# HW 3 – JavaScript & jQuery

Your goal for this homework is to create a to-do list out of HTML, CSS, and JavaScript/jQuery. This assignment will give you practice manipulating the DOM with JavaScript and jQuery.

## Requirements (the things you’ll be graded on)

1. **(1 point) User sees labeled ‘to-do’ and ‘completed items’ lists, which are empty upon page load. The lists are visually distinct from each other.**
2. **(3 points) User can add one ‘to-do’ item at a time using a text input field and an ‘add to list’ button.**
3. **(1 point) Each newly-added ‘to-do’ item appears at the top of the ‘to-do’ list (not the bottom).**
4. (4 points total) User can click a button within each ‘to-do’ item to mark it as complete, at which point:
   1. (**2 point) The ‘to-do’ item disappears from the ‘to-do’ list**
   2. **(1 point) The ‘to-do’ item appears at the top of the ‘completed items’ list.**
   3. **(1 point) Items on the ‘completed items’ list should be styled differently than those on the ‘to-do’ list as an additional visual indication of their completion.**
5. (3 points total) User can click a button within each ‘complete’ item to ‘unmark’ it as complete, at which point:
   1. **(2 point) The ‘complete’ item disappears from the ‘completed items’ list.**
   2. **(1 point) The ‘complete’ item appears at the top of the ‘to-do’ list with the same styling as the other ‘to-do’ list items.**
6. Items on each list remain there until the user marks or ‘unmarks’ them.
7. **(1 point) Your site has a title and intuitive labeling or instructions on how to use it.**
8. **(4 points) You can use only jQuery and JavaScript – no additional plugins/libraries.**
9. **(1 point) Your JS and CSS code is separate from your HTML (i.e., there should be no inline CSS styling or JavaScript within your HTML file).**
10. **(1 point) All of your JavaScript is commented appropriately.**
11. **(1 point) Your code is clean and concise (minimal repetition and unused code)**

## Bonus (Choose ONE of the following – of course, you can always do more if you want, but you will only get up to 4 points extra credit)

1. (4 points) TOO MANY TO-DOs
   1. Allow the user to create multiple ‘to-do’ lists and switch back-and-forth between them.
   2. Each ‘to-do’ list should have the same functionality as the original requirements above, including its own ‘completed items’ list.
   3. Limit the user to 10 ‘to-do’ lists.
2. (4 points) PURE JS
   1. Create a second version of your original code from above only using pure JavaScript (i.e., no jQuery).
3. (4 points) ANIMATIONS
   1. Use jQuery to animate when a user adds a new item to the ‘to-do’ list.
   2. Use jQuery to animate item completion from requirement #2 above.
   3. Allow the user to rearrange items.
   4. You can use plugins for items a-c above.

## Tip

* Your web page doesn’t have to be beautiful, but it needs to be comprehensible. You are welcome to use any CSS framework to help you with styling.
* Try to encapsulate your code’s functionality as much as possible. This means create separate functions and decoupling functionality when possible.
* (From Carlo) Look at materialize