

HTML - Using CSS Libraries

You may have noticed that our web pages so far are a bit plain. We can use something called “CSS” to define styles for our site, and something called “Javascript” to add animation and other functionality. Many sites you see online use CSS and Javascript Libraries - this is CSS and Javascript code which we can use without too much additional work to make our code more visually interesting.

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Your Favourite Thing!</title>
    <link href="jquery-ui.css" rel="stylesheet">
    <script src="external/jquery/jquery.js"></script>
    <script src="jquery-ui.js"></script>

  </head>
  <body>
    <div id="myTestAccordion">
      <h3>First</h3>
      <div>Lorem ipsum dolor sit amet.</div>
      <h3>Second</h3>
      <div>Phasellus mattis tincidunt nibh.</div>
      <h3>Third</h3>
      <div>Nam dui erat, auctor a, dignissim quis.</div>
    </div>
    <script>
      $( "#myTestAccordion" ).accordion();
    </script>
  </body>
</html>
```

There are four key parts here to understand.

1. The first is the <div> tag. This defines a “division” in HTML code - you can think of this as being a section. It’s a way of grouping a number of lines together.
2. We also give our div a name - this is the id="myTestAccordion" part. This is just like a variable name in Processing (although you only need to use names in HTML like this if you want to refer to that element later).
3. We have added three lines under the <title> tag at the top, one <link> and two <script> elements. This is where we are importing CSS and Javascript, so that we can use them later.
4. The <script> section at the bottom is where the real magic happens. We are telling it to grab the object with id “myTestAccordion”, and run the “accordion()” script on that object.

Tasks

1. Copy the code above into your notepad++ (you don't need to take the Latin filler text exactly at it is!), save it, and open that file in your browser. You should see the accordion in action.
2. Add a second accordion to your page, under the first. Include at least four elements in the new accordion. **NOTE: You will need to ensure you use a different ID for your new div.**

Next we are going to try some tabs, like this:

```
<div id="tabs">
  <ul>
    <li><a href="#tabs-1">First</a></li>
    <li><a href="#tabs-2">Second</a></li>
    <li><a href="#tabs-3">Third</a></li>
  </ul>
  <div id="tabs-1">Lorem ipsum dolor sit amet, consectetur adipisicing elit,
  sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim
  ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip
  ex ea commodo consequat.</div>
  <div id="tabs-2">Phasellus mattis tincidunt nibh. Cras orci urna, blandit
  id, pretium vel, aliquet ornare, felis. Maecenas scelerisque sem non nisl.
  Fusce sed lorem in enim dictum bibendum.</div>
  <div id="tabs-3">Nam dui erat, auctor a, dignissim quis, sollicitudin eu,
  felis. Pellentesque nisi urna, interdum eget, sagittis et, consequat
  vestibulum, lacus. Mauris porttitor ullamcorper augue.</div>
</div>
```

In your script section you will need to add the following code:

```
$( "#tabs" ).tabs();
```

There are a couple of new elements here:

- ` ` is an **unordered list**. Inside the unordered list you need to include some list items.
- ` ` is a **list item**. One or more of these make up a list.
- ` ` is a **link to an element by id**. The # symbol means we are referring to an id. You will notice that in this example we are linking to the ids of the div elements.

Tasks

1. Copy the code above into your notepad++ (you don't need to take the Latin filler text exactly at it is!), save it, and open that file in your browser. You should see the tabs in action.
2. Add an additional tab.
3. Add a second set of tabs, under the first. **NOTE: You will need to use different IDs for all your new elements - you should never use the same ID for more than one element on your page.**