

# CSS Cheatsheet

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## Font

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### Font-Family

```
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif; /* Sets prioritized fonts for text */
```

### Font-Style

```
font-style: italic; /* Makes text italic */
```

### Font-Variant

```
font-variant: small-caps; /* Displays lowercase as small capital letters */
```

### Font-Weight

```
font-weight: bold; /* or 100-900 for thickness control */
```

### Font-Size

```
font-size: 1rem; /* Sets text size, responsive with rem */
```

## Font (Shorthand)

```
font: italic small-caps bold 1rem/1.5 'Segoe UI'; /* Combines style, variant, weight, size, line-height, family */
```

## Font-Kerning

```
font-kerning: normal; /* Controls spacing between letters */
```

## Font-Stretch

```
font-stretch: condensed; /* Expands or condenses text width */
```

## Font-Variant-Ligatures

```
font-variant-ligatures: common-ligatures; /* Enables typographic ligatures */
```

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## Text

### Text-Align

```
text-align: justify; /* Aligns text evenly across the line */
```

### Letter-Spacing

```
letter-spacing: 0.15em; /* Adjusts space between characters */
```

## Text-Decoration

```
text-decoration: underline; /* Adds decoration like underline/overline/line-through */
```

## Word-Spacing

```
word-spacing: 0.25em; /* Sets spacing between words */
```

## Text-Transform

```
text-transform: uppercase; /* Converts text to uppercase */
```

## Text-Indent

```
text-indent: 0.5cm; /* Indents the first line of text */
```

## Line-Height

```
line-height: 1.5; /* Sets vertical spacing between lines */
```

## Text-Overflow

```
text-overflow: ellipsis; /* Adds ... when text overflows */
```

## White-Space

```
white-space: nowrap; /* Prevents text from wrapping */
```

## Word-Break

```
word-break: break-word; /* Breaks long words to fit */
```

## Hyphens

```
hyphens: auto; /* Allows automatic hyphenation */
```

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## Background

### Background-Image

```
background-image: url("path"), linear-gradient(...); /* Adds image or gradient */
```

### Background-Position

```
background-position: center; /* Positions background image */
```

### Background-Size

```
background-size: cover; /* Scales image to cover element */
```

### Background-Clip

```
background-clip: text; /* Clips background to text */
```

### Background-Blend-Mode

```
background-blend-mode: multiply; /* Blends background layers */
```

## Background (Shorthand)

```
background: url('image.jpg') no-repeat center/cover; /* Sets multiple background properties at once */
```

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## Border & Outline

### Border

```
border: 2px solid #000; /* Adds border with size, style, color */
```

### Border-Radius

```
border-radius: 15px; /* Rounds corners */
```

### Outline

```
outline: 2px dashed red; /* Adds outline outside element box */  
outline-offset: 4px; /* Adjusts distance from element */
```

### Border-Image

```
border-image: url(border.png) 30 round; /* Uses image as border */
```

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# Box Model

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## Margin & Padding

```
margin: 10px 20px; /* Outer spacing */  
padding: 5px 10px; /* Inner spacing */
```

## Width & Height

```
width: 100%; /* Element width */  
height: fit-content; /* Height based on content */
```

## Box-Sizing

```
box-sizing: border-box; /* Includes padding/border in total size */
```

## Overflow

```
overflow: hidden; /* Hides overflow */  
overflow-x: scroll; /* Scroll horizontally */  
overflow-y: auto; /* Scroll vertically as needed */
```

## Aspect-Ratio

```
aspect-ratio: 16/9; /* Keeps width:height ratio */
```

## Object-Fit

```
object-fit: cover; /* Scales image/video to fill box */
```

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# Colors

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## Color

```
color: #333; /* Text color */
```

## Opacity

```
opacity: 0.8; /* Element transparency */
```

## Modern Colors

```
color: hsl(200, 80%, 40%); /* HSL color format */
```

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# Positioning

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## Position

```
position: relative; /* Sets positioning context */
```

## Z-Index

```
z-index: 10; /* Stacking order */
```

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# Flexbox

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## Parent (Container)

```
display: flex; /* Activates flex layout */
flex-direction: row; /* Row direction */
justify-content: space-between; /* Distributes space */
align-items: center; /* Aligns items vertically */
gap: 1rem; /* Space between flex items */
```

## Child (Item)

```
flex: 1; /* Flexible width */
align-self: center; /* Individual alignment */
order: 2; /* Changes visual order */
```

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# CSS Grid

## Parent (Container)

```
display: grid; /* Enables grid layout */
grid-template-columns: 1fr 2fr; /* Defines columns */
grid-template-rows: auto 1fr auto; /* Defines rows */
grid-template-areas:
    "header header"
    "sidebar main"
    "footer footer"; /* Named grid areas */
gap: 1rem; /* Space between grid items */
```

## Child (Item)

```
grid-area: main; /* Places item in named area */
```



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## CSS Variables

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```
:root {  
  --primary-color: #007bff; /* Declares variable */  
}  
  
div {  
  color: var(--primary-color); /* Uses variable */  
}
```

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## Media Queries

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```
@media (max-width: 768px) {  
  body {  
    font-size: 14px; /* Applies styles on small screens */  
  }  
}
```

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## Animations & Transitions

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### Animation

```
@keyframes slide {  
  from { transform: translateX(-100%); }  
  to { transform: translateX(0); }  
}  
  
.element {  
  animation: slide 1s ease-in-out infinite alternate; /* Animates element */  
}
```

## Transition

```
transition: all 0.3s ease-in-out; /* Smoothly animates property changes */
```

## Transform

```
transform: scale(1.1) rotate(10deg); /* Moves, rotates, scales elements */
```

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## Modern Features

### Scroll Snap

```
scroll-snap-type: x mandatory; /* Creates snap scrolling */
```

### Backdrop Filter

```
backdrop-filter: blur(10px); /* Adds blur behind element */
```

### Custom Scrollbar

```
::-webkit-scrollbar { width: 8px; }  
::-webkit-scrollbar-thumb { background: #888; border-radius: 4px; } /* Styles  
scrollbar */
```

### Responsive Sizing

```
font-size: clamp(1rem, 2vw, 1.5rem); /* Responsive font size */
```