CSS BASICS

**CSS (Cascading Style Sheets) Basics**

**- CSS is a style sheet language that is used for decorating and styling an HTML document.**

**Creating and Connecting CSS to HTML**

**- A CSS file should be saved under the name style.css in a directory named styles.**

**- In the <head> of the HTML file, add a link to the CSS file:**

**<link rel='stylesheet' href='styles/style.css'>**

**Anatomy of a CSS ruleset**

**p {**

**color: red;**

**width: 500px;**

**border: 1px solid black;**

**}**

**- A ruleset contains to three parts:**

**1. Selector: Defines the element to be styled**

**- p, div, img, etc.**

**2. Property: Specifies which properties to style**

**- color, width, border, etc.**

**3. Property Value: Sets the value of a property**

**- red, 500px, solid, black, etc.**

**Types of Selectors**

**<table>**

**<thead>**

**<tr>**

**<th>Selector</th>**

**<th>Example</th>**

**</tr>**

**</thead>**

**<tbody>**

**<tr>**

**<td>Type selector</td>**

**<td><code>h1 {&nbsp; }</code></td>**

**</tr>**

**<tr>**

**<td>Universal selector</td>**

**<td><code>\* {&nbsp; }</code></td>**

**</tr>**

**<tr>**

**<td>Class selector</td>**

**<td><code>.box {&nbsp; }</code></td>**

**</tr>**

**<tr>**

**<td>id selector</td>**

**<td><code>unique { }</code></td>**

**</tr>**

**<tr>**

**<td>Attribute selector</td>**

**<td><code>a[title] {&nbsp; }</code></td>**

**</tr>**

**<tr>**

**<td>Pseudo-class selectors</td>**

**<td><code>p:first-child { }</code></td>**

**</tr>**

**<tr>**

**<td>Pseudo-element selectors</td>**

**<td><code>p::first-line { }</code></td>**

**</tr>**

**<tr>**

**<td>Descendant combinator/td>**

**<td><code>article p</code></td>**

**</tr>**

**<tr>**

**<td>Child combinator</td>**

**<td><code>article &gt; p</code></td>**

**</tr>**

**<tr>**

**<td>Adjacent sibling combinator</td>**

**<td><code>h1 + p</code></td>**

**</tr>**

**<tr>**

**<td>General sibling combinator</td>**

**<td><code>h1 ~ p</code></td>**

**</tr>**

**</tbody>**

**</table>**

**<a href='https://developer.mozilla.org/en-US/docs/Learn/CSS/Building\_blocks/Selectorsreference\_table\_of\_selectors'>MDN Selectors</a>**

**Specificity**

**- When an element has multiple, conflicting declaration targeting it, specificity determines which values to use.**

**- From most to least specific:**

**1. ID Selector**

**2. Class Selector**

**3. Type Selector**

**- If two items have the same amount of specificity, whichever comes second will appear.**

**Fonts**

**Font Properties**

**| Property | Options | Description | Example |**

**|--------------|-------------------------------|--------------------------------------|----------------------------------------|**

**| font-family | Times, sans-serif, etc. | change the font family | font-family: Times, serif; |**

**| font-style | normal, oblique, italics | change text | font-style: normal; |**

**| font-variant | normal, small-caps | display font in normal or small caps | font-variant: small-caps; |**

**| font-weight | 1-1000; normal, bold | specify the weight of the font | font-weight: bold; |**

**| font-size | large; larger; px; em; rem; % | modify the size of font | font-size: 12px; |**

**Add Custom Font From Google**

**- Go to <a href='https://fonts.google.com/'>Google Fonts</a> and select the fonts.**

**- Copy the <link> of the selected families and paste them into the <head>.**

**<link rel="preconnect" href="https://fonts.googleapis.com">**

**<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>**

**<link href="https://fonts.googleapis.com/css2?family=Roboto:wght@100&display=swap" rel="stylesheet">**

**Color and Background Properties**

**| Property | Options | Description | Example |**

**|---------------------|----------------------------------|-----------------------------------------------|-------------------------------------------|**

**| color | rgb, hex, names, rgba, etc. | change the color of text | color: 000080; |**

**| background-color | ibid. | changes the background color of an element | background-color: white; |**

**| background-image | absolute or relative link | changes the background image of an element | background-image: url(/images/foo.gif); |**

**| background-repeat | repeat-x; repeat-y; no-repeat | determines how a background image is repeated | background-repeat: repeat-x' |**

**| background-position | top; bottom; left; right; center | initial position of the background image | background-position: center; |**

**Text Properties**

**| Property | Options | Description | Example |**

**|-----------------|------------------------------------------------|--------------------------------------------------------|------------------------------|**

**| word-spacing | em, rem, px, etc. | changes the spacing between words | word-spacing: 0.4em; |**

**| letter-spacing | ibid. | sets the amount of space between characters | letter-spacing: 0.1em; |**

**| text-decoration | underline, overline, line-through, blink, none | decorates the text | text-decoration: none; |**

**| vertical-align | baseline, middle, top, bottom, etc. | vertically aligns inline elements relative to a parent | vertical-align: middle; |**

**| text-transform | capitalize, uppercase, lowercase; none | changes capitalization of text | text-transform: uppercase; |**

**| text-align | left, center, right, justify | aligns text horiztonally | text-align: center; |**