# The Ultimate Guide to Mastering Tailwind CSS

#### 1. Colors

# **Background Color**

Classes: bg-{color}-{number}

Options: bg-red-500, bg-blue-700, bg-green-300

Example:

<div class='bg-blue-500'>Blue Background</div>

#### **Text Color**

Classes: text-{color}-{number}

Options: text-gray-800, text-yellow-600, text-purple-400

Example:

Red Text

# 2. Spacing

# **Padding**

Classes: p-{size}, pt-{size}, pb-{size}, pl-{size}, pr-{size}, px-{size}, py-{size}

Options: p-4, pt-2, pb-6, pl-3, pr-5, px-8, py-4

Example:

<div class='p-4'>Padding on all sides</div>

## Margin

Classes: m-{size}, mt-{size}, mb-{size}, ml-{size}, mr-{size}, mx-{size}, my-{size}

Options: m-4, mt-2, mb-6, ml-3, mr-5, mx-8, my-4

Example:

<div class='mt-2 mb-4'>Top and bottom margins</div>

# 3. Typography

#### **Font Size**

Classes: text-{size}

Options: text-xs, text-sm, text-base, text-lg, text-xl

Example:

<h1 class='text-3xl'>Large Text</h1>

# **Font Weight**

Classes: font-{weight}

Options: font-light, font-normal, font-medium, font-semibold, font-bold

Example:

Bold Text

# 4. Layout

#### **Flexbox**

Classes: flex, flex-row, flex-col, items-center, justify-between Options: flex, flex-row, flex-col, items-start, justify-center Example:

<div class='flex items-center justify-between'>

<div>Item 1</div>
<div>Item 2</div>

</div>

#### Grid

Classes: grid, grid-cols-{number}, col-span-{number}

Options: grid, grid-cols-2, grid-cols-4, col-span-1, col-span-2

Example:

<div class='grid grid-cols-3 gap-4'>

<div>Column 1</div>

<div>Column 2</div>

<div>Column 3</div>

</div>

# 5. Borders/Shadows

#### **Border Width**

Classes: border-{size}

Options: border-0, border-2, border-4

Example:

<div class='border-2'>2px Border</div>

#### **Border Radius**

Classes: rounded-{size}

Options: rounded-sm, rounded-md, rounded-lg, rounded-full

Example:

<div class='rounded-lg'>Large Rounded Corners</div>

#### **Box Shadow**

Classes: shadow-{size}

Options: shadow-sm, shadow-md, shadow-lg, shadow-xl

Example:

<div class='shadow-md'>Medium Shadow</div>

# 6. Responsive Design

# **Breakpoints**

Classes: sm:, md:, lg:, xl:

Options: sm:bg-red-500, md:bg-blue-500, lg:bg-green-500, xl:bg-yellow-500

Example:

<div class='p-4 md:p-8 lg:p-12'>Responsive Padding</div>

## 7. Pseudo-Classes

#### Hover

Classes: hover:{utility}

Options: hover:bg-blue-700, hover:text-white

Example:

<button class='bg-blue-500 hover:bg-blue-700'>Hover me</button>

## 8. Flex Utilities

## **Justify Content**

Classes: justify-{alignment}

Options: justify-start, justify-end, justify-center, justify-between

Example:

<div class='flex justify-center'>Centered Flex Item</div>

# **Align Items**

Classes: items-{alignment}

Options: items-start, items-end, items-center, items-stretch

Example:

<div class='flex items-center'>Aligned Center Flex Item</div>

## 9. Grid Utilities

#### **Grid Columns**

```
Classes: grid-cols-{number}
Options: grid-cols-1, grid-cols-2, grid-cols-3, grid-cols-4
Example:
<div class='grid grid-cols-3'>
<div>Col 1</div>
<div>Col 2</div>
<div>Col 3</div>
</div>

Gap
Classes: gap-{size}
Options: gap-2, gap-4, gap-6, gap-8
Example:
<div class='grid grid-cols-3 gap-4'>
```

# 10. Transitions/Animations

#### **Transition**

</div>

<div>Col 1</div>
<div>Col 2</div>
<div>Col 3</div>

Classes: transition-{property}

Options: transition-all, transition-colors, transition-opacity

Example:

<button class='transition-all duration-300'>Smooth Transition</button>

#### **Animation**

Classes: animate-{name}

Options: animate-spin, animate-ping, animate-bounce

Example:

<div class='animate-bounce'>Bouncing Animation</div>

# 11. Positioning

#### **Position**

Classes: absolute, relative, fixed, sticky Options: absolute, relative, fixed, sticky

```
Example:
```

<div class='absolute top-0 left-0'>Positioned Element</div>

#### **Z-Index**

```
Classes: z-{index}
```

Options: z-0, z-10, z-20, z-30

Example:

<div class='z-10'>Z-Index 10</div>

# 12. Overflow

#### Overflow

Classes: overflow-{behavior}

Options: overflow-auto, overflow-hidden, overflow-visible, overflow-scroll

Example:

<div class='overflow-auto'>Overflow Container</div>

#### 13. Box Model

# **Box Sizing**

Classes: box-border, box-content Options: box-border, box-content

Example:

<div class='box-border p-4 border-4'>Box Border</div>

# 14. Custom Breakpoints

# **Modify**

```
Modify custom breakpoints in `tailwind.config.js`
Example:
module.exports = {
  theme: {
    screens: {
        '2xl': '1536px',
    },
  },
}
```