

Day 51

“Web Development + Security”

Tailwind CSS:

What is Tailwind CSS?

Tailwind CSS is a utility-first CSS framework that lets you build modern, responsive UIs directly in your HTML using pre-defined utility classes.

Why Use Tailwind CSS?

Feature	Traditional CSS	Tailwind CSS
Writing style	Separate .css files	Inline utility classes
Speed	Slower	Much faster
Customization	Manual	Highly configurable
Responsive design	Manual media queries	Built-in responsive classes
Framework support	Any	Works with React, Vue, Next.js, etc.

For now, let's use tailwind using CDN:

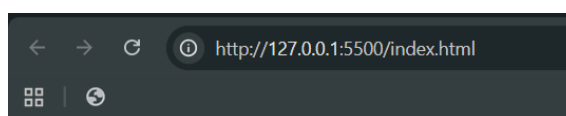
Code:

```

index.html X
index.html > html
1  <!doctype html>
2  <html>
3    <head>
4      <meta charset="UTF-8" />
5      <meta name="viewport" content="width=device-width, initial-scale=1.0" />
6      <script src="https://cdn.jsdelivr.net/npm/@tailwindcss/browser@4"></script>
7    </head>
8    <body>
9      <h1 class="text-3xl font-bold underline">
10        Hello world!
11      </h1>
12    </body>
13  </html>

```

Output:



Hello world!

Now, using Tailwind from terminal using npm/npx: -D indicates dev dependency

```
PS E:\FullStackDevelopment\Day51-60\Day51> npm install -D tailwindcss

up to date, audited 2 packages in 1s

found 0 vulnerabilities
```

Now, index.html:

```
index.html X  tailwind.config.js  CSS output.css 1  CSS input.css

index.html > html
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  |   <meta charset="UTF-8">
5  |   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6  |   <title>Document</title>
7  |   <link rel="stylesheet" href="dist/output.css">
8  </head>
9  <body>
10 |   <div class="container">
11 |     <div class="text-white bg-red-600">Aditya</div>
12 |   </div>
13 </body>
14 </html>
```

Tailwind.config.js:

```
tailwind.config.js > ...
1  /** @type {import('tailwindcss').Config} */
2  export default {
3    content: ["*.html"],
4    theme: {
5      extend: {},
6    },
7    plugins: [],
8  }
```

Src/input.css:

```
src > CSS input.css
1  @import "tailwindcss";
2
```

Terminal:

```
PS E:\FullStackDevelopment\Day51-60\Day51> npx @tailwindcss/cli -i ./src/input.css -o ./dist/output.css --watch
>>
~ tailwindcss v4.1.14

Done in 83ms
Done in 37µs
Done in 4ms
Done in 1ms
```

Output:



What Are Breakpoints?

Breakpoints are specific screen widths at which your website layout changes to fit the device — like phone, tablet, or laptop. In Tailwind, you use breakpoints to make your design responsive — meaning it looks good on all devices.

Default Breakpoints in Tailwind

Prefix	Screen Size	Device Type Example
sm	≥ 640px	Small devices (large phones)
md	≥ 768px	Tablets
lg	≥ 1024px	Laptops
xl	≥ 1280px	Desktops
2xl	≥ 1536px	Large screens

These breakpoints use the “min-width” approach, meaning the style applies from that width and up.