

# CSCI-230 Web Scripting

## HOMEWORK 7 - MANIPULATING THE DOM

1. Read section 15.1 Web Programming Basics, 15.2 Events, and 15.3 Scripting Documents
2. Create an HTML file named `a7.htm`, a CSS file named `a7.css`, and a JavaScript file named `a7.js`.
3. Add a `<main>` element to your HTML file and below the `<main>` element (not inside it) create a `<section>` element.
4. Modify your CSS file as follows:
  1. Add class rules for classes named *box1*, *box2*, *box3*, and *box4*. Each class rule should stylize the element with that class name so that the element has a fixed width and height (size of your choosing), a distinct background color, and distinct font color.
  2. Add a class rule for the `<button>` element to give your buttons some styling.
5. In your JavaScript file, dynamically add the following elements to the DOM.
  1. Append 3 `<div>` elements to the `<main>` element.
    1. The `<div>` elements should have a *class* attribute set to "box1", "box2", and "box3", respectively.
    2. Each `<div>` element should have some text in it (text of your choosing).
  2. Append 4 `<buttons>` to the `<section>` element.
    1. A `<button>` element with "Append box" as its text, the type attribute set to "button", and set the id attribute to a string of your choosing.
    2. A `<button>` element with "Remove box" as its text, the type attribute set to "button", and set the id attribute to a string of your choosing.
    3. A `<button>` element with "Modify box" as its text, the type attribute set to "button", and set the id attribute to a string of your choosing.
    4. A `<button>` element with "Mystery" as its text, the type attribute set to "button", and set the id attribute to a string of your choosing.
5. Register event handlers for each button.
  1. The Append box button handler should append a new `<div>` element to the children of `<main>`. The new `<div>` element should have its class attribute set to "box4".
  2. The Remove box button handler should remove the first child of the `<main>` element.
  3. The Modify box button handler should change the class attribute of the first child of `<main>` to "box4" if it is currently "box1", "box2", or "box3". Otherwise set the class attribute to "box1".
  4. The Mystery button handler should modify the DOM in some interesting way.