

# CSS Cheat Sheet - You Don't Need JavaScript

Modern CSS features for building interactive, accessible websites.

Checkout my blog for more articles: [theosoti.com](http://theosoti.com).

## SELECTORS & PSEUDO-ELEMENTS

### :has()

```
fieldset:has(input:checked) { border-color: green; }
li:has(ul) > a::after { content: ">"; }
.list:has(.card:hover) .card:not(:hover) { filter: blur(4px); }
```

Browser support: 93%+

## THEMES & COLOR

### prefers-color-scheme

```
@media (prefers-color-scheme: dark) {
  :root { --text: white; --bg: black; }
}
```

Browser support: 95%+

### light-dark()

```
:root {
  color-scheme: light dark;
  --text: light-dark(black, white);
}
```

Browser support: 86%

## SCROLLING

### scroll-behavior

```
html { scroll-behavior: smooth; }
.sidebar { scroll-behavior: smooth; }
```

Browser support: 94%+

### scroll-padding-top

```
html { scroll-padding-top: 80px; }
Global offset
```

### scroll-margin-top

```
section { scroll-margin-top: 80px; }
Per-element
```

## COUNTERS

### counter-reset / counter-increment

```
main { counter-reset: h2; }
h2 { counter-increment: h2; }
h2::before { content: counter(h2) ". ";}
/* Nested: */ section { counter-reset: h3; }
h3::before { content: counter(h2) "." counter(h3) " - ";
```

### Animated Counter

```
@property --c { syntax: ""; initial-value: 0; }
@keyframes up { to { --c: 100; } }
.ticker { animation: up 3s linear forwards; }
.ticker::after { counter-reset: n var(--c); content: counter(n); }
```

Browser support: 92.5%+

## ANIMATION & MOTION

### @property

```
@property --angle {
  syntax: "", initial-value: 0deg; inherits: false;
}
@keyframes spin { to { --angle: 360deg; } }
```

Browser support: 92.5%+

### prefers-reduced-motion

```
@media (prefers-reduced-motion: reduce) {
  * { animation: none !important; }
}
```

### @keyframes + animation

```
@keyframes spin { to { transform: rotate(360deg); } }
.el { animation: spin 3s linear infinite; }
```

### Animated Borders

```
.card::after {
  background: conic-gradient(from var(--angle), #f45, #0f9, #06f);
  animation: spin 3s linear infinite;
}
```

## SCROLL-DRIVEN ANIMATIONS

### animation-timeline: scroll()

```
@keyframes grow { to { transform: scaleX(1); } }
.progress::before {
  animation: grow linear both;
  animation-timeline: scroll();
}
```

Browser support: 73%

### animation-timeline: view()

```
img {
  animation: fadeIn linear forwards;
  animation-timeline: view();
  animation-range-start: 100px;
}
```

## MASKING & VISUAL EFFECTS

### mask-image

```
.slider { mask-image: linear-gradient(to right,
  transparent, #000 10% 90%, transparent); }
/* Before/after slider */
.before { mask: linear-gradient(to right, #000 0, transparent 0); }
.after { mask: linear-gradient(to right, transparent 0, #000 0); }
```

Browser support: 96%+ (with -webkit- prefix)

### backdrop-filter

```
dialog::backdrop {
  backdrop-filter: blur(4px);
}
```

## VIEW TRANSITIONS

### @view-transition

```
@view-transition { navigation: auto; }
#content { view-transition-name: content; }
```

Browser support: 81-87%

### Styling Transitions

```
::view-transition-old(content) { animation: out 400ms; }
::view-transition-new(content) { animation: in 400ms; }
@keyframes out { to { translate: 100vw 0; } }
```

## MOTION PATH

### offset-path / offset-distance

```
.box {
  offset-path: path('M16,120 C80,20 220,20 284,120');
  animation: move 3s ease-in-out infinite;
}
@keyframes move { to { offset-distance: 100%; } }
```

Browser support: 93.5%+

### offset-rotate

```
.arrow {
  offset-rotate: auto; /* Face travel direction */
}
```

## NATIVE INTERACTIVE ELEMENTS

### <dialog>

```
<dialog id="modal">
  <h2>Title</h2>
  <form method="dialog"><button>Close</button></form>
</dialog>
modal.showModal(); /* JS */
dialog[open] { opacity: 1; translate: 0; }
@starting-style { opacity: 0; translate: 0 -25vh; }
```

Browser support: 95%+ • @starting-style: 87%

### <details> / <summary>

```
summary::webkit-details-marker { display: none; }
summary::after { content: ">"; transform: rotate(90deg); }
details[open] summary::after { transform: rotate(270deg); }
.content { display: grid; grid-template-rows: 0fr; }
details[open] + .content { grid-template-rows: 1fr; }
```

Browser support: 95%+

## FORM VALIDATION

### :valid / :invalid

```
input:valid { border-color: green; }
input:invalid { border-color: red; }
```

Browser support: 95%

### :user-valid / :user-invalid

```
input:user-valid { --state: green; }
input:user-invalid { --state: red; }
input:user-valid + .msg [data-matches="user-valid"] { display: block; }
```

Browser support: 87%

## EMERGING FEATURES

### popover

```
<button popover-target="#menu">Open</button>
<div id="menu" popover>Content</div>
[popover]:popover-open { opacity: 1; transform: translateY(0); }
@starting-style { opacity: 0; transform: translateY(-20px); }
```

Browser support: 85.5%

### position-anchor

```
.btn { anchor-name: --btn; }
.tip { position: absolute; position-anchor: --btn;
  top: calc(anchor(bottom) + 8px);
  position-try: flip-block flip-inline; }
```

Browser support: 73%

## FUTURE / EXPERIMENTAL

### random()

```
.confetti > i {
  animation-delay: random(0ms, 600ms);
}
```

Browser support: 64%

### sibling-index()

```
.card { animation-delay:
  calc((sibling-index() - 1) * 80ms);
}
```

### attr(type)

```
.chip { rotate:
  attr(data-rot deg, 0deg); }
```

### field-sizing

```
input, textarea {
  field-sizing: content;
}
```

### if()

```
.card { padding:
  if(media(width < 700px): .75rem;
  else: 1.25rem); }
```

### @function

```
@function --space(--n : 1) {
  result: calc(1rem * var(--n)); }
```

**Best Practices:** Use @supports for feature detection • Provide fallbacks • Respect prefers-reduced-motion • Always validate server-side • Rule of Least Power: HTML → CSS → JS

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