FALL 2021 / ONLINE

INTERACTIVE DEVELOPMENT

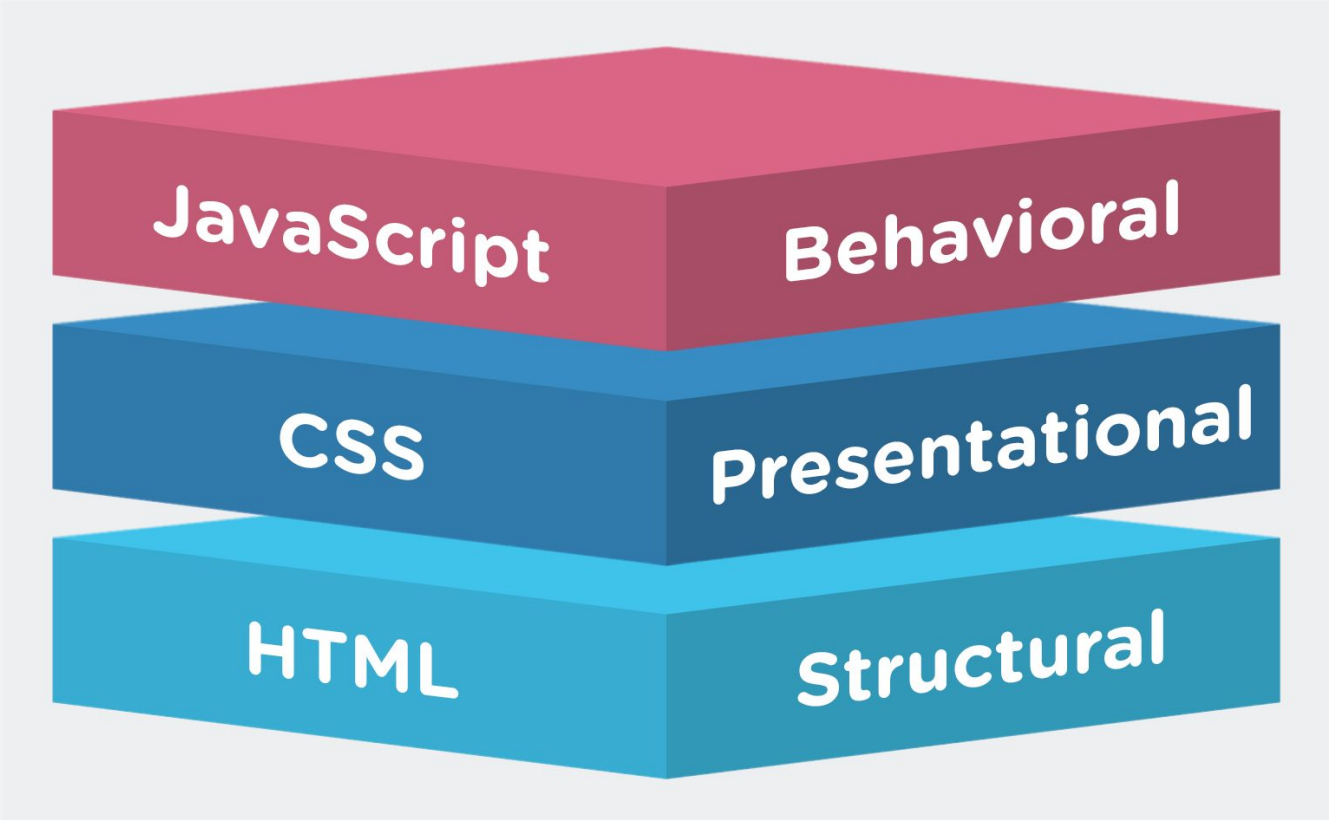
Friday, September 3

WARM-UP QUESTION:

WHAT BAND/ ARTIST DID YOU LAST LISTEN TO?

FIRST WEEK CHECK-IN

WHAT IS HTML?



1 https://www.1training.org/blog/html-css-javascript-web-development

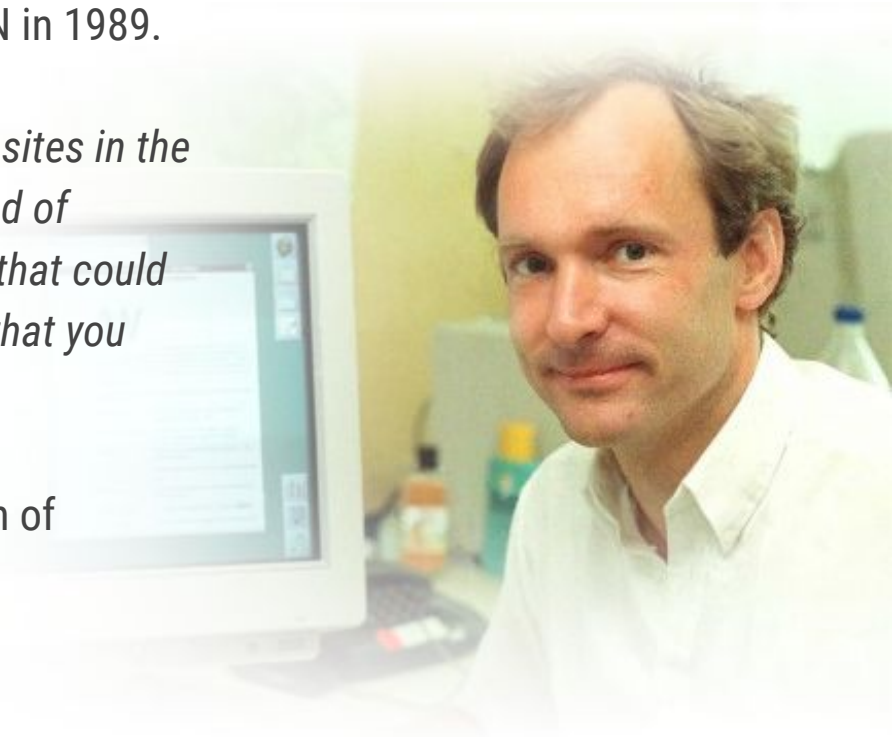
HOW DOES IT FIT INTO THIS CLASS?

A VERY QUICK HISTORY OF HTML

Tim Berners-Lee created HTML while working at CERN in 1989.

*“Tim had the idea of enabling researchers from remote sites in the world to organize and pool together information. Instead of making a large number of research documents as files that could be downloaded to individual computers, he suggested that you could actually **link** the text in the files themselves.”*

By linking together different documents, this collection of knowledge is represented as a “**web**”.



1 https://www.w3.org/People/Raggett/book4/ch02.html

DISCLAIMER

MAKE MDN

YOUR GO-TO RESOURCE

DEVELOPER.MOZILLA.ORG

ELEMENTS AND THE “TAG”

An element is part of a web page.

It’s defined in HTML by its “tag”

Every tag start and ends with a <>

Some tags require a closing tag:

```
<body></body>
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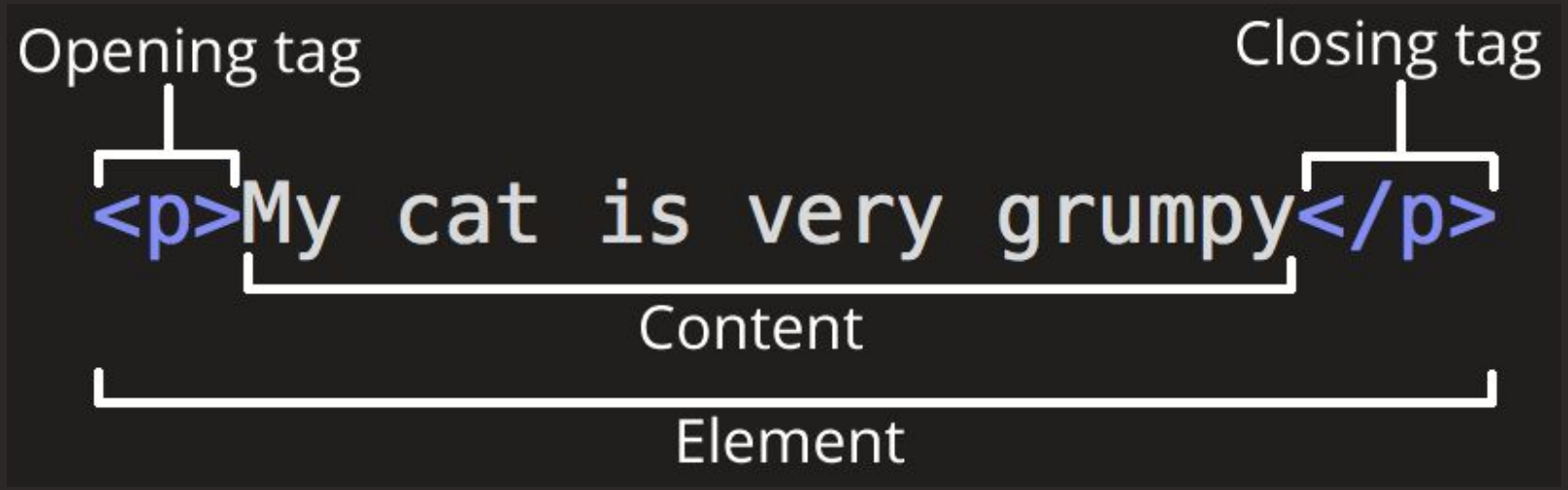
Example Element Tags:

```
<head>
<title>
<body>
<header>
<footer>
<article>
<section>
<p>
```

```
<div>
<span>
<img>
<aside>
<nav>
<ul>
<ol>
<li>
```

THE TAG.

TAG ANATOMY



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HTML DOCUMENT ANATOMY

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<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
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TAGS FOR TEXT

HEADINGS PARAGRAPHS LISTS LINKS

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Heading elements allow you to specify that certain parts of your content are headings — or subheadings. They range from 1-6.

```
<h1>My main title</h1>
<h2>My top level heading</h2>
<h3>My subheading</h3>
<h4>My sub-subheading</h4>
```

TAGS FOR TEXT

HEADINGS **PARAGRAPHS** LISTS LINKS

Paragraph elements are for containing paragraphs of text; you'll use these frequently when marking up regular text content.

```
<p>Lorem ipsum dolor.</p>

<p>Lorem ipsum dolor sit amet, consectetur
adipisicing elit, sed do eiusmod tempor incididunt
ut labore et dolore magna aliqua.</p>
```

TAGS FOR TEXT

HEADINGS PARAGRAPHS **LISTS** LINKS

Lists help organize content. It requires two separate tags, nested. There are two main types:

- **Unordered lists** are for lists where the order of the items doesn't matter
- **Ordered lists** are for lists where the order of the items does matter, such as a recipe

```
<ul>
    <li>Apples</li>
    <li>Oranges</li>
    <li>Bananas</li>
</ul>
```

```
<ol>
    <li>Step One</li>
    <li>Step Two</li>
    <li>????</li>
    <li>PROFIT!!!</li>
</ol>
```

TAGS FOR TEXT

HEADINGS PARAGRAPHS LISTS **LINKS**

Anchor links are what make the web work! Note that you'll need to define the href attribute to link to.

```
<a href="https://uafs.edu">UAFS website</a>
```

HTML COMMENTS

You can write comments in the code. Browsers will ignore it, so it's *invisible to the user (viewing the page normally).

```
<!-- Put your comment here →

<!--
    <h1>This title is invisible</h1>
    <p>This paragraph too!</p>
-->
```

“SEMANTIC” HTML

HTML should be coded to represent the data that will be populated and not based on its default presentation styling.

Presentation (how it should look), is the sole responsibility of CSS.

Example purpose-driven tags:

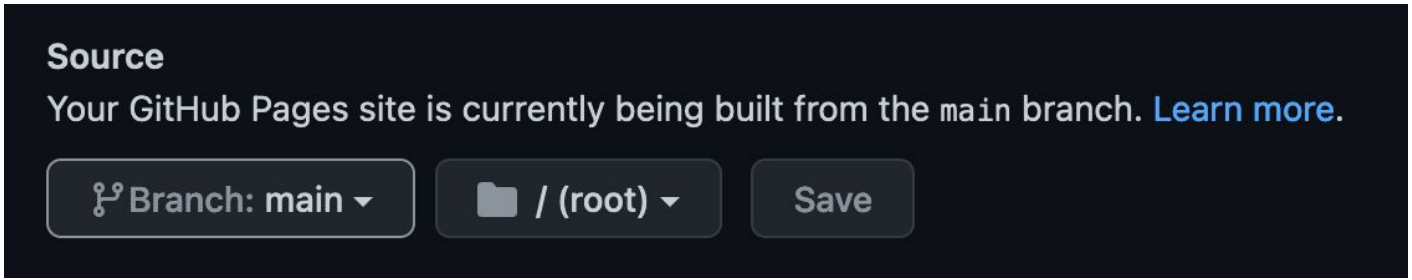
```
<article>
<aside>
<figure>
<footer>
<header>
<main>
<nav>
<section>
<summary>
<time>
```

GITHUB PAGES

GitHub can host and serve **static** pages for free.
For the next assignment, I want you to submit a GitHub pages URL.

Directions:

- Go to https://github.com/*username*/*repo-name*/settings/pages
- Set the Source to `main` and click save.



GITHUB PAGES DEMO

GITHUB FORK/TEMPLATING

“Fork” - A fork is a copy of a repository.[1]
Forking a repository allows you to freely experiment with changes without affecting the original project.

“Template Repository” - You can generate a new repository with the same directory structure and files as an existing repository.[2]

1 https://docs.github.com/en/get-started/quickstart/fork-a-repo

2https://docs.github.com/en/github/creating-cloning-and-archiving-repositories/creating-a-repository-on-github/creating-a-repository-from-a-template

GITHUB WEB EDITOR TIPS

- You can drag files into the file explorer to upload (like images)
- When you open a new tag, it’ll automatically create a closing tag.

ASSIGNMENT 02: BAREBONES HTML SITE

- *Fork* the template repo: https://github.com/maxxcrawford/barebones-html-example/
- Add a one-page poem to page with the following constraints:
  - The poem title in a Heading tag
  - A link to the poet's biography page
  - An image that relates to the poem
  - No CSS allowed. This assignment is about MARKUP. Not looks.
- Use GitHub Pages to host your project
- Due Friday, September 10, Beginning of class

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