02: HTML Next Steps

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Session outline

- Introduction to HTML attributes
- Accessibility on web images
- Introduction to CSS
- CSS order of precedence

Session 2: HTML Next Steps

Recap

- HTML Structure
- Hierarchy of elements
- Importance HTML, Head, Body
- Semantic HTML

HTML Attributes

- Attributes are additional piece of information we pass to a HTML element to have more control over the element

- Attributes are always specified in **the start tag**

- Attributes usually come in name/value pairs like: **name="value"**

Example

`<img src="cat.jpg"></img>`

Example

`<img src="cat.jpg" width="200" height="200" />`

IDs and Classes

- IDs provide a unique way to identify a particular element
- Classes offer a reusable way to style our elements (more later)

- IDs must be unique, classes need not

Example

<p id="intro">some text</p>

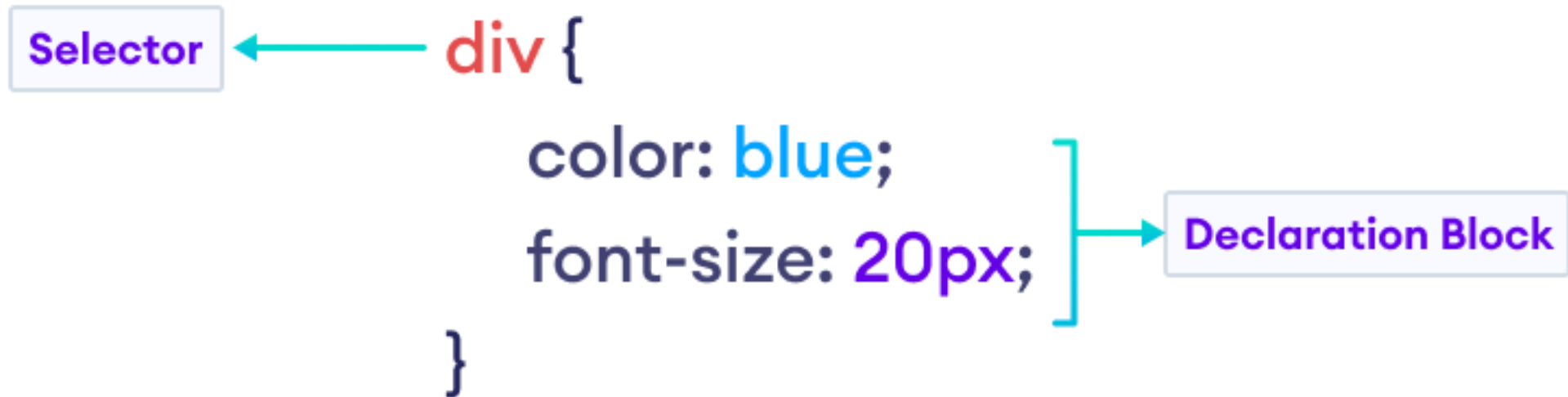# *Example*

`<p class="about">`some about text`</p>`

CSS

- CSS (cascading style sheets) is a support language for HTML to style web pages
- CSS relies on existing HTML elements to work

Example

```css
p {
        color: blue
}
```

All CSS styles should have a selector, a property, and value

Understanding the syntax

Selector ⟵———— div {

      color: blue;

      font-size: 20px; ——⟶ Declaration Block

}

CSS Specificity

1,000	100	10	1
inline style	ID	class	element
		attribute	pseudo-element
		pseudo-class	

CSS Specificity

- Inline:

  ```
  <p style="background-color: red">...</p>
  ```

- ID

  ```
  <p id="intro">...</p>
  #intro {
          background-color: blue
  }
  ```

- Class

  ```
  <p class="paragraph">...</p>
  .paragraph {
          background-color: yellow
  }
  ```

- Tag

  ```
  <p>...</p>
  p {
          background-color: pink;
  }
  ```

Selectors

- **#** for IDs
- **.** for classes

		selector
ID	intro	#intro
Class	intro	.intro

Linking CSS Documentwith HTML

Using <link> tag, a .css file can be linked to your .html page

Example:
 <link rel="stylesheet" href="styles.css">

* rel indicates relationship
* href refers to the file path

Walk-through

Exercise

Complete CSS Selectors and CSS How To exercises on
https://www.w3schools.com/css/exercise.asp

Exercise 2

- Using VSCode
  - Create a new index.html document under week-2 folder
  - Create a style.css file and link it to the HTML file using <link…> tag

- The web page should include at least:
  - A heading, a subheading, a paragraph, and an image
  - Style all the elements using CSS classes

- Further 1: Add a background colour to your web page

- Further 2: Can you add a background-image to the page?