

Colby Fayock

Developer Advocate

∢ applitools

@colbyfayock



The Great Framework Wars





























































Gridsome







SVELTE

























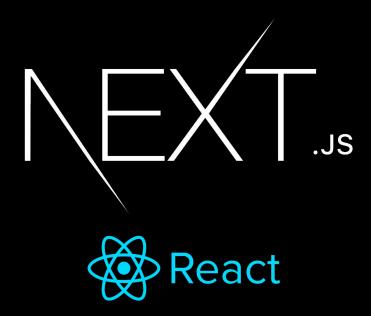


BRIDGETOWN





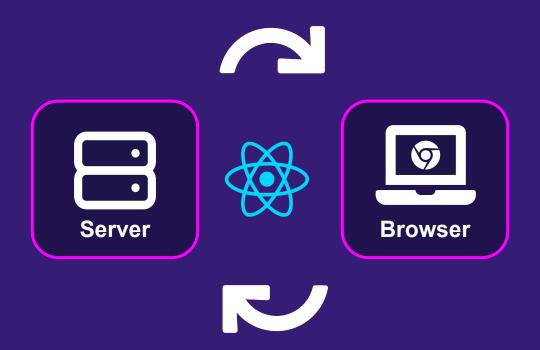


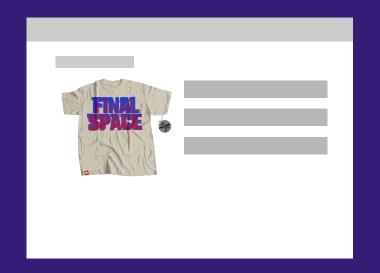


October 25, 2016









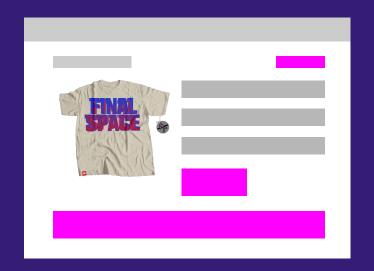




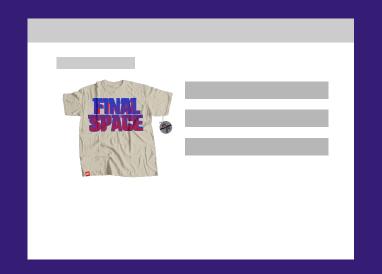












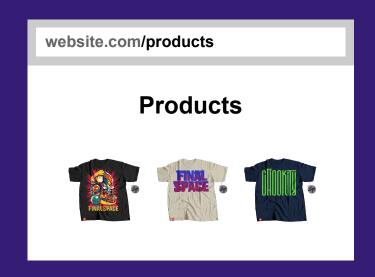






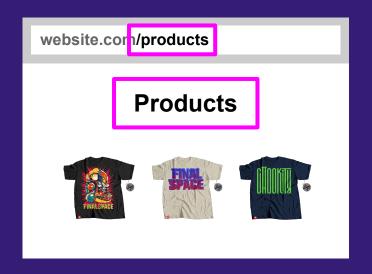
File System Based Router

- pages
- --- index.js
- --- products.js
- --- contact.js



File System Based Router

- pages
- --- index.js
- --- products.js
- --- contact.js



Data Fetching

```
export default class extends React.Component {
  static async getInitialProps () {
    const res = await fetch('https://website.com/products/123')
    const data = await res.json()
    return {
      products: data.products
```

Data Fetching

```
export default class extends React.Component {
  static async getInitialProps () {
    const res = await fetch('https://website.com/products/123')
    const data = await res.json()
    return {
      products: data.products
```

Performance

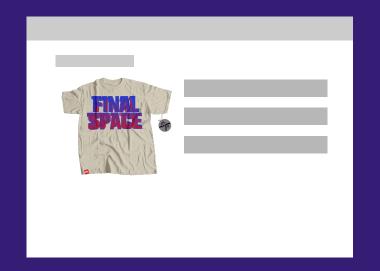
Automatic Server Rendering

Automatic Code Splitting

Prefetching

Service Workers

4.5 Years Later

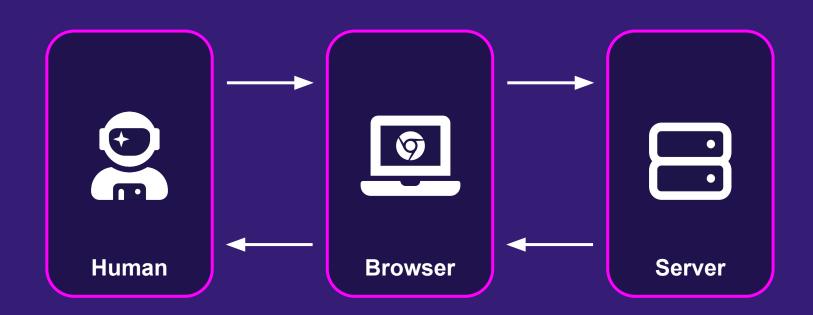




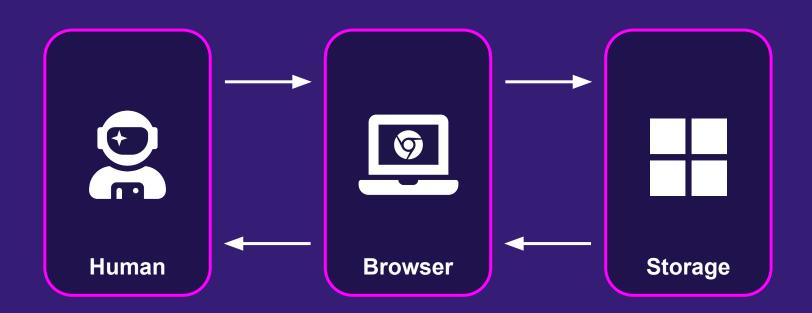




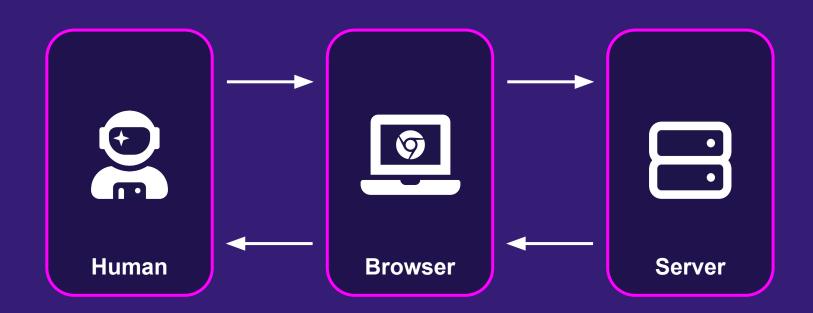
Server Side Rendering (SSR)



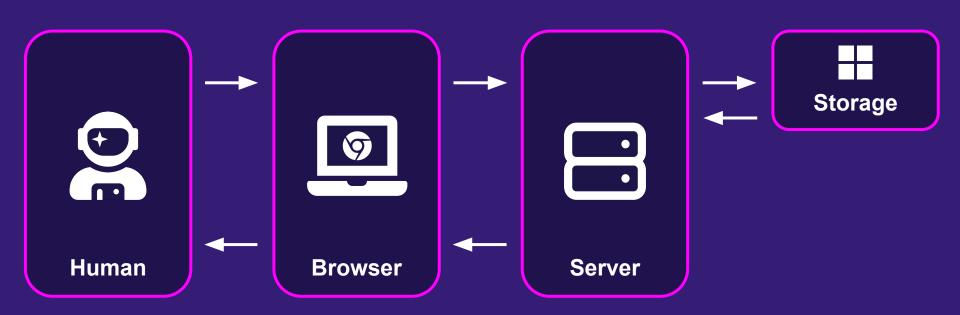
Static Site Generation (SSG)



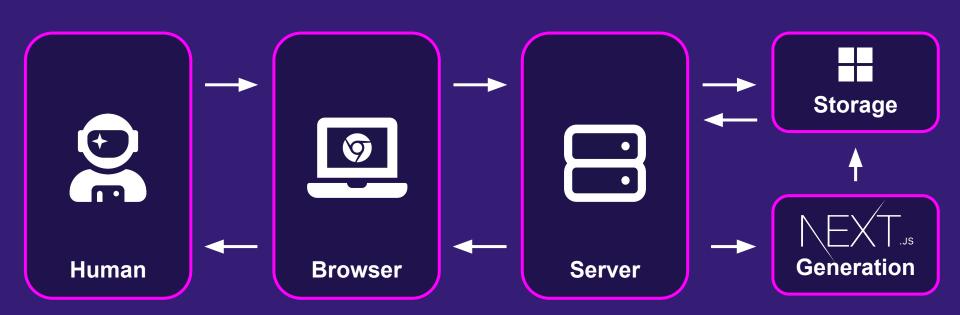
Incremental Static Regeneration (ISR)



Incremental Static Regeneration (ISR)

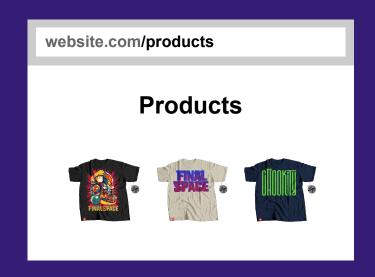


Incremental Static Regeneration (ISR)



File System Based Router

- pages
- --- index.js
- --- products.js
- --- contact.js



File System Based Router

- pages
- --- index.js
- --- products
- ----- [id].js



File System Based Router

- pages
- --- index.js
- --- products
- ---- [...params].js



['123', 'gallery']

Data Fetching

getServerSideProps getStaticProps getStaticPaths

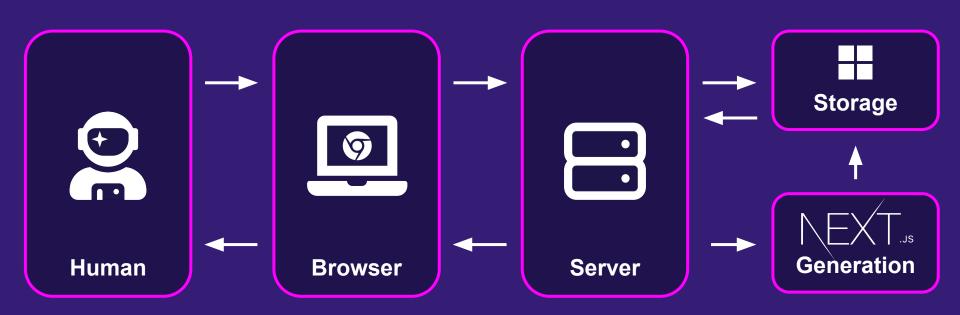
Server Side Rendering (SSR)

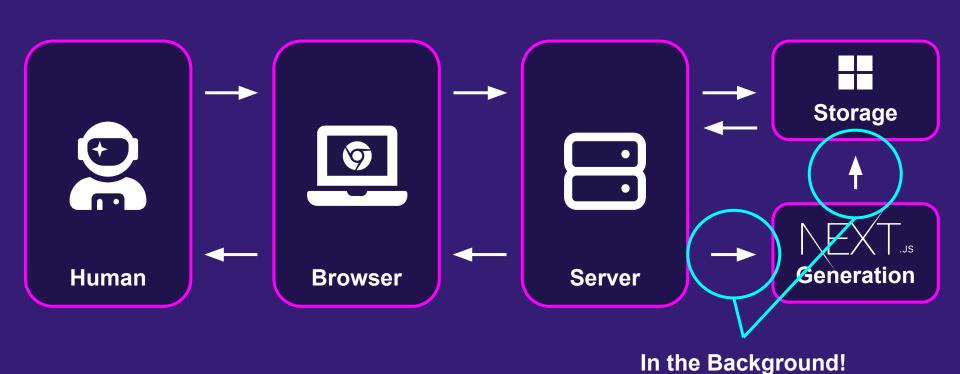
```
export async function getServerSideProps() {
  const res = await fetch('nttps://website.com/products/123')
  const data = await res.json()
  return {
    props: {
      products: data.products
```

Static Site Generation (SSG)

```
export async function getStaticProps() {
  const res = await fetch('https://website.com/products/123')
  const data = await res.json()
  return {
    products: data.products
}
```

```
export async function getStaticProps() {
  const res = await fetch('nttps://website.com/products/123')
  const data = await res.json()
  return {
    props: {
      products: data.products
    revalidate: 1
```





```
export async function getStaticProps() {
  const res = await fetch('nttps://website.com/products/123')
  const data = await res.json()
  return {
    props: {
      products: data.products
    revalidate: 1
```

Data Fetching

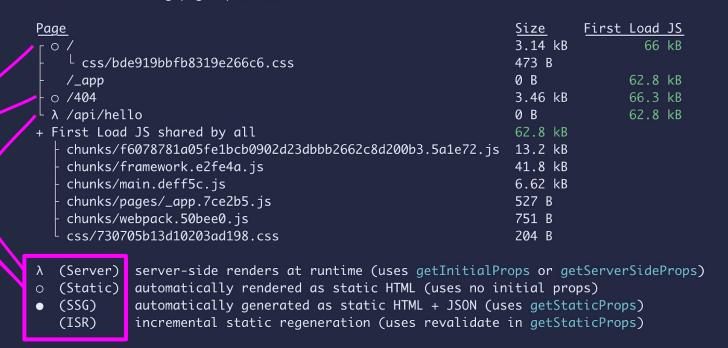
```
const Page = ({ products }) => {
  return {products.map(p => { p.title })}
export async function getStaticProps() {
 donst res = await fetch('https://website.com/products/123');
 "const data = await res.json();
 return {
  products: data.products
```

```
yarn run v1.22.10
$ next build
info - Creating an optimized production build
info - Compiled successfully
info - Collecting page data
info - Generating static pages (2/2)
info - Finalizing page optimization
```

```
First Load JS
Page
                                                                Size
                                                                3.14 kB
                                                                                 66 kB
 0 /
    css/bde919bbfb8319e266c6.css
                                                                473 B
                                                                0 B
                                                                               62.8 kB
 0 /404
                                                                3.46 kB
                                                                               66.3 kB
  λ /api/hello
                                                                               62.8 kB
                                                                0 B
+ First Load JS shared by all
                                                                62.8 kB
    chunks/f6078781a05fe1bcb0902d23dbbb2662c8d200b3.5a1e72.js
                                                               13.2 kB
    chunks/framework.e2fe4a.js
                                                                41.8 kB
   chunks/main.deff5c.js
                                                                6.62 kB
   chunks/pages/_app.7ce2b5.js
                                                                527 B
    chunks/webpack.50bee0.js
                                                                751 B
   css/730705b13d10203ad198.css
                                                                204 B
```

- λ (Server) server-side renders at runtime (uses getInitialProps or getServerSideProps)
- o (Static) automatically rendered as static HTML (uses no initial props)
- (SSG) automatically generated as static HTML + JSON (uses getStaticProps)
 (ISR) incremental static regeneration (uses revalidate in getStaticProps)
 - 🐆 Done in 7.44s.

```
yarn run v1.22.10
$ next build
info - Creating an optimized production build
info - Compiled successfully
info - Collecting page data
info - Generating static pages (2/2)
info - Finalizing page optimization
```



Done in 7.44s.

yarn run v1.22.10 \$ next build info - Creating an optimized production build info - Compiled successfully info - Collecting page data info - Generating static pages (2/2) info - Finalizing page optimization

```
First Load JS
Page
                                                               Size
                                                               3.14 kB
                                                                                66 kB
 0 /
     css/bde919bbfb8319e266c6.css
                                                               473 B
                                                               0 B
                                                                              62.8 kB
   /_app
  0 /404
                                                               3.46 kB
                                                                              66.3 kB
  λ /api/hello
                                                                              62.8 kB
                                                               0 B
+ First Load JS shared by all
                                                               62.8 kB
    chunks/f6078781a05fe1bcb0902d23dbbb2662c8d200b3.5a1e72.js
                                                              13.2 kB
    chunks/framework.e2fe4a.js
                                                               41.8 kB
   chunks/main.deff5c.js
                                                               6.62 kB
    chunks/pages/_app.7ce2b5.js
                                                               527 B
    chunks/webpack.50bee0.js
                                                               751 B
   css/730705b13d10203ad198.css
                                                               204 B
λ (Server) server-side renders at runtime (uses getInitialProps or getServerSideProps)
o (Static)
             automatically rendered as stat c HTML (uses no initial props)
             automatically generated as static HTML + JSON (uses getStaticProps)
• (SSG)
   (ISR)
             incremental static regeneration (uses revalidate in getStaticProps)
```

🐆 Done in 7.44s.

What else?

Serverless Functions

```
pagesapicheckout.jsproducts.js
```

```
GET website.cor

{
    "items": [
      {
        "id": "1234"
        "title": "Cool T-Shirt",
      }
    ]
}
```

Serverless Functions

```
GET website.com/products

{
    "items": [
      {
         "id": "1234"
         "title": "Cool T-Shirt",
      }
    ]
}
```

```
export default function handler(req, res) {
   const products = await getAllProducts();

const data = {
   items: products
}

res.status(200).json(data);
}
```

Components & Plug-Ins

```
import Image from 'next/image';
<Image src="/tshirt.png" />
                        NEXT,
```

Next Image

- Modern Formats
- Optimization
- Responsive
- Prioritization

Components & Plug-Ins

```
import Head from 'next/head'
<Head>
  <title>Products | Space Jelly</title>
</Head>
<!DOCTYPE html>
<html lang="en">
▼<head>
   <meta name="viewport" content="width=de</pre>
   <meta charset="utf-8">
   <title>Products | Space Jelly</title>
   <link rel="icon" href="/favicon.ico">
```

Next Head

- Title
- Meta
- Open Graph
- Custom Assets

Other Features

Built-in CSS Support

TypeScript

Fetch

Dynamic Imports

Q Search...

next.config.js

- Introduction
- Environment Variables
- · Base Path
- Rewrites
- Redirects
- Custom Headers
- Custom Page Extensions
- CDN Support with Asset Prefix
- Custom Webpack Config
- Compression
- Runtime Configuration

next.config.js

For custom advanced behavior of Next.js, you can create a `next.config.js` in the root of your project directory (next to `package.json`).

`next.config.js` is a regular Node.js module, not a JSON file. It gets used by the Next.js server and build phases, and it's not included in the browser build.

Take a look at the following `next.config.js` example:

```
module.exports = {
   /* config options here */
}
```

You can also use a function:

```
module.exports = (phase, { defaultConfig }) => {
   return {
     /* config options here */
     @colbyfayock
```

How does it compare?

Page Building & Routing





Page Building & Routing





Page Building & Routing





Data Layer





Data Layer





Data Layer





Plugins & Community





Plugins & Community





Plugins & Community







Server Side Rendering
Serverless Functions
Automatic Static Optimization



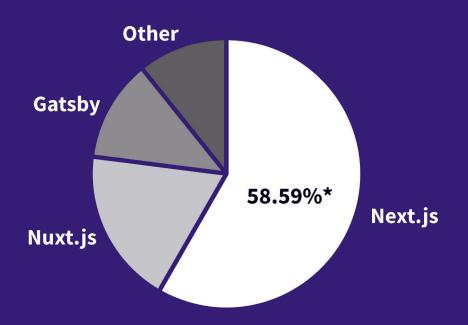
Themes
Integrations
Easy to Deploy





Who's using this thing?

Adoption





https://almanac.httparchive.org/en/2020/jamstack



VIDEOS

CHARACTERS

COMICS

MOVIES

TV SHOWS

GAMES

NEWS

MORE

STREAM WANDAVISION EXCLUSIVELY ON DISNEP +





PREMIERING MAY 21

His plan? World domination! Watch 'Marvel's M.O.D.O.K.', streaming on Hulu May 21

LEARN MORE



Episode 8 Now Streaming

M.O.D.O.K. Premieres May 21

Spider-Man: No Way Home

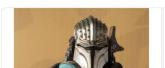
Streaming June 11

Listen Now!





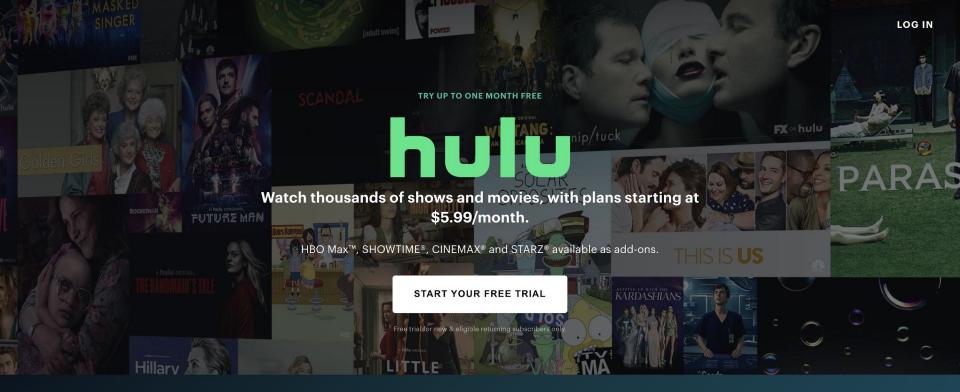














BUNDLE WITH ANY HULU PLAN & SAVE

Get Hulu, Disney+, and ESPN+ starting at \$12.99/month.*

Details

GET BUNDLE

Terms apply

https://nextjs.org/case-studies/hulu



Search

Career Planning 1:1

Feedback Bookmarks

s 🎒







React







Angular



Node



TypeScript

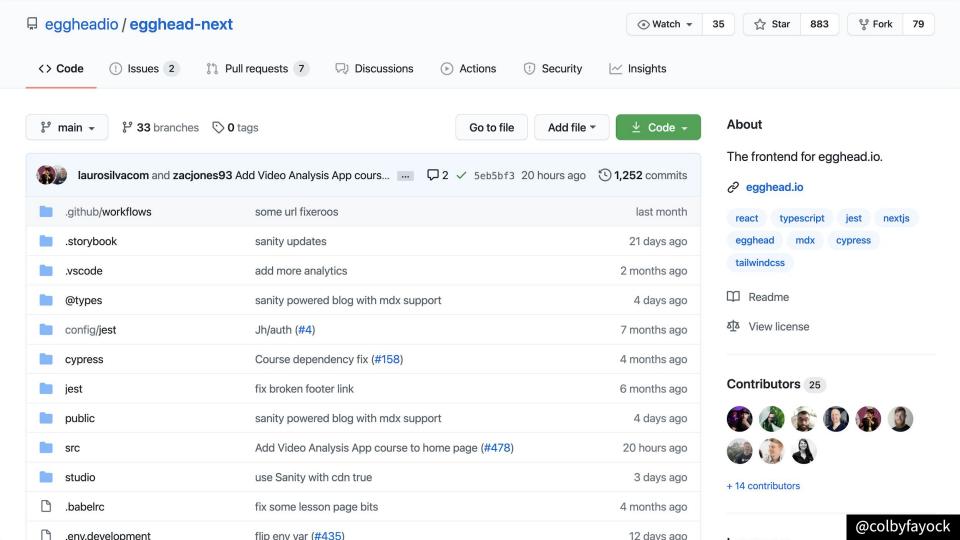


GraphQL



AWS

https://egghead.io/



How do I get started?

```
npx create-next-app
# or
yarn create next-app
```

Create Next App

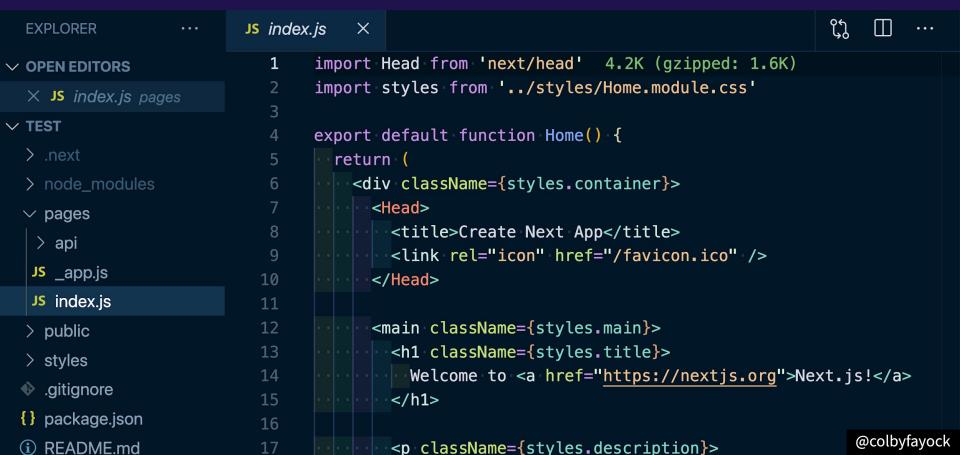
The easiest way to get started with Next.js is by using `create-next-app`. This simple CLI tool enables you to quickly start building a new Next.js application, with everything set up for you. You can create a new app using the default Next.js template, or by using one of the official Next.js examples. To get started, use the following command:

```
npx create-next-app
# or
yarn create next-app
```

Options

`create-next-app` comes with the following options:

- -e, --example [name]|[github-url] - An example to bootstrap the app with. You can use an example name from the Next.js repo or a GitHub URL. The UF @colbyfayock



Welcome to Next.js!

Get started by editing pages/index.js

Documentation →

Find in-depth information about Next.is features and API.

Examples →

Discover and deploy boilerplate example Next.js projects.

Learn →

Learn about Next.js in an interactive course with guizzes!

Deploy →

Instantly deploy your Next.js site to a public URL with Vercel.

```
yarn create next-app -e ...
# or
npx create-next-app -e ...
```

Next.js WordPress Starter



Scaling WordPress with the power of Next.js and the static web!



Quick Start

Requirements

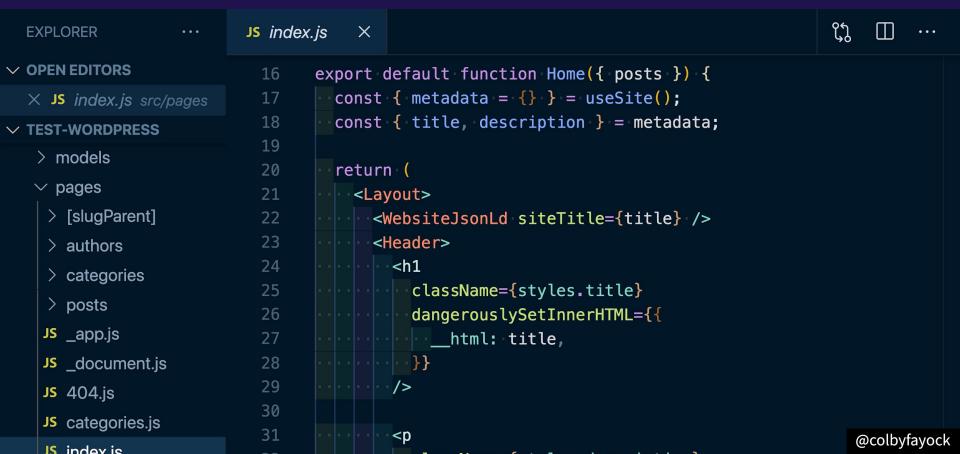
- WordPress
- WPGraphQL

yarn create next-app -e https://github.com/colbyfayock/next-wordpress-starter
or
npx create-next-app -e https://github.com/colbyfayock/next-wordpress-starter

Add an .env.local file to the root with the following:



Next.js Starters



Next.js Starters



Next.js Starters

Next.js WordPress Starter

Docs About C

Next.js WordPress Starter

Scaling WordPress to the static web!



@colbyfayock

Moar Next.js!



Showcase

Docs

Blog

Analytics

Commerce

Enterprise





Q Search...

Getting Started

Documentation

Getting Started

Basic Features

- Pages
- Data Fetching
- Built-in CSS Support
- Image Optimization
- Static File Serving
- · Fast Refresh
- TypeScript
- Environment Variables
- Supported Browsers and Features

Welcome to the Next.js documentation!

If you're new to Next.js we recommend that you start with the learn course.

The interactive course with quizzes will guide you through everything you need to know to use Next.js.

If you have questions about anything related to Next.js, you're always welcome to ask our community on GitHub Discussions.

System Requirements

- Node.js 10.13 or later
- MacOS, Windows (including WSL), and Linux are supported

Setup

We recommend creating a new Next.js app using `create-next-app`, which sets up everything automatically for you. To create a project, run:



colbyfayock.com/ecomm



Space Jelly Shop



Space Jelly Stickers

Add some flare to your laptop with a sticker of Cosmo the Space Jellyfish.

\$10.00

Add to Cart

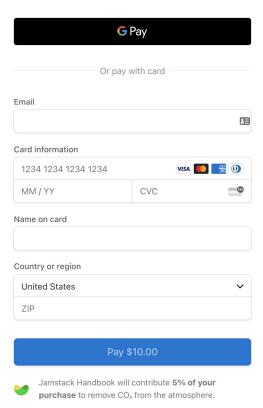


Space .

Show your I sticker com

\$25.00

Add to C



Colby Fayock

Developer Advocate

∢ applitools

@colbyfayock



Thank You

colbyfayock.com/snipcart-nextjs