# CSS Cheat Sheet (Beginner)

## Basic Syntax

- `selector { property: value; }`
- `Example: p { color: red; font-size: 16px; }` → All paragraphs red, 16px

## Selectors

- `* { margin: 0; padding: 0; }` → Universal
- `p { color: blue; }` → Element selector
- `.highlight { background: yellow; }` → Class selector
- `#main-title { font-size: 24px; }` → ID selector
- `div p { color: green; }` → Descendant
- `ul > li { list-style: none; }` → Direct child
- `a:hover { color: red; }` → Pseudo-class

## Colors

- `h1 { color: blue; }` → Named color
- `h1 { color: #ff0000; }` → HEX
- `h1 { color: rgb(255, 0, 0); }` → RGB
- `h1 { color: rgba(255, 0, 0, 0.5); }` → RGBA with transparency

## Text

- `p { font-family: Arial, sans-serif; }`
- `p { font-size: 16px; }`
- `p { font-weight: bold; }`
- `p { text-align: center; }`
- `p { text-decoration: underline; }`
- `p { line-height: 1.5; }`

## Backgrounds

- `body { background-color: lightblue; }`
- `body { background-image: url('image.jpg'); }`
- `body { background-repeat: no-repeat; }`
- `body { background-size: cover; }`

- `body { background-position: center; }`

## Box Model

- `div { width: 200px; height: 100px; }`
- `div { margin: 10px; } /* outside space */`
- `div { padding: 20px; } /* inside space */`
- `div { border: 2px solid black; }`
- `div { border-radius: 8px; }`

## Display & Positioning

- `span { display: inline; }`
- `div { display: block; }`
- `nav { display: flex; }`
- `.box { position: relative; top: 10px; left: 20px; }`
- `.box { position: absolute; }`
- `.box { position: fixed; }`
- `.box { position: sticky; }`

## Flexbox

- `.container { display: flex; }`
- `.container { justify-content: center; } /* horizontal */`
- `.container { align-items: center; } /* vertical */`
- `.container { gap: 10px; }`

## Grid

- `.grid { display: grid; }`
- `.grid { grid-template-columns: 1fr 1fr 1fr; } /* 3 equal cols */`
- `.grid { gap: 10px; }`

## Transitions & Animations

- `button { transition: background 0.3s ease; }`
- `button:hover { background: red; }`
- `@keyframes fade { from { opacity: 0; } to { opacity: 1; } }`
- `div { animation: fade 2s ease-in-out; }`

## Media Queries

- `@media (max-width: 600px) { body { font-size: 14px; background: lightgrey; } }`