# W1D4

### Intro to HTML

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## Lecture Objectives

\* Prepare for Shakshuka Project

\* Context of HTML in modern websites

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## Lecture Outline

\* Brief intro to HTML basics

\* Common HTML elements

\* HTML forms

\* HTML form demo

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Ruby vs. HTML

\* Is it coding?

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## HTML

\* \*\*HTML\*\* stands for \_Hypertext Markup Language\_

\* Contains the actual content of the web page, and describes the \*\*structure\*\* of the document (through \_tags\_)

\* An \*\*HTML Element\*\* is an opening & closing tag and all the contents in between. For example:

```html

<div>I am an HTML Element!</div>

```

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## `<head>` and `<body>`

\* head has high-level, background information

\* body has the content of the webpage

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```html

<!-- Normal Element -->

<button id="cool-button" type="submit" disabled>Can't click</button>

<!-- Void Element -->

<img class="cat-image" src="./cat.jpeg" alt="cat">

```

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## HTML Attributes

\* All HTML Elements can have \*\*attributes\*\* (these vary depending on the tag) that specify additional information about the element

\* The 3 attributes that \_any\_ HTML element can have are as follows:

\* \*\*id\*\* - a unique identifier for an HTML element

\* \*\*class\*\* - a shared identifier for an HTML element (multiple elements may belong to the same class)

\* \*\*title\*\* - the text you would like to display when a user hovers over the element

\* ids & classes are commonly used to select specific HTML elements with CSS or JavaScript

```html

<div class="user-info" id="username" title="user's username" >

aAstudent

</div>

```

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## Semantic elements

\* `<article>`

\* `<aside>`

\* `<figcaption>`

\* `<figure>`

\* `<footer>`

\* `<header>`

\* `<main>`

\* `<section>`

\* `<form>`

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## Non-semantic elements

### `<div>`

```html

<div>

<!-- CONTENT -->

</div>

```

### `<span>`

```html

<span><!-- CONTENT --></span>

```

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## Common HTML Elements

\* \*\*`h1` - `h6` tags:\*\* - Used to create headers, `h1` is biggest, `h6` is smallest

\* \*\*`a` tag:\*\* Used to create hyperlinks. URL to link to is specified by the `href` attribute

\* \*\*`img` tag:\*\* Used to create images. URL of image is specified by the `src` attribute

\* \*\*`ul` & `ol` tags:\*\* Used to create lists. `ul` is unordered, `ol` is ordered. Comprised of multiple `li` (list item) elements.

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## HTML Forms

\* Means by which we can collect user-inputted data

\* Opening `form` tag takes two attributes that specify where to send the form data when submitted (via HTTP request)

\* `action` - specifies URL of HTTP request

\* `method` - specifies HTTP Verb of request (almost always `POST`)

\* Comprised of text inputs, dropdowns, radio buttons, checkboxes, and other special input fields

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## HTML Form Demo

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## Let's do it!

:heart:1

[10:38](https://app-academy.slack.com/archives/C03EGEH0YSG/p1655401135747069)

demo from today

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>taylor swift</title>

</head>

<body>

<h1>Super big</h1>

<h2>bigger</h2>

<h3>big</h3>

<h4>bigish</h4>

<h5>small</h5>

<h6>smaller</h6>

<div id="header-div">Hi Im a div!</div>

<div class="other-div-class">another div</div>

<div class="other-div-class">another div</div>

<div class="other-div-class" title="hello">another div</div>

<a href="<https://www.google.com/search?q=taylor+swift&source=lnms&tbm=isch&sa=X&ved=2ahUKEwjt8PqMtrL4AhVmKUQIHceFDTMQ_AUoA3oECAIQBQ>">click here!</a>

<a href="<https://www.taylorswift.com/>">

<img src="[http://someurl.com](http://someurl.com/)" alt="taylor swift">

</a>

<ul>

<li><a href="">option 1</a></li>

<li>option 2</li>

<li>option 3</li>

</ul>

<form action="[https://someserver.com](https://someserver.com/)" method="POST">

<h2>Enter your info!!</h2>

<label for=""> Enter Email:

<input type="text" id="username" value="" >

</label>

<input type="radio" name="1" id="">

<input type="radio" name="1" id="">

<input type="radio" name="1" id="">

<input type="date" name="" id="">

<input type="checkbox" name="" id="">

<input type="password" name="" id="" placeholder="enter password">

<select name="foods" id="foods">

<option value="pizza">pizza</option>

<option value="burger">burger</option>

<option value="pickles">pickles</option>

</select>

<input type="submit" value="submit!">

<button>enter!</button>

</form>

</body>

</html>