

Tailwind CSS

1. Tailwind Installation

- Utility first library
- npm install tailwindcss @tailwindcss/vite
- Inside vite.config.js
 - import tailwindcss from "@tailwindcss/vite";

 - // https://vite.dev/config/
 - export default defineConfig({
 - plugins: [tailwindcss()],
 - });
- Inside index.css
 - @import "tailwindcss";

2. Tutorials

- a. Colors
 - i. <p class="text-red-500">Red text</p>
 - ii. <div class="bg-blue-300">Background</div>
- b. Padding: p-
 - i. <div class="p-4 bg-gray-100">Padding 4</div>
- c. Margin: m-
 - i. <div class="m-2">Margin 2</div>
- d. Font
 - i. <p class="text-xl font-bold">Big Bold Text</p>
 - ii. <p class="text-sm italic">Small Italic Text</p>
- e. Border and radius
 - i. <div class="border border-black rounded-lg p-4">Box</div>
- f. Width and height
 - i. <div class="w-40 h-20 bg-yellow-300"></div>
- g. Flexbox
 - <div class="flex gap-4">
 <div class="bg-red-400">A</div>
 <div class="bg-blue-400">B</div>
</div>
- h. Centering with flex
 - i. <div class="h-screen flex justify-center items-center">
 <p>Centered Box</p>
 </div>
- i. Grid
 - i. <div class="grid grid-cols-3 gap-4">
 <div class="bg-green-300">1</div>
 <div class="bg-green-300">2</div>
 <div class="bg-green-300">3</div>
 </div>

j. Responsive Design

Prefix Screen

- i. sm: ≥ 640px
- ii. md: ≥ 768px
- iii. lg: ≥ 1024px
- iv. xl: ≥ 1280px

v. Eg:

```
<p class="text-sm md:text-lg lg:text-2xl">  
    Responsive text  
</p>
```

k. Hover

- i. <button class="bg-blue-500 hover:bg-blue-700">
 Hover me
</button>

l. Focus

- i. <input class="border focus:border-blue-500" />

m. Tailwind Positioning

- i. <div class="relative">
 <div class="absolute top-0 left-0">
 Positioned box
</div>
</div>

n. Shadows and Effects

- i. <div class="shadow-lg p-4 rounded">Shadow Box</div>

o. Gradients

- i. <div class="bg-gradient-to-r from-purple-500 to-pink-500 p-6"></div>

p. Custom Fonts

- i. In tailwind.config.js
 - theme: {
 fontFamily: {
 poppins: ['Poppins', 'sans-serif']
 }
 }

ii. using:

```
<p class="font-poppins">Hello</p>
```

q. Custom colors

- i. In tailwind.config.js

```
extend: {  
    colors: {  
        brand: "#4F46E5",  
    },  
}
```

ii. using:

```
1. <div class="bg-brand text-white">Brand Box</div>
```

r. Dark Mode

- i. In tailwind.config.js
 - darkMode: "class"

ii. using:

1. <div class="bg-white dark:bg-black"></div>
- s. Creating components using @apply
 - i. /* inside index.css */

```
.btn-primary {  
    @apply bg-blue-500 text-white px-4 py-2 rounded-lg  
    hover:bg-blue-700;  
}
```
 - ii. Using:
 1. <button class="btn-primary">Click</button>
 - iii. Used in:
 1. Buttons, Cards, Inputs, Modals, Badges, Alerts
- t. Tailwind Plugins
 - i. npm install @tailwindcss/forms
 - ii. In tailwind.config.js:

```
plugins: [require('@tailwindcss/forms')]
```