

LAB 1: CREATE A MOBILE HTML5 SITE

In this lab you will follow steps to create a very basic mobile friendly website. You will learn:

1. How to use the 'viewport' meta tag to set the behavior of the mobile browser.
2. How to include and use the jQuery Mobile framework to give your page a mobile friendly style.
3. How to use your chrome developer tools to emulate mobile devices in your browser.

INSTRUCTIONS:

1. Open up a text editor.
2. Create a new HTML file and save.
3. Add the basic HTML document structure as outlined below.

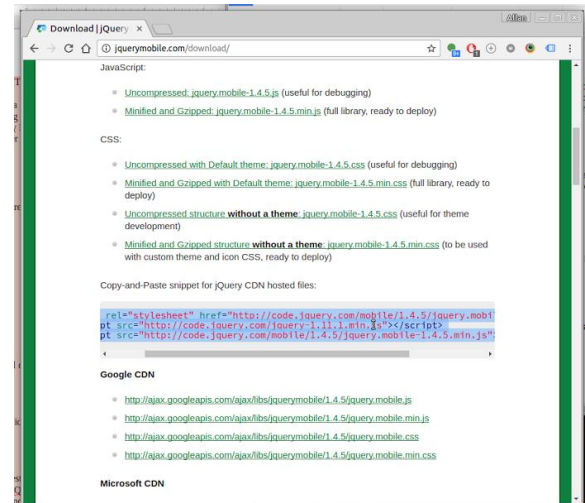
```
1. <!DOCTYPE html>
2. <html>
3.   <head>
4. </head>
5.   <body>
6. </body>
7. </html>
```

3. Add the 'viewport' meta tag to the head of the HTML document.

```
1.   </title>
2.   <meta name="viewport" content="width=device-width, initial-scale=1" />
3. </head>
```

Next, find and include the links to the latest distribution of jQuery Mobile. You will need to include both the stylesheet and the Javascript for jQuery Mobile. In addition, in order for the jQuery Mobile Javascript to work, you will also need to include the core jQuery Javascript.

4A. The jQuery Mobile downloads page includes a snippet of code that will load the latest jQuery Mobile stylesheet, and the latest jQuery and jQuery Mobile Javascripts from the jQuery CDN. Go to <https://jquerymobile.com/download/> and find the code snippet. (Note that if you get the links to jQuery and jQuery mobile separately, you will need to make sure that they are compatible with one another.)



4B. Copy and paste the code snippet from the previous step into the head of the HTML file. Note that you will need the previous step to get the appropriate links to the CDN for jQuery Mobile.

```

1.     </title>
2.     <meta name=...
3.     <link rel="stylesheet" href="[la
test jQuery Mobile stylesheet]" />
4.     <script src="[latest compatible
jQuery]"></script>
5.     <script src="[latest jQuery Mobi
le Javascript]"></script>
6.     </head>

```

7. Now that you have a mobile friendly site, it's time to add some content.

5. Next, add some structural elements to the page using jQuery Mobile. Start by making a div with the "data-role" attribute set to "page". Inside the "page" div, add a header, main and footer section using jQuery Mobile. Add an id to the footer, so that you can identify the footer in the next step from the CSS.

```

1. <body>
2.   <div data-role="page">
3.     <div data-role="header"></div>
4.     <div data-role="main"></div>
5.     <div id="footer" data-
role="footer"></div>
6.   </div>
7. </body>

```

6. Let's fix the footer to the bottom of the screen so it looks a little more natural. At add style tag to your HTML and add a CSS rule that will fix the position of the footer to the bottom of the screen.

```

1. <style>
2.   #footer{
3.     position: fixed;
4.     left: 0px;
5.     bottom: 0px;
6.     width: 100%;
7.   }
8. </style>
9. </head>

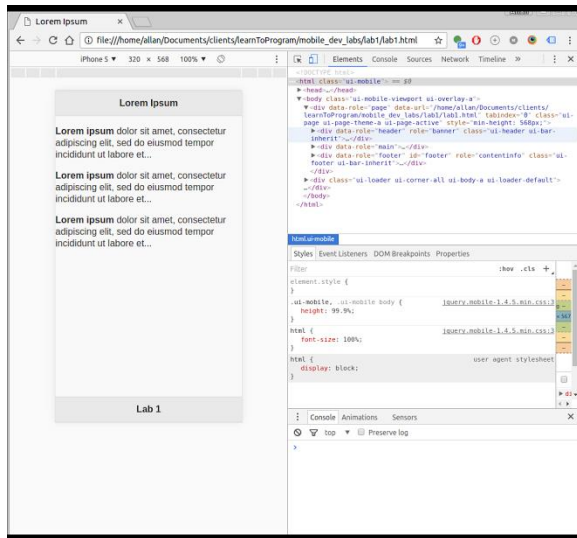
```

```

1. <title>
2. Lorem Ipsum
3. </title>
4. ...
5. <body>
6.   <div data-role="page">
7.     <div data-
role="header"><h1>Lorem Ipsum</h1></div>
8.     <div data-role="main">
9.       <p><strong> Lorem ipsum </st
rong> dolor sit amet, consectetur ad
ipiscing elit, sed do eiusmod tempor
incidunt ut labore et...</p>
10.      <p><strong> Lorem ipsum </st
rong> dolor sit amet, consectetur ad
ipiscing elit, sed do eiusmod tempor
incidunt ut labore et...</p>
11.      <p><strong> Lorem ipsum </st
rong> dolor sit amet, consectetur ad
ipiscing elit, sed do eiusmod tempor
incidunt ut labore et...</p>
12.    </div>
13.    <div data-
role="footer"><h1>Lab 1</h1></div>
14.  </div>
15. </body>

```

8. Finally, go ahead and emulate the mobile view in your chrome browser, using the browser developer tools. Click on the mobile phone icon so that the browser emulates the mobile view.



CHALLENGE YOURSELF

1. Experiment with different devices on your chrome mobile device emulator.
2. Add some custom devices to the list of available devices on your chrome emulator.