

# Intro to CSS



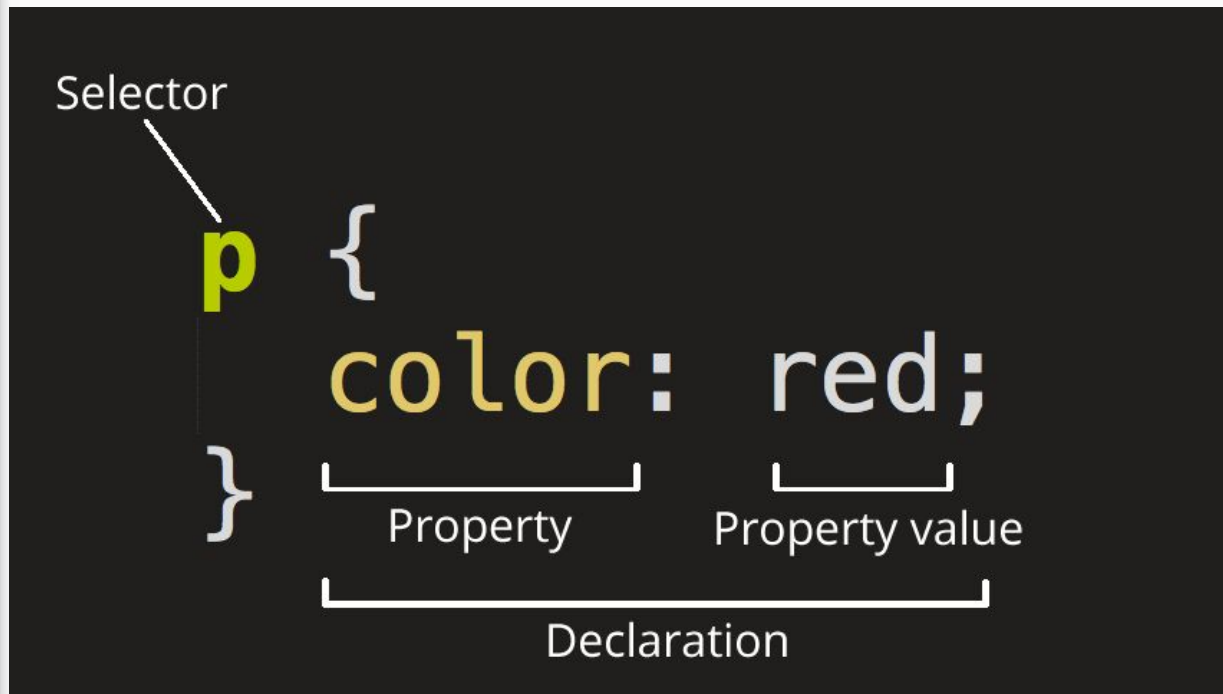
# What is CSS?

- Cascading Style Sheets specify how a web page looks. Allow you to apply styles selectively to elements in HTML.
- CSS let's you adjust layout and formatting such as line spacing, justification, borders, colors, and whitespace.
- Used to define rules on the specific styles that should be applied to the page.

# CSS Syntax

CSS rules consist of an HTML element – the selector – followed by a style property and value to make up the CSS rule *declaration*

Let's say we wanted to make all <p> elements the color red...



# CSS Ruleset

Important parts of the CSS ruleset:

- After the HTML selector the ruleset is wrapped in curly braces { }
- In the declaration, the property and the property value must be separated by a colon :
- Every declaration must be terminated with a semicolon ; before starting the next declaration ;

```
p {  
  
    color: red;  
  
    background-color: blue;  
  
    width: 500px;  
  
}
```

# How to apply CSS to an HTML file

CSS rules can be defined in the `<head>` element of an HTML page, in the `style` attribute of an HTML element, or in a `.css` document pulled in by the HTML file.

# The <head>

CSS rules can be placed in the <head> element of an HTML file, wrapped in a <style> element. This method is called an *internal stylesheet*

```
<!-- Pretend there is more going on up here -->
```

```
<head>
```

```
  <style>
```

```
    p {
```

```
      color: red;
```

```
      background-color: blue;
```

```
      width: 500px;
```

```
    }
```

```
  </style>
```

```
</head>
```

```
<!-- Pretend there is more going on down here -->
```

# Inline style

CSS rules can also be added to an HTML element *inline* via the element's `style` attribute

```
<p style="color: red; background-color: blue; width: 500px;">Hello, World!</p>
```

When inlining styles, you do not need to wrap the ruleset in curly braces, but colons and semicolons are still in effect.

## In a separate .css file

You can create a separate .css stylesheet that gets referenced in your HTML file via the [`<link>`](#) element. This lets the browser know where to find the CSS file.

```
<!-- in index.html -->

<head>

  <meta charset="utf-8">

  <title>Test CSS</title>

  <link rel="stylesheet" href="style.css">

</head>
```

```
/* in a file named style.css */

p {

  color: red;

  background-color: blue;

  width: 500px;

}
```



# CSS Selectors

There are many ways to specify a [CSS selector](#):

- Element/type selectors
- [class or id of the element](#)
- Attribute \*
- Pseudo classes and pseudo elements \*
- Combinators \* and multiple selections

\* will cover next lecture

# Type Selectors

Type selectors match the selector name with the given HTML element name. Type selectors match all HTML elements of the selector name.

```
/* matches all paragraph elements */
```

```
p {
```

```
    color: red;
```

```
    font-family: Arial;
```

```
}
```

```
/* matches all h2 elements */
```

```
h2 {
```

```
    color: blue;
```

```
    font-family: Georgia;
```

```
}
```

# Selecting multiple elements

To select multiple elements for the same ruleset, separate the different elements with a comma ,

```
h1, h2, h3 {  
  
    color: red;  
  
    background-color: blue;  
  
    width: 500px;  
}
```

```
p,  
  
li {  
  
    color: red;  
  
    background-color: blue;  
  
    width: 500px;  
}
```

# Class selectors

Class selectors match HTML elements via their class attribute.

- class value is decided by the developer.
- class selectors begin with a period (.)
- An HTML element can have several class attribute values.
- Classes can be used more than once in the HTML file.

```
/* style.css file */
```

```
.red { color: red; }
```

```
.short-desc { width: 300px }
```

```
<!-- index.html file -->
```

```
<h1 class="red">Greetings</h1>
```

```
<p class="red">Hello, World</p>
```

```
<p class="red text-desc">This one has two classes!</p>
```

# ID selectors

ID selectors match HTML elements via their id attribute.

- id value is decided by the developer.
- id selectors begin with a hash symbol (#)
- An HTML element can have several ID attribute values.
- An id can only be used once in an HTML document - they are unique identifier

```
/* style.css file */
```

```
.red { color: red; }
```

```
.short-desc { width: 300px; }
```

```
#greet-title { text-decoration: underline; }
```

```
<!-- index.html file -->
```

```
<h1 id="greet-title" class="red">Greetings</h1>
```

```
<p class="red">Hello, World</p>
```

```
<p class="red text-desc">This one has two classes!</p>
```

# Common CSS properties

There are hundreds of CSS properties available for you to use -- but we won't be going over all of them. Getting comfortable in writing CSS involves discovery of the different properties and how they behave. Here is a short list of useful properties.

font-family

font-size

width

height

color

background-color

border

text-align

text-decoration

padding

margin

# CSS Validation

Just like with HTML validation, we can have a service check to make sure our CSS code is valid and error free using the [W3C CSS Validation Service](#)

# Helpful Resources

[MDN Introduction to CSS](#)

*A Guide to HTML5 and CSS3: Part 4 - The Basics of CSS*

*Learning PHP, MySQL and Javascript: Chapter 18*