MIS3690 WEB TECHNOLOGIES

BABSON COLLEGE
TOIM DIVISION

PROCESSING FORM INPUT – RADIO BUTTON & CHECK BOX

VALIDATING FORM INPUTS

- Review from last class
 - How to get values from text-boxes
 - How to put values into text-boxes
 - How to validate blank inputs and non-numerical values
- Getting a value from a drop-down
 - Understanding Array variables
 - We will use these for processing radio-buttons and check-boxes later.

WHY ARRAY VARIABLE

- A variable can store one value only (at any given time)
- E.g., when you get a value from a text-box in a form
 - myForm.age.value has only one value
- But, a radio button has more than one value
 - The user chooses ONE of these values
 - Hence, a regular variable will not suffice
 - We need a different kind of variable.

ARRAYS IN JAVASCRIPT

An array is a variable that can store multiple values

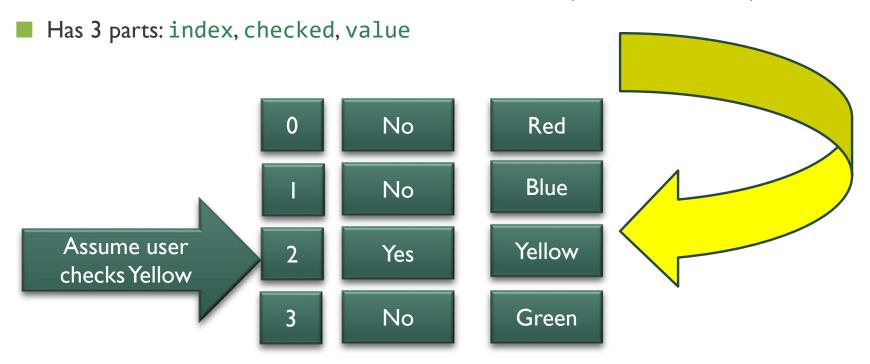
- The value of variable color l is "red"
- The value of variable color2 in index 0 is "red"
- The value of variable color2 in index 1 is "blue"

HOW IS THIS RELATED TO A FORM?

```
<form action="" method="post">
   Red: <input type="radio" name="color" value="red">
   Blue: <input type="radio" name="color" value="blue">
   Yellow: <input type="radio" name="color" value="yellow">
   Green: <input type="radio" name="color" value="green">
</form>
             Please select your favorite color:
             Red: O Blue: O Yellow: O Green: O
```

HOW IS THIS RELATED TO A FORM?

- JavaScript creates an array variable to store the form data
- Its name is the same as the name of the radio button (name is "colors")



HOW DO WE ACCESS WHAT THE USER HAS CHOSEN?

- if the "checked-part" is false, we don't want that value.
- if the "checked-part" is true, we want that value.
- For each "index", we determine if it is "checked", and if yes, we get its value.
- Since we do the same thing with each "row" of the array variable, we use a "for" loop to make life easier.

WHY NOT AN "IF" STATEMENT?

```
if (colors[0].checked)
   userchoice = colors[0].value;
else if (colors[1].checked)
   userchoice = colors[1].value;
else if (colors[2].checked)
      userchoice = colors[2].value;
else {
      userchoice = colors[3].value;
```

- Why is this a problem:
 - We need to know how many buttonoptions are in the form.
 - If we add a choice to the button or take one off, we need to change the function.
 - We are doing the same exact thing over and over.
 - There is a lot of "if"s to write.

WHY FOR STATEMENT

The starting condition – start with the 0th index "i" – a variable we create

```
for (i=0; i<myform.colors.length; ++i)
{
    if (myform.colors[i].checked)
    {
       userchoice = myform.colors[i].value;
    }
}</pre>
```

The ending condition – when all the buttons are processed

We create this to store the value the user picks

- myform.colors.length will give you the number of radio buttons
- ++i what does this do?
- http://www.w3schools.com/js/js_loop_for.asp

CHECK BOX

- Same concept array variable and for loop
- The user may check more than one box that is where it is different from a radio button.
- We will learn this through CS17-InClass1.htm

OPENING NEW WINDOWS

- windows.open()
 - parameters: URL, name, attributes
 - windows.open ('mypage.htm', 'mywin', 'width=300, height=200');
 - Notice the use of single-quotes inside.
 - Can specify the "top" and "left" to position the window on the page
- windows.close()

DROP-DOWN MENU VALUE

Assume that the above is defined in a form whose id (that we assign) is "formDemo".

- In our Javascript function:
 - var myForm = document.getElementById("formDemo");
- The above will get the strings to the form and capture it inside our variable, myForm.
- The value the user selects from the drop-down menu can be accessed by:
- myForm.state.value

State is the name of the <select> element in our form

DROP-DOWN MENU VALUE - CONTINUED

■ We can check the value with "if" statements like,

```
if (myForm.state.value == "null")
{
    alert ("Please select a value");
}
```

Notice that when we defined our <select> element, we set the first option as "null" to force the user to select an value from the list.

"ONCHANGE" EVENT

- Used with drop down lists.
- When the user changes the value to select, the event is triggered.