EECS 1012: Introduction to Computer Science

November 4, 2016

Assorted HTML input widgets

- Text
- Drop-down widgets
- Form (mechanism to group together input widgets)
 - NB: And submit (critical for buttons)
- · Radio button
- Checkbox
- Textarea
- Range

asdfasdfasdf This text here OK | function clicked() { | var input = decusert.getElasentDyId("input1"); | slert("You entered " * input.value); | slert("You entered " * input.value); | clicked() { | var input = decusert.getElasentDyId("input1"); | slert("You entered " * input.value); | slert("You entered " * input.value); | clicked() | | clicked() |

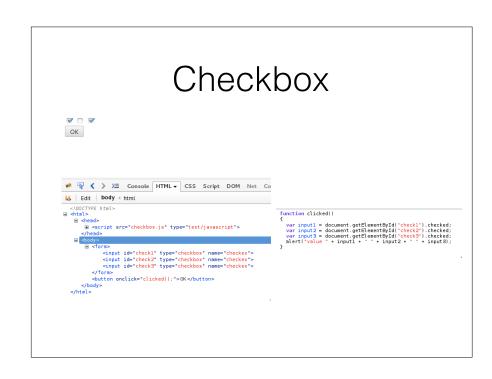
Drop-down widget

The other things Y

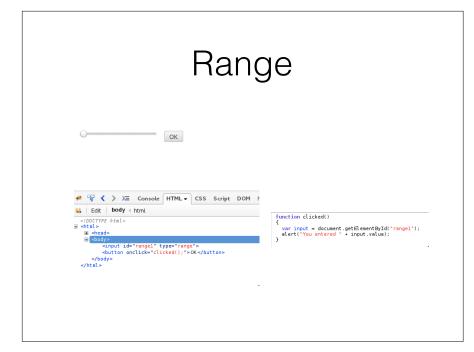
```
ciboCTYPE html>
chtml>
chtml>
chead>
cloody>
coptions This </option>
coptions The </option>
coptions The other things </option>
</select>
</body>
</html>

function OnChange()
{
    var dropdown = document.getElementById("select1");
    var index = dropdown.selectedIndex;
    var value = dropdown.options[index].value;
    alert("You selected" + value);
    return true;
}
```

Radio button | Comparison of the property of







Ok, so lets put it all together

Low-level Events

```
Fires on a mouse double-click on the element
ondblclick
ondrag
               script
                            Script to be run when an element is dragged
ondragend
                             Script to be run at the end of a drag operation
                             Script to be run when an element has been dragged to a valid drop
ondragenter
ondragleave
               script
                            Script to be run when an element leaves a valid drop target
ondragover
                            Script to be run when an element is being dragged over a valid
               Script to be run at the start of a drag operation
ondragstart
ondrop
                             Script to be run when dragged element is being dropped
                             Fires when a mouse button is pressed down on an element
onmousedown
onmousemove
                             Fires when the mouse pointer is moving while it is over an element
onmouseout
                            Fires when the mouse pointer moves out of an element
onmouseover
                            Fires when the mouse pointer moves over an element
                            Fires when a mouse button is released over an element
onmouseup
                             Deprecated. Use the onwheel attribute instead
onmousewheel
                             Script to be run when an element's scrollbar is being scrolled
onscroll
                            Fires when the mouse wheel rolls up or down over an element
```

```
function clearForm()
   document.getElementById("text").value = "";
   document.getElementById("radiol").checked = true;
  document.getElementById("radio4").checked = true;
document.getElementById("check1").checked = false;
   document.getElementById("check2").checked = false;
   document.getElementById("check3").checked = false;
function ok()
   var x = document.getElementById("output");
  x.innerHTML += "Text is |" + document.getElementById("text").value + "|<br/>x.innerHTML += "Radiol is |" + document.getElementById("radiol").checked + "|<br/>tor>";
   x.innerHTML += "Radio2 is
                                            " + document.getElementById("radio2").checked + " <br>";
   x.innerHTML += "Radio3 is |" + document.getElementById("radio3").checked + " | <br/> ";
  x.innerHTML += "Radio4 is |" + document.getElementById("radio4").checked + "|<br/>x.innerHTML += "Checked1 is |" + document.getElementById("check1").checked + "|<br/>br>";
x.innerHTML += "Checked2 is |" + document.getElementById("check2").checked + "|<br/>br>";
   x.innerHTML += "Checked3 is | " + document.getElementById("check3").checked + " | <br>";
   var dropdown = document.getElementById("selectl");
  var index = dropdown.selectedIndex;
var value = dropdown.selectedIndex;
var value = dropdown.options[index].value;
x.innerHTML += "Select 1 is |" + value + "|<br/>dropdown = document.getElementById("select2");
   index = dropdown.selectedIndex:
   value = dropdown.options[index].value;
```

```
</DOCTYPE html>
    <title>This is the revised title </title>

■ <script type="text/javascript" src="events.js">
    A paragraph

■ <div id="output">

           function mousedown() {
             var x = document.getElementById("output");
             x.innerHTML ="mousedown<br>";
           function mouseup() {
             var x = document.getElementById("output");
             x.innerHTML ="mouseup<br>";
           function mouseover() {
             var x = document.getElementById("output");
             x.innerHTML ="mouseover<br>";
           function mouseout() {
             var x = document.getElementById("output");
             x.innerHTML ="mouseout<br>";
```

Summary

- JavaScript/HTML provides a rich set of user interface devices and interaction events.
- All events are delivered asynchronously to your code
 - Event driven programming.
- Exist large number of 3rd party on-screen widgets to allow you to customize your application.