

Questions_20170112

Thursday 12th January 2017

Click and Load Events

Read through the presentations on Events and Forms on Google Drive.

A sample web page is provided with file “ClickAndLoad_03_03”

1. Open the web page in your browser. On the right of the page there is an image of a person standing on a beach.

Using the empty JavaScript file provided, write some code to create event handlers so that when a user left-clicks on the image, an alert box pops-up. You may need to modify the html file to do this, but do not add in-line scripts.

Make sure your event handlers are in a function, and that the function that calls them is in an onload event, as shown in the presentation.

2. Right-click event. Modify the JavaScript file to work with the following event:

```
window.oncontextmenu = function ()
{
    alert("Content on this page is copyright
protected");
    return false;    // cancel default menu
};
```

This is not really a right-click event, but an event that occurs when the context menu appears, which is usually accessed by a right-click or equivalent mouse action.

Focus and Blur Events

A sample web page is provided with file “FocusAndBlur_03_03”.

1. Add code to the html and javascript file to make the text “your email” appear in the email field.

Other Events

Using “ClickAndLoad_03_03”

1. Write some JavaScript to allow the user to click on a specific heading and change it temporarily, then click again to change it back.
2. Can you use the **onclick** event to swap the image for another?

Forms

For this first exercise, you can create your own small website, with a css file. It should be just one page.

1. **Cut-ups.** Create an algorithm that allows the user to enter some text then rearranges the words and phrases in a random random way, then outputs the results. For this, you need to:
 - a) Create simple user interface using form controls (not the form element) . Use a textarea for inputting and outputting the text.
 - b) You are not allowed to split up words into characters. Words must be kept whole. However, it's ok if some chains of words stay in their original order.
 - c) Provide some additional GUI controls that control the parameters of the algorithm. For example, the degree of randomness, the length of the chains of original words, etc.
2. **Calculator.** Create another web application that calculates something useful. You can use the previous website as a template. Try to should use input text fields, radio buttons, and drop down menu.

Go back to the sample web page in “FocusAndBlur_03_03”.

1. Create a validation function for the support form.
 - a) Check that all the text fields and the text area have been filled in. If a field hasn't been filled in, then you should output an appropriate message to the user, stating which fields need completing.
 - b) Check that the **name** and **email fields** have been filled in correctly. The user should enter a full name, and a valid email

address. Do what you can to check that the data entered has the correct format, and output appropriate messages if it doesn't.

Timers

Read through the document on timers and then answer these questions:

1. **Counter.** Using a timer, create a timer that counts the in seconds and outputs the counting to the top left hand corner of web page. When the user clicks on the timer, it should stop; click a second time and it start continues.
2. **Traffic Light**(Advanced). Using a very simple graphic, can you create an traffic light animation, that cycles through the sequence? Use form controls to allow the user to control how long it stays read, and how long it stays green.