3.1 HTML Tags and Attributes

gummy furniture - answered by Angelica Libang

Modifying HTML attributes

- All HTML elements can have **attributes**
    - Attributes provide additional information about elements
    - Attributes are always specified with a **start tag**.
    - Attributes usually come in name/value pairs like: `name="value"`

Adding images

- Images make your content look attractive, keeping visitors interested.
- Well-optimized images help your website show up higher in search results, attracting more visitors.

Tag	Description	Attributes	Sample code	Code explanation
`<img>`	• The HTML `<img>` tag is used to embed an image in a web page. • Images are not technically inserted into a web page; images are linked to web pages. The `<img>` tag creates a holding space for the referenced image. • The `<img>` tag is empty, it contains attributes only, and does not have a closing tag.	• `src` - Specifies the path to the image • `alt` - Specifies an alternate text for the image	`<img src="img_chania.jpg" alt="Flowers in Chania">`	• This code inserts an image with the source file "img_chania.jpg" and an alternative text "Flowers in Chania" for accessibility and display in case the image cannot be loaded.

Managing image files

- Use images that are larger in dimension than what you need for your web page.
- Make sure that the images you use fit the aesthetic/theme of your website.
- Always rename your saved images.
  - Keep your file names short.
  - Use either lowercase or **camelCase** ⤷ **(https://en.wikipedia.org/wiki/Camel_case)** .
  - Avoid using spaces and/or symbols (other than underscore).
- Save your images (and other files) in a designated folder for them.

- For more guidelines on selecting images, **go here (https://kodego.instructure.com/courses/379/pages/ref-number-1-selecting-images)**.

Parent and child elements

- In HTML, elements can contain other elements, forming a parent-child relationship.
- A **parent element** is an HTML element that contains other elements inside it. It acts as a container for its child elements.
- A **child element** is an HTML element that is contained within another element, which acts as its parent.
- As an example, take note of the code below:

```
<div>
    <p>This is a child paragraph inside a parent div.</p>
    <img src="example.jpg" alt="An image">
</div>
```
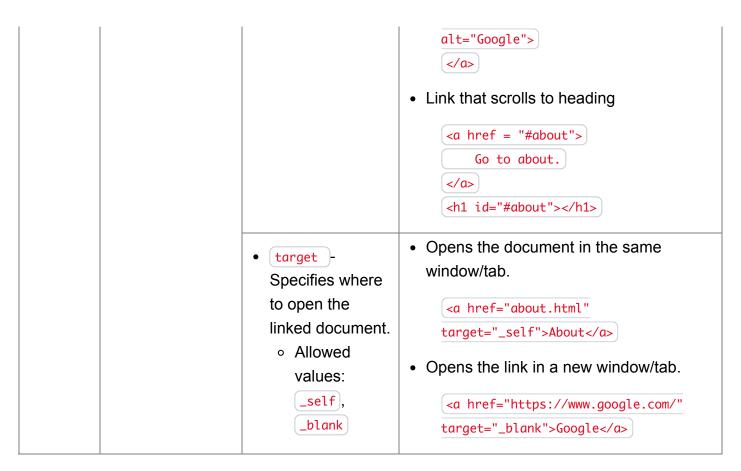
  - The `<div>` element is the parent element. It contains two child elements: the `<p>` element and the `<img>` element.

Adding links

Click on me!

- Links are found in nearly all web pages.
- Links allow users to click their way from page to page.
- These are known as **hyperlinks**.

Tag	Description	Attributes	Sample code

`<a>`	Defines a hyperlink.	- `href` - Indicates the link's destination when clicked.	- Adding a link to text
			
			```Google Website```
			
			- Adding a link to an image
			
			```<a href="https://www.google.com"> <img src="logo.png"```

```
        alt="Google">
    </a>
```

- Link that scrolls to heading

```
<a href = "#about">
    Go to about.
</a>
<h1 id="#about"></h1>
```

	• `target` - Specifies where to open the linked document.
	  ○ Allowed values: `_self`, `_blank`
		• Opens the document in the same window/tab.
		
		`<a href="about.html" target="_self">About</a>`
		
		• Opens the link in a new window/tab.
		
		`<a href="https://www.google.com/" target="_blank">Google</a>`

Other tags

Tag	Description	Sample code
`<span>`	• Contains short pieces of text or other HTML. • They are used to separate small pieces of content that are on the same line as other content.	`<p>My name is <span>Daiben</span></p>`

`<iframe>`	• Used to display a web page within a web page.	• Embed a webpage
		
		`<iframe src="https://en.wikipedia.org/wiki/The_Bends"> </iframe>`
		
		• Embedding a YouTube video
		  1. Go to the YouTube video you want to embed.
		  2. Click on **Share**.
		  3. Select **Embed**.
		  4. Copy and paste the generate `iframe` code to your .html file.
		• Embedding a Facebook video

| | | 1. Open the Facebook video you want to embed (it must be Public).
2. Click on **Share**.
3. Select **Embed Video**.
4. Copy and paste the generate `iframe` code to your .html file.
Embedding a Google Map in a web page
1. Open Google Maps.
2. Select the location you want to embed as a map.
3. Click on **Share** at the left side.
4. Select **Embed a map**.
5. Copy and paste the generate `iframe` code to your .html file. |

Additional Material

- **Learn more**
  - W3Schools
- **Recommended watch**

Is HTML a Programming Language?!?