



tailwindcss

What is it, and how does it work?

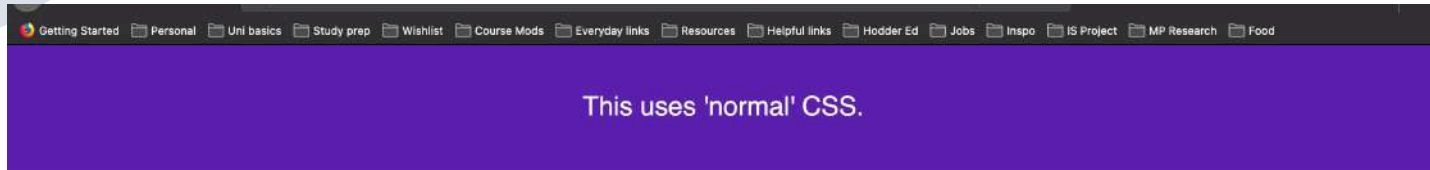
**A utility-first CSS
framework for rapidly
building customer
interfaces.** – tailwindcss.com



Our 'traditional' CSS:

```
h1 {  
  font-size: 16px;  
  font-family: sans-serif;  
  text-align: center;  
  padding: 30px 0;  
  background-color: #5d22ab;  
  color: #FFF;  
}
```

Our result:



In utility-first CSS, each class is specific to a certain style:

```
/* Pretend Tailwind CSS style classes */  
  
.bg-purple {  
  background-color: ■ #5d22ab;  
}  
  
.text-center {  
  text-align: center;  
}  
  
.text {  
  color: ■ #FFF;  
}
```

**For example, in Bootstrap,
our components are already
styled:**



```
<button type="button" class="btn btn-primary">Primary</button>  
<button type="button" class="btn btn-secondary">Secondary</button>  
<button type="button" class="btn btn-success">Success</button>  
<button type="button" class="btn btn-danger">Danger</button>  
<button type="button" class="btn btn-warning">Warning</button>  
<button type="button" class="btn btn-info">Info</button>  
<button type="button" class="btn btn-light">Light</button>  
<button type="button" class="btn btn-dark">Dark</button>  
  
<button type="button" class="btn btn-link">Link</button>
```



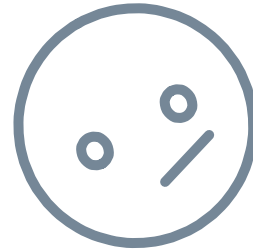
To apply that background colour, text alignment and colour, we need to add those classes to our HTML:

```
<h1 class="bg-purple text-center text-white">
```



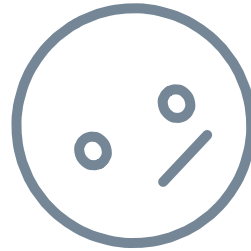
```
0 ~, neau/
1 <body class="font-rob bg-darkblue md:bg-site">
2
3   <!-- Header -->
4   <header class="bg-darkblue text-white p-14 md:w-4/5">
5     <div class="flex justify-between items-center">
6       <div>
7         
8       </div>
9       <div>
10        <a href="/login.html">Login <i class="fas fa-arrow-right"></i></a>
11      </div>
12    </div>
13  </header>
14
15  <!-- Container for flex -->
16  <div class="md:flex h-4/5">
17  <!-- Hero Section -->
18
19  <section class=" px-8 z-10 md:w-4/5 md:px-14 bg-darkblue md:w-4/5 md:pb-14 ">
20
21    <div class=" md:pr-20 md:pb-10">
22
23      <p class="uppercase text-ash font-bold mb-2" > Now updated for tailwind css v2.0</p>
24      <h1 class=" text-3xl md:text-5xl md:my-4 font-bold text-white tracking-wide">Beautiful UI components, crafted <span class="text-litblue leading-8">by the creators of Tailwi
25
26      <p class="text-ash text-lg leading-8 mb-4 md:text-2xl">Fully responsive HTML components, designed and developed by Adam Wathan and Steve Schoger.</p>
27
28      <div class="md:flex md:items-center md:mt-10 ">
29        <a href="#" class=" block px-10 py-2 rounded bg-white text-darkblue w-full text-lg mb-4 md:mb-0 font-medium hover:text-ash text-center md:px-0 md:py-4 md:w-1/4 md:mr-4"> Ex
30
31        <a href="#" class=" block px-10 py-2 rounded bg-ash text-darkblue w-full text-lg font-medium hover:bg-darkash text-center md:px-0 md:py-4 md:w-1/4" > Get early access <i cl
32      </div>
33
34    </div>
35  </section>
36
37  <!-- Image Display-->
38
39  
40
41  </div>
42
43  <!-- Designer section-->
44  <section class="p-8 bg-darkblue md:w-4/5 md:pb-14">
```


**And why would we
want to do this...?**



- You can tailor it according to your own design requirements from the start.
- Re-use of the same utilities.
- No need to make up (abstract, or...silly!) class names.
- Class names relate to style applied, rather than implied function or context.
- Apply your edits directly where they're needed!

Okay...what's the difference between this and inline styles, then?



Hover, focus and other states

```
<h1 class = "bg-purple-800 text-black hover:bg-white">Hello!</h1>
```

Media queries

| Breakpoint prefix | Minimum width | CSS |
|-------------------|---------------|--------------------------------------|
| `sm` | 640px | `@media (min-width: 640px) { ... }` |
| `md` | 768px | `@media (min-width: 768px) { ... }` |
| `lg` | 1024px | `@media (min-width: 1024px) { ... }` |
| `xl` | 1280px | `@media (min-width: 1280px) { ... }` |
| `2xl` | 1536px | `@media (min-width: 1536px) { ... }` |

```
<h1 class="bg-green-200 text-white md:text-red-400">Hello!</h1>
```

So how does Tailwind CSS work?

Installation

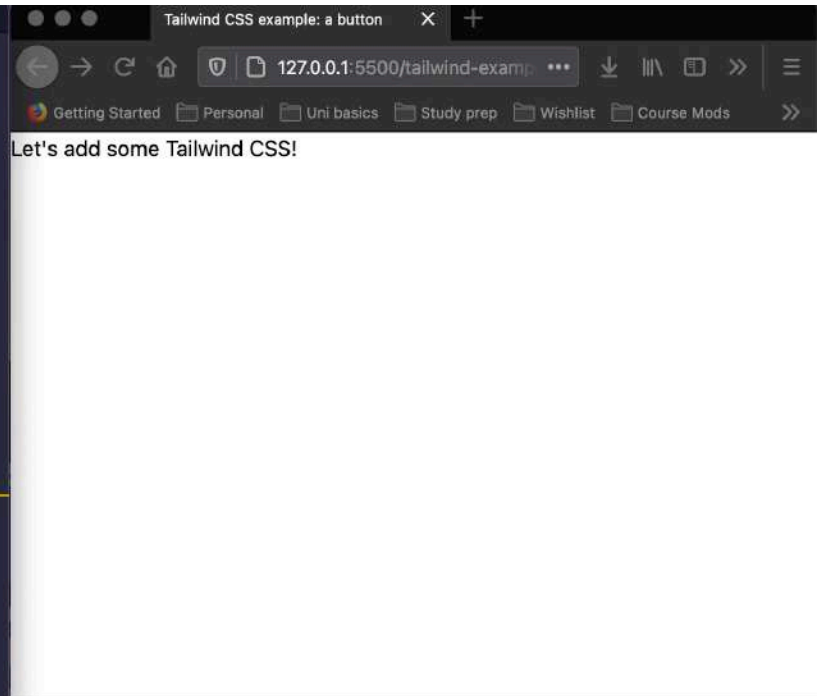
Installed via npm/yarn

Use a CDN Insert*

*Has a lot more restrictions than the full install, but can be useful to demo its features and process.

The image shows a code editor window titled "tailwind-example.html — example-files". The Explorer sidebar on the left shows a project structure with "OPEN EDIT..." (1 UNSAVED) containing "tailwind-exempl...", "classic.html", and "screen-recordin...". Below that, "EXAMPLE-FILES" includes "classic.css" (2), "classic.html", "screen-recording-2....", and "tailwind-example.html". The main editor area displays the following HTML code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width,
7   <title>Tailwind CSS example: a button</title>
8   <!-- link to Tailwind CSS CDN insert -->
9   <link href="https://unpkg.com/tailwindcss@^2/dist/1
10 </head>
11 <body>
12   <h1>Let's add some Tailwind CSS!</h1>
13 </body>
14 </html>
```



**But would we really want
to write bg-purple, etc.
multiple times on the
page?**



Extracting components:

For a demo of this, see Adam Wathan's
video: [Designing with Tailwind CSS:
Extracting Reusable Components](#)

```
<!-- In use -->
<VacationCard
  img="/img/cancun.jpg"
  imgAlt="Beach in Cancun"
  eyebrow="Private Villa"
  title="Relaxing All-Inclusive Resort in Cancun"
  pricing="$299 USD per night"
  url="/vacations/cancun"
/>

<!-- ./components/VacationCard.vue -->
<template>
  <div>
    
    <div class="mt-2">
      <div>
        <div class="text-xs text-gray-600 uppercase font-bold">{{ eyebrow }}</div>
        <div class="font-bold text-gray-700 leading-snug">
          <a :href="url" class="hover:underline">{{ title }}</a>
        </div>
        <div class="mt-2 text-sm text-gray-600">{{ pricing }}</div>
      </div>
    </div>
  </div>
</template>

<script>
  export default {
    props: ['img', 'imgAlt', 'eyebrow', 'title', 'pricing', 'url']
  }
</script>
```

Using @apply:

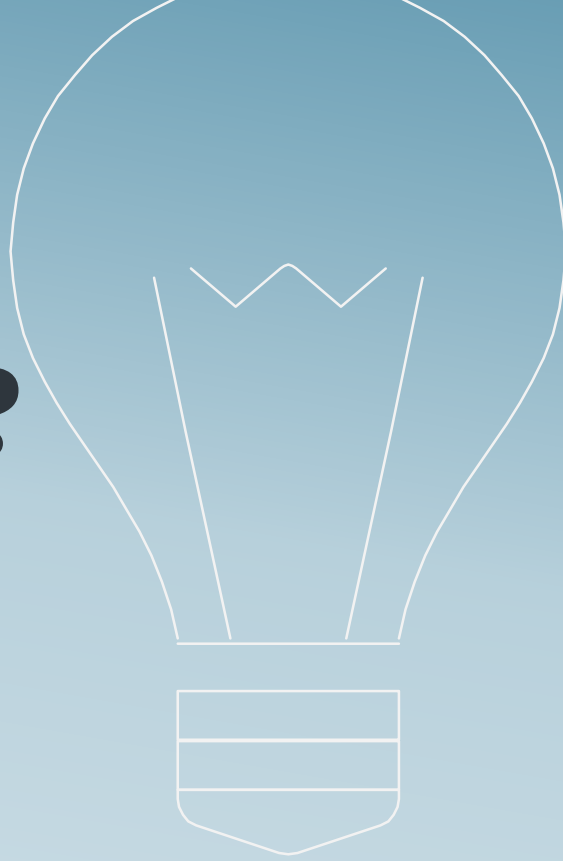


Click me

```
<button class="btn-indigo">
  Click me
</button>

<style>
  .btn-indigo {
    @apply py-2 px-4 bg-indigo-500 text-white font-semibold rounded-lg shad
  }
</style>
```

What about customisation?



Tailwind includes an expertly-crafted default color palette out-of-the-box that is a great starting point if you don't have your own specific branding in mind.

Gray

colors.coolGray



Red

colors.red



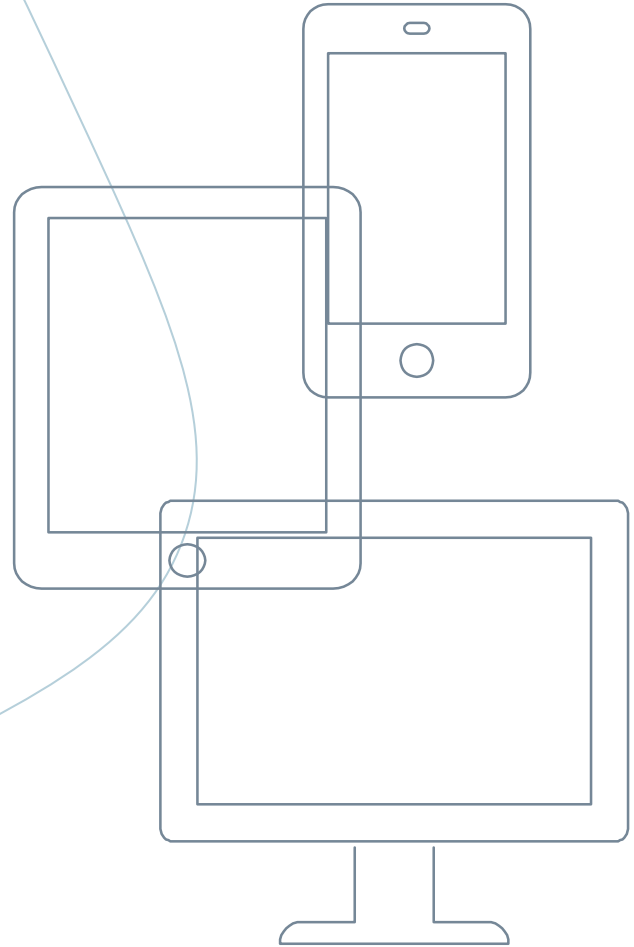
Yellow

colors.amber



```
// tailwind.config.js
module.exports = {
  theme: {
    colors: {
      transparent: 'transparent',
      current: 'currentColor',
      blue: {
        light: '#85d7ff',
        DEFAULT: '#1fb6ff',
        dark: '#009eeb',
      },
      pink: {
        light: '#ff7ce5',
        DEFAULT: '#ff49db',
        dark: '#ff16d1',
      },
      gray: {
        darkest: '#1f2d3d',
        dark: '#3c4858',
        DEFAULT: '#c0ccda',
        light: '#e0e6ed',
        lightest: '#f9fafc',
      }
    }
  }
}
```

What about the browser support?





**“It’s a tool to generate your own
bespoke framework based off your
design requirements”.**

– Owen Melbz, comment from ‘How is this different from inline styles?’”



Thank you!

Resources:

[Tailwind CSS Documentation](#)

[What is Tailwind CSS and how can I add it to my website or](#)

[React app?](#) – Colby Fayock

[Tailwind Play](#)

[Tailwind Labs](#)

[Building Workcation with Tailwind CSS playlist](#) – Adam Wathan

[How to style a form with Tailwind CSS](#) – Nick Basile

References

Colmtuite, 2017 *How is this different from inline styles?*. Available at: <https://github.com/tailwindlabs/discuss/issues/3> [Accessed 10/02/2021]

Eschweiler, Sebastian (2020) *Tailwind CSS for Absolute Beginners*. Available at: <https://medium.com/codingthesmartway-com-blog/tailwind-css-for-absolute-beginners-3e1b5e8fe1a1> [Accessed 05/02/2021]

Hacker News, n.d *Tailwind: style your site without writing any CSS comments*. Available at: <https://news.ycombinator.com/item?id=18362493> [Accessed 05/02/2021]

Okolie, Franklin (no date) *Tailwind CSS*. Available at: <https://tailwind-ui-2.vercel.app/> [Accessed 10/02/2021]

Tailwind Labs (2021) *07: Customizing your Design System – Tailwind CSS: From Zero to Production*. [online video] Available at: <https://www.youtube.com/watch?v=0l0Gx8gWPHk> [Accessed 16/02/2021]

Tailwind CSS (no date) *Tailwind CSS*. Available at: <https://tailwindcss.com/> [Accessed 02/02/2021]

Wathan, Adam (2019) *Designing with Tailwind CSS: Extracting Reusable Components*. [online video] Available at: <https://www.youtube.com/watch?v=3OdRwZu0FQU> [Accessed 08/02/2021]