## Document Object Model

* Purely front end – i.e. in the browser
* In the browser debugger
  + The console tab can be used to interact with the HTML using JavaScript
* 2 steps to change something on the page
  + Get the piece of data that represents the thing you want to change
  + Change it

# jQuery

* jQuery allows us to do the above easily
* It’s a JavaScript library
* Encapsulates complex functionality with an easier to use API (application program index)
* Makes accessing DOM easy

## Installing jQuery

* Include a <script> tag at the bottom of the body
  + Related to SEO
  + One element of SEO is how quickly the page displays something
  + ∴ if the script is written in the head, it will take longer before something is displayed
* <script   src="http://code.jquery.com/jquery-3.3.1.min.js"   integrity="sha256-FgpCb/KJQlLNfOu91ta32o/NMZxltwRo8QtmkMRdAu8="   crossorigin="anonymous"></script>

## Syntax

* Examples
  + var tag = $(‘p);
  + var id = $(‘#container’);
  + var class = $(‘.className’);
  + Notice the syntax above uses the same selectors as CSS
* “$” is a shortcut for “jquery”
* Code using jQuery has to be below the jQuery installation/reference script
* Event handlers
  + Execute code when the user interacts with the page