

Cheat Sheet for comprehensive CSS

Selectors

Basic Selectors

- **Element Selector:** `p { color: blue; }`
- **Class Selector:** `.my-class { font-size: 16px; }`
- **ID Selector:** `#my-id { background-color: yellow; }`
- **Universal Selector:** `* { margin: 0; }`

Combinators

- **Descendant Combinator:** `div p { color: red; }`
- **Child Combinator:** `ul > li { list-style: none; }`
- **Adjacent Sibling Combinator:** `h1 + p { font-weight: bold; }`
- **General Sibling Combinator:** `h1 ~ p { font-style: italic; }`

Attribute Selectors

- **Presence of Attribute:** `a[target] { color: orange; }`
- **Attribute Equals:** `input[type="text"] { border: 1px solid gray; }`
- **Attribute Contains:** `a[href*="example"] { text-decoration: underline; }`
- **Attribute Starts With:** `img[src^="https"] { border: 2px solid blue; }`
- **Attribute Ends With:** `a[href$=".pdf"] { font-weight: bold; }`

Box Model

Margin and Padding

- **Margin:** `margin: 10px;`
- **Top:** `margin-top: 5px;`
- **Right:** `margin-right: 10px;`
- **Bottom:** `margin-bottom: 15px;`
- **Left:** `margin-left: 20px;`

- **Padding:** `padding: 10px;`
- **Top:** `padding-top: 5px;`
- **Right:** `padding-right: 10px;`
- **Bottom:** `padding-bottom: 15px;`
- **Left:** `padding-left: 20px;`

Border

- **Border Width:** `border-width: 2px;`
- **Border Style:** `border-style: solid;`
- **Border Color:** `border-color: black;`
- **Shorthand:** `border: 2px solid black;`

Box Sizing

- **Content-box:** `box-sizing: content-box;`
- **Border-box:** `box-sizing: border-box;`

Display and Positioning

Display

- **Block:** `display: block;`
- **Inline:** `display: inline;`
- **Inline-block:** `display: inline-block;`
- **None:** `display: none;`

Position

- **Static:** `position: static;`
- **Relative:** `position: relative;`
- **Absolute:** `position: absolute;`
- **Fixed:** `position: fixed;`
- **Sticky:** `position: sticky;`

Z-index

- **Z-index:** `z-index: 10;`

Flexbox

Flex Container

- **Display:** `display: flex;`
- **Flex Direction:** `flex-direction: row;`
- **Justify Content:** `justify-content: center;`
- **Align Items:** `align-items: center;`
- **Flex Wrap:** `flex-wrap: wrap;`

Flex Items

- **Flex Grow:** `flex-grow: 1;`
- **Flex Shrink:** `flex-shrink: 0;`
- **Flex Basis:** `flex-basis: auto;`
- **Order:** `order: 2;`

Grid Layout

Grid Container

- **Display:** `display: grid;`
- **Grid Template Columns:** `grid-template-columns: 1fr 2fr 1fr;`
- **Grid Template Rows:** `grid-template-rows: auto auto;`
- **Gap:** `gap: 10px;`

Grid Items

- **Grid Column:** `grid-column: 1 / 3;`
- **Grid Row:** `grid-row: 2 / 4;`
- **Grid Area:** `grid-area: header;`

Text and Typography

Font Properties

- **Font Family:** `font-family: Arial, sans-serif;`
- **Font Size:** `font-size: 16px;`
- **Font Weight:** `font-weight: bold;`

- **Font Style:** `font-style: italic;`

Text Properties

- **Text Align:** `text-align: center;`
- **Text Decoration:** `text-decoration: underline;`
- **Text Transform:** `text-transform: uppercase;`
- **Line Height:** `line-height: 1.5;`

Colors and Backgrounds

Colors

- **Color:** `color: #333;`
- **Background Color:** `background-color: rgba(0, 0, 0, 0.5);`

Backgrounds

- **Background Image:** `background-image: url('image.jpg');`
- **Background Position:** `background-position: center;`
- **Background Repeat:** `background-repeat: no-repeat;`
- **Background Size:** `background-size: cover;`

Transitions and Animations

Transitions

- **Transition Property:** `transition-property: all;`
- **Transition Duration:** `transition-duration: 0.5s;`
- **Transition Timing Function:** `transition-timing-function: ease-in-out;`
- **Transition Delay:** `transition-delay: 0.2s;`
- **Shorthand:** `transition: all 0.5s ease-in-out 0.2s;`

Animations

- **Animation Name:** `animation-name: myAnimation;`
- **Animation Duration:** `animation-duration: 2s;`
- **Animation Timing Function:** `animation-timing-function: linear;`
- **Animation Delay:** `animation-delay: 1s;`

- **Animation Iteration Count:** ``animation-iteration-count: infinite;``
- **Animation Direction:** ``animation-direction: alternate;``
- **Shorthand:** ``animation: myAnimation 2s linear 1s infinite alternate;``

Pseudo-classes and Pseudo-elements

Pseudo-classes

- **Hover:** ``a:hover { color: red; }``
- **Active:** ``button:active { background-color: green; }``
- **Focus:** ``input:focus { border: 2px solid blue; }``
- **First Child:** ``p:first-child { font-weight: bold; }``
- **Last Child:** ``p:last-child { text-decoration: underline; }``

Pseudo-elements

- **Before:** ``p::before { content: ">>"; }``
- **After:** ``p::after { content: "<<" }``
- **First Line:** ``p::first-line { font-size: 20px; }``
- **First Letter:** ``p::first-letter { font-size: 30px; }``

Media Queries

Basic Media Query

- **Min-width:** ``@media (min-width: 768px) { ... }``
- **Max-width:** ``@media (max-width: 480px) { ... }``
- **Orientation:** ``@media (orientation: landscape) { ... }``

Tips and Tricks

CSS Reset

- **Universal Reset:** ``* { margin: 0; padding: 0; box-sizing: border-box; }``

CSS Variables

- **Declaration:** ``--primary-color: #333;``
- **Usage:** ``color: var(--primary-color);``

CSS Shorthand

- **Margin/Padding:** ``margin: 10px 20px 15px 20px;``
- **Border:** ``border: 2px solid black;``
- **Background:** ``background: url('image.jpg') no-repeat center/cover;``

CSS Specificity

- **Inline Styles:** Highest specificity
- **IDs:** High specificity
- **Classes, Attributes, Pseudo-classes:** Medium specificity
- **Elements, Pseudo-elements:** Low specificity

Resources

Useful Tools

- **CSS Validator:** [W3C CSS Validator](<https://jigsaw.w3.org/css-validator/>)
- **CSS Grid Generator:** [CSS Grid Generator](<https://cssgrid-generator.netlify.app/>)
- **Flexbox Froggy:** [Flexbox Froggy](<https://flexboxfroggy.com/>)

Learning Resources

- **MDN Web Docs:** [MDN CSS](<https://developer.mozilla.org/en-US/docs/Web/CSS>)
- **CSS-Tricks:** [CSS-Tricks](<https://css-tricks.com/>)
- **W3Schools:** [W3Schools CSS](<https://www.w3schools.com/css/>)

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