IT350 Web and Internet Programming

SlideSet #11: Dynamic HTML
(some from Chapter 12/13 of book)

What can we do with DHTML?
What can we do with DHTML?

What techniques do we need?

• Find the HTML object we want to change

  var domLink = document.getElementById("linkToAnimal");

• Change the object’s:
  – HTML properties

  domLink.href = "cat.html";

  – CSS properties

  domLink.style.backgroundColor = "blue";
Cash Register Example

```javascript
var totalCents = 0;

function addMoney(extraCents) {
    totalCents += extraCents;

    var domTotal = document.getElementById("moneyTotal");
    domTotal.innerHTML = "," + totalCents / 100;

    var domLabel = document.getElementById("moneyLabel");
    if ( (totalCents % 10) == 0)
        domLabel.style.color = "red";
    else
        domLabel.style.color = "blue";
}
```

Form Validation Example

```javascript
function checkAttending() {
    var number = document.getElementById("numAttend").value;
    if ( (number >= 1) && (number <= 100) )
        return true;
    else {
        window.alert("Please enter a value between 1 and 100.");
        return false;
    }
}

function confirmSubmit() {
    if (!checkAttending())
        return false;
    else
        return window.confirm("Do you want to submit?");
}
```

```html
<form method="get" onsubmit="return confirmSubmit()"
action="http://www.cs.usna.edu/~lmcdowel/courses/it350/tools/FormChecker/submit.cgi" >
/p> <br/>Last name: <input type="text" name="lastname" />
<br/>Number attending(1-100): <input type="text" name="numAttend" onblur="return checkAttending()" />
<br/><input type="submit" value="Sign Up" />
</form> </body> </html>
```
All Kinds of Events

- onblur
- onfocus
- onchange
- onclick
- onload (<body> only)
- onmousedown, onmouseup, onmouseout, onmouseover, onmousemove
- onselect (<input>, <textarea> only)
- onsubmit (<form> only)
- onunload (<body> only)

Exercise #1 – Change this code to make the <p> element have a large font when you move the mouse over it.

```html
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
    <title>Bigger</title>
    <script type = "text/javascript">
    </script>
</head>
<body>
    <p>
        Welcome to my page!
    </p>
</body>
</html>
```
Exercise #2 – Modify so that clicking on the button changes target of `<a>` element to “dog.html”

```html
<html xmlns = "http://www.w3.org/1999/xhtml">
<head>
  <title>Change Link</title>
  <script type = "text/javascript">

  
  </script>
</head>
<body>
<a href="cat.html" >
  See some animals!
</a>
<form action="">
  <br/>
  <input type="button" value="Change animal" />
</form>
</body> </html>
```

Exercise #3 – Write a form to read in a password from the user in two boxes. When they submit the form, proceed only if the passwords are the same.