifecycle Transition	Data Retrieval	Data
		other requests (per 1,000 requests)	requests (per 1,000 requests)	requests (per 1,000 requests)	retrievals (per GB)
S3 Standard	\$0.005	\$0.0004	n/a	n/a	n/a

Why "headless" WordPress?

What's WordPress good at?

User Experience

What's WordPress good at?

User Experience

Familiarity

What's WordPress good at?

User Experience

Familiarity

Ecosystem

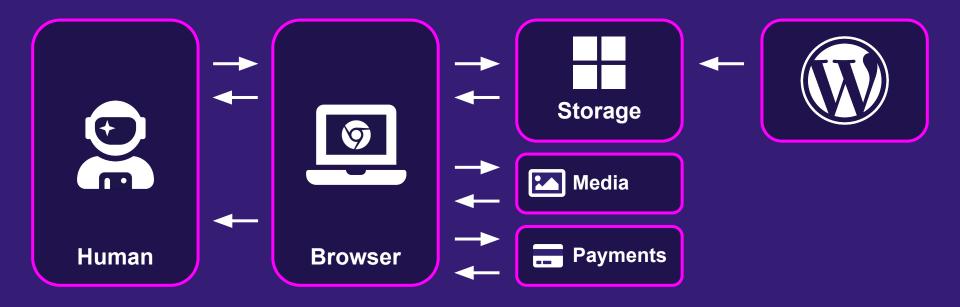
How about WordPress?!

WordPress API

	S.ORG	Search WordPress.org
Showcase Themes Plugins	Mobile Support Get Involved About Blog Hosting	Get WordPress
REST API Handbo	ook	
Search Q	Browse: Home / REST API Handbook	
REST API Handbook Key Concepts Frequently Asked Questions Using the REST API	 The WordPress REST API provides an interface for applicat to interact with your WordPress site by sending and receiv data as JSON (JavaScript Object Notation) objects. It is the foundation of the <u>WordPress Block Editor</u>, and can likewise enable your theme, plugin or custom application to preser new, powerful interfaces for managing and publishing you content. 	e What Is A REST API? t Using the WordPress REST API
Extending the REST API	 Using the WordPress REST API you can create a plugin to provide an entirely new admin experiences for WordPress experience, or bring your WordPress content into complet 	

WPGraphQL

🗥 Next.js WordPress Starter 🔎 0 🕂 New 🚺 🕗 🏠 GraphiQL IDE Howdy, Colby Fayock 🚧 WP Engine GraphiQL Prettify History Explorer Code Exporter < Docs Explorer X Dashboard Last: where: 1 v query MyQuery { V ▼ edges 2 . "data": { posts { 🖈 Posts cursor 3 . edges { "posts": { ▼ node 4 . **9** Media node { "edaes": [▶ author 5 title authorDatabaseId Pages 6 uri "node": { authorId 7 "title": "How to Manage SEO in Headless WordPress with Yoast SEO excerpt Comments ▶ categories 8 3 and WPGraphQL", commentCount 9 "uri": "/2021/05/10/how-to-manage-seo-in-headless-wordpress-withcommentStatus 10 } yoast-seo-and-wpgraphql/", Appearance 11 "excerpt": "SEO is a critical part of any website or ▶ comments 12 application. Without it, Google might not be able to find your page or it might content 🖌 Plugins not look right in search results or social platforms. How can we leverage contentType popular WordPress plugin Yoast SEO using a headless WordPress instance with databaseId 📥 Users Next. is and WPGraphOL? Note: this was originally $[\…]\n"$ date 差 Tools dateGmt }, desiredSlug Settings ▶ editingLockedBy "node": { enclosure "title": "How to Create a Headless WordPress Bloa with Next.is 🚺 SEO 🙆 ▶ enqueuedScripts WordPress Starter", ▶ enqueuedStylesheets "uri": "/2021/04/30/how-to-create-a-headless-wordpress-blog-with-🖄 GraphQL ✓ excerpt next-js-wordpress-starter/", format: "excerpt": "Blogs are a great way to get down your thoughts to Settinas ▶ featuredImaae help others learn, keep track of progress, or even to help reinforce an idea to featuredImageDatabaseId help yourself learn. WordPress is a popular blog platform that's been around GraphiQL IDE for a while and Next.js is a modern popular web framework for building React featuredImageId apps. How can […]\n" guid Collapse menu lid isPreview @colbyfayock isRestricted Ilmadella F



Next.js WordPress Starter

Docs About GitHub

wordpress

How to Create a Headless WordPress Blog with Next.js WordPress Starter

How to Manage SEO in Headless WordPress with Yoast SEO and WPGraphQL

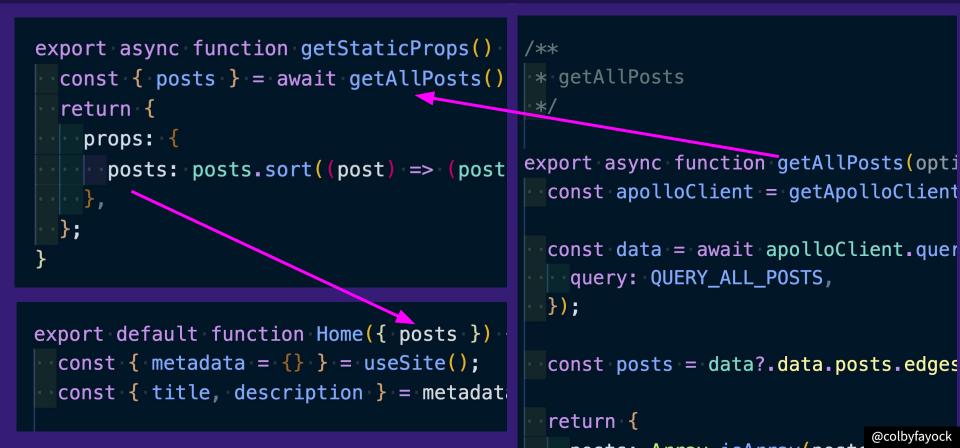
Next.js WordPress

Scaling WordPress to the static web!

How to Create a Headless WordPress Blog with Next.js WordPress Starter

By Colby Fayock April 30th, 2021 Getting Started and more

Blogs are a great way to get down your thoughts to help others learn, keep track of progress, or even to help reinforce an idea to help yourself learn. WordPress is a popular blog platform that's been around for a while and Next.js is a modern popular web framework for building React apps. How can...



```
export async function getStaticPaths(
                                        async function getStaticProps({ params = {
  const { posts } = await getAllPosts
                                       t {    post } = await getPostBySlug(params?.sl
  const paths = posts.map((post) => {
                                       t socialImage = `/images/${params?.slug}.pn
    const { slug } = post;
   return {
                                       t { categories, postId } = post;
    params: { slug 子
                                       t category = categories.length && categorie
  · · }:
                                        { name, slug } = category;
 });
                                       rn {
  return {
                                       ops: {
   paths,
                                       post,
   fallback: false,
                                       socialImage,
                                       relatedPosts: {
  };
                                         posts: await getRelatedPosts(categ @colbyfayock
```

```
module.exports = function indexSearch 10
 const { env, outputLocation, output 11
 const { WORDPRESS HOST } = env;
  return Object.assign({}, nextConfic
   webpack(config) {
     config.plugins.push(new Search]
        host: WORDPRESS HOST
       outputLocation,
       outputName
     }));
     return config;
 });
```

```
class SearchIndexWebpackPlugin {
  constructor(options = {}) {
    this.options = options;
                                                      4
  async index(compilation, options) {
    const {
      host.
      outputDirectory = DEFAULT OUTPUT DIRECTORY,
      outputName = DEFAULT_OUTPUT_NAME
    = options;
    if ( typeof host !== 'string' ) {
      throw new Error(`Failed to compile search indensity
    const outputLocation = path.join(outputDirectory18
    const data = await fetch(`${host}${WORDPRESS_AP]
20
    const posts = await data.json();
    const index = posts.map((post = {}) => {
      return {
        title: post.title.rendered,
        slug: post.slug,
```

"generated": 1598926888737, "posts": ["title": "Fry, we have a crate to del "slug": "fry-we-have-a-crate-to-deliv "date": "2020-08-24T03:02:31" }, "title": "Hey, you add a one and two "slug": "hey-you-add-a-one-and-two-ze "date": "2020-08-24T03:02:09" }, "title": "Throw her in the brig", "slug": "throw-her-in-the-brig", "date": "2020-08-24T03:01:52" }, "title": "I love you, buddy!", "slug": "i-love-you-buddy", "date": "2020-08-24T03:01:30" }, "title": "You don’ @colbyfayock "slug", "vou-dont-know-

Next.js WordPress Starter

Docs About GitHub Q

How to Create a Headless WordPress Blog with Next.js WordPress Starter

🥞 By Colby Fayock April 30th, 2021 Getting Started, Tutorial 📍

Blogs are a great way to get down your thoughts to help others learn, keep track of

Next.js WordPress Starter

Docs About GitHub Q



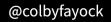
Blogs are a great way to get down your thoughts to help others learn, keep track of





Custom Post Type UI







Review WordPress Instance Set up Next.js WordPress Starter Set up Basic Next.js WP Starter Dig In to the Code





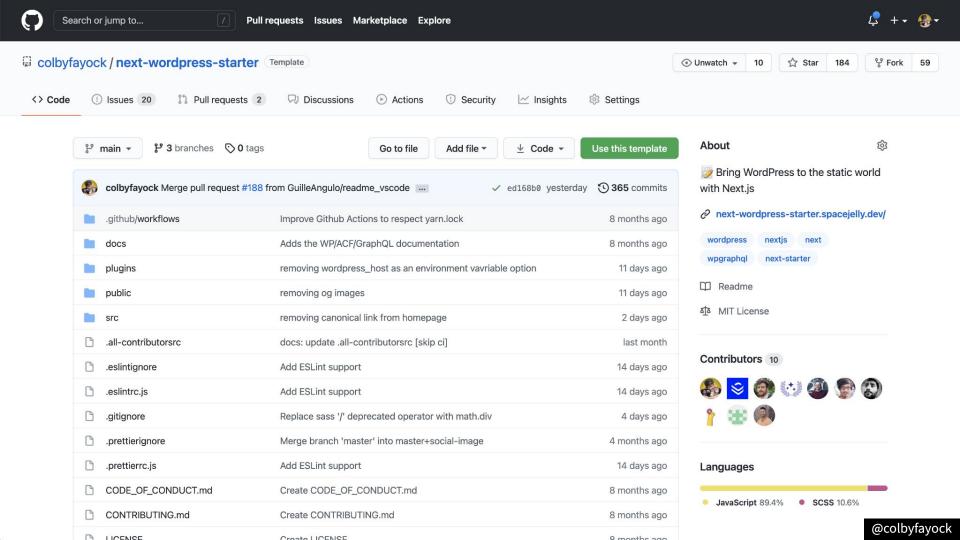




Review WordPress Instance Set up Next.js WordPress Starter Set up Basic Next.js WP Starter Dig In to the Code







Colby Fayock

Developer Advocate

@colbyfayock



Thank You

colbyfayock.com/click-deploy