Tailwincss

📌 What is Tailwind CSS?

- **A utility-first CSS framework** → Instead of writing custom CSS, you use small pre-made class names like bg-blue-500 or text-center.
- **Purpose:**
  ○ Faster styling → No need to switch between HTML & CSS files.
  ○ Responsive design made easy (sm:, md:, lg: breakpoints).
  ○ Consistent & scalable styling.
  ○ Super customizable (via tailwind.config.js).

⚡ How to use Tailwind in Vite + React

1️⃣ Install Tailwind

```
npm install -D tailwindcss postcss autoprefixer
npx tailwindcss init -p
```

2️⃣ Enable Tailwind in tailwind.config.js

```
export default {
 content: [
   "./index.html",
   "./src/**/*.{js,ts,jsx,tsx}",
 ],
 theme: {
   extend: {},
 }, plugins: [], }
```

3️⃣ Add Tailwind to src/index.css

@tailwind base;
@tailwind components;
@tailwind utilities;

4️⃣ Run dev server

npm run dev

Now you can use Tailwind classes inside your JSX.

📝 Tailwind Cheat Sheet Here's a **mini dictionary** of common classes you'll use a lot.

🎨 Colors

```
bg-red-500   <!-- background red -->
text-blue-600 <!-- text color blue -->
border-green-400 <!-- border color -->
```

📏 Sizing

```
w-4 h-4    <!-- width/height in rem -->
w-full h-screen
max-w-md    <!-- max width -->
```

📍 Spacing

m-4   <!-- margin -->
mt-2 <!-- margin-top -->
p-6   <!-- padding -->
px-4 <!-- padding-left & right -->
py-2 <!-- padding-top & bottom -->

🔤 Text

text-lg font-bold
text-center uppercase
tracking-wide

📦 Layout

flex items-center justify-between
grid grid-cols-3 gap-4

📱 Responsive

sm:bg-blue-500   <!-- small screen -->
md:bg-green-500 <!-- medium screen -->
lg:bg-yellow-500 <!-- large screen -->

🎭 Effects

shadow-lg rounded-xl
hover:bg-blue-700
transition duration-300 ease-in-out

🎯 Example

```jsx
export default function Card() {
  return (
    <div className="max-w-sm mx-auto bg-white shadow-lg rounded-xl p-6">
      <h2 className="text-xl font-bold text-gray-800">Tailwind Card</h2>
      <p className="text-gray-600 mt-2">Super fast styling without writing CSS.</p>
      <button className="mt-4 bg-blue-500 text-white px-4 py-2 rounded-lg hover:bg-blue-600 transition">
        Click Me
      </button>
    </div>
  );
}
```