Taking Flight with
Tailwind CSS

- PHP and Front End Developer

- System Administrator

- Senior Engineer at Inviqa

- Part-time freelancer

- Open sourcer

- @opdavies

- oliverdavies.uk

What is Tailwind CSS?

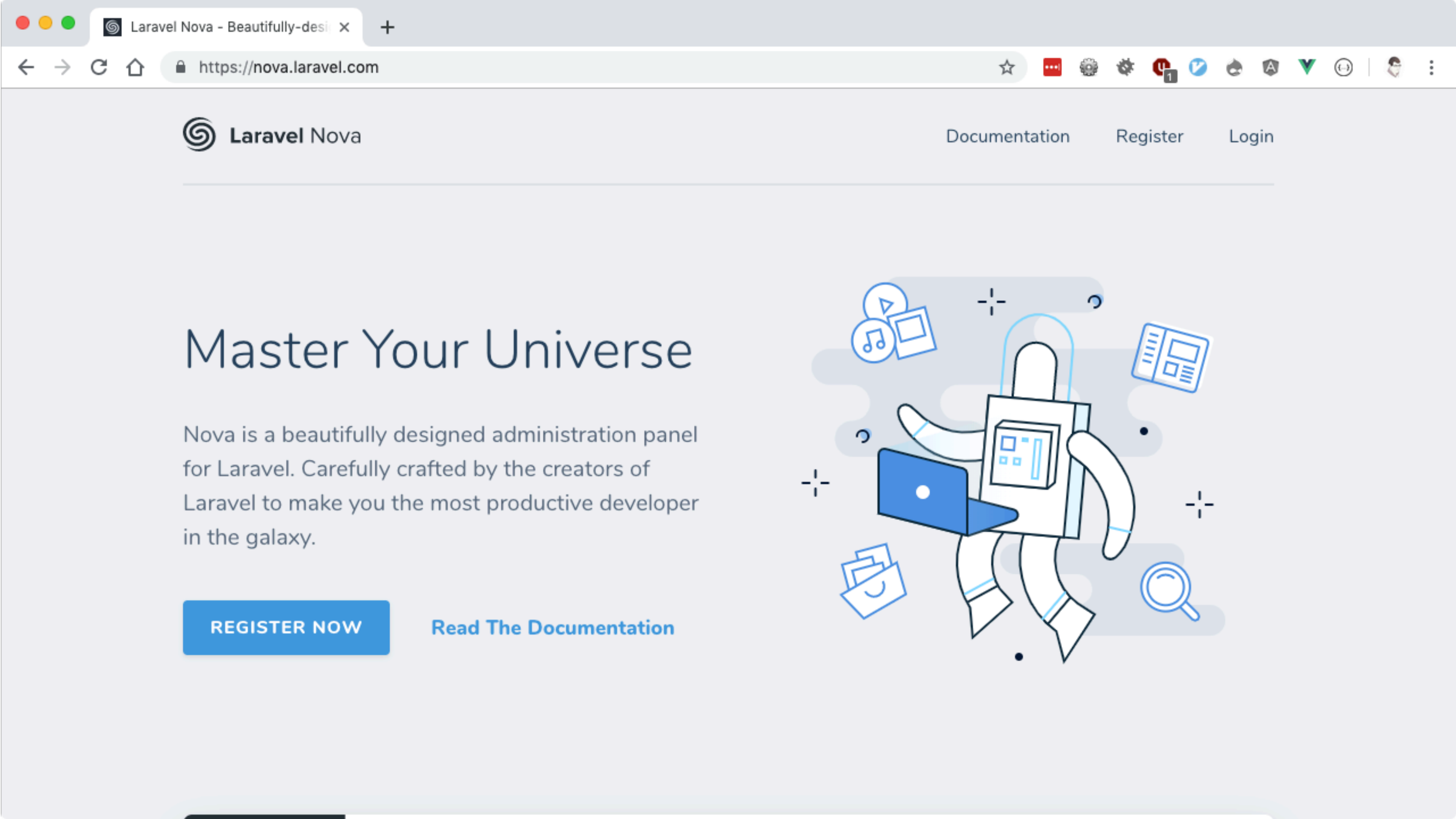A **utility-first** CSS framework for rapidly building **custom designs**.

Tailwind CSS is a **highly customizable**, **low-level** CSS framework

Tailwind is more than a CSS framework, it's an engine for **creating design systems**.

- Text/border/background colours

- Font size/family/weight

- Alignment

- Padding/margin/negative margin

- Flexbox

- Positioning

- Lists

- z-index

- Opacity

- Screenreader visibility

- Placeholder colour

- first-child, last-child, nth-child

- CSS Grid

- Transition

- Transform

- Spacing / Divide
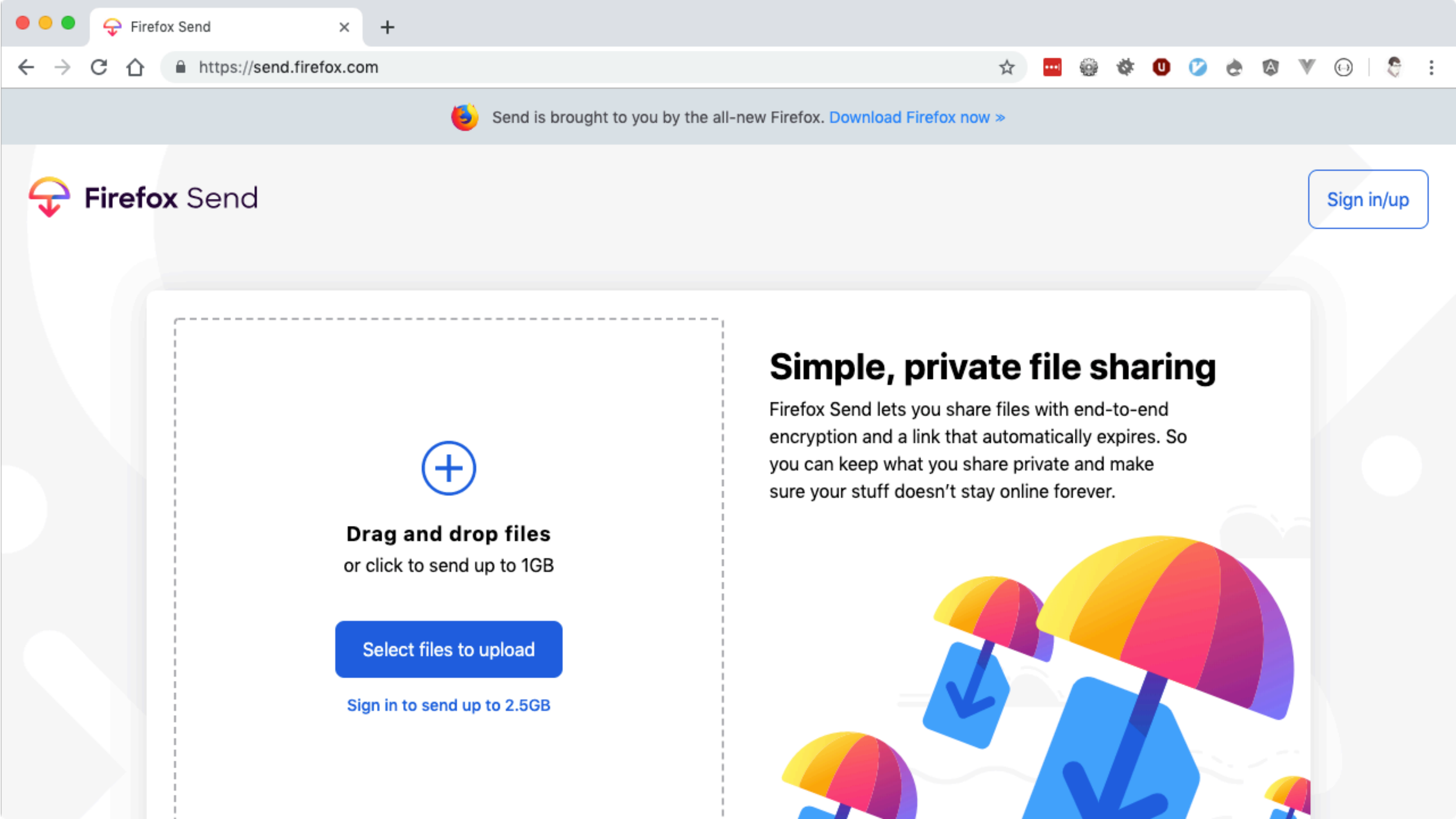
https://nova.laravel.com

Laravel Nova

Master Your Universe

Nova is a beautifully designed administration panel for Laravel. Carefully crafted by the creators of Laravel to make you the most productive developer in the galaxy.

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🔒 https://send.firefox.com

Firefox Send

⊕

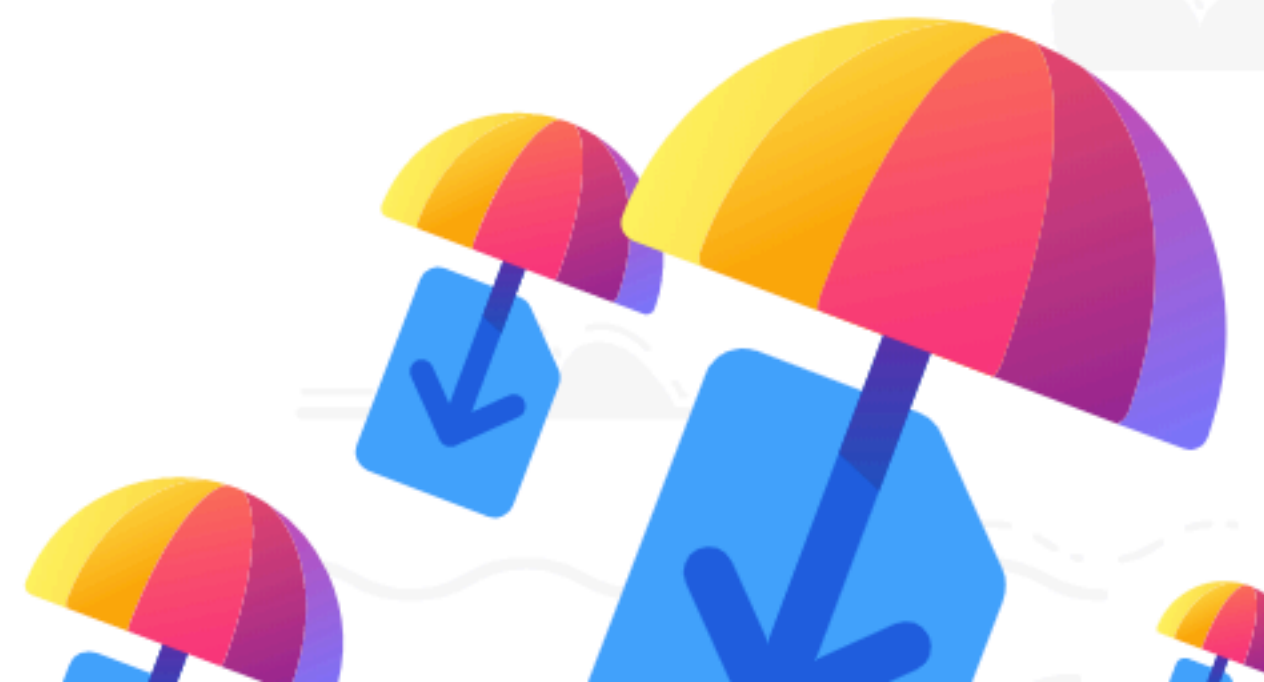## Drag and drop files

or click to send up to 1GB

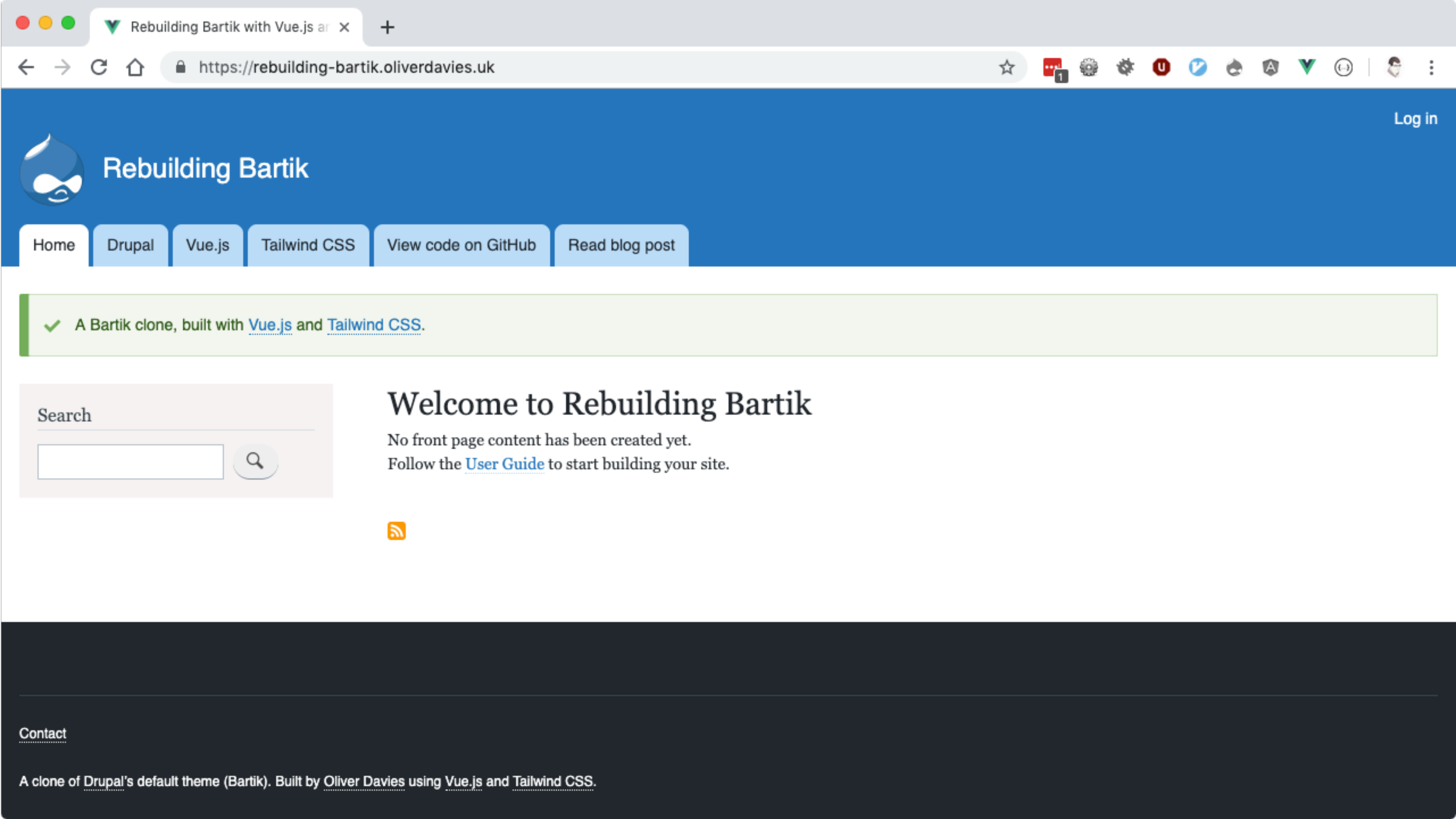**Select files to upload**

Sign in to send up to 2.5GB

Simple, private file sharing

Firefox Send lets you share files with end-to-end encryption and a link that automatically expires. So you can keep what you share private and make sure your stuff doesn't stay online forever.

Log in

Rebuilding Bartik

Home | Drupal | Vue.js | Tailwind CSS | View code on GitHub | Read blog post

✓ A Bartik clone, built with Vue.js and Tailwind CSS.

Search

🔍

Welcome to Rebuilding Bartik

No front page content has been created yet.

Follow the User Guide to start building your site.

Contact

A clone of Drupal's default theme (Bartik). Built by Oliver Davies using Vue.js and Tailwind CSS.

How do I use Tailwind?

With Tailwind, you style elements by **applying pre-existing classes** directly in your HTML.

Using **utility classes** to build custom designs **without writing CSS**

Benefits

- You aren't wasting time and energy inventing class names

- Your CSS stops growing

- Making changes feels safer

```html
<div class="bg-white rounded-lg">
  <img class="h-16 w-16" src="avatar.jpg">
  <div>
    <h2>Erin Lindford</h2>
    <div>Customer Support</div>
    <div>erinlindford@example.com</div>
    <div>(555) 765-4321</div>
  </div>
</div>
```


Erin Lindford
Customer Support
erinlindford@example.com
(555) 765-4321

```html
<div class="bg-white rounded-lg p-6">
   <img class="h-16 w-16" src="avatar.jpg">
   <div>
     <h2>Erin Lindford</h2>
     <div>Customer Support</div>
     <div>erinlindford@example.com</div>
     <div>(555) 765-4321</div>
   </div>
</div>
```

Erin Lindford

Customer Support

erinlindford@example.com

(555) 765-4321

```
1  <div class="bg-white rounded-lg p-6">
2    <img class="h-16 w-16 rounded-full' src="avatar.jpg">
3    <div>
4      <h2>Erin Lindford</h2>
5      <div>Customer Support</div>
6      <div>erinlindford@example.com</div>
7      <div>(555) 765-4321</div>
8    </div>
9  </div>
```


Erin Lindford
Customer Support
erinlindford@example.com
(555) 765-4321

```html
<div class="bg-white rounded-lg p-6">
  <img class="h-16 w-16 rounded-full mx-auto" src="avatar.jpg">
  <div>
    <h2>Erin Lindford</h2>
    <div>Customer Support</div>
    <div>erinlindford@example.com</div>
    <div>(555) 765-4321</div>
  </div>
</div>
```

Erin Lindford
Customer Support
erinlindford@example.com
(555) 765-4321

```
1  <div class="bg-white rounded-lg p-6">
2    <img class="h-16 w-16 rounded-full mx-auto" src="avatar.jpg">
3    <div>
4      <h2 class="text-lg">Erin Lindford</h2>
5      <div>Customer Support</div>
6      <div>erinlindford@example.com</div>
7      <div>(555) 765-4321</div>
8    </div>
9  </div>
```

Erin Lindford

Customer Support

erinlindford@example.com

(555) 765-4321

```html
<div class="bg-white rounded-lg p-6">
  <img class="h-16 w-16 rounded-full mx-auto" src="avatar.jpg">
  <div>
    <h2 class="text-lg">Erin Lindford</h2>
    <div class="text-purple-500">Customer Support</div>
    <div>erinlindford@example.com</div>
    <div>(555) 765-4321</div>
  </div>
</div>
```

Erin Lindford

Customer Support

erinlindford@example.com

(555) 765-4321

```
<div class="bg-white rounded-lg p-6">
  <img class="h-16 w-16 rounded-full mx-auto" src="avatar.jpg">
  <div>
    <h2 class="text-lg">Erin Lindford</h2>
    <div class="text-purple-500">Customer Support</div>
    <div class="text-gray-600">erinlindford@example.com</div>
    <div class="text-gray-600">(555) 765-4321</div>
  </div>
</div>
```

Erin Lindford

Customer Support

erinlindford@example.com

(555) 765-4321

```
<div class="bg-white rounded-lg p-6">
  <img class="h-16 w-16 rounded-full mx-auto" src="avatar.jpg">
  <div class="text-center">
    <h2 class="text-lg">Erin Lindford</h2>
    <div class="text-purple-500">Customer Support</div>
    <div class="text-gray-600">erinlindford@example.com</div>
    <div class="text-gray-600">(555) 765-4321</div>
  </div>
</div>
```

Erin Lindford

Customer Support

erinlindford@example.com

(555) 765-4321

```
1  <div class="md:flex bg-white rounded-lg p-6">
2    <img class="h-16 w-16 rounded-full mx-auto" src="avatar.jpg">
3    <div class="text-center">
4      <h2 class="text-lg">Erin Lindford</h2>
5      <div class="text-purple-500">Customer Support</div>
6      <div class="text-gray-600">erinlindford@example.com</div>
7      <div class="text-gray-600">(555) 765-4321</div>
8    </div>
9  </div>
```

Erin Lindford

Customer Support

erinlindford@example.com

(555) 765-4321

```
1  <div class="md:flex bg-white rounded-lg p-6">
2    <img class="h-16 w-16 rounded-full mx-auto md:mx-0" src="avat
3    <div class="text-center">
4      <h2 class="text-lg">Erin Lindford</h2>
5      <div class="text-purple-500">Customer Support</div>
6      <div class="text-gray-600">erinlindford@example.com</div>
7      <div class="text-gray-600">(555) 765-4321</div>
8    </div>
9  </div>
```

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```html
<div class="md:flex bg-white rounded-lg p-6">
  <img class="h-16 w-16 rounded-full mx-auto md:mx-0" src="avat
  <div class="text-center md:text-left">
    <h2 class="text-lg">Erin Lindford</h2>
    <div class="text-purple-500">Customer Support</div>
    <div class="text-gray-600">erinlindford@example.com</div>
    <div class="text-gray-600">(555) 765-4321</div>
  </div>
</div>
```

Erin Lindford

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erinlindford@example.com

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```
1  <div class="md:flex bg-white rounded-lg p-6">
2    <img class="h-16 w-16 rounded-full mx-auto md:mx-0 md:mr-6" s
3    <div class="text-center md:text-left">
4      <h2 class="text-lg">Erin Lindford</h2>
5      <div class="text-purple-500">Customer Support</div>
6      <div class="text-gray-600">erinlindford@example.com</div>
7      <div class="text-gray-600">(555) 765-4321</div>
8    </div>
9  </div>
```

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Customer Support

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(555) 765-4321

```html
<div class="md:flex bg-white rounded-lg p-6">
  <img class="h-16 w-16 md:h-24 md:w-24 rounded-full mx-auto md
  <div class="text-center md:text-left">
    <h2 class="text-lg">Erin Lindford</h2>
    <div class="text-purple-500">Customer Support</div>
    <div class="text-gray-600">erinlindford@example.com</div>
    <div class="text-gray-600">(555) 765-4321</div>
  </div>
</div>
```

Erin Lindford

Customer Support

erinlindford@example.com

(555) 765-4321

```
1  <div class="md:flex bg-white rounded-lg p-6">
2    <img class="h-16 w-16 md:h-24 md:w-24 rounded-full mx-auto md
3    <div class="text-center md:text-left">
4      <h2 class="text-lg">Erin Lindford</h2>
5      <div class="text-purple-500">Customer Support</div>
6      <div class="text-gray-600">erinlindford@example.com</div>
7      <div class="text-gray-600">(555) 765-4321</div>
8    </div>
9  </div>
```

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How do I install Tailwind?

1. Use the CDN

https://unpkg.com/tailwindcss/dist/tailwind.min.css

To get the most out of Tailwind,
you really should install it via npm.

- You can't use any directives like *@apply, @variants*, etc.

- You can't enable features like *group-hover*

- You can't install third-party plugins

2. Installing Tailwind via NPM

```
npm install --save-dev
tailwindcss

yarn add -D tailwindcss
```

Adding Tailwind to your CSS

```
/* src/css/app.pcss */

@tailwind base;

@tailwind components;

@tailwind utilities;
```

```
/* src/css/app.pcss */

@tailwind base;

/* Custom base styles go here */

@tailwind components;

/* Custom components go here */

@tailwind utilities;

/* Custom utilities go here */
```

Processing your CSS with Tailwind with the build command

```
npx tailwind build
 src/css/app.pcss
-o dist/css/app.css
```

```css
.text-left {
  text-align: left;
}

.text-center {
  text-align: center;
}

.text-right {
  text-align: right;
}

.text-justify {
  text-align: justify;
}
```

Processing your CSS with Tailwind with Laravel Mix

```
npm install --save-dev
laravel-mix
```

```js
// webpack.mix.js

const mix = require('laravel-mix')

mix.postCss(
  'src/css/app.pcss',
  'dist/css',
  [
    require('tailwindcss')()
  ]
)
```

```
// webpack.mix.js

const mix = require('laravel-mix')

require('laravel-mix-tailwind')

mix.postCss('src/css/app.pcss', 'dist/css')
  .tailwind()
```

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <title>My new website</title>
    <link rel="stylesheet" href="/dist/css/app.css" />
  </head>
  <body></body>
</html>
```

```
npm run dev

npm run watch

npm run prod
```

Interaction states

hover, focus, active, disabled, visited, group-hover, focus-within, first-child, last-child...

[state][separator][class]

hover:text-red-500

```css
.text-red-500 {
  color: #f56565;
}

.hover\:text-red-500:hover {
  color: #f56565;
}

.focus\:text-red-500:focus {
  color: #f56565;
}
```

```
<a href="#" class="text-red-500 hover:text-red-800">
  Read more
</a>
```

```js
// defaultConfig.stub.js

variants: {
  alignContent: ['responsive'],
  alignItems: ['responsive'],
  alignSelf: ['responsive'],
  appearance: ['responsive'],
  backgroundAttachment: ['responsive'],
  backgroundColor: ['responsive', 'hover', 'focus'],
  backgroundPosition: ['responsive'],
  backgroundRepeat: ['responsive'],
  ...
```

Responsive

`.[screen][separator][class]`

```
// defaultConfig.stub.js

screens: {
  sm: '640px',
  md: '768px',
  lg: '1024px',
  xl: '1280px',
},
```

md:flex

md:hover:bg-red-500

```css
.block {
  display: block;
}

@media (min-width: 640px) {
  .sm\:block {
    display: block;
  }
}

@media (min-width: 768px) {
  .md\:block {
    display: block;
  }
}
```

```html
<div class="block md:flex">
  <div class="w-full md:w--1/2">
    Column 1
  </div>

  <div class="w-full md:w--1/2">
    Column 2
  </div>
</div>
```

Keeping Things Small: Controlling the File Size

Disabling unused variants and core plugins

```js
// tailwind.config.js

variants: {
  alignContent: ['responsive'],
  alignItems: ['responsive'],
  alignSelf: ['responsive'],
  appearance: ['responsive'],
  backgroundAttachment: ['responsive'],
  backgroundColor: ['responsive', 'hover', 'focus'],
```

```
// tailwind.config.js

variants: {
  alignContent: ['responsive'],
  alignItems: ['responsive'],
- alignSelf: ['responsive'],
+ alignSelf: false,
  appearance: ['responsive'],
  backgroundAttachment: ['responsive'],
- backgroundColor: ['responsive', 'hover', 'focus'],
+ backgroundColor: ['responsive'],
```

Manually removing unused or unwanted classes

```
screens: {
  sm: '640px',
  md: '768px',
  lg: '1024px',
  xl: '1280px',
},
colors: {
  transparent: 'transparent',

  black: '#000',
  white: '#fff',

  gray: {
    100: '#f7fafc',
    200: '#edf2f7',
    300: '#e2e8f0',
    400: '#cbd5e0',
    500: '#a0aec0',
    600: '#718096',
    700: '#4a5568',
    800: '#2d3748',
    900: '#1a202c',
  },
```

```
screens: {
  sm: '640px',
  md: '768px',
  lg: '1024px',
- xl: '1280px',
},
colors: {
  transparent: 'transparent',

  black: '#000',
  white: '#fff',

  gray: {
    100: '#f7fafc',
-   200: '#edf2f7',
    300: '#e2e8f0',
-   400: '#cbd5e0',
-   500: '#a0aec0',
    600: '#718096',
    700: '#4a5568',
-   800: '#2d3748',
    900: '#1a202c',
  },
```

Automatically removing
unused classes

```
npm install --save-dev
laravel-mix-purgecss
```

```
const mix = require('laravel-mix')

mix.postCss('src/css/site.css', 'dist/css').purgeCss({
  folders: ['templates'],
  extensions: ['html', 'php', 'twig'],
})
```

```javascript
const mix = require('laravel-mix')

require('laravel-mix-purgecss')

mix.postCss('src/css/site.css', 'dist/css').purgeCss({
    folders: ['templates'],
    extensions: ['html', 'php', 'twig'],
})
```

PurgeCSS is now **included by default** with Tailwind 1.4

```javascript
module.exports = {
  purge: [
    './src/**/*.html',
    './src/**/*.vue',
    './src/**/*.jsx',
  ],
  theme: {},,
  variants: {},,
  plugins: [],
}
```

Avoid repetition by **extracting components**

Does something **justify** becoming a component?

Could the duplication **be moved elsewhere**?

```twig
{# base.html.twig #}

{% for item in navItems %}
  <a
    class="block py-3 px-4 text-sm text-gray-800"
    href="{{ item.url }}"
  >
    {{ item.title }}
  </a>
{% endfor %}
```

```twig
{# classes.html.twig #}

<h2>Adults</h2>

{% include 'class-list' with {
    classes: page.classes,
    type: 'adults',
} %}


<h2>Kids</h2>

{% include 'class-list' with {
    classes: page.classes,
    type: 'kids',
} %}
```

```css
a.btn {
  @apply text-sm no-underline font-bold;
  @apply rounded-full inline-block px-5 py-2;
  @apply text-white bg-blue-600;
}

a.btn:hover {
  @apply bg-blue-700;
}
```

```css
a.btn {
  font-size: 0.875rem;
  text-decoration: none;
  font-weight: 700;
  border-radius: 9999px;
  display: inline-block;
  padding-left: 1.25rem;
  padding-right: 1.25rem;
  padding-top: 0.5rem;
  padding-bottom: 0.5rem;
  color: #fff;
  background-color: #3182ce;
}

a.btn:hover {
  background-color: #2b6cb0;
}
```

Customising Tailwind

```
npx tailwind init
```

```js
// tailwind.config.js

module.exports = {
  theme: {
    extend: {},
  },
  plugins: [],
  variants: {},
}
```

```js
// tailwind.config.js

module.exports = {
  theme: {
    colors: {
      inherit: 'inherit',
    },
    extend: {},
  },
  plugins: [],
  variants: {},
}
```

```
// tailwind.config.js

module.exports = {
  theme: {
    extend: {
      colors: {
        inherit: 'inherit',
      },
    },
  },
  plugins: [],
  variants: {},
}
```

```javascript
// tailwind.config.js

module.exports = {
  prefix: '',
  important: false,
  theme: {
    extend: {},
  },
  plugins: [],
  variants: {},
}
```

```
npx tailwind init --full
```

Extending Tailwind CSS with Plugins

```
npm install --save-dev
tailwindcss-list-reset
```

```
// tailwind.config.js

module.exports = {
  theme: {
    extend: {},
  },
  plugins: [require('tailwindcss-list-reset')()],
  variants: {},
}
```

```css
.list-reset {
  list-style: none;
  padding: 0;
}
```

```
// index.js

module.exports = variants => ({addUtilities}) => {
  addUtilities(
    {
      '.list-reset': {
        listStyle: 'none',
        padding: 0,
      },
    },
    variants,
  )
}
```

Demo

Useful links

- tailwindcss.com

- tailwindui.com

- builtwithtailwind.com

- youtube.com/adamwathan

- drupal.org/project/tailwindcss

- oliverdavies.uk/tags/tailwind-css

- oliverdavies.uk/tailwind-repos

Questions?

oliverdavies.uk/tailwind-talk

@opdavies