Carousel

Tailwind CSS
Cheatsheet 🪄✨

From design chaos to pixel-perfect harmony – build faster with utility-first magic ✨

⚙️ Installation & Setup

📌 Install Tailwind CSS via npm.

```
                            code
1   npm install -D tailwindcss postcss autoprefixer  # install
2   npx tailwindcss init -p  # generate config files
```

✅ Add Tailwind to your CSS file.

```
                            code
1   @tailwind base;  # resets default styles
2   @tailwind components;  # adds reusable UI styles
3   @tailwind utilities;  # enables utility classes
```

🔍 Configure template paths in
`tailwind.config.js`.

```
                            code
1   content: [  # define paths
2     './index.html',  # HTML entry
3     './src/**/*.{js,ts,jsx,tsx}'  # all source files
4   ]
```

🎨 Colors & Typography

📌 Tailwind provides a huge palette of colors.

```
1   text-blue-500  # blue text
2   bg-gray-100  # light gray background
3   border-red-400  # red border
```

✅ Control typography with utilities.

```
1   text-xl  # extra large text
2   font-semibold  # medium bold
3   italic  # italic text
4   tracking-wide  # wider letter spacing
5   leading-loose  # relaxed line height
```

Use `font-sans`, `font-serif`, `font-mono` to switch font families.

📦 Layout & Spacing

📌 Control padding, margin, and space between elements.

```
1   p-4  # padding 1rem
2   px-8  # horizontal padding 2rem
3   py-2  # vertical padding 0.5rem
4   m-6  # margin 1.5rem
5   mx-auto  # center horizontally
6   space-x-4  # 1rem horizontal spacing
7   space-y-2  # 0.5rem vertical spacing
```

✅ Create flexible layouts with display and positioning.

```
1   flex flex-col  # vertical flex layout
2   justify-center  # center along main axis
3   items-center  # center along cross axis
4   grid grid-cols-3  # 3-column grid
5   gap-4  # grid gap 1rem
6   absolute top-0 left-0  # position top-left
```

Use `container mx-auto` for centered responsive layouts.

🧩 Flexbox & Grid

📌 Flexbox utilities for alignment and distribution.

```
1   flex flex-row  # horizontal layout
2   justify-between  # space between items
3   items-center  # center vertically
4   flex-wrap  # wrap elements
```

✅ Grid utilities for complex layouts.
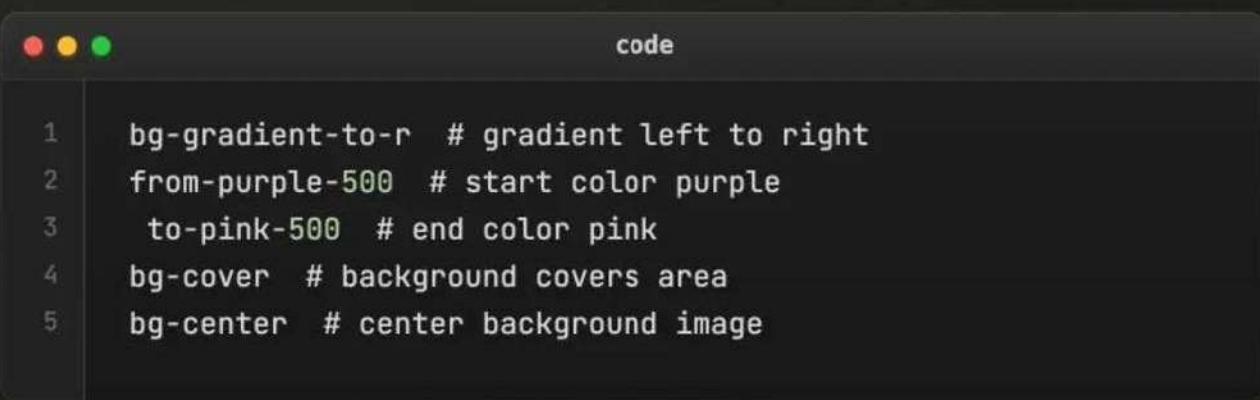
```
1   grid grid-cols-3  # 3 columns
2   gap-6  # spacing 1.5rem
3   col-span-2  # spans 2 columns
4   row-span-1  # spans 1 row
```

Combine grid and flex for responsive, modular layouts.

🌈 Backgrounds & Borders
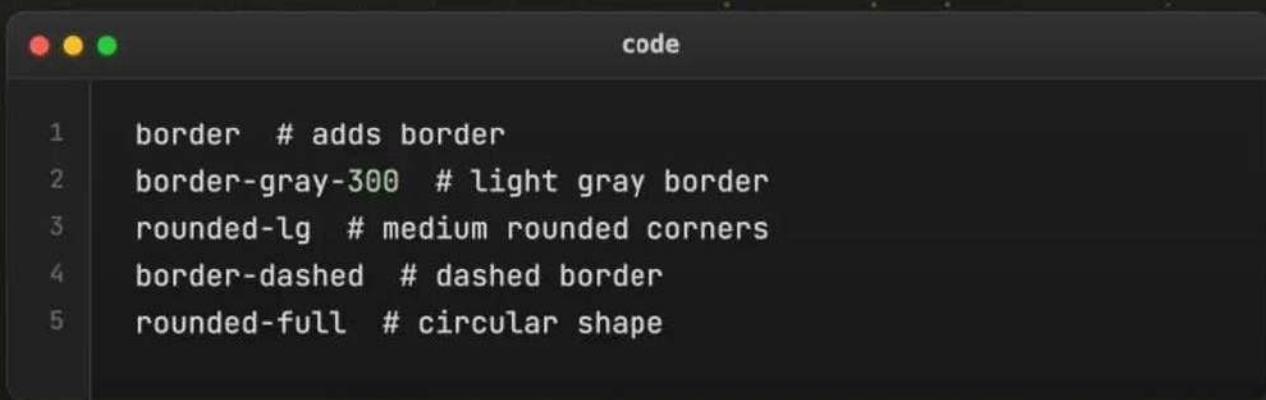
📌 Control background color, gradients, and images.

```
1    bg-gradient-to-r  # gradient left to right
2    from-purple-500  # start color purple
3     to-pink-500  # end color pink
4    bg-cover  # background covers area
5    bg-center  # center background image
```

✅ Customize borders and radius.

```
1    border  # adds border
2    border-gray-300  # light gray border
3    rounded-lg  # medium rounded corners
4    border-dashed  # dashed border
5    rounded-full  # circular shape
```

Use `shadow-md`, `shadow-lg` for depth and elevation.

📱 Responsive Design

📌 Tailwind uses a mobile-first approach. Add breakpoint prefixes to apply styles on larger screens.

```
code
1    sm:   # ≥640px
2    md:   # ≥768px
3    lg:   # ≥1024px
4    xl:   # ≥1280px
5    2xl:  # ≥1536px
```

📌 Use breakpoints for mobile-first design.

```
code
1    sm:text-sm  # small screens
2    md:text-base  # medium screens
3    lg:text-lg  # large screens
4    xl:text-xl  # extra large
5    sm:p-2 md:p-4 lg:p-6  # responsive padding
```

✅ Built-in breakpoints: `sm`, `md`, `lg`, `xl`, `2xl`.
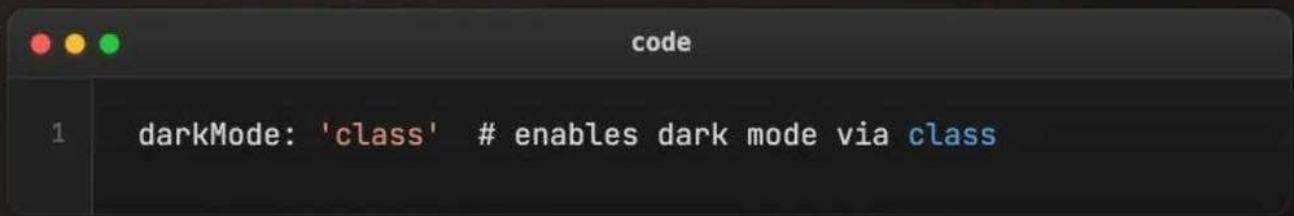
Prefix utilities with breakpoints: `md:bg-blue-500` applies only on medium and larger screens.

❤️ 🔄 🔔

Save for later 💾
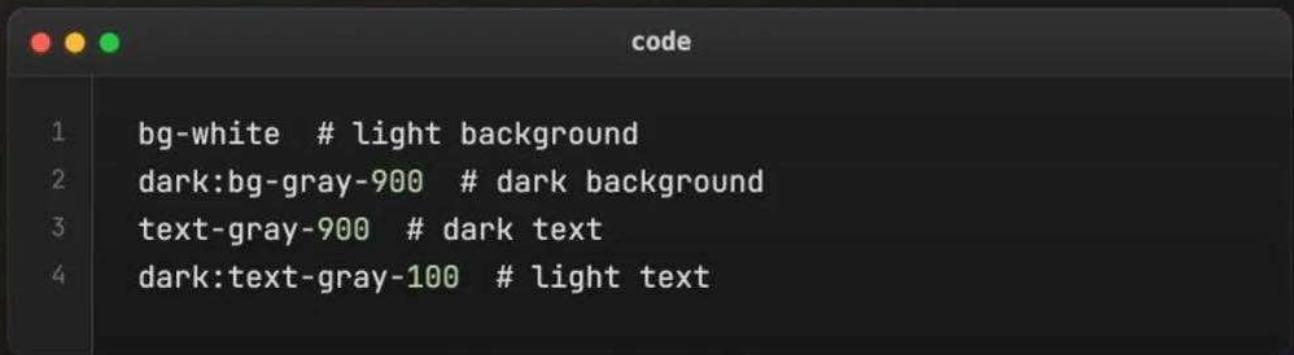
🌙 Dark Mode

📌 Enable dark mode in `tailwind.config.js`.

```
1   darkMode: 'class'  # enables dark mode via class
```

✅ Apply dark variants to utilities.

```
1   bg-white  # light background
2   dark:bg-gray-900  # dark background
3   text-gray-900  # dark text
4   dark:text-gray-100  # light text
```

Toggle dark mode by adding `class='dark'` on the HTML or root element.

🧱 Components & Plugins

📌 Create reusable component classes with @apply.

```
1  .btn-primary {
2    @apply px-4 py-2  # padding
3    bg-blue-500  # blue background
4    text-white  # white text
5    rounded-lg  # rounded corners
6    hover:bg-blue-600;  # darker on hover
7  }
```

✅ Extend functionality with official plugins.

```
1  plugins: [
2    require('@tailwindcss/forms'),  # form styles
3    require('@tailwindcss/typography')  # prose content
4  ]
```

Plugins add utilities for forms, prose, aspect-ratio, and more.