Tailwind css

Introduction to Tailwind CSS:

- Tailwind CSS is a utility-first CSS framework created by Adam Wathan, Jonathan Reinink, David Hemphill, and Steve Schoger.
- It was first released in November 2017, aiming to provide a pragmatic approach to styling web applications.

Advantages of Tailwind CSS:

- A utility-first CSS framework for rapidly building custom designs.
- Tailwind CSS is a highly customizable CSS framework.
- With Tailwind, you style elements by applying pre-exis.ng classes directly in your HTML.
- No need for huge CSS files with custom CSS
- Easy to make design changes right from the view files
- Better developer experience
- Mobile-first designs from the start
- Easily customizable with the config files

Core Concepts:

- **Utility Classes:** Tailwind CSS is built around utility classes, which are small, single-purpose classes that apply a specific style to an element.
- Responsive Design: Tailwind allows you to create responsive designs easily using its responsive utility classes. These classes apply styles at specific breakpoints.
- Configuration: Tailwind is highly configurable. You can customize the default theme, add new utility classes, or remove existing ones according to your project's needs.
- Plugins: Tailwind can be extended using plugins to add additional functionality or styles.

Browser Support:

Tailwind CSS supports all modern and older browsers.

Installation:

• Official Tailwind CSS Documentation: https://tailwindcss.com

• Tailwind CDN: </script>

Screen Break points:

Breakpoint	Description	Minimum Width
sm	Small screens	640рх
md	Medium screens	768рх
lg	Large screens	1024рх
xl	Extra-large screens	1280рх
2xl	2x large screens	1536рх

Width and Height:

All of the numbers in Tailwind are based around the rem unit of measurement. 1 rem is equal to the size of the base font of the document. As an example, if the base font size is 16px then 1 rem is equal to 16px and we can deduce that 1.25 rem is equal to 20px . To help with these fractional numbers, Tailwind's numbered classes are multiplied by 4 to avoid having numbers with decimal places.

https://tailwindcss.com/docs/width

Pixels	rem	Tailwind
Орх	0 rem	0
4рх	0.25 rem	1
8рх	0.5 rem	2
12px	0.75 rem	3
16px	1 rem	4
2 0px	1.25 rem	5
24px	1.5 rem	6
32px	2 rem	8
40px	2.5 rem	10

TextColor:

https://tailwindcss.com/docs/text-color

```
<body>
     <div class="text-rose-600">Ws Cube Tech jodhpur</div>
     <div class="text-[red]">Ws Cube Tech jaipur</div>
          <div class="text-[#BD133D]">Ws Cube Tech udaipur</div>
</body>
```

Background Color:

https://tailwindcss.com/docs/background-color

Font Size:

https://tailwindcss.com/docs/font-size

```
Ws Cube Tech 
</body>
```

Font Weight:

https://tailwindcss.com/docs/font-weight

```
<body>
  Ws Cube Tech 
  Ws Cube Tech 
  Ws Cube Tech
```

```
Ws Cube Tech 
Ws Cube Tech 
</body>
```

Letter Spacing:

https://tailwindcss.com/docs/letter-spacing

```
The quick brown fox ...
The quick brown fox ...
The quick brown fox ...
```

Text Decorations:

https://tailwindcss.com/docs/text-decoration

```
The quick brown fox ...
```

Text Transform:

https://tailwindcss.com/docs/text-transform

```
The quick brown fox ...
```

Border:

https://tailwindcss.com/docs/border-width

```
<div class="border border-sky-500"></div>
<div class="border-2 border-sky-500"></div>
<div class="border-4 border-sky-500"></div>
<div class="border-8 border-sky-500"></div>
```

Border Radius:

https://tailwindcss.com/docs/border-radius

```
<div class="rounded ..."></div>
<div class="rounded-md ..."></div>
```

```
<div class="rounded-lg ..."></div>
<div class="rounded-full ..."></div>
```

Flex ,Justify Content ,Align Items :

Justify Content:

Class	Properties
justify-normal	justify-content: normal;
justify-start	justify-content: flex-start;
justify-end	justify-content: flex-end;
justify-center	justify-content: center;
justify-between	justify-content: space-between;
justify-around	justify-content: space-around;
justify-evenly	justify-content: space-evenly;
justify-stretch	justify-content: stretch;

Align Items:

Class	Properties
items-start	align-items: flex-start;
items-end	align-items: flex-end;
items-center	align-items: center;
items-baseline	align-items: baseline;
items-stretch	align-items: stretch;

Padding:

Margin:

```
<div class="m-2"> Ws Cube Tech</div>
<div class="mt-2"> Ws Cube Tech</div>
<div class="mb-2"> Ws Cube Tech</div>
<div class="ms-2"> Ws Cube Tech</div>
<div class="me-2"> Ws Cube Tech</div>
<div class="me-2"> Ws Cube Tech</div>
<div class="m-[8px]"> Ws Cube Tech</div>
<div class="mx-[8px]"> Ws Cube Tech</div>
<div class="mx-[8px]"> Ws Cube Tech</div></div class="my-[8px]"> Ws Cube Tech</div></div</tr>
```

Grid:

https://tailwindcss.com/docs/grid-template-columns

Introduction to Grid Columns Utility:

- Grid Columns utility in Tailwind CSS facilitates the creation of grid-based layouts by defining the number of columns for an element.
- This utility provides flexibility in designing responsive grid systems without the need for writing custom CSS.

Basic Usage:

- The grid columns utility is applied using the grid-cols-{number} class, where {number} represents the desired number of columns.
- For example, grid-cols-3 creates a grid layout with three columns.

Responsive Grids:

- Tailwind CSS supports responsive grid layouts by providing responsive variants for the grid columns utility.
- Responsive classes such as sm:, md:, lg:, and xl: can be prefixed to the grid-cols-{number} class to define different column layouts based on screen size breakpoints.
- For example, sm:grid-cols-1 md:grid-cols-2 lg:grid-cols-3 xl:grid-cols-4 sets the number of columns to 1 on small screens, 2 on medium screens, 3 on large screens, and 4 on extra-large screens.

Gap between Columns:

- The gap between grid columns can be customized using the gap-{value} utility class.
- Adding a gap between columns improves visual clarity and enhances the aesthetics of the grid layout.
- For example, gap-4 adds a gap of 1rem (16px) between grid columns.

Responsive:

Hover:

```
<button class="bg-sky-500 hover:bg-sky-700 duration-[2s]">
    Save changes
  </button>
```

Making Custom class:

```
<!DOCTYPE html>
<html lang="en">
<head>
```

```
<meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>Document</title>
    <script src="https://cdn.tailwindcss.com"></script>
    <style type="text/tailwindcss">
        @layer utilities {
          .myCustomClass{
            width: 200px;
            color: red;
            height: 200px;
            background-color: blue;
          }
      </style>
</head>
<body>
        <div class="w-[1000px] mx-auto border-2 h-[500px] flex</pre>
justify-center items-center">
           <div class="myCustomClass">hello ws </div>
        </div>
</body>
</html>
```

Customize Configuration:

```
}
  </script>
</head>
<body>
  <h1 class="text-3xl font-bold underline text-wsCubeColor">
    Hello world!
  </h1>
</body>
</html>
```

Position:

https://tailwindcss.com/docs/position

```
Class Properties

static position: static;

fixed position: fixed;

absolute position: absolute;

relative position: relative;

sticky position: sticky;
```

Animation:

```
<meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>Document</title>
    <script src="https://cdn.tailwindcss.com"></script>
    <script>
        tailwind.config = {
          theme: {
            extend: {
              keyframes:{
                pradeep:{
                    '0%':{color:"red"},
                    '25%':{color:"blue"},
                    '50%':{color:"pink"},
                    '75%':{color:"white"},
                    '100%':{color:"yellow"},
              }
          }
      </script>
</head>
<body>
    <div class="w-[300px] h-[300px] mx-auto bg-[red]</pre>
animate-[pradeep 2s 1s infinite linear] text-[20px]">
            Lorem ipsum dolor sit amet, consectetur adipisicing elit.
Temporibus minus consequuntur, laborum dolorem illo ex repellendus
culpa veniam quia illum a omnis maxime, neque tempore at dolores libero
hic. Corporis!
        </div>
</body>
</html>
```