BASIC TO ADVANCED

Summary

- In this section we will learn all **basic to advanced concepts** of Tailwind CSS with some exercise.

How to use documentation

- Head over to https://tailwindcss.com and whatever style you want search that in the search-bar or you can browse the documentation and see all the styles and its properties.
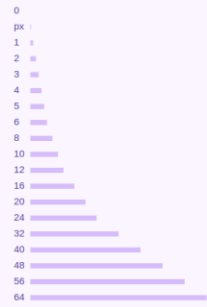
Hover, Focus and active Effects

- You can add hover effect by **just add prefix before** the class-name. For Example, If you want to change the text color to `green-300` on hover. You need to add `hover:text-green-300` in the class list and it will work.

- This concept is same for focus and active effect. For focus you need to add focus: prefix and for active you need to add active: prefix.

- Other effects are also available in the documentation https://tailwindcss.com/docs/hover-focus-and-other-states(click here) like `group-focus, many pseudo elements,` etc.

Basic and useful classes which you need often

Spacing

0	
px	
1	
2	
3	
4	
5	
6	
8	
10	
12	
16	
20	
24	
32	
40	
48	
56	
64	

<640px	640px	768px	1024px	1280px
.flex	.sm:flex	.md:flex	.lg:flex	.xl:flex

Pseudo-Class

responsive
group-hover
focus-within
first
last
odd
even
focus
active
visited
disabled

Functions

@tailwind
@apply
@responsive
@variants
@screen

Colors

gray-100	gray-300	gray-500	gray-700	gray-900
red-100	red-300	red-500	red-700	red-900
orange-100	orange-300	orange-500	orange-700	orange-900
yellow-100	yellow-300	yellow-500	yellow-700	yellow-900
green-100	green-300	green-500	green-700	green-900
teal-100	teal-300	teal-500	teal-700	teal-900
blue-100	blue-300	blue-500	blue-700	blue-900
indigo-100	indigo-300	indigo-500	indigo-700	indigo-900
purple-100	purple-300	purple-500	purple-700	purple-900
pink-100	pink-300	pink-500	pink-700	pink-900

Flexbox

DIRECTION
.flex-row
.flex-col
.flex-row-reverse
.flex-col-reverse

WRAP
.flex-wrap
.flex-no-wrap
.flex-wrap-reverse

ALIGN-ITEMS
.items-stretch
.items-start
.items-center
.items-end
.items-baseline

ALIGN-CONTENT
.content-start
.content-center
.content-end
.content-between
.content-around

JUSTIFY-CONTENT
.justify-start
.justify-center
.justify-end
.justify-between
.justify-around

ALIGN-SELF
.self-auto
.self-start
.self-center
.self-end
.self-stretch

FLEX
.flex-initial
.flex-1
.flex-auto
.flex-none

FLEX-GROW
.flex-grow
.flex-grow-0

FLEX-SHRINK
.flex-shrink
.flex-shrink-0

FLEX-ORDER
.order-first
.order-last
.order-none
.order-{1-12}

Sizing

WIDTH
.w-0
.w-px
.w-auto
.w-{0-64}
.w-1/2
.w-{1-2}/3
.w-{1-3}/4
.w-{1-4}/5
.w-{1-5}/6
.w-{1-11}/12
.w-full
.w-screen

MIN-WIDTH
.min-w-0
.min-w-full

MAX-WIDTH
.max-w-xs
.max-w-sm
.max-w-md
.max-w-lg
.max-w-xl
.max-w-{2-6}xl
.max-w-full

HEIGHT
.h-{0-64}
.h-px
.h-auto
.h-full
.h-screen

MIN-HEIGHT
.min-h-0
.min-h-full
.min-h-screen

MAX-HEIGHT
.max-h-full
.max-h-screen

Background

BG-ATTACHMENT
.bg-fixed
.bg-local
.bg-scroll

BG-COLOR
.bg-transparent
.bg-white
.bg-black
.bg-{color}-{100-900}

BG-POSITION
.bg-{left / right / top / bottom}
.bg-center
.bg-{left / right}
.bg-{left / right}-{top / bottom}

BG-REPEAT
.bg-repeat
.bg-norepeat
.bg-repeat-{x / y}
.bg-repeat-{round / space}

BG-SIZE
.bg-auto
.bg-cover
.bg-contain

Border

BORDER-COLOR
.border-transparent
.border-white
.border-black
.border-{color}-{100-900}

BORDER-STYLE
.border-solid
.border-dotted
.border-dashed
.border-double
.border-none

BORDER-WIDTH
.border-0
.border
.border-{2/4/8}
.border-{t/r/b/l}
.border-{t/r/b/l}-0
.border-{t/r/b/l}-{2/4/8}

BORDER-RADIUS
.rounded-{none/sm}
.rounded
.rounded-{lg/full}
.rounded-{t/r/b/l}-{none/sm}
.rounded-{t/r/b/l}
.rounded-{t/r/b/l}-{lg/full}
.rounded-{tr/tl/br/bl}-{none/sm}
.rounded-{tr/tl/br/bl}
.rounded-{tr/tl/br/bl}-{lg/full}

Layout

CONTAINER
.container

DISPLAY
.block
.inline-block
.inline
.flex
.inline-flex
.table
.table-row
.table-cell
.hidden

FLOAT
.float-right
.float-left
.float-none
.clearfix

OVERFLOW
.overflow-auto
.overflow-hidden
.overflow-visible
.overflow-scroll
.object-left-top
.overflow-x-auto
.overflow-y-auto
.overflow-x-hidden
.overflow-y-hidden
.overflow-x-visible
.overflow-y-visible
.overflow-x-scroll
.overflow-y-scroll
.scrolling-touch (webkit)
.scrolling-auto (webkit)

OBJECT-FIT
.object-contain
.object-cover
.object-fill
.object-none

OBJECT-POSITIONS
.object-bottom
.object-center
.object-left
.object-left-bottom
.object-scale-down
.object-right
.object-right-bottom
.object-right-top
.object-top

POSITIONS
.static
.relative
.absolute
.fixed
.sticky

POSITIONS-TRBL
.{ top/right/bottom/left }-0
.{ top/right/bottom/left }-auto
.inset-0
.inset-auto
.inset-{x/y}-0
.inset-{x/y}-auto

VISIBLE
.visible
.invisible

Z-INDEX
.z-0
.z-10
.z-20
.z-30
.z-40
.z-50
.z-auto

Typography

FAMILY
.font-sans
.font-serif
.font-mono

SIZE
.text-xs
.text-sm
.text-base
.text-lg
.text-xl
.text-2xl
.text-3xl
.text-4xl
.text-5xl
.text-6xl

SMOOTHING
.antialiased
.subpixel-antialiased

STYLE
.italic
.not-italic

WEIGHT
.font-hairline
.font-thin
.font-light
.font-normal
.font-medium
.font-semibold
.font-bold
.font-extrabold
.font-black

LETTER-SPACING
.tracking-tighter
.tracking-tight
.tracking-normal
.tracking-wide
.tracking-wider
.tracking-widest

LINE-HEIGHT
.leading-none
.leading-tight
.leading-snug
.leading-normal
.leading-relaxed
.leading-loose

LIST-STYLE-TYPE
.list-none
.list-disc
.list-decimal

LIST-STYLE-POSITIONS
.list-inside
.list-outside

[PLACEHOLDER/TEXT]-COLOR
.[placeholder/text]-transparent
.[placeholder/text]-white
.[placeholder/text]-black
.[placeholder/text]-{color}-[100-900]

TEXT-ALIGN
.text-left
.text-right
.text-center
.text-justify

TEXT-DECORATION
.underline
.no-underline
.line-through

Spacing

PADDING
.p-px
.p-{0-64}
.p{x/y}-px
.p{x/y}-{0-64}
.p{t/r/b/l}-px
.p{t/r/b/l}-{0-64}

MARGIN
.{-}m-px
.m-auto
.{-}m-{0-64}
.{-}m{x/y}-px
.{-}m{x/y}-{0-64}
.{-}m{t/r/b/l}-px
.{-}m{t/r/b/l}-{0-64}

Effect

OPACITY
.opacity-0
.opacity-25
.opacity-50
.opacity-75
.opacity-100

BOX-SHADOW
.shadow
.shadow-md
.shadow-lg
.shadow-xl
.shadow-2xl
.shadow-inner
.shadow-outline
.shadow-none

Table

COLLAPSE
.border-collapse
.border-separate

LAYOUT
.table-auto
.table-fixed

Interactivity

CURSOR
.cursor-auto
.cursor-default
.cursor-pointer
.cursor-wait
.cursor-text
.cursor-move
.cursor-not-allowed

USER-SELECT
.select-none
.select-text
.select-all
.select-auto

RESIZE
.resize
.resize-{x/y}
.resize-none

POINTER-EVENTS
.pointer-events-auto
.pointer-events-none

OUTLINE
.outline-none

APPEARANCE
.appearance-none

Svg

FILL
.fill-current

STROKE
.stroke-current

Responsive Design

- Responsive design is a **set of prefixes** with **min width** property. Prefixes like `sm`, `md`, `lg`, `xl`, `2xl` are used same as hover and focus effects. You just need to understand the responsive design which is by default we write styles for `640px` and less than that screen size **(mobile devices).**

Dark Mode

- Tailwind also provide dark mode prefix **`dark:`** and it works the same as responsive design and other effects. By default tailwind **pick up system theme**, If your OS theme is dark then dark prefix works.
- And if you want to manually toggle dark mode then you need to add **`darkMode: "classs"`** in *tailwind.config.js* and add dark class in HTML tag.

Customize Style

- We can also apply custom styles with the **help of square brackets** [ ]. For example, I want to apply 600px width of an image so I will write **`w-[600px]`** and we get our result. It works the same for *margin, padding, grids, positions, colors, and many more*. You will get all properties on this page https://tailwindcss.com/docs/adding-custom-styles(click here).

- We can also add custom size using *tailwind.config.js* file. Add your styles in theme object.

Directives

Directives are custom Tailwind-specific at-rules you can use in your CSS that **offer special functionality** for Tailwind CSS projects.

There are 3 directives:

1. **@tailwind** - to insert Tailwind's base, components, utilities and variants styles into your CSS.

2. **@layer** - to tell Tailwind which "bucket" a set of custom styles belong to. Valid layers are base, components, and utilities.

3. **@apply** - to inline any existing utility classes into your own custom CSS.

Function

For now Tailwind has two function:

1. **theme()** - to access your Tailwind config values using dot notation.

2. **screen()** - allows you to create media queries that reference your breakpoints by name instead of duplicating their values in your own CSS.