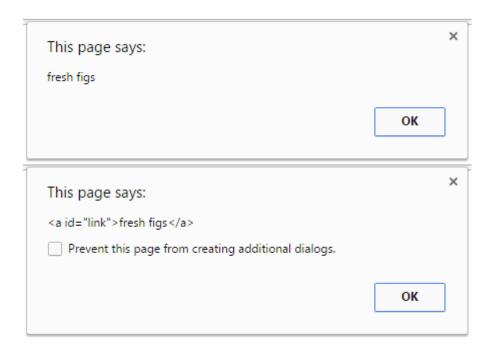
JavaScript Events Lab 2

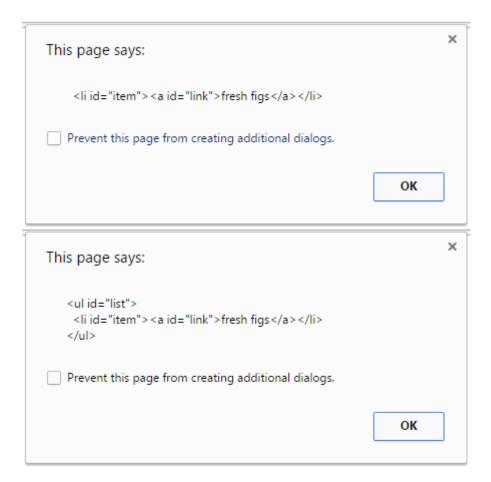
In this exercise event handlers will be created on nodes to handle event flow for bubbling and capturing

Exercise 1 – Event Bubbling

The steps outlined below will help you complete the exercise:

- 1. On moodle download the zip file, event-flow-bubble.zip, and extract the file to a location of your choice on your device.
- 2. Open the file event-flow-bubble.html, and js/event-flow-bubble.js in a text editor of your choice.
- 3. Review the code in js/event-flow-bubble.js. Note that event listeners exist for the <a> and elements.
- 4. Open event-flow-bubble.html in a browser of your choice.
- 5. Click on the link for "great grand child link".
- 6. Note the popup messages show the inner html for <a> element and then for element. This is the bubble effect. The events flow outwards.
- 7. Now modify the code in js/event-flow-bubble.js to ensure event listeners exist for all the parent nodes all the way up to the <div> element.
- 8. Reuse the function showElement, for any new event listeners added to js/event-flow-bubble.js.
- 9. Save all changes to js/event-flow-bubble.js and reload the web page event-flow-bubble.html.
- 10. Click on the link for "fresh figs".
- 11. Please ensure 4 alert messages appear, the first displaying the inner html for <a> and the last showing the inner html for <div>. See below:





Exercise 2 – Event Capturing

The steps outlined below will help you complete the exercise:

- 1. On moodle download the zip file, event-flow-capture.zip, and extract the details to a location of your choice on your device.
- 2. Open the file event-flow-capture.html, and js/event-flow-capture.js in a text editor of your choice.
- 3. Note that no code exists in js/event-flow-capture.js.
- 4. Write code which attaches an event listener to each of the elements from <div>, all the way down to <a>, so that event flows inwards (event capturing).
- 5. An example for such an event listener:

el.addEventListener('click', showElement, false);

- 6. Instructions / Requirements for completing this exercise:
 - a. The property for flow, must be updated to true.
 - b. Need to create a function which accepts a string parameter, and it must be called anonymously. E.g. function(){showElement("<a>");}.
 - c. The parameter passed to the function must be the element name for which the event listener is attached to.

- d. The function then must contain an alert, which displays the parameter that was passed to it.
- 7. Save all changes to js/event-flow-capture.js and open the web page event-flow-capture.html in a browser of your choice.
- 8. Click on the link for "fresh figs".
- 9. Please ensure 4 alert messages appear, the first displaying the element <div> and the last showing the element <a>. See below:

