

Button

cursor-not-allowed	
bg-gradient-to-bl	from-purple-500 via-yellow-500 to-green-400
bg-gradient-to-t	Gradient from bottom to top
bg-gradient-to-b	Gradient from top to bottom
bg-gradient-to-l	Gradient from right to left
bg-gradient-to-r	Gradient from left to right
bg-gradient-to-tl	Gradient from bottom-right to top-left
bg-gradient-to-tr	Gradient from bottom-left to top-right
bg-gradient-to-bl	Gradient from top-right to bottom-left
bg-gradient-to-br	Gradient from top-left to bottom-right

Can define custom button styles in tailwind css

1. use @layer components in global.css

```
@layer components {
  .btn-primary {
    @apply px-4 py-2 bg-blue-500 text-white font-semibold rounded
    shadow-md hover:bg-blue-600 transition;
  }
}
```

2. import global path at your page
import "../styles/global.css";

ul / li

list-disc	list-decimal
-----------	--------------

marker (Style Numbers)

list-inside

```
<ul class="list-disc pl-6 space-y-2 marker:text-sky-400">
<li>5 cups chopped Porcini mushrooms</li>
<li>1/2 cup of olive oil</li>
<li>3lb of celery</li>
</ul>
```

Text align

text-left	text-center	text-right
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Text transforms

uppercase	lowercase	capitalize
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Font size

text-xs	12px
text-sm	14px
text-base	16px
text-lg	18px
text-xl	20px
text-2xl	24px
text-9xl	128px
text-[50px]	Valid

You can extend Tailwind's font size scale in tailwind.config.js:

```
export default {
  theme: {
    extend: {
      fontSize: {
        'xxs': '10px',
        'huge': '100px',
      }
    }
  }
}
```

.astro:

```
<h1 class="text-huge">About</h1>
```

Background colors / Text colors

bg-red-400	text-red-400	
bg-primary	bg-secondary	bg-tertiary
bg-alt	bg-white	bg-black
bg-placeholder		
text-[#a4d01e]	bg-[#a4d01e]	

```
extend: {
  colors: {
    primary: "#1e40af",
  }
},
```

```
<div class="bg-primary"></div>
```

```
<p class="text-primary">About</p>
```

Text decoration

```
underline          overline          line-through
decoration-red-500
decoration-solid   decoration-double  decoration-dotted
decoration-dashed  decoration-wavy
decoration-0       decoration-1       decoration-2
decoration-4       decoration-8
<h1 class="text-blue-600 line-through decoration-red-200 decoratio-
n-wavy decoration-4">About</h1>
```



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Font weight

font-thin	font-extralight	font-light
font-normal	font-medium	font-semibold
font-bold	font-extrabold	font-black

Font family

font-sans (default)	font-serif	font-mono
---------------------	------------	-----------

```
fontFamily: {
  fancy: ["Poppins", 'sans-serif'],
  code: ["Fira Code", 'monospace'],
},

<h1 class="font-code">Testing</h1>
```

Line height

leading-tight (1.25)
leading-snug (1.375)
leading-normal (1.5)
leading-relaxed (1.625)
leading-loose (2)
leading-[1.1]

Letter Spacing

tracking-tighter (-0.05em)
tracking-tight (-0.025em)
tracking-normal(0em)
tracking-wide(0.025em)
tracking-widest(0.1em)

Shadow

shadow-xl	shadow-gray-400
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shadow-inner (Applies the shadow inside the element)

text ✓elements ✗(div/button/image)

```
boxShadow: {
  'neon-green': '0px 4px 10px rgba(164, 208, 30, 0.6)',
},
```

```
<div class="shadow-neon-green w-32 h-44"></div>
```





Opacity

opacity	opacity-20
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Blur

blur-sm

Cursor

- cursor-auto (default browser cursor)
- cursor-default (default arrow pointer)
- cursor-pointer (pointer hand )
- cursor-text (text selection)
- cursor-not-allowed (Shows a blocked circle)
- cursor-wait (Shows a loading wait cursor)
- cursor-progress (Shows a progress indicator)
- cursor-move ( Move cursor (for draggable elements))
- cursor-grab (Open hand cursor (grabbable))
- cursor-grabbing ( Closed hand cursor, while dragging)
- cursor-n-resize ( Resize vertically (north))

a lot different area resize

- cursor-none (hides the cursor)
- cursor-help (shows a question mark cursor)
- cursor-zoom-in (+)
- cursor-zoom-out (-)

Position

absolute	relative
fixed	ticky
left / top / right / bottom	

scale-*

Class	Scale (%)	Effect
scale-0	0%	Invisible (disappears completely)
scale-50	50%	Shrinks to half its size
scale-75	75%	Reduces to 75%
scale-90	90%	Slightly smaller
scale-100	100%	Default (normal size)
scale-105	105%	Slightly enlarged
scale-110	110%	Bigger effect
scale-150	150%	Scales up to 1.5x



Blend modes

mix-blend-normal (default, no blend)
 mix-blend-multiply (multiply, darken effect)
 mix-blend-screen (screen, lighten effect)
 mix-blend-overlay (overlay, contrast effect)
 mix-blend-darken (darken)
 mix-blend-color-dodge (color dodge)
 mix-blend-color-burn (color burn)
 mix-blend-difference (difference)
 mix-blend-exclusion (exclusion 排除)
 mix-blend-hue (hue 色调)
 mix-blend-saturation (saturation 饱和)
 mix-blend-color (color)
 mix-blend-luminosity (luminosity 亮度)

Other

whitespace-nowrap (Prevents text from wrapping to the next line.)
 overflow-hidden (Hides overflowing content (anything that goes beyond the container).)

Width

w-auto	w-5	
h-auto	h-5	
w-1/2	w-1/3	w-2/4
h-1/2	h-1/3	h-2/4
w-full	w-screen	
h-full	h-screen	
w-10p (Invalid)		

```
width:{
"width":"10%",
},
height:{
"height":"50%",
},
```

```
<div class="bg-primary w-width h-height">Background</div>
```

Pseudo-classes

hover:	focus:	active:
select:	file:	print:
first-letter	first-line	
landscape:	portrait:	dark:
marker:	visited:	disabled:
checked:	invalid	valid
required:		
placeholder-shown:	placeholder:	
peer-in-range:	peer-out-of-range:	
sm:	md:	lg:
xl:	2xl:	

```
<input
type="file"
class="file:mr-4 file:rounded-full file:border-5 file:bg-violet-50 file:px-4
file:py-2 file:text-sm file:font-semibold file:text-violet-700"
/>
```

only work for file

Aspect Ratios

Aspect-auto (Default based on content)
 Aspect-square (1:1 square)
 Aspect-video (16:9 video)
 Aspect-widescreen (21:9 ultrawide)
 Aspect-[4/3] (4:3 old TV)
 Aspect-[3/2] (3:2 photo)

Padding & Margin

p-0 (no padding)	p-8	p-8
pt-1	pr-5	pb-2 pl-2
px-1 (padding left & right)	py-2 (padding top & bottom)	
m-auto (used to center element horizontally)		
-mx-4	-mt-3	-m-2

padding use p-
 margin use m-
 p-auto (Invalid)
 margin can support negative, but -m-auto (Invalid).



Border & ring

border default 1px border

border-0	border-2	border-4	border-8
border-t	border-r	border-b-5	border-l-2
border-green-400			
border-solid (default)	border-dashed	border-dotted	border-double
ring-3	ring-blue-400		

Box shadow

shadow-xs	shadow-2xl
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Rounded

rounded-none	rounded-sm
rounded	rounded-md
rounded-lg	rounded-xl
rounded-2xl	rounded-3xl
rounded-full	
rounded-t	rounded-r
rounded-l	rounded-b

-> Can add size (rounded-t-lg)

Animation

ease-linear	ease-in
ease-out	ease-in-out

transition-all

duration-500

delay

```
<button class="bg-blue-500 text-white px-4 py-2 rounded-lg transition-all duration-500 ease-out hover:scale-110">
```

Hover Me

```
</button>
```

```
<div class="w-32 h-32 bg-red-500 transform translate-x-[-100px] transition-all duration-700 ease-out hover:translate-x-0">
```

Slide In

```
</div>
```

```
<div class="opacity-100 transition-opacity duration-700 ease-out hover:opacity-0">
```

Fade Out on Hover

```
</div>
```

Display

grid	flex
------	------

Display : flex (justify-content)

justify-end (col: right)

items-end (row: bottom)

justify-start / justify-normal / items-start / (position: left)

items-center (row: center)

justify-center (col: center)

justify-evenly (same equal space)

justify-between (first item align to first, and last item align to the last. The remain space equals.

justify-around (equal between item, half of the middle space at the first and last item)

items-stretch (stretches items vertically to fill the parent container's height (Only works if the items don't have a fixed height (h-3)

flex-col (arrange its items vertically (column direction))

* space-y-5 (to add place between the column [vertical])

* space-x-5 (to add place between the column [horizontal])

gap-3 (sets the space between child elements inside a flexbox, grid, or gap-supported layout.)

gap-x-3 (horizontal spacing [left-right])

gap-y-2 (vertical spacing [top-bottom])

```
<div class="flex gap-4 bg-gray-200 p-4">
  <div class="bg-blue-500 p-4 w-1/3 h-16">Item 1</div>
  <div class="bg-red-500 p-4 w-1/3 h-16">Item 2</div>
  <div class="bg-green-500 p-4 w-1/3 h-16">Item 3</div>
</div>
```

must set width and height.

Display : flex (flex-wrap)

flex-wrap	flex-wrap:wrap;
flex-wrap-reverse	flex-wrap:wrap-reverse;
flex-nowrap	flex-wrap:nowrap

nowrap: Every item is fit to a single line.

wrap: Items wrap around to additional lines.

wrap-reverse: Items wrap around to additional lines in reverse.

Display : flex (flex-direction)

row: Items are placed the same as the text direction. (

row-reverse: Items are placed opposite to the text direction. (right)

column: Items are placed top to bottom.

column-reverse: Items are placed bottom to top.

Display : flex (flex-flow)

Tailwind CSS Equivalent

Tailwind does not have a direct `flex-flow` utility, but you can combine `flex-direction` and `flex-wrap` manually.

CSS flex-flow Value	Tailwind Equivalent
<code>flex-flow: row nowrap;</code>	<code>flex-row flex-nowrap</code>
<code>flex-flow: row wrap;</code>	<code>flex-row flex-wrap</code>
<code>flex-flow: row wrap-reverse;</code>	<code>flex-row flex-wrap-reverse</code>
<code>flex-flow: column nowrap;</code>	<code>flex-col flex-nowrap</code>
<code>flex-flow: column wrap;</code>	<code>flex-col flex-wrap</code>
<code>flex-flow: column wrap-reverse;</code>	<code>flex-col flex-wrap-reverse</code>

The flex-flow property is a shorthand for both flex-direction and flex-wrap.

Display : flex (align-content)

content-start	align-content: flex-start;
content-end	align-content: flex-end;
content-center	align-content: center;
content-between	align-content: space-between;
content-around	align-content: space-around;
content-evenly	align-content: space-evenly;
content-stretch	align-content: stretch;

content-start: Rows align at the top.

content-end: Rows align at the bottom.

content-center: Rows align in the middle.

content-between: Rows spread evenly with space between them.

content-around: Rows have equal space around them.

content-evenly: Rows are evenly spaced in the container.

content-stretch: Rows stretch to fill the container height.

Display : flex (align-items)

items-start	align-items:flex-start;
items-end	align-items:flex-end;
items	align-items:center;
items-baseline	align-items:baseline;
items-stretch	align-items:stretch; (default)

flex-start: Items align to the top of the container.

flex-end: Items align to the bottom of the container.

center: Items align at the vertical center of the container.

baseline: Items display at the baseline of the container.

stretch: Items are stretched to fit the container. (default)

Display : flex (order)

order-1

Each order has a default order of 0.

Lower order values appear first, while higher values appear later.

We can use this property to also set it to a positive or negative integer value (-2, -1, 0, 1, 2).

Display : flex (self)

self-auto	align-self: auto;
self-start	align-self: flex-start;
self-center	align-self:center;
self-end	align-self:flex-end;
self-stretch	align-self:stretch;
self-baseline	align-self:baseline;

align-items affects all flex items inside the container.

align-self overrides align-items but only for the specific item you apply it to.

Display : grid

justify-start (align the entire grid to the left of the container)

justify-end (align the entire grid to the right of the container)

justify-center (center the entire grid inside its container)

justify-between (distributes items evenly inside the grid container)

grid-cols-3 (set column as 3) [grid-col-start: 2;]



Display : grid (cont)

grid-rows-4 (set row as 4) [grid-row-start: 2;]

col-start-2 / row-start-2 [grid-column-start: 2] (Starts the element at column 2)

col-end-4 / row-end-4 [grid-row-start: 2] (Ends at column 4, not including column 4 itself)

CSS: grid-column-start:2; / grid-column-start:4;

col-span-2 (Makes the item span 2 columns instead of specifying col-end directly) [grid-column-end:span 2]

gap-3 (sets the space between child elements inside a flexbox, grid, or gap-supported layout.)

gap-x-3 (horizontal spacing [left-right])

gap-y-2 (vertical spacing [top-bottom])

```
<div class="grid mt-5 grid-cols-2 gap-x-5 bg-gray-200 h-40 p-4 ">
<div class="rounded-full bg-blue-500"></div>
</div>
```

** no need set the h and w**

```
<div class="w-full bg-[#e8f0f7] grid gap-20 mt-20 grid-cols-1 sm:grid-
cols-2 lg:grid-cols-3">
</div>
```

grid-cols-1 → Defaults to 1 column on extra-small screens.

sm:grid-cols-2 → Changes to 2 columns on small screens (≥ 640px).

lg:grid-cols-3 → Changes to 3 columns on large screens (≥ 1024px).



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