

# What is HTML

A Quick Review



# What is HTML?

## HyperText Markup Language

### History

**1991:** August 6, 1991 share scientific papers (Tim Berners-Lee)

**1994:** World Wide Web (W3) Consortium formed (web standardization)

**1997:** HTML 4

**2000:** XHTML

**2014:** HTML 5

**?:** What's next for HTML 6

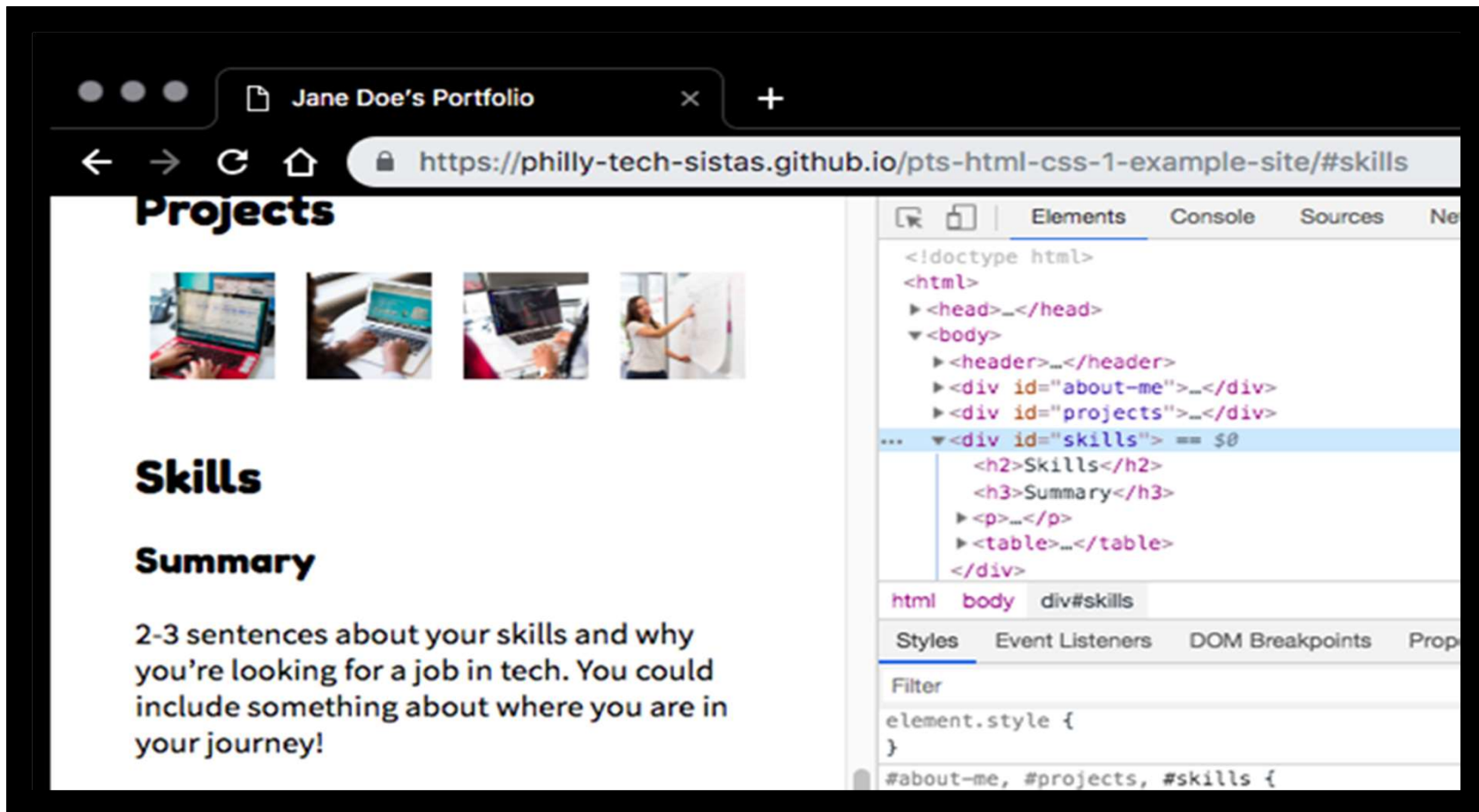
# Web Page Structure

```
<!DOCTYPE html>
<html>
<head>
  <meta name="description" content="about web development" />
  <meta name="keywords" content="html, coding, intro" />
  <link href="style.css" />
  <title>Title of the page</title>
</head>
<body> The page content here. </body>
</html>
```

---

# Inspect Element

As you can see, all websites have the same structure ...



# Basic Tags

## Standard Format

Open Tag: <TAG>

Closing Tag: </TAG>

Headers (**h1-h6**):

```
<h1>My Header</h1>
```

Paragraphs:

```
<p>My Para</p>
```

Span:

```
<span color=red>Use me to format text</span>
```

Lists (**ul, ol**):

```
<ul>
```

```
<li>Pasta</li>
```

```
<li>Macaroni</li>
```

```
</ul>
```

Div:

```
<div><p>I hold</p><p>a lot of other tags</p></div>
```

Image:

```
<img src=https://amazon.com/bridgerton.jpg />
```

Links:

```
<a href=http://amazon.com>Amazon Link</a>
```

---

# Link Types

- **Main link declaration types:**

`<a href="http://mywebsite.com/page.html">Link to an external page.</a>` (absolute)

`<a href="page.html">Link to an external page.</a>` (relative)

- **Anchor links:** Links within the page

`<a href="#projects">Link to a section on the page.</a>`

## Link Attributes

`<a href="website.html" target="_blank">Opens in another tab.</a>`

`<a href="mailto:email@youreemail.com">E-mail us!</a>`

`<a name="header1">Header</a>`

`<a href="#header1">Go to Header</a>`



# Group Exercise: Introduce Yourself

First, we'll demo. Then, you'll sign up and create your HTML in groups.

1. Go to online IDE either <https://app.bsd.education/> or <https://jsfiddle.net/>

- Create an account for yourself
- Create a new sandbox / project

2. Click in the HTML

- Create a professional portfolio webpage
- Your name in H1 Tags
- About yourself in P tags
- Add Image & link
- Save the page



```
<body>
<h1>Jane White</h1>
<img src=https://m.media-amazon.com/images/I/81OEjjAyVXL._AC_UL480_FMwebp_QL65_.jpg />
<p>I am a programmer of over 15 years. For more about me, go to <a
href=http://phillytechsistas.com>PhillyTechSistas</a>
</body>
```

# Attributes

Attributes give more information about your element.

```

```

Required Attributes:

- src (on IMG tag)
- href (on A tag)

Optional (but heavily suggested)

- *Unique Identifier* - id="unique-id-1"
  - *Name* - name="username"
  - *Alternative Text* - alt
-



# VOCABULARY: TEXT \ CONTAINER ELEMENTS

**Non-Semantic:** Container or structural elements that hold other elements (organization or formatting-focused)

- div
- body
- span

**Semantic:** Text elements (typically), but are also elements that explain the website

- footer
- header
- nav
- section

```
<header>
<nav>
<ul>
<li> <a href="#about">About</a> </li>
<li> <a href="#projects">Projects</a> </li>
</ul>
</nav>
</header>
```

# VOCABULARY: BLOCK \ INLINE ELEMENTS

More Vocabulary ....

**Block:** elements on their own line

- headings,
- paragraphs,
- lists

**Inline:** side by side elements

- links

**Block:**

`<p>I appear on my own line</p>`

**Inline:**

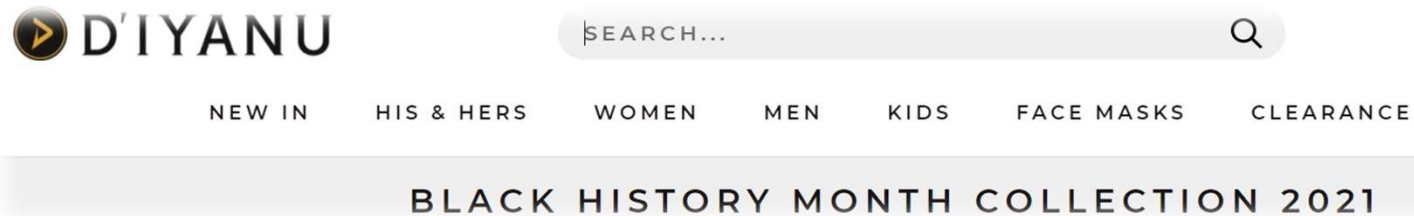
`<p>I am a paragraph. I am a <a href=amazon.com>link</a> embedded in this paragraph. </p>`

<BREAK />



# HEADER AND NAV ELEMENTS

Used to organize website links



<HEADER> - Site Information  
<NAV> - Site Navigation

```
<header>
```

```
<h1>Title of your site</h1>
```

```
<nav>
```

```
<ul>
```

```
<li> <a href="#about">About</a> </li>
```

```
<li> <a href="#projects">Projects</a> </li>
```

```
</ul>
```

```
</nav>
```

```
</header>
```



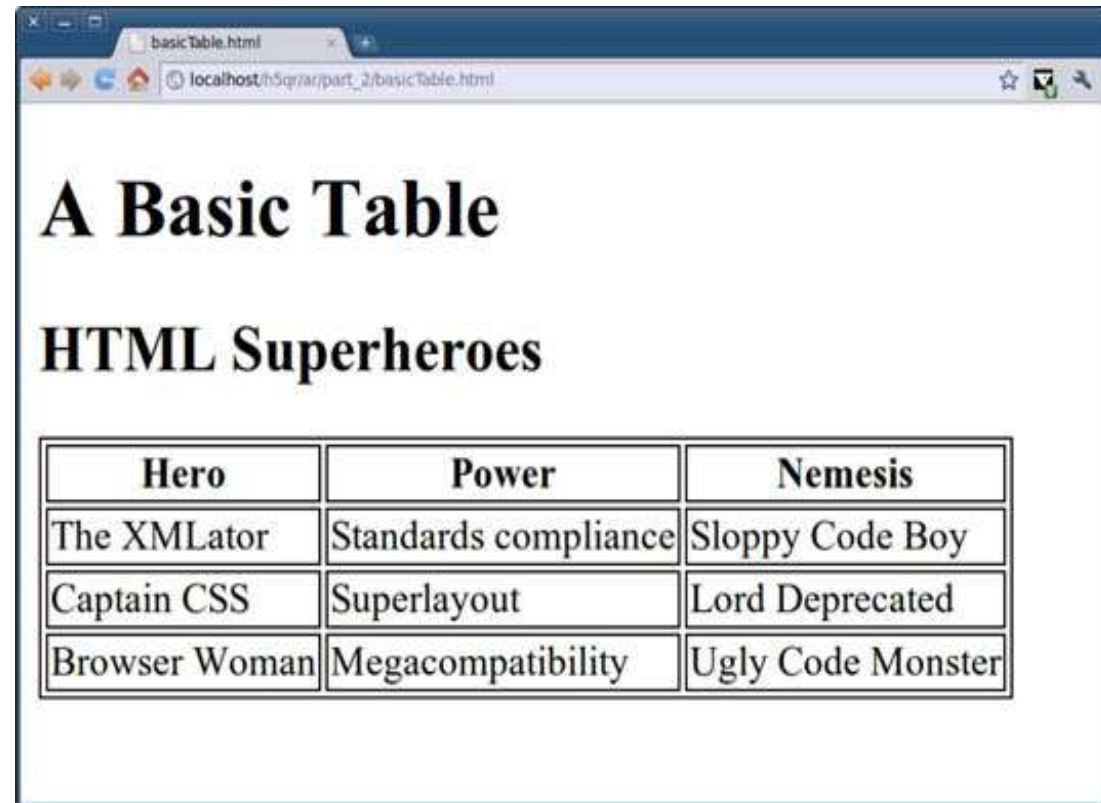
# Group Exercise: Update your portfolio

1. Put the content you created within a div tag
  - Give div tag an id attribute
2. Create another section, My tech focus
  - Create another div tag with an id
  - Add an h1
  - Add content within p tags
3. Create a header tag
  - Add a header tag at top
  - Add nav links to the two sections
  - Create anchor links in both sections
4. Bonus: Add a Contact me section
  - Add a link using an href:mailto link

```
<header>
<nav>
</nav>
</header>
<div id="aboutme">
<h1><a name="aboutjane">Jane
White</a></h1>
<img src=https://m.media-
amazon.com/images/I/81OEjjAyVXL._AC_UL4
80_FMwebp_QL65_.jpg />
<p>I am a programmer of over 15
years. For more about me, go to
<a
href=http://phillytechsistas.com>
PhillyTechSistas</a>
</div>
<div id="newsection">
</div>
```


# TABLES

```
<table>
<caption>Table Title</caption>
<tr>
<th>Column header 1</th>
<th>Column header 2</th>
</tr>
<tr>
  <td>Data 1</td>
  <td>Data 2</td>
</tr>
</table>
```



# COMMENTS

```
<!-- HTML Comment! -->  
<!--  
<ul>  
<li>Order</li>  
<li>Doesn't</li>  
<li>Matter</li> </ul>  
-->
```

Hint: Select code you want to “comment out” and click  + / (Mac) or CTRL + / (PC).

# Can I Do This?

**YES!** You Can!!!

- Since the pandemic, 55% of non-technicals are considering re-training  
<https://www.theguardian.com/careers/2020/dec/14/tech-careers-for-women-what-are-the-main-roles-and-how-do-you-retrain>
  - By hiring non-technical people, Etsy increased female engineers by 30%  
<https://www.wired.com/story/dangers-keeping-women-out-of-tech/>
  - Programs focused on women sends a strong message to technical staff.  
<https://www.wired.com/story/how-to-buck-the-programmer-culture-and-get-women-into-stem/>
-



# Take Home Exercises

1. Finish your portfolio
2. Download portfolio
3. Modify Template
4. Complete Attributes
5. Bonus: Create Table





# Exercise: Update your portfolio

1. Put the content you created within a div tag
  - Give div tag an id attribute
2. Create another section, My tech focus
  - Create another div tag with an id
  - Add an h1
  - Add content within p tags
3. Create a header tag
  - Add a header tag at top
  - Add nav links to the two sections
  - Create anchor links in both sections
4. Add a Contact me section
  - Add a link using an href:mailto link

```
<header>
<nav>
</nav>
</header>
<div id="aboutme">
<h1><a name="aboutjane">Jane
White</a></h1>
<img src=https://m.media-
amazon.com/images/I/81OEjjAyVXL._AC_UL4
80_FMwebp_QL65_.jpg />
<p>I am a programmer of over 15
years. For more about me, go to
<a
href=http://phillytechsistas.com>
PhillyTechSistas</a>
</div>
<div id="newsection">
</div>
```



## Exercise: Check Your Code

Review your HTML

1. Make certain ALL images, headers, links and div tags have IDs, Names and alt attributes

```
<header>
<nav>
</nav>
</header>
<div id="aboutme">
<h1><a name="aboutjane">Jane
White</a></h1>
<img src=myimage.jpg />
<p>I am a programmer of over 15
years. For more about me, go to
<a
href=http://phillytechsistas.com>
PhillyTechSistas</a>
</div>
<div id="newsection">
</div>
```



## Exercise: Create a calendar

1. Create a new project called calendar
2. Inside that calendar.html, create a 7-day calendar using your weekly google or outlook or personal calendar as an example using the table tags

```
<table style="width:100%">
  <tr>
    <th>Mon</th>
    <th>Tue</th>
    <th>Wed</th>
  </tr>
  <tr>
    <td>Mon@12: Go Running</td>
    <td>Tue@1: Go Walking</td>
    <td>Wed@2: Nap</td>
  </tr>
</table>
```



## Bonus: Update calendar

### 1. Update calendar.html:

1. Create a navigation header, under the `<head></head>` tag at the top of the start of the body tag.
2. Add comments explaining who created the calendar

```
<body><header><!-- My header →  
<nav>  
<ul>  
<li><a href=index.html>Home</a>  
<li><a href=calendar.html>Gcal</a>  
</ul>  
</nav>  
</header>  
<table style="width:100%">  
  <tr>  
    <th>Mon</th>  
    <th>Tue</th>  
    <th>Wed</th>  
  </tr>  
  <tr>  
    <td>Mon@12: Go Running</td>  
    <td>Tue@1: Go Walking</td>  
    <td>Wed@2: Nap</td>  
  </tr>  
</table>
```