# Web Development Workshop Day 1

## Make a Repl.it Account & Start a New Project

- Go to repl.it and create a new account
- Click + New repl to create a new Repl project
- Select Language as HTML, CSS, JS
- Name your repl as All About Me (Or something else if you prefer) and click Create repl

## **Changing the Browser Tab Name**

- Let's change what the Browser tab says. Between <title> and </title> it should say "repl.it" by default. Change it to "All About Me"
- It should look like this:

```
<title>All About Me</title>
```

## Creating a Heading

- Let's create a title for our website. We can use *heading tags* to create titles for our website. We need to make sure that all of our following code is within the *body tags* which are denoted as **<body>** and **</body>**.
- Use the **h1** tag to create a new title. Between **<h1>** and **</h1>**, write "All About [Name]". Make sure this comes after the line with the *script tags*.
- It should look something like this:

```
<body>
     <script src="script.js"></script>
     <h1>All About Me</h1>
</body>
```

## Creating a Subheading

- Now, let's create a subheading. We can use a different type of heading tag to create it.
- Use the **h2** tag to create a new subtitle. Between **<h2>** and **</h2>**, write your subheading. Make sure it comes after the **h1** tags.
- It should look something like this:

```
<h1>All About Me</h1> <h2>A website made by me!</h2>
```

## Creating a Paragraph

- Let's create a paragraph of text to introduce ourselves! We can use a paragraph tag.
- Use the **p** tag to create a paragraph. Between and , write a paragraph to introduce yourself. Make sure it comes after the **h2** tags.

It should look something like this:

```
<h2>A website made by me!</h2> Hello! Welcome to my website where you can learn all about me! I am currently a student at Rutgers University and I major in Computer Science. I also like to create cool websites!
```

## Adding a Picture/Gif

- What's an interesting website without pictures? Let's add one! We use *image tags* to insert pictures (and other media such as gifs!) on a website.
- Insert the img tag after your paragraph. Then find a url for an image or gif and add it as
  the src value of the image. The following code illustrates an example of an image being
  inserted onto the website:

```
Hello! Welcome to my website where you can learn all about me! I
am currently a student at Rutgers University and I major in Computer
Science. I also like to create cool websites!
<img src =
"https://dlsi3tbndbzwz9.cloudfront.net/football/team/550/logo.png">
</img>
```

• Hint: To get URLs off google images, find a picture, right-click, then select "Copy image address". The URL of the picture will then be on your clipboard.

## **Changing the Text Format**

- There are multiple ways to change the format of text on a website. Here we will teach you three easy ways to change the format of text: **Bold**, *italics*, and <u>underlined</u>.
- Use the **b** tag to bold any text. Just wrap it around any text-based tag, such as a paragraph tag. You can also wrap it around certain parts of the text if you put the text format tags inside the text tags.
- Use the **em** tag to italicize any text. Like the bold tag, wrap it around any text-based tag.
- Use the **u** tag to underline text. You got it! Wrap it around just like the b and em tags!
- Write three different sentences using three different **p** tags.
  - Let the first sentence be about your favorite movie. Bold the movie title.
  - Write your favorite quote as the second sentence. Italicize the whole quote.
  - Let the last sentence be about your favorite food. Underline the food.
- It should look something like this:

```
<img src =
"https://dlsi3tbndbzwz9.cloudfront.net/football/team/550/logo.png">
</img>
My favorite movie is <b>Titanic</b>.
<em>"She believed she could, so she did." - R.S. Grey</em>
My favorite food is <u>pizza</u>.
```

#### Making a List

- Lists are cool, so let's add them to our website! We can make two kinds of lists: ordered and unordered. Ordered lists are numbered and unordered lists consist of bullet points.
- Let's make an ordered list of goals we want to accomplish this school year. We need to use the *ordered list tag* to enumerate each item, along with *list item tags* to create a new item for our list. and are tags to create the ordered list and and is used to add an item to the list. You can add a title to the list before the li tags.
- It should look something like this:

```
My favorite food is <u>pizza</u>.
Goals for this School Year:
    Survive online classes
    Try some new baking recipes
    Get more exercise and stay active
```

- Now let's make an unordered list. Let's list out books we'd like to recommend!
- We create an unordered list similarly to an ordered list, but we use the **ul** tag instead.
- Your book recommendations should look something like this:

## **Creating a Button**

- Let's create some buttons to put on our page! They won't have functionality yet but we'll add that later!
- We can add a button using the button tag which is denoted using <button> and </button>. We also need to add the type as a "button" which creates the typical button image icon. Add the text of the button between the button tags.
- It should look something like this:

```
<button type="button">Button!</button>
```

- We can add multiple buttons to our website, we just need to add a new button tag. When you put two button tags together, they will be next to each other by default. Put in a *break tag*, denoted by **br**, between the button tags to place them vertically on a new line.
- Two vertically placed buttons should look like this:

```
type="button">Button!</button>
<br/>
<br/>
<br/>
<button type="button">Also a Button!</button>
```

## **Creating Dividers**

- We can use dividers to divide content areas within a web page. It works by grouping
  elements together, which can then be manipulated as a whole. A divider tag is denoted
  by <div> and </div>.
- Let's group together the Title and Subheading of our webpage. All we need to do is wrap those tags with **div** tags.
- It should look something like this:

```
<div>
    <h1>All About Me</h1>
    <h2>A website made by me!</h2>
</div>
```

- Lets group the three sentences we text formatted too!
- That should look something like this:

```
<div>
  My favorite movie is <b>Titanic</b>.
  <em>"She believed she could, so she did." - R.S. Grey</em>
  My favorite food is <u>pizza</u>.
</div>
```

## **Aligning Things Easily**

- We will talk more about alignment and margins later, but we will show you a quick and easy way to align components to the right, left, or center of a webpage.
- We can center the title subheading of our webpage by adding a "text-align" style to our div tag.
- The following code shows how to center the title and subheading by adding a style to the div tag:

```
<div style="text-align:center;">
  <h1>All About Me</h1>
  <h2>A website made by me!</h2>
</div>
```

- We can also center the sentences we grouped together with the other div tag.
- It should look something like this:

```
<div style="text-align:center;">
  My favorite movie is <b>Titanic</b>.
  <em>"She believed she could, so she did." - R.S. Grey</em>
  My favorite food is <u>pizza</u>.
</div>
```

- Extra: Try changing "center" to "right" or "left" to see the change in alignment.
- Note: List tags might have a bit of trouble with this type of alignment since their bullet points or numbers may not adjust to the "text-align" style.

#### **Final Demo Code**

```
<!DOCTYPE html>
< html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width">
  <title>All About Me</title>
  <link href="style.css" rel="stylesheet" type="text/css" />
</head>
<body>
  <script src="script.js"></script>
  <div style="text-align:center;">
    <h1>All About Me</h1>
    <h2>A website made by me!</h2>
  </div>
  Hello! Welcome to my website where you can learn all about me! I am
currently a student at Rutgers University and I major in Computer Science.
I also like to create cool websites!
  <ima src =
"https://dlsi3tbndbzwz9.cloudfront.net/football/team/550/logo.png"></img>
  <div style="text-align:center;">
    My favorite movie is <b>Titanic</b>.
    <em>"She believed she could, so she did." - R.S. Grey</em>
    My favorite food is <u>pizza</u>.
  </div>
  Goals for this School Year:
    Survive online classes
    Try some new baking recipes
    Get more exercise and stay active
   Books I Recommend:
    Of Mice and Men by John Steinbeck
    The Great Gatsby by F. Scott Fitzgerald
    Pride and Prejudice by Jane Austen
  <button type="button">Button!</button>
  <br >></br>
```

```
<button type="button">Also a Button!</button>
</body>
</html>
```

# View of Demo Webpage

## All About Me

## A website made by me!

Hello! Welcome to my website where you can learn all about me! I am currently a student at Rutgers University and I major in Computer Science. I also like to create cool websites!



My favorite movie is Titanic.

"She believed she could, so she did." - R.S. Grey

My favorite food is pizza.

Goals for this School Year:

- 1. Survive online classes
- 2. Try some new baking recipes
- 3. Get more exercise and stay active

## Books I Recommend:

- Of Mice and Men by John Steinbeck
- The Great Gatsby by F. Scott Fitzgerald
   Pride and Prejudice by Jane Austen

Button!

Also a Button!