

CSS

# CSS Cheat Sheet



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# Selectors

Selectors are patterns that match one or more elements.

```
index.css

/* Selects all paragraphs */
p {
    color: blue;
}
```



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# Animations

Animates elements over time using keyframes.

```
index.css

/* Animates a div from left to right */
@keyframes slide {
  from {
    transform: translateX(0);
  }
  to {
    transform: translateX(100px);
  }
}

.slide-animation {
  animation: slide 2s ease-in-out;
}
```





# Box Model

The box model describes the layout of elements, including

- Content
- Padding (space around content)
- Border (space between padding & margin)
- Margin (space outside border).

```
index.css

/* Adds padding, border, and margin to a div */
div {
  padding: 10px;
  border: 1px solid black;
  margin: 20px;
}
```



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# Flexbox

A layout model providing a more efficient way to design complex layouts.

```
index.css

/* Creates a flex container */
.flex-container {
  display: flex;

  /*Distribute child items evenly horizontally*/
  justify-content: space-between;
}
```



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# Grid Layout

A two-dimensional layout system for the web.

```
index.css

/* Creates a grid container with two columns */
.grid-container {
  display: grid;
  grid-template-columns: 1fr 1fr;
}
```



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# Positioning

Determines how an element is positioned within its containing element.

```
index.css

/* parent container with relative positioning*/
.parent {
  position: relative;
}

/* Child element that can be moved anywhere
inside the parent using top, right, left, bottom*/

.child {
  position: absolute;
  top: 10px;
  left: 20px;
}
```





# Transitions

Smoothly animates property changes over a specified duration.



index.css

```
/* Adds a transition to the color property */  
button {  
    transition: color 0.3s ease-in-out;  
}
```



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# Media Queries

Allows styling based on the characteristics of the device, like screen width or height

```
index.css

/* Styles for screens smaller than 600 pixels
@media screen and (max-width: 600px) {
  body {
    background-color: lightblue;
  }
}
```



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