Lab 8: Event Handling

This lab gives you the chance to code JavaScript edvent handlers to some HTML input widgets. The emphasis is on invoking JavaScript functions that display basic information about the HTML tags, not on coding any intricate JavaScript that does anything with this information.

As usual, you'll have a starter file, *eventhandler.html*, that has some HTML to get you started (this isn't an HTML class, you know).

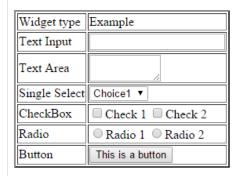
Let's take a look at what you will see when you're done with the lab.

Program Outputs

Upon loading the page, you'll see:

Event handlers for different input widgets

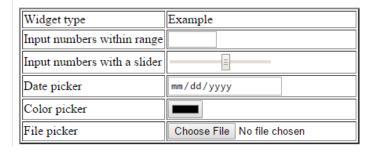
Attach event handlers to these widgets per instructions



This top table is the one you'll be working with; you'll *change the HTML* to invoke *JavaScript event handlers*.

These are HTML5 features in some widgets

This is for your edification; don't attach event handlers to these!



This bottom table is provided so you can see how to code some new HTML5 features; you need not do anything with this table. You are invited to try out the widgets.

When you *focus* on the **Text Input** field, you'll see: (you'll see this when you click in the field – that's how the field gets focus). You did not enter anything in the text field so the value is blank

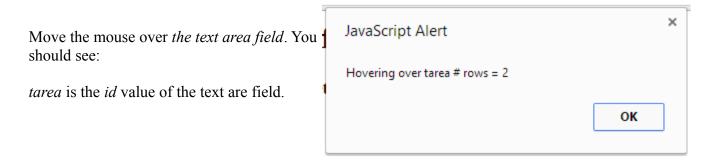


Click OK to dismiss the alert and type something in **Text Input**. Hit *tab* or move the mouse to the field below to the **Text Area** field. You'll see:

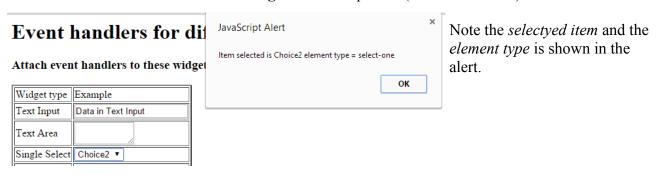


Nowe, the contents of the text input field are displayed.

Click OK. The cursor should be in the **Text Area** field.

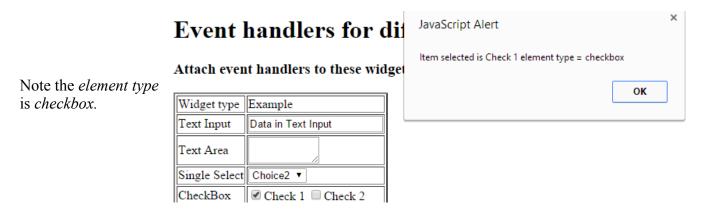


Click OK. Make a selection from the Single Select dropdown (Choice 2 will do). You should see:



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Click OK to dismiss the alert and select Check 1 from the Check Box. You'll see:



Do the same for **Radio** and you'll see the same alert dialog, just with the *item selected and element type changed*.

Dismiss the alert and click the **Button**. You'll see the button text change from This is a button to lam Changed!!!

You are finally done!!!

What to do

You'll need to:

Change HTML to call the JavaScript functions when certain events occur, Code the JavaScript event handlers to display the alerts, change the button

Here's the event handlers you should code:

For the **Text Input** field:

Code event handlers to execute when the field *gains focus* and *loses focus*. The handler that runs when the field gains focus displays 'Entering field', the ID value of the field and its value.

The handler that runs when the field loses focus displays 'Exiting field', the ID value of the field and its value

For the **Text Area** field:

Code an event handler to execute when you move the mouse over the field. Have your handler display an alert showing 'Hovering over', the ID of the field and the number of rows coded in the HTML (take a few guesses on how you could do this)

For the **Single Select**, **Check Box** and **Radio** fields:

Code an event handler to execute when the field *changes value*. Have your handler display an alert showing 'Item Selected', the value of the field and the element type (select-one, checkbox, radio)

For the **Button**:

Code an event handler to execute when you mouse down on the button. Have your handler change the button text (value) to 'I am Changed!!!'.