Scaling WordPress

with

Next.js

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Colby Fayock

Developer Advocate

applitools

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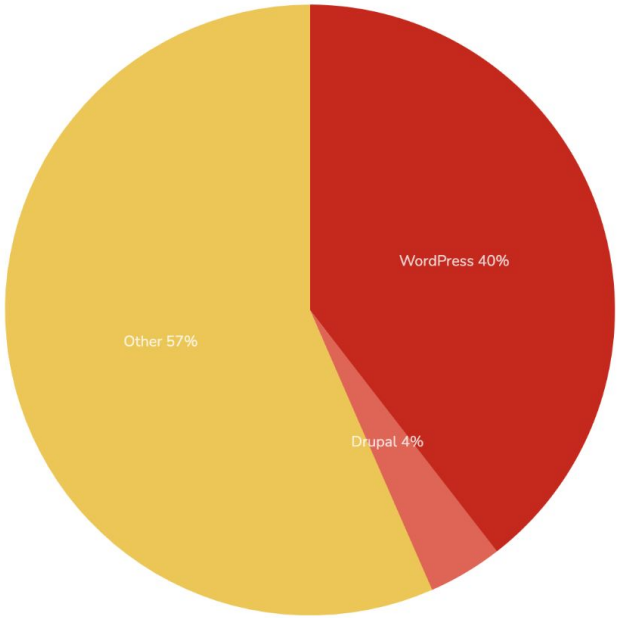
WordPress

CMS Usage Distribution in the Top 1 Million Sites

Distribution for websites using CMS technologies



Explain Chart

Top In CMS Usage Distribution in the Top 1 Million Sites

Technology	Websites	%
WordPress	346,776	34.68
Drupal	34,573	3.46
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
Canada	804,768
Australia	675,790
Brazil	535,143
Spain	514,679
Japan	435,872
Poland	332,601

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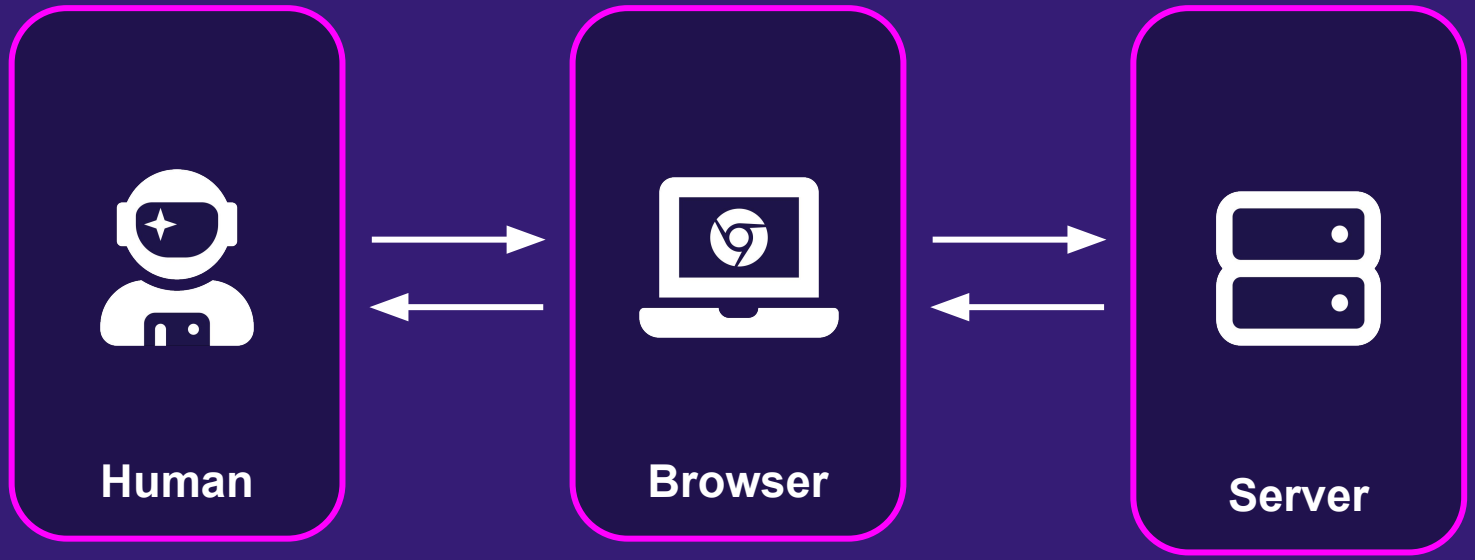
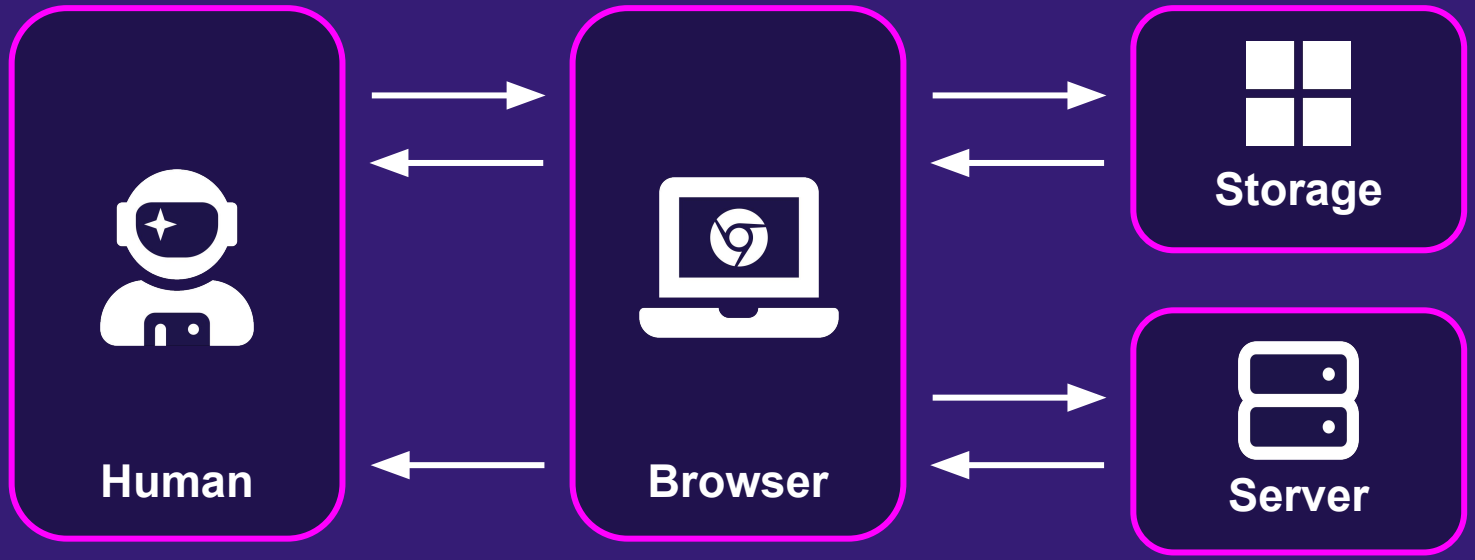
WordPress

What is “headless”?

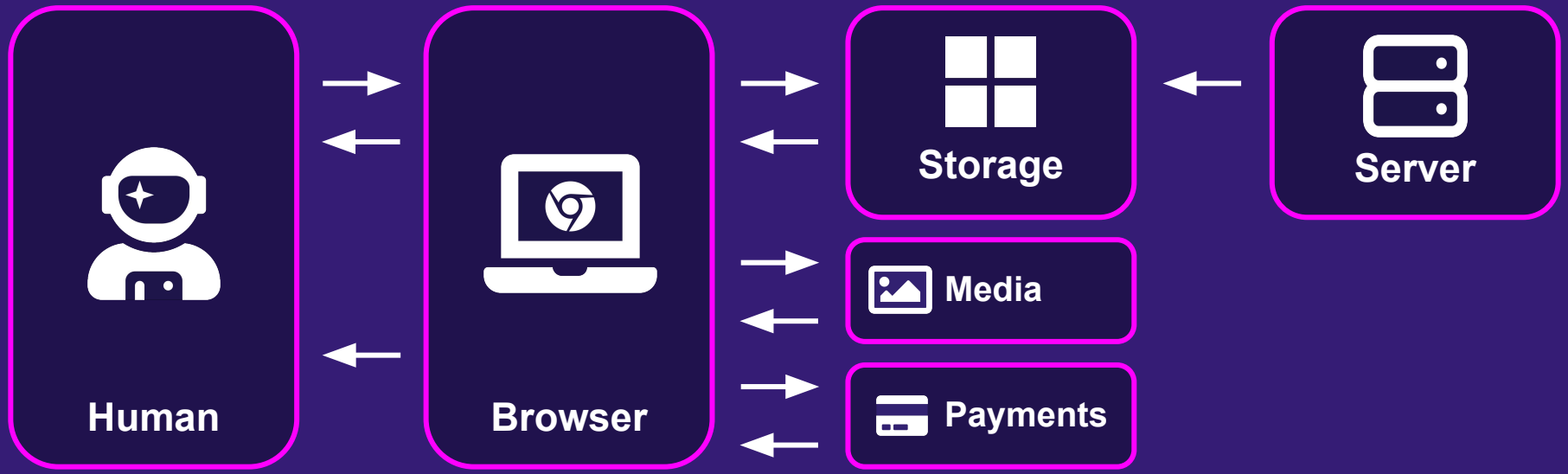
Traditional



Headless



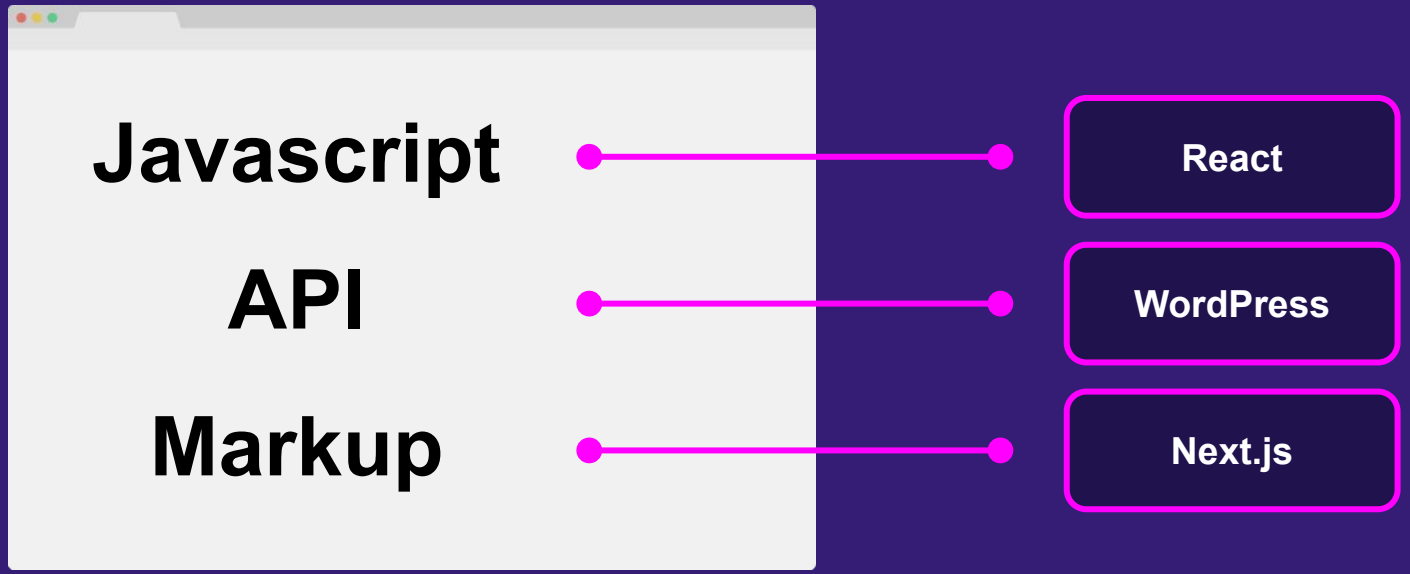
Headless + Static



What is “Jamstack”?

Jamstack

Jamstack



Why headless?

Why Jamstack?

Why not regular WordPress?

Jamstack

Operational Excellence

Security

Reliability

Performance Efficiency

Cost Optimization

AWS Well-Architected

Performance

Plugins | My Favorites | Beta Testing | Developers | cache

Showing results for: **cache**

LiteSpeed Cache

(1,169)

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

(4,573)

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

(3,215)

The simplest and fastest WP Cache system

Emre Vona

WP-Optimize – Clean, Compress, Cache.

(1,187)

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

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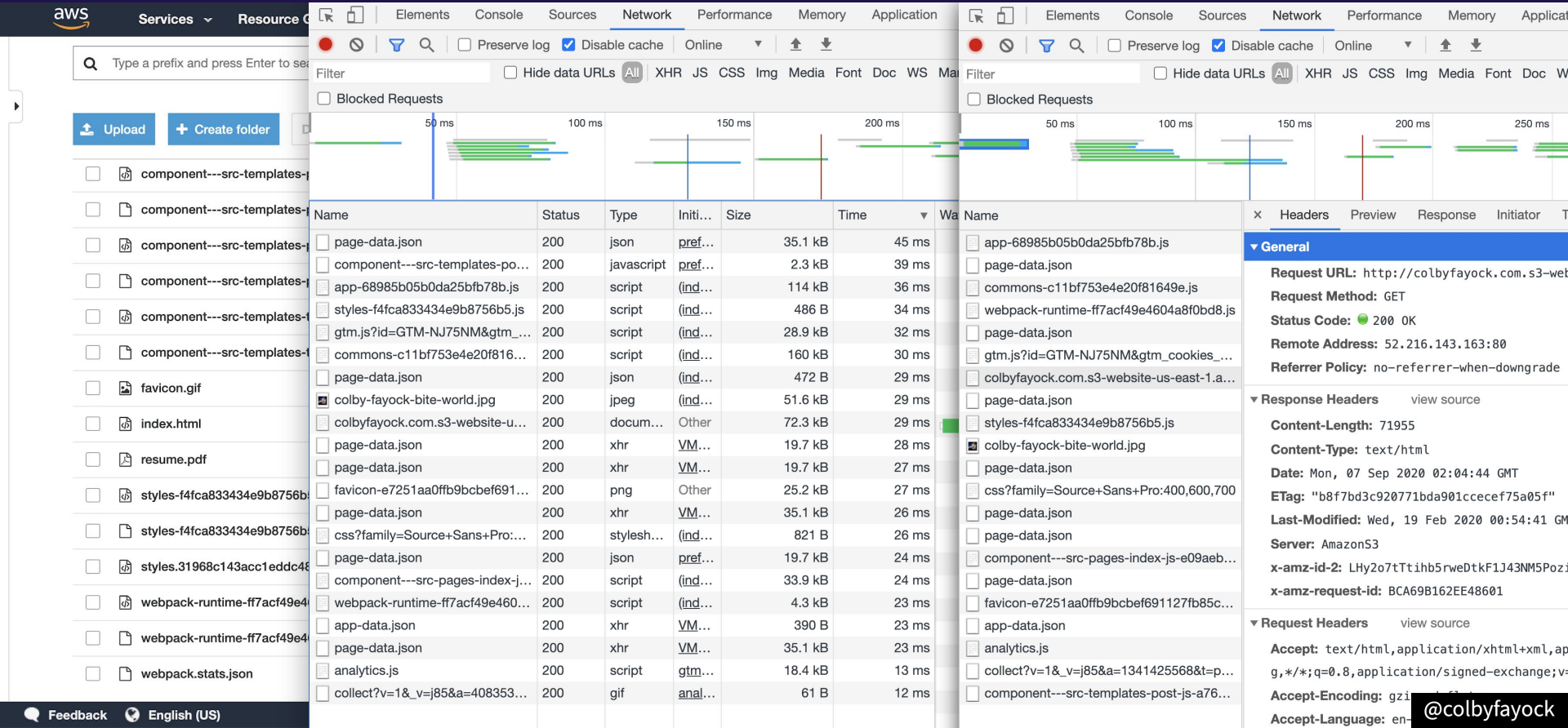
Performance



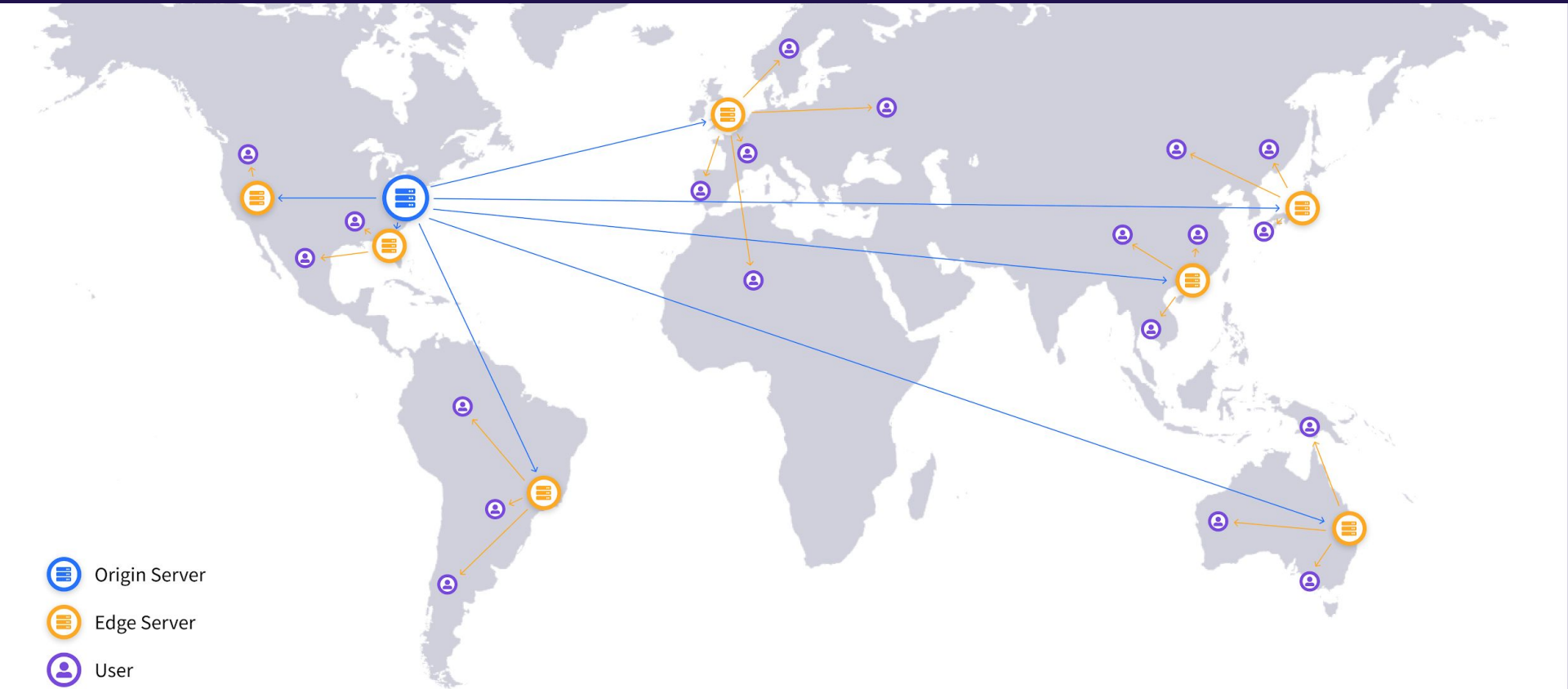
Reliability

5×× SERVER ERROR

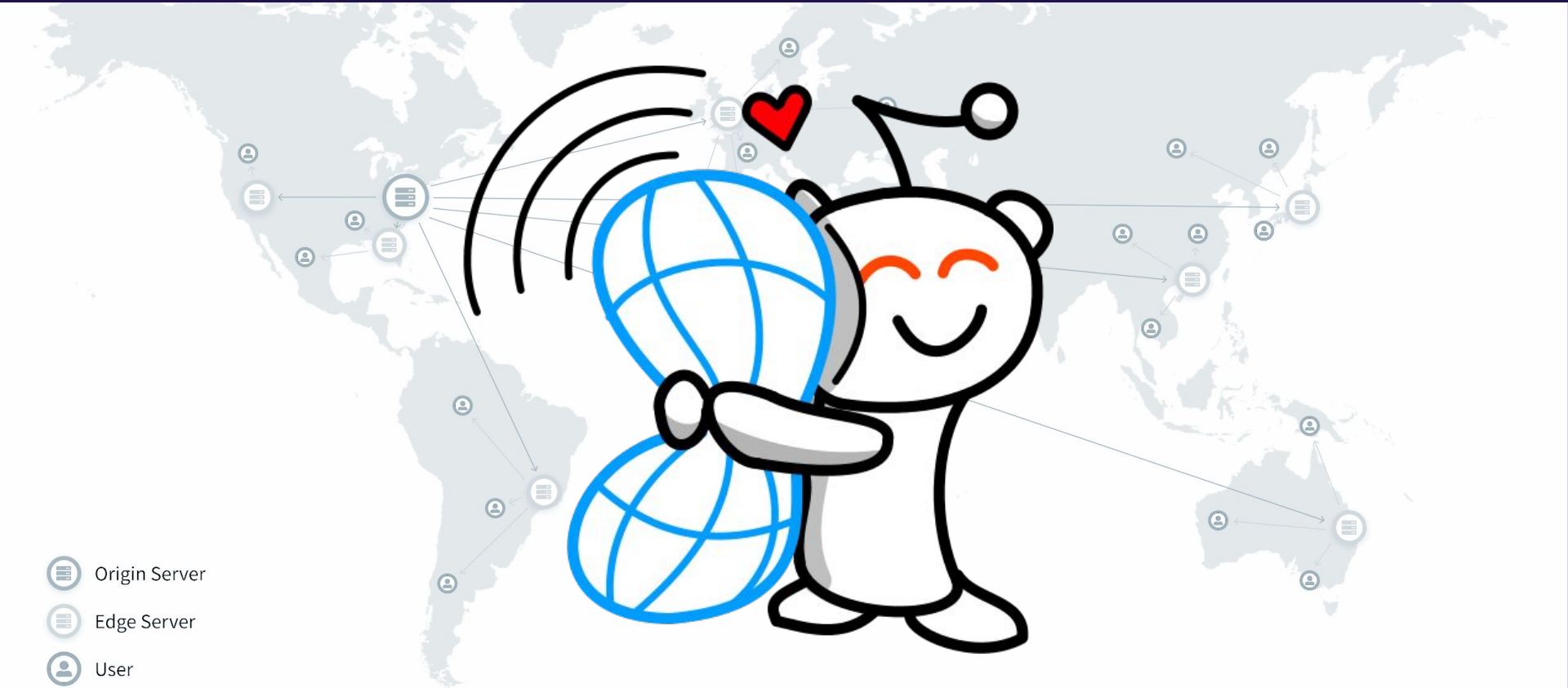
503 SERVICE UNAVAILABLE

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

Choose your instance plan

New! Check out our new 16 GB and 32 GB RAM bundles!

Sort by: Price per month | Memory | Processing | Storage | Transfer

First month free!					
$3.5 USD	$5 USD	$10 USD	$20 USD	$40 USD	Price per month
$3.50 USD	$5 USD	$10 USD	$20 USD	$40 USD	Price per month
512 MB	1 GB	2 GB	4 GB	8 GB	Memory
1 vCPU	1 vCPU	1 vCPU	2 vCPUs	2 vCPUs	Processing
20 GB SSD	40 GB SSD	60 GB SSD	80 GB SSD	160 GB SSD	Storage
1 TB	2 TB	3 TB	4 TB	5 TB	Transfer

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Cost

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

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Why “headless” WordPress?

What's WordPress good at?

User Experience

What's WordPress good at?

User Experience

Familiarity

What's WordPress good at?

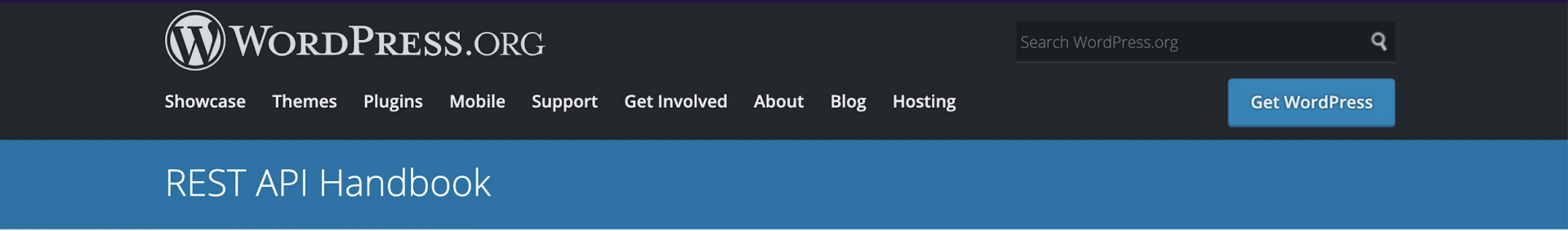
User Experience

Familiarity

Ecosystem

How about WordPress?!

WordPress API



REST API Handbook

Edit

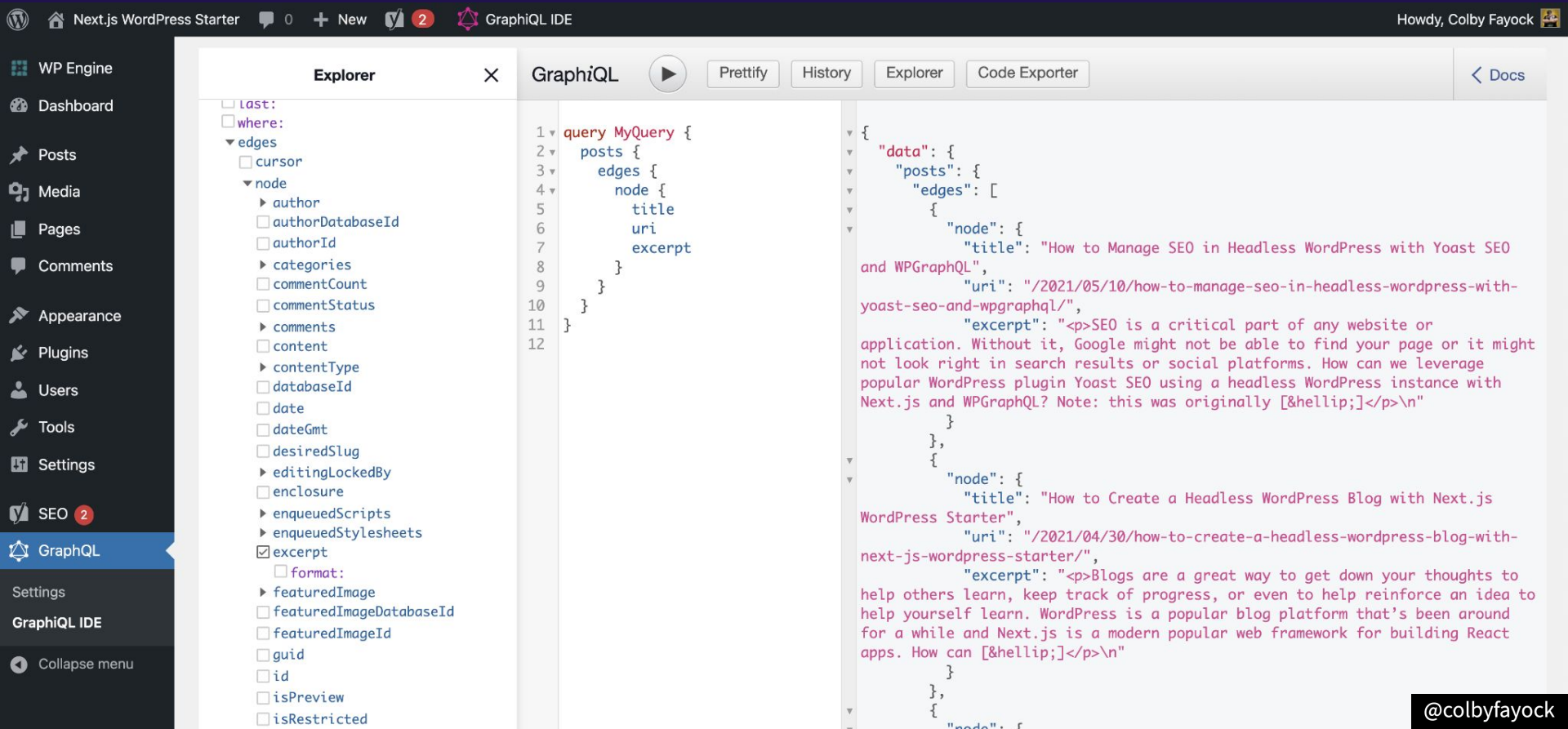
The WordPress REST API provides an interface for applications to interact with your WordPress site by sending and receiving data as JSON (JavaScript Object Notation) objects. It is the foundation of the WordPress Block Editor, and can likewise enable your theme, plugin or custom application to present new, powerful interfaces for managing and publishing your site content.

TOPICS

What Is A REST API?
Using the WordPress REST API
Next Steps

Using the WordPress REST API you can create a plugin to provide an entirely new admin experiences for WordPress, build a brand new interactive front-end experience, or bring your WordPress content into completely separate applications.

WPGraphQL



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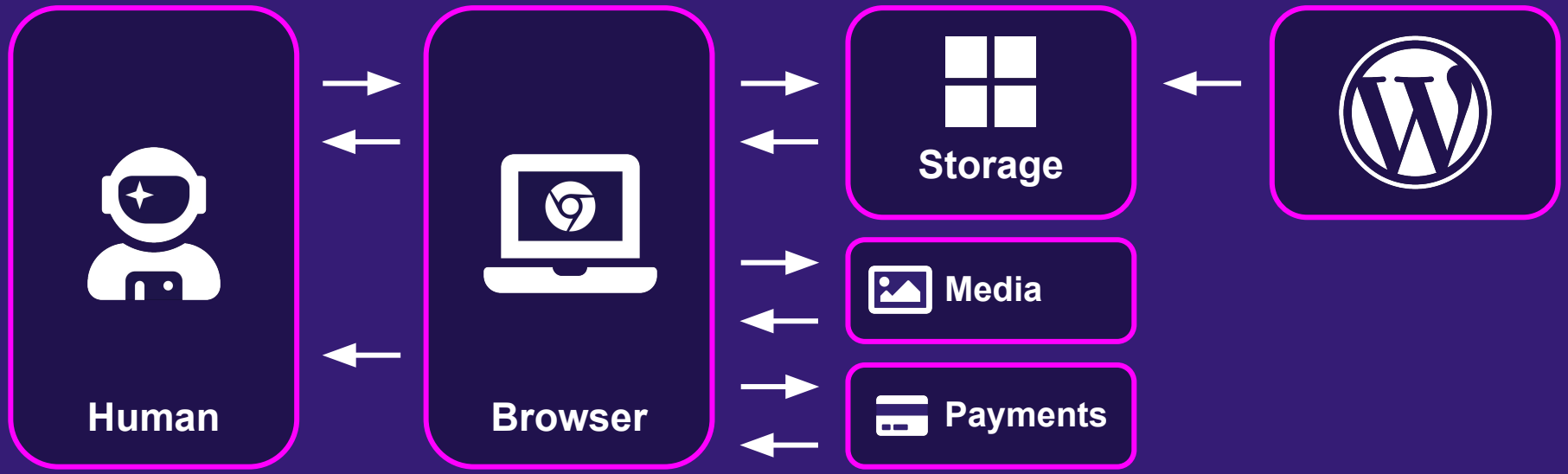
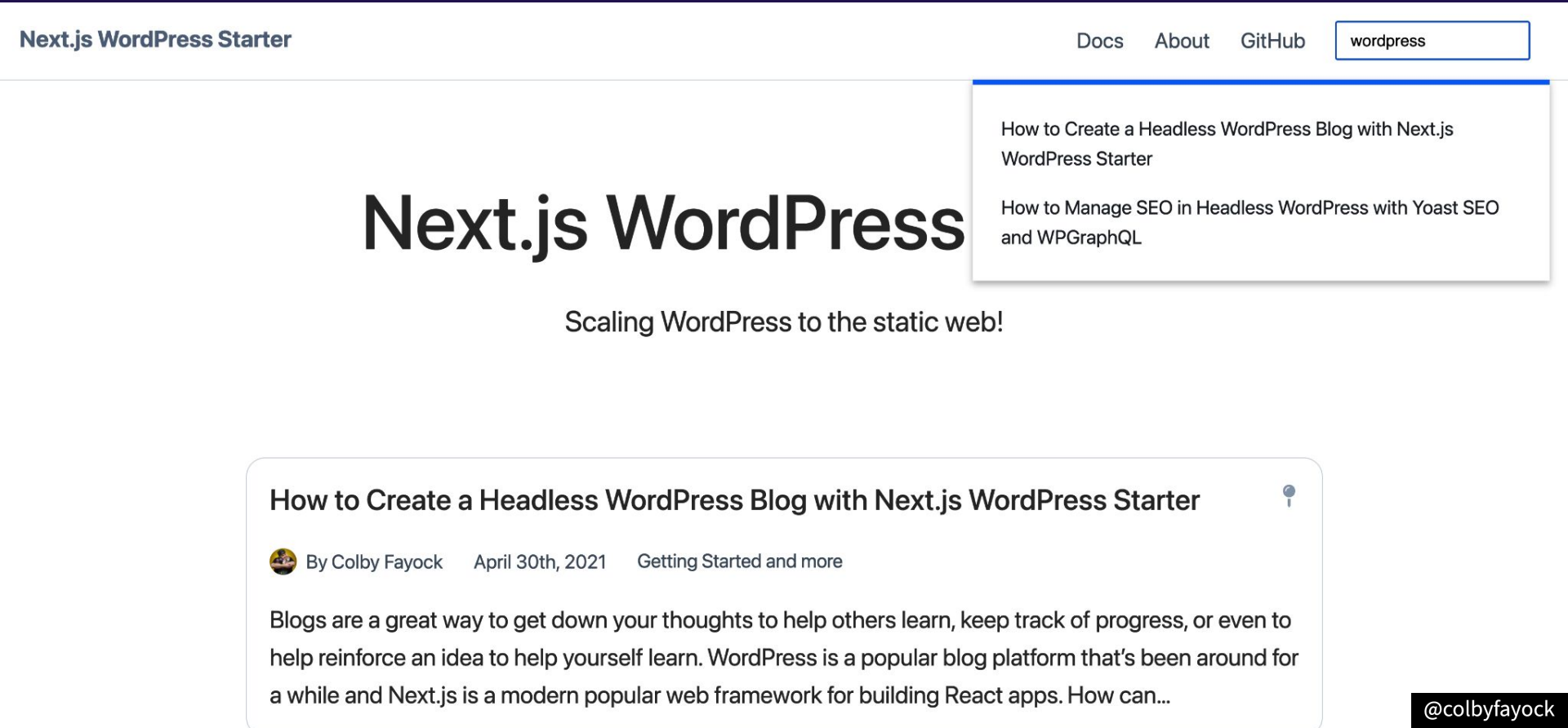
Static WordPress



Static WordPress



Static WordPress

```
export async function getStaticProps()
  const { posts } = await getAllPosts()
  return {
    props: {
      posts: posts.sort((post) => (post
    },
  };
}
```

```
export default function Home({ posts })
  const { metadata = {} } = useSite();
  const { title, description } = metadat
```

```
/**
 * getAllPosts
 */

export async function getAllPosts(opti
  const apolloClient = getApolloClient

  const data = await apolloClient.quer
    query: QUERY_ALL_POSTS,
  });

  const posts = data?.data.posts.edges

  return {
```

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Static WordPress

```
export async function getStaticPaths(
  const { posts } = await getAllPosts

  const paths = posts.map((post) => {
    const { slug } = post;
    return {
      params: { slug }
    };
  });

  return {
    paths,
    fallback: false,
  };
}
```

```
async function getStaticProps({ params = {
t { post } = await getPostBySlug(params?.sl

t socialImage = `/images/${params?.slug}.pn

t { categories, postId } = post;
t category = categories.length && categorie
{ name, slug } = category;

rn {
ops: {
post,
socialImage,
relatedPosts: {
  posts: await getRelatedPosts(categ
```

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Static WordPress

```
module.exports = function indexSearch
  const { env, outputLocation, output
  const { WORDPRESS_HOST } = env;

  return Object.assign({}, nextConfig
    webpack(config) {
      config.plugins.push(new SearchI
        host: WORDPRESS_HOST,
        outputLocation,
        outputName
      }));

      return config;
    }
  });

}
```

```
class SearchIndexWebpackPlugin {

  constructor(options = {}) {
    this.options = options;
  }

  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 inde
    }

    const outputLocation = path.join(outputDirectory

    const data = await fetch(`${host}${WORDPRESS_API
    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&#8217
      "slug": "you-dont-know-
```

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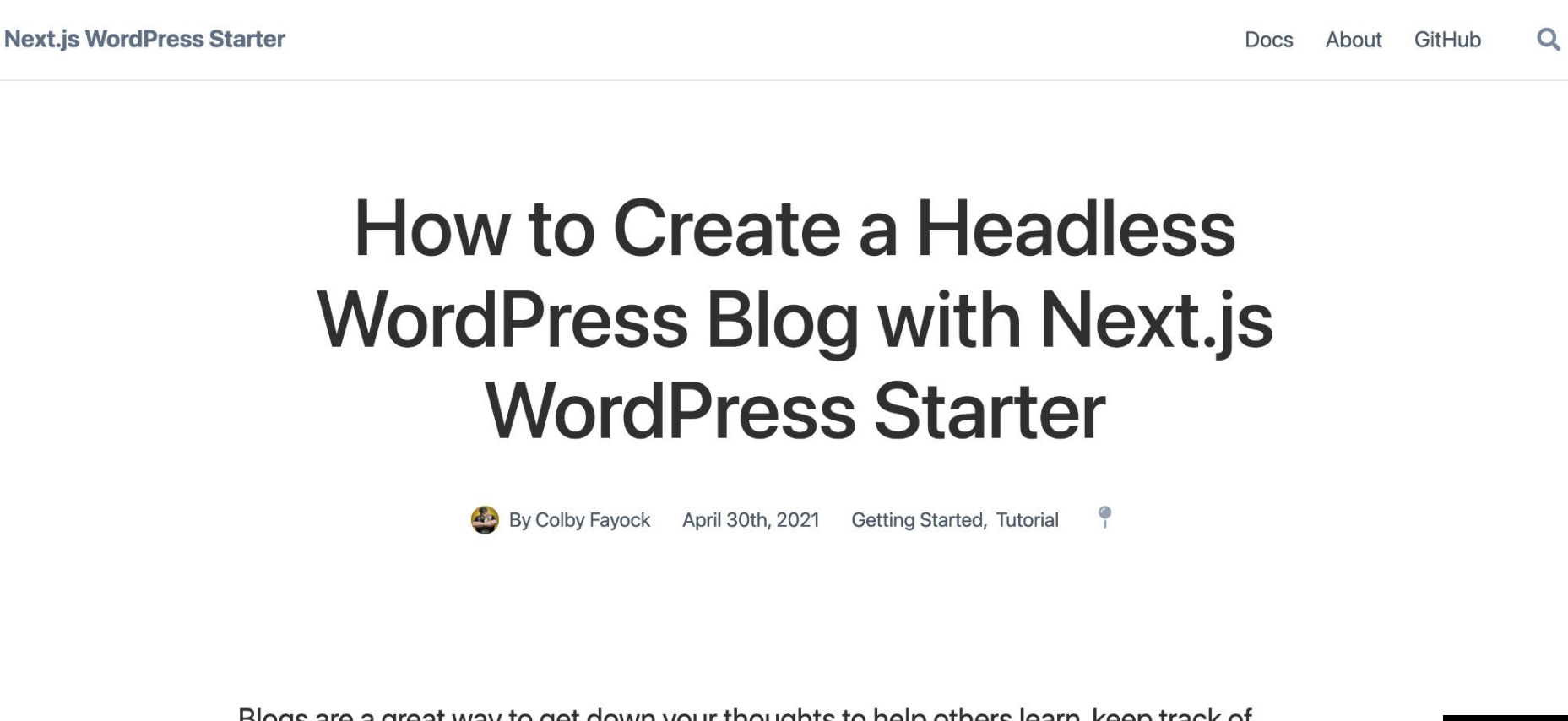
Static WordPress



Static WordPress

Next.js WordPress Starter

Docs About GitHub

Ho s
Wor .js

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

Static WordPress

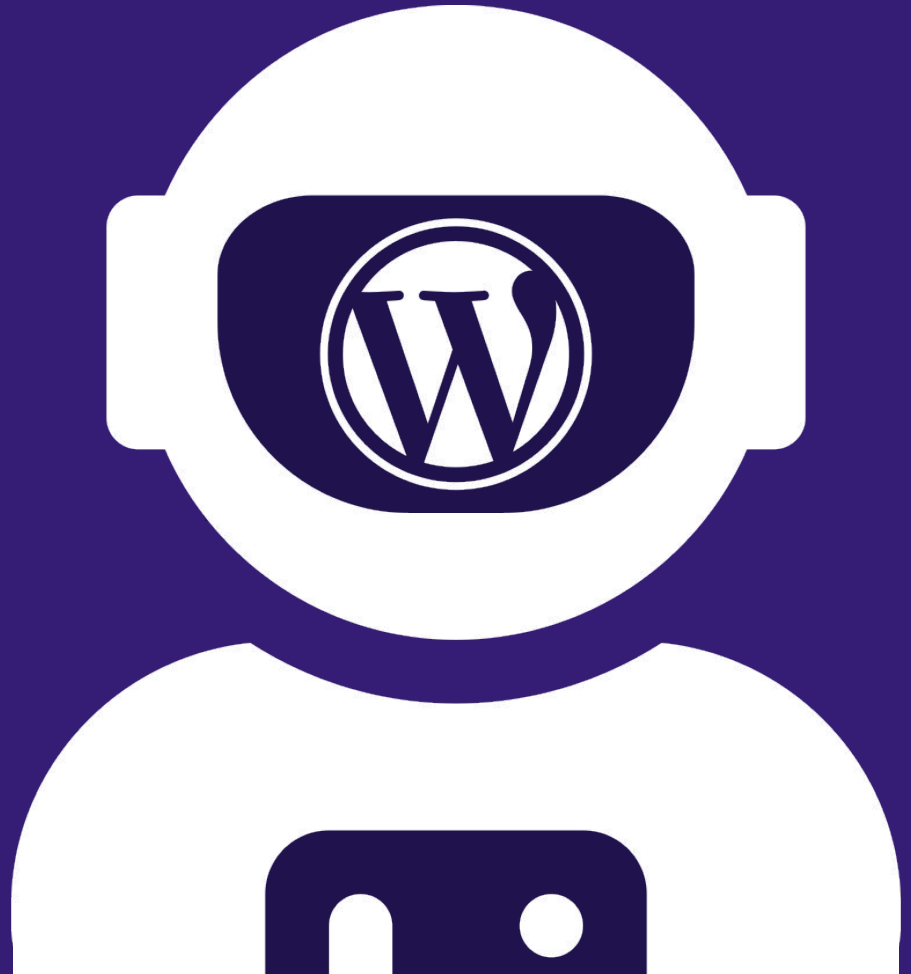
Demo

Demo

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

Demo

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



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Unwatch 10 Star 184 Fork 59

Code Issues 20 Pull requests 2 Discussions Actions Security Insights Settings

main 3 branches 0 tags Go to file Add file Code Use this template

colbyfayock Merge pull request #188 from GuilleAngulo/readme_vscode ... ed168b0 yesterday 365 commits

.github/workflows	Improve Github Actions to respect yarn.lock	8 months ago
docs	Adds the WP/ACF/GraphQL documentation	8 months ago
plugins	removing wordpress_host as an environment vavriable option	11 days ago
public	removing og images	11 days ago
src	removing canonical link from homepage	2 days ago
.all-contributorsrc	docs: update .all-contributorsrc [skip ci]	last month
.eslintignore	Add ESLint support	14 days ago
.eslintrc.js	Add ESLint support	14 days ago
.gitignore	Replace sass '/' deprecated operator with math.div	4 days ago
.prettierignore	Merge branch 'master' into master+social-image	4 months ago
.prettierrc.js	Add ESLint support	14 days ago
CODE_OF_CONDUCT.md	Create CODE_OF_CONDUCT.md	8 months ago
CONTRIBUTING.md	Create CONTRIBUTING.md	8 months ago
LICENSE	Create LICENSE	8 months ago

About

📝 Bring WordPress to the static world with Next.js

next-wordpress-starter.spacejelly.dev/

wordpress nextjs next wpgraphql next-starter

Readme

MIT License

Contributors 10

Languages

JavaScript 89.4% SCSS 10.6%

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Thank You

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