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| Usability Engineering | CS2511 Practical Sessions |

# Dynamic Web Interfaces (iii)

If you completed the last exercise successfully, you should have a web-page that reads an array, compares values in it against a threshold, and adds or removes objects depending upon whether their value is above or below that threshold.

The aim of this exercise is to extend the web-page so that the threshold is set using a slider, and objects are added or removed automatically depending upon the setting of the slider.

First modify the code you created before so that you have a single function that updates the display (instead of separate functions to add or remove objects). This function should:

* Loop through the array and for each element...
* check to see if the appropriate value for that element exceeds the threshold.
  + if so, check to see if the object already exists, and if not, create it.
  + if not, check to see if the object already exists, and if so, delete it.

You can check to see if an object exists in the following way:

if(document.getElementById(id))

This will evaluate to true if an object with that id exists, and false if it doesn't.

When this is working correctly, create a slider to supply the 'threshold' value. Use the code for sliders in the 'Colour Mixing' example on the CS6101 web-page as an example.

Finally, link the slider to the main code so that moving the slider updates the display, adding or removing objects as necessary.