■ Basic CSS vs Tailwind CSS

Essential Styling Properties Cheat Sheet

■■ Layout & Positioning

CSS Property	Tailwind Class	Description
display: block	block	Element takes full width, starts new line
display: inline	inline	Element only takes necessary width
display: inline-block	inline-block	Inline element with block properties
display: none	hidden	Element is completely hidden
display: flex	flex	Creates a flex container
display: grid	grid	Creates a grid container
position: static	static	Default positioning
position: relative	relative	Positioned relative to normal position
position: absolute	absolute	Positioned relative to nearest positioned parent
position: fixed	fixed	Positioned relative to viewport
position: sticky	sticky	Switches between relative and fixed
float: left	float-left	Element floats to the left
float: right	float-right	Element floats to the right
clear: both	clear-both	Clears floated elements on both sides

■ Spacing (Margin & Padding)

CSS Property	Tailwind Class	Description
margin: 0	m-0	No margin on all sides
margin: 1rem	m-4	1rem margin on all sides
margin-top: 0.5rem	mt-2	0.5rem margin on top
margin-bottom: 1rem	mb-4	1rem margin on bottom

CSS Property	Tailwind Class	Description
margin-left: 2rem	ml-8	2rem margin on left
margin-right: 2rem	mr-8	2rem margin on right
margin: 0 auto	mx-auto	Horizontal centering
padding: 0	p-0	No padding on all sides
padding: 1rem	p-4	1rem padding on all sides
padding-top: 0.5rem	pt-2	0.5rem padding on top
padding-bottom: 1rem	pb-4	1rem padding on bottom
padding-left: 2rem	p1-8	2rem padding on left
padding-right: 2rem	pr-8	2rem padding on right
padding: 1rem 2rem	px-8 py-4	Horizontal and vertical padding

■ Sizing (Width & Height)

CSS Property	Tailwind Class	Description
width: 100%	w-full	Full width
width: 50%	w-1/2	Half width
width: 25%	w-1/4	Quarter width
width: auto	w-auto	Auto width
width: 100px	w-24	Fixed width (100px ≈ 6rem)
max-width: 100%	max-w-full	Maximum width 100%
min-width: 0	min-w-0	Minimum width 0
height: 100%	h-full	Full height
height: 100vh	h-screen	Full viewport height
height: 50%	h-1/2	Half height
height: auto	h-auto	Auto height
max-height: 100vh	max-h-screen	Maximum height of viewport
min-height: 100vh	min-h-screen	Minimum height of viewport

CSS Property	Tailwind Class	Description
color: black	text-black	Black text color
color: white	text-white	White text color
color: red	text-red-500	Red text color
font-size: 12px	text-xs	Extra small font size
font-size: 14px	text-sm	Small font size
font-size: 16px	text-base	Base font size (default)
font-size: 18px	text-lg	Large font size
font-size: 24px	text-2xl	Extra large font size
font-weight: normal	font-normal	Normal font weight
font-weight: bold	font-bold	Bold font weight
text-align: left	text-left	Left align text
text-align: center	text-center	Center align text
text-align: right	text-right	Right align text
text-decoration: underline	underline	Underlined text
text-decoration: none	no-underline	Remove text decoration
line-height: 1.5	leading-6	Line height 1.5
letter-spacing: 1px	tracking-wide	Wide letter spacing

■ Background & Borders

CSS Property	Tailwind Class	Description
background-color: white	bg-white	White background
background-color: black	bg-black	Black background
background-color: blue	bg-blue-500	Blue background
background-color: transparent	bg-transparent	Transparent background
border: 1px solid black	border border-black	1px solid black border
border: 2px solid red	border-2 border-red-500	2px solid red border
border: none	border-none	No border
border-radius: 4px	rounded	Rounded corners

CSS Property	Tailwind Class	Description
border-radius: 8px	rounded-lg	Large rounded corners
border-radius: 50%	rounded-full	Fully rounded (circle)
box-shadow: 0 4px 6px rgba(0,0,0,0.1)	shadow-md	Medium shadow
box-shadow: none	shadow-none	No shadow
opacity: 0.5	opacity-50	50% opacity
opacity: 1	opacity-100	Full opacity

■ Common Patterns & Examples:

Center a Div:

CSS: margin: 0 auto; width: fit-content;

Tailwind: mx-auto w-fit

Card Component:

CSS: background: white; padding: 1rem; border-radius: 8px; box-shadow: 0 4px 6px rgba(0,0,0,0.1);

Tailwind: bg-white p-4 rounded-lg shadow-md

Button Style:

CSS: background: blue; color: white; padding: 0.5rem 1rem; border: none; border-radius: 4px;

Tailwind: bg-blue-500 text-white py-2 px-4 border-none rounded

Full Height Container:

CSS: min-height: 100vh; display: flex; flex-direction: column;

Tailwind: min-h-screen flex flex-col

Responsive Text:

CSS: font-size: 1rem; + media queries Tailwind: text-base md:text-lg lg:text-xl

Hide on Mobile:

CSS: @media (max-width: 768px) { display: none; }

Tailwind: hidden md:block

Hover Effects:

CSS: transition: all 0.3s ease; &:hover { transform: scale(1.05); }

Tailwind: transition-all duration-300 hover:scale-105

■ Tips & Best Practices:

Getting Started with Tailwind:

- Add Tailwind CDN: <script src="https://cdn.tailwindcss.com"></script>
- Or install via npm: npm install tailwindcss
- Classes are applied directly in HTML: <div class="bg-blue-500 text-white p-4">

Spacing Scale:

- 0 = 0px, 1 = 0.25rem (4px), 2 = 0.5rem (8px), 4 = 1rem (16px)
- 8 = 2rem (32px), 16 = 4rem (64px), 32 = 8rem (128px)
- Use consistent spacing: p-4 m-2 gap-4 for harmonious layouts

Color System:

- Colors range from 50 (lightest) to 950 (darkest)
- blue-100 (very light) to blue-900 (very dark)
- Use 500 as the default shade for most colors

Responsive Design:

- sm: ≥640px, md: ≥768px, lg: ≥1024px, xl: ≥1280px
- Mobile-first: start with base classes, add breakpoint prefixes
- Example: text-sm md:text-base lg:text-lg

Common Mistakes:

- Don't mix CSS and Tailwind classes unnecessarily
- Use space-x-* and space-y-* for consistent spacing between children
- Remember: Tailwind classes are purged in production (unused classes removed)

Debugging:

- Add background colors to visualize layouts: bg-red-200
- Use browser dev tools to see applied styles
- Tailwind CSS IntelliSense extension for VS Code is very helpful