CSS Cheat Sheet - A Basic Guide to CSS

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What is CSS?

CSS is Cascading Style Sheets is a stylesheet language used to describe the presentation of a document written in a markup language such as HTML, XML, etc. CSS enhanced the look and feel of the webpage by describing how elements should be rendered on screen or in other media.

What is a CSS Cheat Sheet?

CSS Cheat Sheet provides you with the most common style snippets: CSS gradient, background, button, font family, order, radius, box, and text shadow generators, color picker, and more tools to add more visual weight to your document. All these and other useful web design tools can be found on a single page.

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CSS Basics: Cascading Style Sheet(CSS) is used to set the style in web pages that contain HTML elements, here we will see in how many ways we can add CSS for our HTML, there three different ways to do so one by one we will see these procedure.

External CSS: External CSS contains a list of rules in file with a .css extension which contains only style property with the help of big attributes.

```
selector1
    property1: value1;
    property2: value2;
}
selector2
{
}
```

Include external CSS file: The external CSS file is linked to the HTML document using a link tag.

```
<link rel="stylesheet" type="text/css" href="style.css" />
```

Internal CSS or Embedded: CSS is embedded within the HTML file using a style HTML tag.

```
<style type="text/css"
div { color: #444;}
</style>
```

Inline CSS: It contains CSS properties in the body section specified within HTML tags.

```
<tag style="property: value" > </tag>
```

Clearfix: It clears floats to select or control margins and padding.

```
.clearfix:after {
    content: "";
    clear: both;
    display: block;
}
```

Selectors: Used to find or select the HTML elements you want to style. These are categorized as follows:

Basic Selectors	Description	Syntax
Universal	Selects all elements on the pages.	*{property:value;}
Type	Selects all HTML tagelement of given type in your document.	p {property:value;}
Id	Selects an element based on the value of its unique id attribute.	#id {property:value;}
Class	Selects all elements in the document that have the given class attribute.	.class {property:value;}
Attribute	Selects all elements that have a specified attribute.	a[attribute:value] {property:value;}
Combinators	Complex selectors consisting of more than one selectors having some relationship between them.	selector1 selector2 selector 1>selector2 / selector 1+ selector 2 /property: value;}
Pseudo	Define the special state of an element to add an effect to an existing element based on its states.	selector :pseudo-class{ property: value; }

```
<!DOCTYPE html>
<head>
<style>
    /*CSS Selectors*/
    /* CSS selectors are in used -->
    <style>
        /* universal selector */
        *
        {
            background-color: hsl(111, 41%, 67%);
            text-align:center;
        }
        /* type selector */
        body
            background-color: skyblue;
        /* id selector */
        #id-selector
        {
            color: green;
            text-align: center;
            text-size: 20px;
            text-weight: bold;
        }
        /* class selector */
        .class
        {
            color: orange;
            text-align: center;
            text-size: 20px;
            text-weight: bold;
        }
        /* attribute selector */
        div[attribute]
        {
            color: green;
            color: yellow;
            text-size: 20px;
            text-weight: bold;
            margin-bottom: 15px;
        }
        /* combinator selector */
        div>p
        {
            color: #00000;
            text-size: 15px;
            text-weight: bold;
            text-align: left;
            margin-left: 10px;
        }
        /* pseudo selector */
        div:
        {
            background-color: yellow;
            text-size: 20px;
            height: 100px;
            weight: 40%;
            text-align: center;
            text-weight: bold;
            text-size: 15px;
        }
        /* pseudo element */
        .div:hover {
            background-color: orange;
        }
    </style>
</head>
<body>
    <!-- Universal selector here gives a pink background
    <br>
    <p>type</p>
    <p>id-type is styled using type selector.
    <br><br>
    <p>"class"</p>
    <p> div is styled using id selector
    <br>
    <br><br>
    <div>"class "></div>
    <br> this div is styled using class selector
    <br>
    <br>
    <br>
```

CSS

```
/* CSS3/CSS4 Box Model/Utilities
.box {
  width: 300px;
  height: 200px;
  /* Basic box model properties
  margin: 20px;
  padding: 15px;
  border: 2px solid #333;
  /* Modern box-sizing
  box-sizing: content-box; /* default
  box-sizing: border-box; /* more intuitive
  /* Multiple borders
  outline: 3px solid #ff6b6b;
  outline-offset: 10px;
  /* Overflow handling
  overflow: hidden;
  overflow-x: scroll;
  overflow-y: auto;
  /* Aspect ratio (modern)
  aspect-ratio: 16/9;
  /* Resize handle
  resize: both;
  resize: horizontal;
  resize: vertical;
  /* Clearfix for floats
  clear: both;
  clear: left;
  clear: right;
  /* Visibility
  visibility: visible;
  visibility: hidden;
  visibility: collapse;
  /* Opacity
  opacity: 0.95;
  /* Z-index stacking
  z-index: 10;
  /* Position context
  position: relative;
  position: absolute;
  position: fixed;
  position: sticky;
  /* Transform (affects stacking)
  transform: translateX(10px);
  transform: rotate(2deg);
  transform: scale(1.05);
  /* Transition
  transition: all 0.3s ease-in-out;
  transition: opacity 0.2s, transform 0.3s;
  /* Animation
  animation: fadeIn 2s infinite;
  animation: slideUp 0.5s ease-out forwards;
  /* Cursor
  cursor: pointer;
  cursor: not-allowed;
  cursor: grab;
  cursor: grabbing;
  /* Pointer events
  pointer-events: none;
  pointer-events: auto;
  /* Text selection
  user-select: none;
  user-select: text;
  user-select: all;
  /* Scroll behavior
  scroll-behavior: smooth;
  scroll-behavior: auto;
  /* Overscroll behavior
  overscroll-behavior: contain;
  overscroll-behavior: none;
  overscroll-behavior: auto;
  /* Will change (performance hint)
  will-change: transform;
  will-change: opacity;
  will-change: auto;
  /* Contain (performance isolation)
  contain: layout;
  contain: paint;
  contain: strict;
  contain: content;
  /* Isolation (stacking context)
  isolation: isolate;
  isolation: auto;
  /* Mix blend mode
  mix-blend-mode: multiply;
  mix-blend-mode: screen;
  mix-blend-mode: overlay;
  /* Background clip
  background-clip: text;
  background-clip: padding-box;
  background-clip: content-box;
  /* Object fit (for replaced elements)
  object-fit: cover;
  object-fit: contain;
  object-fit: fill;
  object-fit: none;
  object-fit: scale-down;
  /* Object position
  object-position: center;
  object-position: top left;
  object-position: 50% 25%;
  /* Aspect ratio
  aspect-ratio: 1/1;
  aspect-ratio: 4/3;
  aspect-ratio: 16/9;
  /* Scroll snap
  scroll-snap-type: x mandatory;
  scroll-snap-type: y proximity;
  scroll-snap-type: both mandatory;
  scroll-snap-type: none;
  /* Touch action
  touch-action: pan-x;
  touch-action: pan-y;
  touch-action: pinch-zoom;
  touch-action: none;
  touch-action: manipulation;
  /* Hyphens
  hyphens: none;
  hyphens: manual;
  hyphens: auto;
  /* Writing mode
  writing-mode: horizontal-tb;
  writing-mode: vertical-rl;
  writing-mode: vertical-lr;
  /* Text orientation
  text-orientation: mixed;
  text-orientation: upright;
  text-orientation: sideways;
  /* Direction
  direction: ltr;
  direction: rtl;
  /* Unicode bidi
  unicode-bidi: normal;
  unicode-bidi: embed;
  unicode-bidi: bidi-override;
  unicode-bidi: isolate;
  unicode-bidi: plaintext;
  /* Multi-column layout
  column-count: 3;
  column-width: 200px;
  column-gap: 20px;
  column-rule: 1px solid #ccc;
  column-span: all;
  column-span: none;
  /* Shape outside (for text wrapping)
  shape-outside: circle(50%);
  shape-outside: ellipse(60% 40% at 50% 50%);
  shape-outside: polygon(0% 0%, 100% 0%, 50% 100%);
  shape-outside: inset(10px 20px);
  shape-outside: linear-gradient(45deg, transparent 50%, red 50%);
  shape-outside: none;
  /* Shape margin
  shape-margin: 10px;
  shape-margin: 5%;
  shape-margin: 0;
  /* Shape image threshold
  shape-image-threshold: 0.5;
  shape-image-threshold: 0.8;
  shape-image-threshold: 0.2;
  /* Text decoration
  text-decoration: underline;
  text-decoration: line-through;
  text-decoration: overline;
  text-decoration: none;
  text-decoration: underline dotted;
  text-decoration: underline wavy;
  text-decoration: underline double;
  text-decoration-color: red;
  text-decoration-color: blue;
  text-decoration-color: rgba(255, 0, 0, 0.5);
  text-decoration-thickness: 2px;
  text-decoration-thickness: 10%;
  text-decoration-thickness: auto;
  text-decoration-thickness: from-font;
  text-decoration-style: solid;
  text-decoration-style: dotted;
  text-decoration-style: dashed;
  text-decoration-style: wavy;
  text-decoration-style: double;
  text-decoration-style: none;
  /* Text emphasis (East Asian typography)
  text-emphasis: dot;
  text-emphasis: circle;
  text-emphasis: triangle;
  text-emphasis: sesame;
  text-emphasis: filled;
  text-emphasis: open;
  text-emphasis: dot filled;
  text-emphasis: circle open;
  text-emphasis: triangle filled;
  text-emphasis: sesame open;
  text-emphasis-position: over right;
  text-emphasis-position: under left;
  text-emphasis-position: over left;
  text-emphasis-position: under right;
  /* Text underline position
  text-underline-position: auto;
  text-underline-position: from-font;
  text-underline-position: under;
  text-underline-position: left;
  text-underline-position: right;
  /* Text underline offset
  text-underline-offset: 3px;
  text-underline-offset: 50%;
  text-underline-offset: auto;
  /* Text indent
  text-indent: 2em;
  text-indent: 50px;
  text-indent: 10%;
  text-indent: hanging;
  text-indent: each-line;
  /* Text transform
  text-transform: uppercase;
  text-transform: lowercase;
  text-transform: capitalize;
  text-transform: none;
  text-transform: full-width;
  text-transform: full-size-kana;
  /* Text alignment
  text-align: left;
  text-align: right;
  text-align: center;
  text-align: justify;
  text-align: justify-all;
  text-align: start;
  text-align: end;
  text-align: match-parent;
  text-align: justify-all;
  /* Text wrapping
  text-wrap: balance;
  text-wrap: pretty;
  text-wrap: stable;
  text-wrap: nowrap;
  text-wrap: wrap;
  /* Line-clamp (multi-line ellipsis)
  -webkit-line-clamp: 3;
  display: -webkit-box;
  -webkit-box-orient: vertical;
  /* Hanging punctuation
  hanging-punctuation: first;
  hanging-punctuation: last;
  hanging-punctuation: force-end;
  hanging-punctuation: allow-end;
  hanging-punctuation: none;
  /* Line-break
  line-break: auto;
  line-break: strict;
  line-break: loose;
  line-break: anywhere;
  /* Word-break
  word-break: normal;
  word-break: break-all;
  word-break: keep-all;
  word-break: break-word;
  /* Overflow-wrap
  overflow-wrap: normal;
  overflow-wrap: break-word;
  overflow-wrap: anywhere;
  /* Tab size
  tab-size: 4;
  tab-size: 8;
  tab-size: 2;
  /* Caret color
  caret-color: red;
  caret-color: auto;
  caret-color: transparent;
  /* Accent color (for form controls)
  accent-color: red;
  accent-color: auto;
  accent-color: transparent;
  /* Scrollbar styling (webkit)
  scrollbar-width: thin;
  scrollbar-width: auto;
  scrollbar-width: none;
  scrollbar-color: red transparent;
  scrollbar-color: auto;
  /* Mask
  mask: linear-gradient(black, transparent);
  mask-image: radial-gradient(circle, black 50%, transparent 100%);
  mask-size: cover;
  mask-size: contain;
  mask-size: 100% 50%;
  mask-position: center;
  mask-position: top left;
  mask-repeat: no-repeat;
  mask-repeat: repeat-x;
  mask-repeat: repeat-y;
  mask-repeat: repeat;
  mask-repeat: space;
  mask-repeat: round;
  mask-clip: content-box;
  mask-clip: padding-box;
  mask-clip: border-box;
  mask-clip: text;
  mask-composite: add;
  mask-composite: subtract;
  mask-composite: intersect;
  mask-composite: exclude;
  /* Backdrop filter
  backdrop-filter: blur(10px);
  backdrop-filter: brightness(0.5);
  backdrop-filter: contrast(1.2);
  backdrop-filter: grayscale(100%);
  backdrop-filter: hue-rotate(90deg);
  backdrop-filter: invert(100%);
  backdrop-filter: opacity(50%);
  backdrop-filter: saturate(2);
  backdrop-filter: sepia(100%);
  backdrop-filter: drop-shadow(2px 4px 6px black);
  backdrop-filter: none;
  /* Filter
  filter: blur(5px);
  filter: brightness(0.5);
  filter: contrast(1.2);
  filter: grayscale(100%);
  filter: hue-rotate(90deg);
  filter: invert(100%);
  filter: opacity(50%);
  filter: saturate(2);
  filter: sepia(100%);
  filter: drop-shadow(2px 4px 6px black);
  filter: none;
  /* Clip path
  clip-path: circle(50%);
  clip-path: ellipse(60% 40% at 50% 50%);
  clip-path: polygon(0% 0%, 100% 0%, 50% 100%);
  clip-path: inset(10px 20px);
  clip-path: none;
  /* Shape outside
  shape-outside: circle(50%);
  shape-outside: ellipse(60% 40% at 50% 50%);
  shape-outside: polygon(0% 0%, 100% 0%, 50% 100%);
  shape-outside: inset(10px 20px
```

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