
Tutorial 10

Outline

1. Review: HTML Basics

- a. Elements
 - i. Image element
- b. Syntax

2. Review: CSS Basics

- a. Selectors and Properties
 - i. Class selectors
- b. Syntax

3. Individual activities

- a. Create a webpage for an art gallery

Review: HTML elements

HTML (Hypertext Markup Language) uses **elements** (or **tags**) to describe the structure (i.e. the sections) of a webpage.

Some elements or tags include:

Default elements	Custom elements
<code><html> </html></code> <code><body> </body></code>	<code><h1> </h1></code> <code><p> </p></code> <code><a> </code> <code></code> <code></code> <code>
</code> <code> <i>new!</i></code>

HTML image element

Ex 1.

```

```

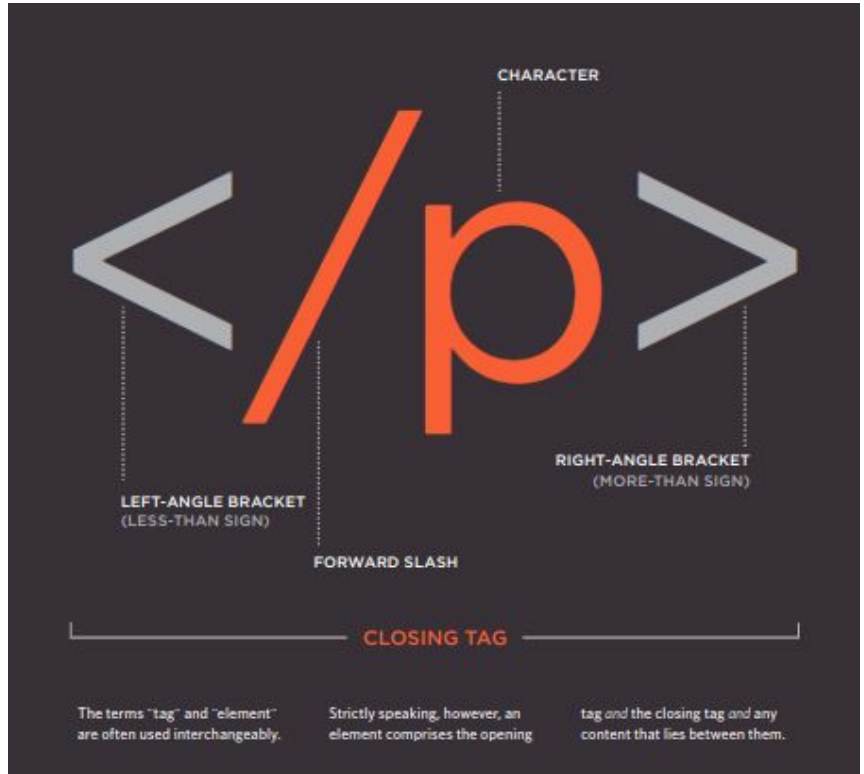
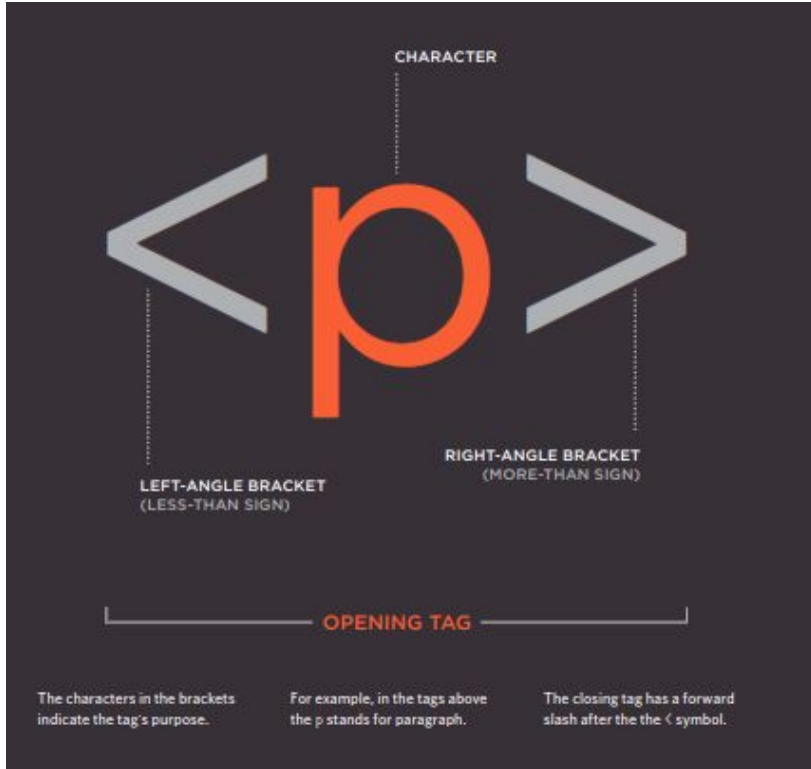
Ex 2.

```

```

Additional resource: https://www.w3schools.com/tags/tag_img.asp

Review: **HTML** syntax



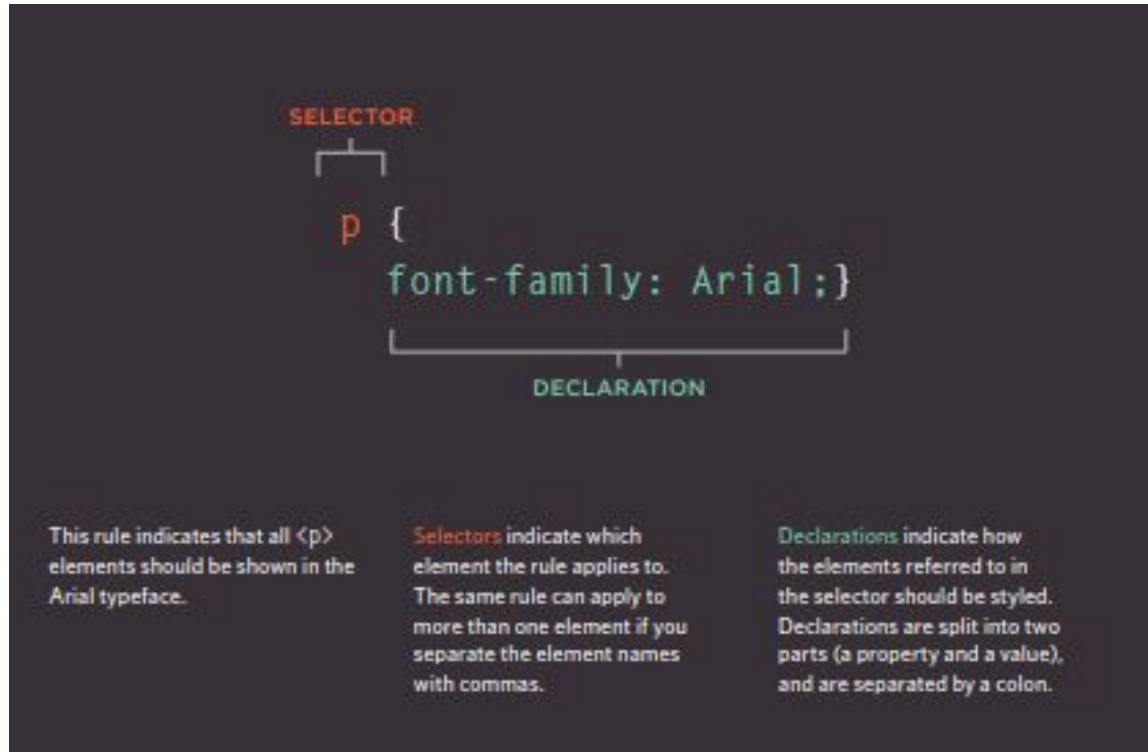
Resource: Duckett, J. (2011). *HTML & CSS: design and build websites*, p. 23-24. Wiley.

Review: **CSS** selectors and properties

- CSS is used to modify the presentation (or style) and the layout of a webpage through **selectors** and **properties**.

Element type selectors	Properties
body {} h1 {} p {} ul {}	background-color color font-family font-size text-align border <i>new!</i>

Review: CSS syntax



Resource: Duckett, J. (2011). *HTML & CSS: design and build websites*, p. 23-24. Wiley.

CSS class selectors

- There exist another type of selectors called **class selectors**. These change the style of the HTML elements that match their **class** name rather than their **type** name.
- Class selectors are useful when:
 - 1) We want to independently style two or more HTML elements that share the same tag. Ex. `<p></p>`.
 - 2) We want more meaningful reference names in our HTML and CSS code.

Ex:

HTML	CSS
<code><p class= "about"> some text </p></code>	<code>.about {font-color: blue;}</code>

Activity: Create a website for an art gallery

General Instructions:

- 1) Imagine you are creating a simple webpage for an art gallery.
- 2) Follow the steps in the following slides to add a heading, a menu, an about page, a footer, and images to the webpage. You will also need to modify the style of the webpage.
- 3) Submit your final webpage to A2L.

***note:** *This activity has 4 parts (go to the next slides to see detailed instructions).*

Part 1: Open an html file in TextEdit and on the web browser.

- Objectives:
 - Configure TextEdit for html code
 - Familiarize with opening html files in the browser

1. **Start** by setting up TextEdit preferences. Do the following:
 - + In the TextEdit app on your Mac, choose TextEdit > Preferences.
 - + Select "Plain text"
 - + Now, click "Open and Save", and select "Display HTML files as HTML code instead of formatted text."
2. **Download** the "GalleryWebsite-activity" folder from A2L -> tutorial 10.
3. **Open** the "index.html" file in TextEdit (at this point TextEdit should only display the code, if it isn't, go back to step #1).
4. **Open** the "index.html" file in the Chrome browser (if you see a bunch of empty boxes continue to the part 2).
 - + In Chrome, click "Open File" from File menu, or use the \mathcal{H} + O keyboard shortcut.

Part 2: Create a heading, a menu, and an about section using HTML elements.

- Objective:
 - Familiarize with basic HTML elements (h1..h6, p, ul, li, a).

1. **Imagine** you are creating a webpage for an Art Gallery.
2. **Replace** the comments inside the "index.html" file using TextEdit. Replace with the following:
 - + `<h1>` A **heading** related to the art gallery you're making the website for`</h1>`
 - + `` A menu displaying a **list** of the gallery's subpages ``. E.g. "Home", "Art Work", "Contact".
 - + Remember how to create lists here:
https://www.w3schools.com/html/html_lists.asp
 - + `<p>` A **paragraph** describing what's the gallery about`</p>`
3. **Save** the changes done to the "index.html" file in TextEdit.
4. **Open** the index.html file in the Chrome browser to see your changes.

Part 3: Add images.

- Objective:
 - Familiarize with HTML image element.

1. Find 3 images related to your topic.
 - + Download and Save them inside of "webpage-project2" > "images"
2. Insert the images in the index.html file (Insert them below the comment "insert your images here" in index.html).
 - + Explore how to insert HTML images here:
https://www.w3schools.com/tags/tag_img.asp
3. Add a footer with information such as your name, date, and location. (Create the footer below the comment "insert your footer here" in index.html).
 - + Use `<p> </p>`
4. Save your changes and visualize them on the browser.

Part 4: CSS fonts, colors, and borders

- Objective:
 - Familiarize with CSS fonts, colors, and borders

1. **Open** the "theme.css" in TextEdit (This file is inside the "webpage-project#2" folder).
2. **Modify** the **fonts** and the **colors** inside "theme.css".
 - + **Remember** how to modify CSS **colors** here:
<https://www.w3schools.com/colors/default.asp>
 - + **Remember** how to modify CSS **fonts** here:
https://www.w3schools.com/cssref/css_websafe_fonts.asp
3. **Modify** the **borders** inside "theme.css".
 - + **Explore** how to modify CSS **borders** here:
https://www.w3schools.com/css/css_border.asp
4. **Save** the changes done to the "index.html" file and visualize them on the browser.
5. **Submit** a compressed folder with your "index.html" file, "theme.css" file, and your "images" folder to A2L.

Additional resources

Learn HTML: <https://www.w3schools.com/html>, <https://www.w3schools.com/tags/>

Learn CSS: <https://www.w3schools.com/css>

Editors: [textEdit](#), NotePad, Gedit, [Atom](#), [Adobe Dreamweaver](#).