

# Building Your First Website Using HTML and CSS

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## Preliminary Instructions:

1. Remember, this is supposed to be personalized to you, so feel free to change the format and style values as you see fit
2. Don't copy and paste unless instructed to because typing out the code will help you learn better

## 1. Introduction:

1. Create a new file and save it as `index.html`
2. Create another file and save it as `main.css`
3. Copy and paste the following code:

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <link rel="stylesheet" href="main.css">
    <title></title>
  </head>
  <body>
  </body>
</html>
```

## 2. Creating a Header:

1. Add a header `<h1>` element to your website

```
<h1>Website Header</h1>
```

\*Note: there are multiple types of headers (`<h2>`, `<h3>` ... `<h6>`), they get smaller as the number increases

2. Go to the `main.css` page and center the header

```
h1 {
  text-align: center;
}
```

3. Change the font color and size of the header

```
font-size: 40px;  
color: red;
```

### 3. Creating a Paragraph:

1. Add a paragraph `<p>` element to your website

```
<p>Hello, this is an Oracle Code session.</p>
```

2. Add a `margin-left` style to the `<p>` element

```
margin-left: 20px;
```

\*Note: margins can be added to all sides of the element (margin-right, margin-top, margin-left)

### 4. Add a Background Image:

1. Add a `background-image` style to the `<body>` element

```
body {  
  background-image: url("Enter link to image here");  
}
```

2. Add some more properties to the background image

```
background-size: 100% auto;  
background-repeat: no-repeat;
```

### 5. Add a YouTube Video:

1. Go to YouTube and select a video
2. Click on Share → Embed
3. Copy and paste the given code

### 6. Creating a Navbar:

1. Create a division `<div>` element above the `<h1>` element

```
<div class="navbar">
```

```
</div>
```

\*Note: a class is used to identify a certain element within a file

2. Create two anchor `<a>` elements within the `<div>`

```
<a href="#">Main</a>
```

```
<a href="#">Page 1</a>
```

\*Note: the anchor element is a link to another page

3. Add some properties to the `<div>` element

```
.navbar {  
  background-color: gray;  
  width: 100%;  
  height: 30px;  
}
```

\*Note: use "." + (name of class) in order to reference a specific element with a class name (e.g. ".navbar")

4. Add some properties to the `<a>` elements

```
.navbar a {  
  padding-left: 20px;  
  font-size: 20px;  
  color: white;  
  text-decoration: none;  
}
```

5. We will come back to adding a link on this after the next section

## 7. Creating Another Page:

1. Create a new file called `page1.html`

2. Set it up exactly how we did earlier

\*Note: it can use the same CSS file that `index.html` uses

3. Copy and paste the code for the navbar into `page1.html`

\*Note: since it uses `main.css`, the style of the navbar in `index.html` will be identical to `page1.html`

4. Add a header `<h1>` element to `page1.html` with the value "Page 1"

```
<h1>Page<h1>
```

5. In both `index.html` and `page1.html`, add `index.html` under the `href` for the first `<a>` tag and `page1.html` under the `href` for the second `<a>` tag

```
<a href="index.html">Main</a>
<a href="page1.html">Page 1</a>
```

6. When you click on "Main" it should take you to `page1.html`

### Other Important Elements:

<code>&lt;a&gt;</code>	creates a hyperlink
<code>&lt;b&gt;</code>	creates bold text
<code>&lt;body&gt;</code>	defines body of page
<code>&lt;br&gt;</code>	creates break in line
<code>&lt;button&gt;</code>	adds a button element
<code>&lt;center&gt;*</code>	centers all elements within its field
<code>&lt;div&gt;</code>	creates a section/division in the code
<code>&lt;embed&gt;</code>	creates a section/division in the code
<code>&lt;font&gt;*</code>	can change text size, color, and font
<code>&lt;footer&gt;</code>	creates footer for the document
<code>&lt;form&gt;</code>	creates a form for user input using <code>&lt;input&gt;</code>
<code>&lt;h1&gt;</code> to <code>&lt;h6&gt;</code>	creates a header
<code>&lt;head&gt;</code>	gives info about document
<code>&lt;html&gt;</code>	defines whole html document
<code>&lt;iframe&gt;</code>	defines an inline frame (used with YouTube embed)
<code>&lt;img&gt;</code>	creates an image
<code>&lt;input&gt;</code>	creates input area for user
<code>&lt;li&gt;</code>	creates a list term
<code>&lt;link&gt;</code>	creates relationship between file and another file
<code>&lt;ol&gt;</code>	creates ordered list
<code>&lt;p&gt;</code>	creates a paragraph

<script>	creates area for script (e.g. javascript) within html doc
<span>	creates section in document
<style>	creates area for css within html doc
<table>	creates a table
<td>	defines a cell in a table
<textarea>	creates a text area
<title>	defines title for document
<u>	creates unbulleted list

\*cannot be used with HTML5

### **Publish Your Website:**

1. Go to <https://pages.github.com>
2. Follow the instructions for the User or Organization site
3. Follow the instructions for the terminal if needed