## COMS 469: Interactive Media II



### • Review

- Ch. 8: Windows and Frames (pp. 263-299)
- Ch. 11: Storing Info: Cookies (pp. 367-389)



# HTML Forms

String Manipulation





## Objects

### document.myForm document.forms[0]

Firefox X	
NIU Novell WebAccess (David GUNK × 🔛 Example Form	× +
Fill in the Form	
Name	
Password	docu
Species: O Human O Canine O Renguin	docu
Organs for Sale Brain Liver Lungs	docu
Hobbies Tree-House Astrology	docu
Essay What I did on my summer vacation	
Send Reset	i.

## **Properties**

document.form[0].element[0]

document.myForm.userName

document.form[0].element[2]

document.myForm.species



## Methods

#### <u>Common Methods</u> submit() focus() blur() reset() select()



#### Name

#### Password

#### Species:

- C Human
- C Canine
- O Penguin

#### Organs for Sale

- Brain
- Liver
- Lungs

#### Hobbies

Tree-House Astrology 💌

Reset

#### Essay

Send

What I did on my summer vacation...

## **Event Handlers**

#### Common Event Handlers onClick

onSubmit onFocus

+ x

onBlur

```
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 validation1 - Notepad
File Edit Format View Help
<html>
<head>
 <title>Simple Form Validation</title>
                                                                  Basic Form Validation
  <script type="text/javascript">
        function formValidation()
             if
                 (document.forms[0].userName.value == "")
                   alert("Hey idiot! Fill in the form.");
             else
                   alert("thanks for the information.");
                                                                    Simple Form Validation - Mozilla Firefo
                                                                                                             _ 🗆 ×
  </script>
                                                                   <u>File E</u>dit <u>V</u>iew Hi<u>s</u>tory <u>B</u>ookmarks <u>T</u>ools <u>H</u>elp
                                                                   < 🔊 🗸 😋 🔀 📄 file:///C:/1-DavidStuff/niu-cla: 🏠 🔹 💽 🕻 Google 🔎 🔡
</head>
                                                                   Your name:
<body bgcolor="#ffffff">
                                                                            [JavaScript Application]
                                                                                                      ×
                                                                    Submit
 <form>
                                                                                 Hey idiot! Fill in the form.
                                                                             \Lambda
  Your name: <input type="text" size="30" nam</p>
                                                                                         OK
  <input type="button" value="Submit" onClick</p>
 </form>
                                                                   Done
                                                                                                             </body>
</html>
```

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```
validation2 - Notepad
                                                                                        - 0 ×
File Edit Format View Help
 <html>
(head>
<title>More Complex Form Validation</title>
 <script type="text/javascript">
                                                                Advanced Form Validation
   function formValidation()
       if (document.forms[0].userName.value == "")
          alert("Hey idiot! Fill in the form.");
       else
          var beerChoice = -1;
          for (loopCounter=0; loopCounter < document.forms[0].beer.length; loop</pre>
                                                                              🐸 More Complex Form Validation - Mozilla Firefox 📃 🗖 🗙
              if (document.forms[0].beer[loopCounter].checked == true)
                                                                                   Edit
                                                                                             History
                                                                                                     Bookmarks
                                                                                                             Tools
                                                                                                                    Help
                                                                                        View
                 beerChoice = loopCounter;
                                                                                                                 G · G P
                                                                                                                            2
                                                                                                              -
                 break;
          if (beerChoice == -1)
                                                                              Beverage Selector
              alert("You must select a beer.");
          alert("Your name is " + document.forms[0].userName.value +
                ". Your beer is " + document.forms[0].beer[beerChoice].value);
                                                                              Your name:
 </script>
(/head>
                                                                              Your beer:
 body bgcolor="#ffffff">
                                                                               O Pabst
                                                                               O Blatz
<form>
                                                                               O Schlitz
<h1>Beverage Selector</h1>
 <hr>>
                                                                               Old Style
 Your name: <input type="text" size="30" name="userName">
  Your beer:
                                                                                Submit
   <br><input type="radio" value="Pabst" name="beer">Pabst
   <br>input type="radio" value="Blatz" name="beer">Blatz
   <br><input type="radio" value="Schlitz" name="beer">Schlitz
   <br/>input type="radio" value="0ld Style" name="beer">0ld Style
 <input type="button" value="Submit" onClick="formValidation()">
                                                                              Done
</form>
</bodv>
/html>
```

## Review

String Methods
- split()
- match()
- replace()
- search()

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<	> -	G	× 🏠	file:///	/C:/1-Dav	/idStuff/r 🏠	• G• Google	🔎 🛃 🔸
Wh	ich U	Spre	esidentı	was involv	red in t	he Water	gate scandal?	
1								
S	ubmit							
	8							
Done								<u>A</u> //.



Writing Regular Expressions var myRegExp = / .... /;

var myRegExp = new RegExp(" .... ");

Using Regular Expressions

- String methods search(), match(), replace()
- RegExp methods compile(), exec(), test()

Character Class	Cha	aracter It Matches	Example		
\d	An	y digit from 0 to 9	\d\d matches 72 but not aa or 7a		
Special Character	N	leaning	Example		
Position Characte	r	Description			
Λ		The pattern must be at the start of the string, or if it is a multi- line string, then at the beginning of the line.			
\$		The pattern must be at the end of the string, or if it is a multi- line string, then at the end of the line.			
\b		Matches a word boundary, which is essentially the point between a word character and a non-word character.			
∖B		Matches a position that is not a word boundary.			
*	N Z	Aatches the previous item ero or more times	x* matches nothing or x, xx, xxx, xxx, xxx, etc.		
[^]	Any of t	y one character, but not one hose inside the brackets	[^a-z] matches any character that is not in the range a-z		

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```
_ _ ×
 nixon_question2 - Notepad
File Edit Format View Help
<html>
<head>
                                                                Basic Regular
<title>Famous Political Scandals</title>
 <script type="text/javascript">
                                                                 Expression Validation
     function formValidation()
        var answer = document.forms[0].userResponse.value:
        var myRegExp = /(Richard|R\.?)?(Milhous|M\.?)?Nixon/i;
        var correct = answer.search(myRegExp);
        if (correct == -1)
                                                  Famous Political Scandals - Mozilla Firefox
                                                                                                   - 🗆 ×
           alert("Hey idiot, you got it wrong
                                                  File
                                                     Edit
                                                         View History
                                                                   Bookmarks Tools Help
                                                                                         G . Google 🔎
                                                                   📄 file:///C:/1-DavidStuff/r 🏠 🔹
        else
                                                         C
                                                            X
                                                               1
           alert("Big surprise, you got it rig
                                                  Which US president was involved in the Watergate scandal?
 </script>
</head>
<body bgcolor="#ffffff">
                                                   Submit
<form>
  (br)
  Which US president was involved in the Wa
  <input type="text" size="30" name="user!
  (br)
  <input type="button" value="Submit" onCl:
</form>
                                                                                                    Done
</bodv>
</html>
```

```
redux3.html
=<html>
⊟<head>
  <title>Form Validation Redux</title>
                                                                Advanced Regular
   <script type="text/javascript">
     function formValidation()
                                                                Expression Validation
       ł
         var answerName = document.forms[0].userName.value;
         var nameReqExp = / [^ \d]/;
         var correctName = answerName.search(nameReqExp);
         var answerPhone = document.forms[0].userPhone.value;
         var phoneReqExp = /^{[2-9]}d{2}-d{3}-d{4}$/;
         var correctPhone = phoneReqExp.exec(answerPhone)
         if (correctName == -1)
                                           🕗 Form Validation Redux - Mozilla Firefox
                                                                                                  _ 🗆 ×
             alert("Error--Please enter a
                                           File Edit View History Bookmarks Tools
                                                                         Help
             return false;
                                                     🛛 🗙 🏠 📄 file:///C:/1-DavidStuff/niu-classes/com 🏠 🔹 🛂 🕻 Google
                                                   G
         if (!correctPhone)
                                                                         de.
                                              Form Validation Redux
             alert("Error--Please enter a
             return false;
                                           Your Name:
         else
                                           Phone Number:
             alert ("All information is co:
                                            Submit
   </script>
 </head>
<body bgcolor="#fffffff">
    <form>
                                                                                                   A
                                           Done
      Your Name: <input type="text" size="30" name="userName">
      Sphone Number: <input type="text" size="30" name="userPhone">
      <input type="button" value="Submit" onClick="formValidation()">
    </form>
 </bodv>
 </html>
```

File Edit View History	<u>Bookmarks Too</u> Form -DavidStuff/niu-cla	ols Help + asses/coms <sup>2</sup>	× C	Firefox T		<u>_0×</u>
Order F	orm			Web Design Quiz		_
	\$12.99	3 💌	\$38.	1. What does CSS stand for?	X	
JESUS	\$15.99	4 💌	\$63.	2. What does DHTML stand for? C Dramatic HTML C Design HTML O Dynamic HTML	OK	
		+ 8% tax	\$11	3. Who invented the World Wide Web? My Mom	Χ	
				Get score Clear answers Score = 33%		

```
🖣 jesus_form.html
-<html>
-<head>
  <title>The Super Fantastic Order Form</title>
  <script type="text/javascript">
    function addTotal()
      1
        var jesusPrice;
        var jesusTotal;
        var grandTotal;
        var tax = 0.08;
                                                                        🕗 The Super Fantastic Order Form - Mozilla Firefox
                                                                                                                  jesusTotal = document.forms[0].jesus.value * document.forms[0].jesusPric
                                                                        Eile Edit View History Bookmarks Tools Help
        document.forms[0].inputbox1.value = "$" + jesusTotal;
                                                                                               +
                                                                        The Super Fantastic Order Form
                                                                          \Rightarrow 👻 🛞 file:///C:/1-DavidStuff/niu-classes/coms< 🏫 🔻 C 🗌 🔎 – Search Resu 🔎 🏠
        grandTotal = (jesusTotal * tax) + jesusTotal;
        document.forms[0].inputbox2.value = "$" + grandTotal.toFixed(2);
                                                                         Order Form
  </script>
 </head>
                                                                           MOSES
 <body bgcolor="#fffffff">
<form name="myForm" action="something.php">
  $12.99
                                                                                               3 -
    Order Form
    <imq src="images/jesus.jpg">
        $15.99<input type="hidden" value="15.99" name="jesusPrice">
        \langle td \rangle
                                                                           JESUS
          <select name="jesus" onClick="addTotal()">
            <option value="0" selected>0</option>
                                                                                        $15.99
                                                                                               4 -
            <option value="1">1</option>
            <option value="2">2</option>
            <option value="3">3</option>
            <option value="4">4</option>
            <option value="5">5</option>
                                                                                              + 8% tax $111.16
          </select>
        <input type="text" name="inputbox1" disabled>
     + 8% tax 
        <input type="text" name="inputbox2" disabled>
  </form>
 </body>
 </html>
```

```
🐴 jesus_form.html |
l<html>
l<head>
-<head>
   <title>The Super Fantastic Order Form</title>
   <script type="text/javascript">
     function addTotal()
         var mosesPrice:
         var mosesTotal;
         var jesusPrice;
         var jesusTotal;
         var orderTotal;
         var grandTotal;
         var tax = 0.08;
         mosesTotal = document.forms[0].moses.value * document.forms[0].mosesPrice.value;
         document.forms[0].inputbox1.value = "$" + mosesTotal;
         jesusTotal = document.forms[0].jesus.value * document.forms[0].jesusPrice.value;
         document.forms[0].inputbox2.value = "$" + jesusTotal;
         orderTotal = jesusTotal + mosesTotal;
         grandTotal = (orderTotal * tax) + orderTotal;
         document.forms[0].inputbox3.value = "$" + grandTotal.toFixed(2);
   </script>
 </head>
       + 8% tax 
      <input type="text" name="inputbox2" disabled>
  </form>
</body>
</html>
```

<pre>shtml&gt; shead&gt; </pre> <pre> form name="myForm" action="something.php"&gt; </pre> <pre> </pre> <pre> form name="myForm" action="something.php"&gt; </pre> <pre> </pre> <pre> </pre> <pre> form name="myForm" action="something.php"&gt; </pre> <pre> </pre> <pr< th=""></pr<>
<pre><head>   Order Form  <head> <title>The Si <title>The Si  Order Form  <title>The Si <title>The Si  <script <t="" ac="" td="" type="function"> <input type="hidden" value="12.99" name="mosesPrice">   <slect name="moses" onClick="addTotal()"> <toption value="0" selected>0</option></th></tr><tr><th><pre>chtml> chtml> chtml chtml</th></tr><tr><th><pre><head> Order Form  <title>The Si Order Form  <title>The Si  <script type=</td>   function ad   {   function ad   {    var mod:</th></tr><tr><th><pre><title>The St</th></tr><tr><th><pre><script type= function ac {</th></tr><tr><th><pre> function a(</th></tr><tr><th><pre></th></tr><tr><th>i     <select name="moses" onClick="addTotal()">       var mo:     <option value="0" selected>0</option></th></tr><tr><th>Var mo: <pre><pre><pre><pre><pre><pre><pre><pre></th></tr><tr><th></th></tr><tr><th>var mos <option value="1">1</option></th></tr><tr><th>var je: <pre><option value="2">2</option></pre></th></tr><tr><th>var je:</th></tr><tr><th>var or(</th></tr><tr><th>var gra</th></tr><tr><th>var tay //defect/(fur)</th></tr><tr><th></th></tr><tr><th>mosesTr <img src="images/jesus.jpg"></th></tr><tr><th>docume: \$15.99<input type="hidden" value="15.99" name="jesusPrice"></th></tr><tr><td></td></tr><tr><th><pre><select name="jesus" onClick="addTotal()"></pre></th></tr><tr><th><pre><pre>// jesusit</th></tr><tr><td>documen <option value="1">1</option></td></tr><tr><th><pre><option value="2">2</option></pre></th></tr><tr><th>orderT( <option value="3">3</option></th></tr><tr><th>grandT( <option value="4">4</option></th></tr><tr><th>documen <pre></th></tr><tr><th></r></th></tr><tr><th><pre></script> //script&gt; /</title></title></title></title></head></head></pre>
<pre>  + 8% tay</pre>
<pre><input disabled="" name="inputbox3" type="text"/></pre>

Firefox .

[] Test Yourself

### Web Design Quiz

1. What does CSS stand for? Colorful Style Symbols Cascading Style Sheets Computer Style Symbols



+

2. What does DHTML stand for? C Dramatic HTML C Design HTML C Dynamic HTML

3. Who invented the World Wide Web? My Mom

Get score	Clear answers
Score = 33%	6

OK

Χ

```
<bodv>
<h1>Web Design Quiz</h1>
<form>
 >
      >
        <dt>1. What does CSS stand for?</dt>
        <dd><input type="radio" name="g1" value="Colorful Style Symbols">Colorful Style Symbols</dd>
        <dd><input type="radio" name="g1" value="Cascading Style Sheets">Cascading Style Sheets</dd>
        <dd><input type="radio" name="q1" value="Computer Style Symbols">Computer Style Symbols
</dd></dl>
     <img src="images/blank.jpg" name="firstQuestion">
   >
      >
        <dt>2. What does DHTML stand for?</dt>
        <dd><input type="radio" name="g2" value="Dramatic HTML">Dramatic HTML</dd>
        <dd><input type="radio" name="g2" value="Design HTML">Design HTML</dd>
        <dd><input type="radio" name="g2" value="Dynamic HTML">Dynamic HTML</dd></dl>
     <img src="images/blank.jpg" name="secondQuestion">
   3. Who invented the World Wide Web?
       <input type="text" size="20" name="userResponse">
     <img src="images/blank.jpg" name="thirdQuestion">
 <br>>
  <input type="button" value="Get score" onClick="getScore()">
  <input type="reset" value="Clear answers" onClick="clearImage()">
Score = <input type="text" size="5" name="theScore" disabled>
</form>
</body>
</html>
```

```
<body>
<h1>Web Design Quiz</h1>
                                          HTML Form
<form>
 <table border="0" width="400" cellpadding="10
                                          2 Sets of Radio Buttons for the first two
   >
      >
                                             multiple choice questions
        <dt>1. What does CSS stand for?</dt>
                                          1 text input for the third question.
        <dd><input type="radio" name="q1" valu
        <dd><input type="radio" name="q1" val
                                          2 buttons with onClick() event handlers
        <dd><input type="radio" name="q1" val
                                             - The first one calls the getScore() function
</dd></dl>
                                             - The second one calls the clearImage() function
     <img src="images/blank.jp
   >
                                          3 < img> tags with src set to blank.jpg
      >
        <dt>2. What does DHTML stand for?</dt>
        <dd><input type="radio" name="g2" value="Dramatic HTML">Dramatic HTML</dd>
        <dd><input type="radio" name="g2" value="Design HTML">Design HTML</dd>
        <dd><input type="radio" name="g2" value="Dynamic HTML">Dynamic HTML</dd></dl>
     <img src="images/blank.jpg" name="secondQuestion">
   >
      3. Who invented the World Wide Web?
       <input type="text" size="20" name="userResponse">
     <img src="images/blank.jpg" name="thirdQuestion">
 <br>>
  <input type="button" value="Get score" onClick="getScore()">
  <input type="reset" value="Clear answers" onClick="clearImage()">
Score = <input type="text" size="5" name="theScore" disabled>
</form>
</body>
</html>
```

```
<html>
<head>
<title>Test Yourself</title>
 <scrint_type="text/javascrint":</pre>
  function getScore()
     var score=0;
     var answer = document.forms[0].userResponse.value;
     var myRegExp = /(Tim|T\rangle.?)?(?)?Berners(-?)?(?)?Lee/i;
     var correct = answer.search(myRegExp);
     if (document.forms[0].elements[1].checked)
       1
         score++;
         document.firstQ
       }
                       Define a function called getScore()
     else
                       Declare and initialize four variables:
         document.firstQ
                         score which is defaulted to zero
     if (document.forms[]
         score++;
                         answer which takes its value from the text
         document.second
       }
                              input field on the form
     else
                          myRegExp which defines a regular
         document.second
     if (correct == 0)
                              expression for the third question
         score++;
                         correct which is assigned the results of a
         document.thirdQ
       }
     else
                              regular expression search performed on the
         document.thirdO
                              answer variable
       ł
     document.forms[0]
  function clearImage()
     document.firstQuestion.src = "images/blank.jpg";
     document.secondQuestion.src = "images/blank.jpg";
     document.thirdQuestion.src = "images/blank.jpg";
 </script>
/head>
```

```
<html>
<head>
<title>Test Yourself</title>
 <script type="text/javascript">
  function getScore()
       var score=0;
       var answer = document.forms[0].userResponse.value;
       var myRegExp = /(Tim|T\rangle.?)?(?)?Berners(-?)?(?)?Lee/i;
           correct = enswer search(muRecFyn) ·
       if (document.forms[0].elements[1].checked)
           score++;
           document.firstQuestion.src = "images/okay.jpg";
         }
       else
         {
           document.firstQuestion.src = "images/error.jpg";
      if (document.forms[0].elements[5].checked)
           score++;
           document.secondQuestion.src = "images/okay.jpg";
         }
       else
           document.secondQuestion.src = "images/error.jpg";
       if (correct == 0)
         £
           score++;
           document.thirdQuestion.src = "images/okay.jpg";
         }
       else
         {
           document.thirdQuestion.src = "images/error.jpg";
         ł
       document.forms[0].theScore.value = Math.round(score/3*100) -
  function clearImage()
      document.firstQuestion.src = "images/blank.jpg";
      document.secondQuestion.src = "images/blank.jpg";
      document.thirdOuestion.src = "images/blank.jpg";
```

</script>

### **Conditional Statements Radio buttons**

If the correct element of the forms[0] object is checked, then increment the score variable by 1 and assign the okay.jpg image to the src of the image object.

If this is not the case, then don't increment the **score** variable and assign the **error.jpg** image to the **src** of the **image** object.

(This is just a modification of our radio button validation script.)

```
<html>
<head>
<title>Test Yourself</title>
 <script type="text/javascript">
  function getScore()
       var score=0;
       var answer = document.forms[0].userResponse.value;
       var myRegExp = /(Tim|T\rangle.?)?(?)?Berners(-?)?(?)?Lee/i;
       var correct = answer.search(myRegExp);
      if (document.forms[0].elements[1].checked)
         {
           score++;
           document.firstQuestion.src = "images/okay.jpg";
        }
       else
         {
           document.firstQuestion.src = "images/error.jpg";
      if (document.forms[0].elements[5].checked)
         {
           score++;
           document.secondQuestion.src = "images/okay.jpg";
        }
       else
           document.secondQuestion.src = "images/error.jpg";
       if (correct == 0)
           score++;
           document.thirdQuestion.src = "images/okay.jpg";
        ł
       else
           document.thirdQuestion.src = "images/error.jpg";
       document.forms[0].theScore.value = Math.round(score/3*100)
  function clearImage()
      document.firstQuestion.src = "images/blank.jpg";
      document.secondQuestion.src = "images/blank.jpg";
      document.thirdQuestion.src = "images/blank.jpg";
```

</script>

### **Conditional Statement Text input field**

If the value of the correct variable is 0, then increment the score by one and assign the okay.jpg image to the src of the image object. If this is not the case, then don't increment the score variable and assign the error.jpg image to the src of the image object.

```
<html>
<head>
<title>Test Yourself</title>
 <script type="text/javascript">
  function getScore()
       var score=0;
       var answer = document.forms[0].userResponse.value;
       var myRegExp = /(Tim|T\rangle.?)?(?)?Berners(-?)?(?)?Lee/i;
       var correct = answer.search(myRegExp)
       if (document.forms[0].elements[1].ched
         1
           score++;
           document.firstQuestion.src = "ima
         }
       else
         {
           document.firstOuestion.src = "ima
       if (document.forms[0].elements[5].che
           score++;
           document.secondQuestion.src = "ima
         }
       else
         {
           document.secondQuestion.src =
                                          " i ma
       if (correct == 0)
           score++;
           document.thirdQuestion.src =
         }
       else
           document.thirdQuestion.src = "images/error.jpg";
       document.forms[0].theScore.value = Math.round(score/3*100) + "%";
  function clearImage()
       document.firstQuestion.src = "images/blank.jpg";
       document.secondQuestion.src = "images/blank.jpg";
       document.thirdQuestion.src = "images/blank.jpg";
 </script>
(/head>
```

### **Calculate the Score**

Take the value of the score, divide it by three (because there are 3 questions) and multiple the quotient by 100 (in order to get a percentage). Apply the round() method of the Math object to this result and add a % sign. Assign this number to the value of theScore input field in the form[0]

```
<html>
<head>
<title>Test Yourself</title>
 <script type="text/javascript">
  function getScore()
      var score=0;
      var answer = document.forms[0].userResponse.value;
      var myRegExp = /(Tim|T\rangle.?)?(?)?Berners(-?)?(?)?Lee/i;
      var correct = answer.search(myRegExp);
      if (document.forms[0].elements[1].checked)
        {
          score++;
          document.firstQuestion.src = "images/okay.jpg";
        }
      else
        {
          document.firstQuestion.src = "images/error.jpg";
        }
      if (document.forms[0].elements[5].checked)
        {
          score++;
          document.secondQuestion.src = "images/okay.jpg";
        }
                                         Define a Function clearImage()
      else
        {
          document.secondOuestion.src =
```

Assign the blank.jpg image to the src of each of the image objects (firstQuestion, secondQuestion & thirdQuestion)

#### } else

if (correct == 0)

score++;

document.thirdQuestion.src =

```
{
    document.thirdQuestion.src = "images/error.jpg";
}
document.forms[0].theScore.value = Math.round(score/3*100) + "%";
```

```
function clearImage()
{
    document.firstQuestion.src = "images/blank.jpg";
    document.secondQuestion.src = "images/blank.jpg";
    document.thirdQuestion.src = "images/blank.jpg";
}
//secript>
```

```
in the second second
<html>
<head>
<title>Test Yourself</title>
 <script type="text/javascript">
   function getScore()
     {
       var score=0;
       var answer = document.forms[0].userResponse.value;
       var myRegExp = /(Tim|T\rangle.?)?(?)?Berners(-?)?(?)?Lee/i;
       var correct = answer.search(myRegExp);
       if (document.forms[0].elements[1].checked)
         {
           score++;
           document.firstQuestion.src = "images/okay.jpg";
         }
       else
         {
           document.firstQuestion.src = "images/error.jpg";
         }
       if (document.forms[0].elements[5].checked)
         {
           score++;
           document.secondQuestion.src = "images/okay.jpg";
         }
       else
         {
           document.secondQuestion.src = "images/error.jpg";
         }
       if (correct == 0)
         {
           score++;
           document.thirdQuestion.src = "images/okay.jpg";
         }
       else
         {
           document.thirdQuestion.src = "images/error.jpg";
         }
       document.forms[0].theScore.value = Math.round(score/3*100) + "%";
   function clearImage()
     £
       document.firstQuestion.src = "images/blank.jpg";
       document.secondQuestion.src = "images/blank.jpg";
       document.thirdQuestion.src = "images/blank.jpg";
 </script>
</head>
```

## Topics

- Opening a new Window
- Closing a Window
- Passing Code Between Windows

## Opening new Windows



## open()

- Method of the window object
- Opens a new browser window
- Parameters
  - URL of the new window contents
  - Arbitrary name
  - height and width of the new window

## • open()

var newWindow; newWindow = window.open();

Basic form

var newWindow; newWindow = window.open("jstalin.html","stalin","width=300,height=400");

With the three parameters

```
😑 people_new.html 🗵
 ⊡<html>
  E<head>
      <title>People</title>
      <script type="text/javascript">
                                                   Declare a variable called newWindow
         var newWindow;
         function openwindow (pageURL)
             newWindow = window.open(pageURL, "gunkel", "width=880, height=750");
             newWindow.focus();
             return false;
      </script>
   </head>
 cloody link="#5555dd" vlink="#5555dd">
 <blockquote>
   <h1>People</h1>
   The people of the massive Widgets corporation are ruthless bastards who would cheat
   their own mother if they had the chance. Their number one goal is to exploit as many
   third-world nations as is possible and squeeze every stinkin' penny from these struggling
   economies.
     <a href="http://gunkelweb.com" onClick="return openWindow('http://gunkelweb.com')">
              D. Gunkel
           </a>
       <a href="josefstalin.html">
              Josef Stalin
           </a>
     </blockquote>
  </body>
  </html>
Hyper Text Markup Language file
                         length: 935 lines: 33
                                             Ln:1 Col:7 Sel:010
                                                                       Dos\Windows
                                                                                   ANSI as UTF-8
```

INS

```
😑 people_new.html 🗵
 ⊡<html>
 E<head>
     <title>People</title>
     <script type="text/javascript">
        var newWindow:
        function openWindow (pageURL)
            newWindow = window.open(pageURL, "gunkel", "width=880, height=750");
            newWindow.focus();
            return false;
     </script>
                               Define a function called openWindow which is called
   </head>
                               by the onClick event handler in the <body> of the
 clody link="#5555dd" vlink="
                               document. The parameter pageURL will be supplied
 clockquote>
                               by the information provided by the event handler, in
   <h1>People</h1>
   The people of the massive
                               this case "http://gunkelweb.com"
   their own mother if they had
   third-world nations as is possible and squeeze every stinkin' penny from these struggling
  economies.
     <a href="http://gunkelweb.com" onClick="return openWindow('http://gunkelweb.com')">
             D. Gunkel
          </a>
      <a href="josefstalin.html">
             Josef Stalin
          </a>
     </blockquote>
  </body>
  </html>
Hyper Text Markup Language file
                       length: 935 lines: 33
                                           Ln:1 Col:7 Sel:0 0
                                                                    Dos\Windows
                                                                               ANSI as UTF-8
                                                                                          INS
```

```
😑 people_new.html 🗵
 ⊡<html>
 E<head>
    <title>People</title>
    <script type="text/javascript">
       var newWindow:
       function openWindow (pageURL)
          newWindow = window.open(pageURL, "gunkel", "width=880, height=750");
          newWindow.focus();
          return false;
    </script>
  </head>
cloody link="#5555dd" vlink="#5555dd">
clockquote>
                Use the open() method of the window object to open a
  <h1>People</h1>
  The people of
  their own mother new window. The contents of the new window will be the
  third-world nati
                value passed to pageURL. The name of the new window
  economies.
                will be "stalin." And the dimensions of the window will be
   <a href=
           D. Gu 880 x 750. Assign all this to the newWindow variable.
        </a></li
                Apply the focus() method to the newWindow, so that it
                appears on top of the existing window. Return false to
     <a href=
           Josef
        </a>
   </blockquote>
 </body>
 </html>
```

INS

```
😑 people_new.html 🔀
 ⊡<html>
 E<head>
     <title>People</title>
     <script type="text/javascript">
        var newWindow:
        function openWindow (pageURL)
            newWindow = window.open(pageURL, "gunkel", "width=880, height=750");
            newWindow.focus();
            return false;
     </script>
                             Modified anchor tag. Include an onClick event handler
   </head>
 elsbody link="#5555dd" vlink to call the function openWindow and pass it the value
 <blockquote>
                             "http://gunkelweb.com" for the pageURL. This can
   <h1>People</h1>
   The people of the massi also be a file name, i.e. "hopslam.html"
   their own mother if they had the change
   third-world nations as is possible and squeeze every stinkin' penny from these struggling
   economies.
       <a href="http://gunkelweb.com" onClick="return openWindow('http://gunkelweb.com')">
              D. Gunkel
          </a>
      <a href="josefstalin.html">
             Josef Stalin
          </a>
     </blockquote>
  </body>
  </html>
Hyper Text Markup Language file
                        length: 935 lines: 33
                                            Ln:1 Col:7 Sel:0 0
                                                                     Dos\Windows
                                                                                ANSI as UTF-8
                                                                                            INS
```
```
😑 people_new.html 🗵
 ⊡<html>
 E<head>
     <title>People</title>
                                                                 people.html
     <script type="text/javascript">
        var newWindow:
        function openWindow (pageURL)
           newWindow = window.open(pageURL, "gunkel", "width=880, height=750");
            newWindow.focus();
           return false;
     </script>
  </head>
 cloody link="#5555dd" vlink="#5555dd">
 <blockquote>
  <h1>People</h1>
  The people of the massive Widgets corporation are ruthless bastards who would cheat
  their own mother if they had the chance. Their number one goal is to exploit as many
  third-world nations as is possible and squeeze every stinkin' penny from these struggling
  economies.
    <a href="http://gunkelweb.com" onClick="return openWindow('http://gunkelweb.com')">
            D. Gunkel
          </a>
      <a href="josefstalin.html">
             Josef Stalin
          </a>
    </blockquote>
 </body>
 </html>
```

Ln:1 Col:7 Sel:0 0

Dos\Windows

ANSI as UTF-8

INS

Hyper Text Markup Language file

length: 935 lines: 33

# Windows & Frames

Window Feature	Possible values	Description		
copyhistory	yes, no	Copy the history of the window doing the opening to the new window		
directories	yes, no	Show directory buttons		
height	integer	Height of the new window in pixels		
left	integer	Position of the left window edge in screen pixels		
location	yes, no	Show location text field		
menubar	yes, no	Show the menu bar		
resizable	yes, no	Enable the user to resize the window		
scrollbars	yes, no	Show scroll bars if page is too long		
status	yes, no	Show status bar		
toolbar	yes, no	Show the tool bar		
top	integer	Position of the top window edge in pixels		
width	integer	Width of the new window in pixels		





### Windows & Frames

### Passing Code

- Write the content of one window to another
- Pass the results of JavaScript (functions, variables, form data, etc.) from one window object to another
- Dynamically generate content





🚺 lyric_generator - Notepad				
File Edit Format View Heln				
<pre>{html&gt;</pre>				
<pre><frameset cols="300,*" frameborder="0">     </frameset></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre>				
<frame name="resultsFrame" src=""/>				

Ê

12

Ĥ

📕 lyric_generator	- Notepad			
File Edit Format	Ularin Ulala			
<html></html>	The second <frame/> tag has an empty value for its			
<pre><head></head></pre>	SFC, meaning it has no HIML document loaded in it.			
<title>Pu</title>	The content of this frame will be written			
	dynamically from the form and will be assigned to			
<frameset co<="" th=""><td>this frame via the "resultsFrame" name.</td></frameset>	this frame via the "resultsFrame" name.			
<pre><frame name="formFrame" src="song_form.html"/> <frame name="resultsFrame" src=""/>    </pre>				

```
📕 lyric_generator - Notepad
                                                      _ 🗆 ×
File Edit Format View Help
<html>
<head>
   <title>Punk Rock Lyric Generator</title>
\langle /head \rangle
<frameset cols="300,*" frameborder="0">
  <frame src="song_form.html" name="formFrame">
  <frame src="" name="resultsFrame">
</frameset>
```

</html>

lyric\_generator.html

#### song\_rorm - Nocepad

File Edit Format View Help

```
-비스
```

#### song\_form.html

```
<body bgcolor="#999999">
<h1>Punk Rock Lyric Generator</h1>
<form>
```

```
<br>A rhyming word
<br><input type="text" name="word1b">
<br>&nbsp;
```

```
<br>A rhyming word:
<br><input type="text" name="word2b">
<br>&nbsp;
```

```
<input type="button" value="Write a Song" onclick="writeSong()">
```

```
</form>
</body>
</html>
```

The <body> of the document contains a form with six type=text input fields, each with a unique name. The form also includes two buttons that employ onclick event handlers to call the functions writeSong() and clearSong()

```
File Edit Format View Help
<html>
<head>
                                                             song form.html
<title>Song Form</title>
  <script type="text/javascript">
     function writesong()
       var word1a = document.forms[0].word1a.value;
       var word1b = document.forms[0].word1b.value;
       var word2a = document.forms[0].word2a.value;
       var word2b = document.forms[0].word2b.value;
       var verb1 = document.forms[0].verb1.value;
       var verb2 = document.forms[0].verb2.value;
       var resultsFrame = window.top.resultsFrame.document;
       resultsFrame.open();
       resultsFrame.write("<blockquote><h1>I don't wanna</h1>" +
                           "<br>I don't wanna " + word1a +
                           "<br>I don't wanna " + word1b +
                           "<br>i just wanna " + verb1 + " around " +
                           "<br>And " + verb2 + " my neighbor's " + word2b +
                           "<br><br>I don't wanna " + word2a +
                           "<br>I don't wanna " + word1a +
                           "<br>i just wanna " + verb2 + " on vou " +
                           "<br>And " + verb1 + " your stinking " + word1b +
                           "<br><br>I don't wanna" +
                           "<br>I don't wanna" +
                           "<br>>I don't wanna");
       resultsFrame.close();
   function clearSong()
       var resi
               Define a function called writeSong(), which will dynamically
       results
       results
                generate the song and write it to the right-hand frame that was
       results
                named resultsFrame in the frameset document.
  </script>
</head>
```

```
File Edit Format View Help
<html>
<head>
                                                             song form.html
<title>Song Form</title>
  <script type="text/javascript">
    function writeSong()
       var word1a = document.forms[0].word1a.value;
       var word1b = document.forms[0].word1b.value;
       var word2a = document.forms[0].word2a.value;
       var word2b = document.forms[0].word2b.value;
       var verb1 = document.forms[0].verb1.value;
       var verb2 = document.forms[0].verb2.value;
       var resultsFrame = window.top.resultsFrame.document.
       resultsFrame.open();
       resultsFrame.write("<blockquote><h1>I don't wanna</h1>" +
                           "<br >I don't wanna " + wordla +
                           "<br>I don't
                                        Declare seven variables. The first six are
                           "<br>>I just
                           "<br>And
                                        assigned the values provided by the user
                           "<br>><br>>I de
                           "<br>I don't
                                        on the form. The seventh variable,
                           "<br>>I just
                           "<br>And " +
                                        resultsFrame, is used to reference the
                           "<br><br>I do
                                        document object contained in the
                           "<br>Ⅰ don't
                           "<br>I don't
                                        resultsFrame window. This is necessary
       resultsFrame.close();
                                        for writing content to this window.
   function clearSong()
       var resultsFrame = window.top.resultsFrame.document;
       resultsFrame.open()
       resultsFrame.write(" ");
       resultsFrame.close();
  </script>
</head>
```

```
File Edit Format View Help
  Apply the open() method to the resultsFrame
                                                            song form.html
< t.
   to begin writing content to it. The write()
   method will contain a number of string literals
   concatenated with the variables defined above.
   Conclude the function by applying the close()
   method to the resultsFrame
       var verb2 = document.forms[0].verb2.value;
       var resultsFrame = window.top.resultsFrame.document;
       resultsFrame.open();
       resultsFrame.write("<blockquote><h1>I don't wanna</h1>" +
                          "<br>I don't wanna " + word1a +
                          "<br>I don't wanna " + word1b +
                          "<br>i just wanna " + verb1 + " around " +
                          "<br>And " + verb2 + " my neighbor's " + word2b +
                          "<br><br>I don't wanna " + word2a +
                          "<br>I don't wanna " + word1a +
                          "<br>>I just wanna " + verb2 + " on you " +
                          "<br>And " + verb1 + " your stinking " + word1b +
                          "<br><br>I don't wanna" +
                          "<br>I don't wanna" +
                          "<br>>I don't wanna");
       resultsFrame.close();
   function clearSong()
       var resultsFrame = window.top.resultsFrame.document;
       resultsFrame.open()
       resultsFrame.write(" ");
       resultsFrame.close();
```

</script>

</head>

```
File Edit Format View Help
```

```
<html>
<head>
                                                            song form.html
<title>Song Form</title>
  <script type="text/javascript">
    function writeSong()
       var word1a = document.forms[0].word1a.value;
       var word1b = document.forms[0].word1b.value;
       var word2a = document.forms[0].word2a.value;
       var word2b = document.forms[0].word2b.value;
       var verb1 = document.forms[0].verb1.value;
       var verb2 = document.forms[0].verb2.value;
       var resultsFrame = window.top.resultsFrame.document;
       resultsFrame.open();
       resultsFrame.write("<blockquote><h1>I don't wanna</h1>" +
                          "<br>I don't wanna " + word1a +
                          "<br>I don't wanna " + word1b +
                          "<br>>I just wanna " + verb1 + " around " +
                          "<br>And " + verb2 + " my neighbor's " + word2b +
                          "<br><br>I don't wanna " + word2a +
                           Define a second function clearSong(). Use the same
                           approach to clear out the resultsFrame by writing an
                           empty string to it.
       resultsFrame.close();
   function clearSong()
       var resultsFrame = window.top.resultsFrame.document;
       resultsFrame.open()
       resultsFrame.write(" ");
       resultsFrame.close();
  </script>
</head>
```

```
File Edit Format View Help
```

</head>

```
<html>
<head>
                                                             song form.html
<title>Song Form</title>
   <script type="text/javascript">
     function writeSong()
       var word1a = document.forms[0].word1a.value;
       var word1b = document.forms[0].word1b.value;
       var word2a = document.forms[0].word2a.value;
       var word2b = document.forms[0].word2b.value;
       var verb1 = document.forms[0].verb1.value;
       var verb2 = document.forms[0].verb2.value;
       var resultsFrame = window.top.resultsFrame.document;
       resultsFrame.open();
       resultsFrame.write("<blockquote><h1>I don't wanna</h1>" +
                           "<br>I don't wanna " + word1a +
                           "<br>I don't wanna " + word1b +
                           "<br>i just wanna " + verb1 + " around " +
                           "<br>And " + verb2 + " my neighbor's " + word2b +
                           "<br><br>I don't wanna " + word2a +
                           "<br>I don't wanna " + word1a +
                           "<br>>I just wanna " + verb2 + " on you " +
                           "<br>And " + verb1 + " your stinking " + word1b +
                           "<br><br>I don't wanna" +
                           "<br>>I don't wanna" +
                           "<br>>I don't wanna");
       resultsFrame.close();
      }
    function clearSong()
       var resultsFrame = window.top.resultsFrame.document;
       resultsFrame.open()
       resultsFrame.write(" ");
       resultsFrame.close();
   </script>
```

-1

- What are Cookies?
- Creating a cookie with JavaScript
  - Accessing cookies
- Using cookies in web applications

### Definition

- A Cookie is a small text file that is stored on the end user's computer
- The information contained in this file is set by the web designer/programmer
- A Cookie can be referenced any time the user returns to your site

#### Function

- A Cookie stores information on the user's machine
- Cookies can be used to remember a user's name and password or to provide custom messages for each individual user
- Cookies are useful for customizing web content
- What Cookies cannot do
  - Snoop on users
  - Transmit computer viruses

#### Inherent Limitations

- A single site can only store 20 cookies on the user's computer
- A cookie is site specific; only the site that set the cookie can access that cookie
- A cookie can only store 4,096 characters
- The user can disable or erase their cookies

<u>File E</u> dit	Options						×		12
< > -		<b>重</b> 页		6		ġ.	Google	e 🔎 🖬	
	Main Tab	🕑 Cookies							
	History	Search:					Clear		
	🔽 Keep my <u>t</u>	The following c	ookies are st	ored on you	r computer:				
	Remember	Site			Cookie	Name			
	Remember				userNar	ne	-		
	┌ Cookies ───				userPho	ne			
	Accept co				userEma	ail			
					userNan	ne	-		
	Keep until	Name: use	rName						
		Host:	eph						
	Private Data -	Path: /C:	/1-DavidStuf	f/niu-classes	;/coms469/s	spring2006/p	pt2009/class(		
	🔲 Al <u>w</u> ays cle	Send For: An	y type of con	nection					
	Ask me be	Expires: Frid	Jay, August I	J7, 2009 1:1	.2:56 PM				
		<u>R</u> emove Cookie	Remove	e <u>A</u> ll Cookies			⊆lose		
	-								
				ок	Cancel	Hel	P		

	🐻 cookies - Notepad	- O ×
	File Edit Format View Help	
1	# HTTP Cookie File	-
	<pre># http://www.netscape.com/newsref/std/cookie_spec.html</pre>	
	# This is a generated file! Do not edit.	
	# To delete cookies, use the Cookie Manager. 11.netscape.com	
	FALSE 1066520432 NSCPHPAD1 set 1066520432375 .netscape.com TRUE	
	FALSE 1066696832 adsPopupU 1066437631468 netscape.com IRUE	
	FALSE 109357/159 Sampler 1062818763 WWW.newyorklestivals.com FALSE	
	FALSE 103/3/6311 ERUBE_ELE_NOM_FICS 241.google.com irue /	
	THESE 2147300440 FREF THE6922301732345553-TM=1062822851-TM=1062822851-S=F2NH76dHCVyAHrS6twebmeil wi	n edu
	FAISE /serviet/ FAISE 1069017858 Cookie Directory view 1	u.euu
	themes mozdev org FAISE / FAISE 1097974247 style One	
	ads specificpop.com FALSE / FALSE 1609459199 id	
	1477932250 atdmt.com TRUE / FALSE 1220572801 AA002	
	1062972629-1141314649/1064182433]ads.specificpop.com FALSE / FALSE	
	1609459199 fci 10-385-1-1065906168-11.insightfirst.com TRUE /	
	FALSE 1097973632 ao1072103 1441798Latwola.com TRUE /	
	FALSE 1097871515 badsrfi V0617c7cc4fc12e2fb3f8efd1b52c9	
	www.scrapbook-bytes.com_FALSE / FALSE_1096809842 bbpassword	
	CD6/df8224e5/8354d996e4f32U/DU61 www.scrapbook-bytes.com FALSE /	
	FALSE 1068259480 delperpage 91www.scrappook-bytes.com FALSE	/
	FALSE 1094403676 DDIASTVISIT 1062867675 WWW.SCRAPDOOK-Dytes.com	,
	FALSE / FALSE 1070007042 DDUSEFIL 570 AMAZON.COM TRUE	1
	FALSE 10/2425001 SESSION-10 104-4000400-055521.amazon.com TRUE	1
	FALSE 1072425601 session-id-time 10724256001 amazon com TRUE	
	FALSE 2082787206 x-main d5@zWIK9p7HTUeJriZWRIponCfesvBwUL fastclick n	et
	TRUE / FALSE 1066588208 m1	5.0
	7619:3:21559:5142:1066415334 10789:1:24591:190:1066415378 10768:1:24528:7026:	106641
	5340 8113:1:18494:6225:1066415328	/
	FALSE 1066506983 m3	
	5902:1:14092:1632:1066334177	/
	FALSE 2145916801 ANON_ID NFMCFLMHLNUU[:fastclick.net TRUE /	
	FALSE 1067020086 m2	
	[9504:1:21549:5:1066415284[10596:1:24202:26:1065905008]]]]]]]]]]]]]]]]]	•
	.TASTCIICK.NET IKUE / FALSE II251/9992 pluto 832/50184[0]	-

#### Cookie File

Components - Required – name and content

- name identifies the cookie for future use
- content is the stored information
- expires

- Sets an expiration date Tue, 15 Feb 2010 00:00:00
- Default setting the cookie persists only as long as the session during which it was created

- Components Optional – domain
  - URL of the site where the cookie is accessible
  - path

- Subdirectory name where the cookie is accessible
- secure
  - Boolean value true or false
  - Works with SSL

### Creating a Cookie - cookie property of the document object • cookie string

document.cookie = "userName=Larry; expires="Tue 15 Feb 2010 00:00:00;";





	📕 cookie1 - Notepad						
Ì	File Edit Format View He	p					
	<html></html>		<u> </u>				
	<head></head>						
	<pre><title>Write a Cookie</title></pre>						
	<pre><script type="text/javascript"></pre></th></tr><tr><th></th><th></th><th></th><th></th></tr><tr><th></th><th>var expi</th><th>reDate = new Date; to setMonth(evnireDate getMonth()+6);</th><th></th></tr><tr><th></th><td>evhilepo</td><td>te.setMonth(expireDate.getMonth()+0);</td><td></td></tr><tr><th>THE SEALS</th><th></script></pre>						
ALC REPART	<⁄head>	Declare and initialize a variable					
STREET.	<body bgcolor<="" th=""><th>Create a new instance of the Date object and assign it to the</th><th></th></body>	Create a new instance of the Date object and assign it to the					
1000	<script th="" tvp<=""><th>variable expireDate. Set the expiration date 6 months in the</th><th></th></tr><tr><th></th><td>1 11</td><td>future. Do this by using the getMonth() method to obtain the</td><td></td></tr><tr><th>Series and</th><td>var user</td><td>number of the month of the expireDate object and add 6 to it.</td><td></td></tr><tr><th></th><td>document</td><td>Then use the setMonth() method to set the month of</td><td>():</td></tr><tr><th></th><th></th><th></th><th></th></tr><tr><th></th><th></script>	expireDate to this new value.					
	Thank you f	or the information. You may now <a href="cookie2.html">enter</a>					
	inclusion for t						
A PART	<⁄body>						

</html>

📕 cookie1 - Notepad					
File Edit Format View Help					
<html></html>					
<head></head>					
<pre><title>Write a Cookie</title></pre>					
<pre></pre>	ipt">				
var expireDate = new Da	te;				
expireDate.setMonth(exp					
	Declare a variable username.				
	The value of this variable will be set by the user's				
	response to a prompt, which is created by using				
	the prompt() method of the window object.				
<body bgcolor="#fffffff"></body>					
<pre> <script type="text/javascript"></script></pre>					

File Edit Format View Help

#### <html>

< b

#### Write the cookie.

Do this by setting the cookie property of the document object to a text string. In this case, the cookie has two pieces of information userName and expires.

The value of **userName** is set to **userName**, which is the information entered by the user.

The value of expires is set to expireDate, which is established above. The toGMTString() method converts the expireDate object into a text string so that it can be written into the cookie.

<script type="text/javascript">

var userName = window.prompt("Please enter your name.",""); document.cookie = "userName="+userName+";expires="+expireDate.toGMTString();

</script>

Thank you for the information. You may now <a href="cookie2.html">enter</a>

</body> </html> 

```
cookie1 - Notepad
File Edit Format View Help
<html>
<head>
                                                         cookie1.html
<title>Write a Cookie</title>
  <script type="text/javascript">
    var expireDate = new Date;
     expireDate.setMonth(expireDate.getMonth()+6);
 </script>
</head>
<body bgcolor="#ffffff">
 <script type="text/javascript">
    var userName = window.prompt("Please enter your name.","");
    document.cookie = "userName="+userName+";expires="+expireDate.toGMTString();
  </script>
 Thank you for the information. You may now <a href="cookie2.html">enter</a>
```

</body> </html>

#### Reading a Cookie

 Extract information held in a cookie and use it to display a custom message

Personalize/Customize
 web content



#### Hello, Ada Augusta Byron...

Done

Welcome to the homepage of Widgets International. We are an impersonal, multinational corporation that takes pride in exporting American jobs overseas, where we can hire children for a dollar a day, pollute the environment, and participated in all kinds of political corruption without pesky government regulators looking over our shoulders.

#### 📕 cookie2 - Notepad

```
File Edit Format View Help
```

```
<html>
<head>
<title>Write a Cookie</title>
```

```
</head>
```

```
<body bgcolor="#fffffff">
<blockquote>
```

```
<script type="text/javascript">
```

if (document.cookie.userName != "")

Use a conditional statement to test whether the userName element of the cookie property of the document object is NOT null. In other words, make sure there is a value for the userName in the cookie.

document.write("<h3>Hello, "+ document.cookie.split("=")[1] + "...</h3>");
}

</script>

Welcome to the homepage of Widgets International. We are an impersonal, multinational corporation that takes pride in exporting American jobs overseas, where we can hire children for a dollar a day, pollute the environment, and participated in all kinds of political corruption without pesky government regulators looking over our shoulders.

</body> </html>

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	🚺 cookie2 - Notepad				
	File Edit Format View Help				
113	<pre> <html></html></pre>				
	<pre></pre>				
	write out a greeting. The greeting is composed of string data concatenated with the value of				
10100	<pre><script ")<="" th="" type="text/javascrip the userName stored in the cookie.&lt;/pre&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;if (document.cookie.userName != "><th></th></tr><tr><th></th><th colspan=5>i document.write("<h3>Hello, "+ document.cookie.split("=")[1] + "</h3>");</th></tr><tr><th></th><th colspan=5></script></pre>				
THE OWNER OF	<pre> Welcome to the homepage of Widgets International. We are an impersonal, multinational corporation that takes pride in exporting American jobs overseas,</pre>				
	where we can hire children for a dollar a day, pollute the environment, and participated in all kinds of political corruption without pesky government regulators looking over our shoulders.				
		•			

```
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like Edit Format View
```

</script>

Welcome multinat where we particip regulato </blockq

The value of the userName is extracted from the cookie by applying the split() method to the cookie property of the document object. The split("=") divides the cookie's name=value pair into two parts along the equals sign. [0] is the name and [1] is its value. In this case, we splitting the cookie at the equals sign and extracting the value assigned to the userName.

</body> </html>

在100年6月7月1日年1月1日年4月1日日1月1日日

```
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📕 cookie2 - Notepad
File Edit Format View Help
<html>
<head>
  <title>Write a Cookie</title>
                                                       cookie2.html
</head>
<body bgcolor="#ffffff">
 <blockquote>
  <script type="text/javascript">
    if (document.cookie.userName != "")
       document.write("<h3>Hello, "+ document.cookie.split("=")[1] + "...</h3>");
  </script>
Welcome to the homepage of Widgets International. We are an impersonal,
multinational corporation that takes pride in exporting American jobs overseas,
where we can hire children for a dollar a day, pollute the environment, and
participated in all kinds of political corruption without pesky government
regulators looking over our shoulders.
</blockguote>
</bodv>
</html>
```

1.001-0112.04618120-0441911-001

## Cookies - Applications

#### Potential Problem

- The previous example does not require the user to enter data
- User can circumvent the prompt
- Solution

•

- Add a conditional statements
- The conditional will specify different actions for situations where the user does not enter a name in the prompt dialogue box



#### Write a Cookie - Mozilla Firefox Image: Solar Street Image: Solar

Hello, ...

Welcome to the homepage of Widgets International. We are an impersonal, multinational corporation that takes pride in exporting American jobs overseas, where we can hire children for a dollar a day, pollute the environment, and participated in all kinds of political corruption without pesky government regulators looking over our shoulders.
```
10.05
                                                                                     - 0 ×
 cookie3 - Notepad
File Edit Format
<html>
       Modify cookie1.html
<head>
<title
       Add a conditional statement to the <body> of the document.
 <scri
       If there is a userName, then create the cookie and use the write()
    va
ex
       method of the document object to write out a text string with a link to
       the next page.
 </scr
       If there is no userName, then use the write() method of the
</head>
       document object to write out a text string with a link to the current
<bodv b
       page. This will return the user to the page with the prompt.
 <scri
    var userName = window.prompt("Please enter your name.","");
    if (userName)
       document.cookie = "userName="+userName+";expires="+expireDate.toGMTString();
       document.write("Thank you for the information." +
                       "You may now <a href='cookie2.html'>enter<\/a>.");
    else
       document.write("You must enter a name. Return to the " +
                       "<a href='cookie3.html'>first page<\/a>.");
 </script>
</bodv>
</html>
```

```
cookie3 - Notepad
File Edit Format View Help
<html>
<head>
 <title>Write a Cookie</title>
                                                                cookie3.html
  <script type="text/javascript">
     var expireDate = new Date;
     expireDate.setMonth(expireDate.getMonth()+6);
  </script>
</head>
<body bgcolor="#ffffff">
  <script type="text/javascript">
     var userName = window.prompt("Please enter your name.","");
     if (userName)
```

- 0 ×

```
document.cookie = "userName="+userName+";expires="+expireDate.toGMTString();
document.write("Thank you for the information." +
               "You may now <a href='cookie2.html'>enter<\/a>.");
```

"<a href='cookie3.html'>first page<\/a>.");

```
else
   document.write("You must enter a name. Return to the " +
```

</script>

</bodv>

</html>

#### Next step:

How do you accommodate return visits? How do you recognize users who already have a cookie without requiring them to fill in the prompt?

```
📕 cookie4 - Notepad
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<html>
```

- 🗆 × Write a Cookie - Mozilla Firefox - 0 × <u>File Edit View History Bookmarks Tools Help</u> < 🔊 🕶 🔀 📉 🏠 📋 file:///C:/1-Dav 🏠 🔹 💽 • Goog 🔎 📑 • Ada Augusta Byron ...click here to enter. expireDate.setMonth(expireDate.getMonth()+6); file:///C:/1-DavidStuff/niu-classes/coms469/spring2006/ppt2009/class06/cook... document.write("<h3>" + document.cookie.split("=")[1] + " ...click here to "+ "<a href='cookie2.html'>enter<\/a>.</h3>"); var userName = window.prompt("Please enter your name.",""); document.cookie = "userName="+userName+";expires="+expireDate.toGMTString(); document.write("Thank you for the information." + "You may now <a href='cookie2.html'>enter<\/a>."); document.write("You must enter a name. Return to the " + "<a href='cookie3.html'>first page<\/a>.")

```
</script>
</body>
```

else {

<head>

</script>

4

}

else ł.

<body bgcolor="#ffffff">

</head>

<title>Write a Cookie</title>

<script type="text/javascript">

var expireDate = new Date;

<script type="text/javascript">

if (document.cookie != "")

if (userName)

```
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🕽 cookie4 - Notepad
                                                                                   - 0 ×
File Edit Format View Help
<html>
<head>
<title>Write
            Add another conditional.
 <script typ
            Use a modified form of the script from cookie2.html. This line
    var exp
    expireDa
            checks to see whether there is a cookie. If the cookie value is not
 </script>
            empty, then a text string is written and the prompt is bypassed. If
</head>
            not (else), then the user is prompted to enter a userName.
<body bgcolo:
 <script type="text/javascript">
  if (document.cookie != "")
       document.write("<h3>" + document.cookie.split("=")[1] + " ...click here to "+
                     "<a href='cookie2.html'>enter<\/a>.</h3>");
  else
       var userName = window.prompt("Please enter your name.","");
       if (userName)
          document.cookie = "userName="+userName+";expires="+expireDate.toGMTString();
         document.write("Thank you for the information." +
                        "You may now <a href='cookie2.html'>enter<\/a>.");
       else
         document.write("You must enter a name. Return to the " +
                        "<a href='cookie3.html'>first page<\/a>.")
   scritt.
</body>
</html>
```

```
File Edit Format View Help
```

<head>

<title>Write a Cookie</title>

<script type="text/javascript">

### cookie4.html

```
var expireDate = new Date;
    expireDate.setMonth(expireDate.getMonth()+6);
 </script>
</head>
<body bgcolor="#ffffff">
 <script type="text/javascript">
  if (document.cookie != "")
    {
       document.write("<h3>" + document.cookie.split("=")[1] + " ...click here to "+
                       "<a href='cookie2.html'>enter<\/a>.</h3>");
    }
  else
     {
       var userName = window.prompt("Please enter your name.","");
       if (userName)
          document.cookie = "userName="+userName+";expires="+expireDate.toGMTString();
          document.write("Thank you for the information." +
                          "You may now <a href='cookie2.html'>enter<\/a>.");
       else
        {
          document.write("You must enter a name. Return to the " +
                          "<a href='cookie3.html'>first page<\/a>.")
 </script>
</body>
</html>
```

# Shopping Cart Exercise

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	Religious Action Figures	+		
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	Action Fig	ures		<u>MyCart</u>
		\$12.99	2 -	
			•	
Page 1 -	- Modify th	e Order Form		
- User sel	lects the quant	ity of each item;	4	
Selec	tion number st	cored in a cookie		

- Link to the shopping cart; **onclick** event handler to write the cookie

Page 1

## Shopping Cart Exercise

🕘 Shopping Cart - Mozilla Firefox		
<u>File E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ool	s <u>H</u> elp	
Shopping Cart	+	
🔶 🔶 📽 💽 file:///C:/1-DavidStuff/niu-clas	:ses/coms469/spring2006/ppt2013/class05/shopping_cart/shopping_cart-ez.html 🏠 🔻 C 🛛 🖓 👻 Search Results	<i>P</i> <b>^</b>

Total

\$38.97

\$31.98

\$70.95

Order Total

### **Page 2 – Shopping Cart**

- Read the cookie, calculate subtotals and totals, and display the data on the form
- Include a form to collect user data and payment information
- On submission, generate a receipt. Use the new window function and pass it data from the form

## Shopping Cart Exercise

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Shopping C	🕹 Mozilla Firefox 📃 🗖 🗙		
<b>♦</b> ♦ ♥	Sile:///C:/1-DavidStuff/niu-classes/coms469/spring2006/ppt2013/class05/shopping_cart/shop	Search Results	۶ 🔍
Sho	Thank You		
ltem	\$70.95 will be charged to your Discover card	al	
Moses A	Expiration Date: 04/14	97	
Jesus Ac	Your order will be sent to:	.98	
	Norbert Wiener	.95	
	Chicado II, 60621		
Shinnin			
omppin			
First Nar			
Address			
City:	State: Zip Code:	1	
Credit Ca	rd: 🔽 💽 Number: 📄 Exp Date:		
	Submit		



Page 2



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	<u>Eile Edit Vi</u> ew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp				
	Shopping Cart +	72 MCC21. MCC211. MCC21			
	File:///C:/1-DavidStuff/niu-classes/coms469/	spring2006/ppt2013/class05/shopp	ing_cart/shopping_cart-ez.ht 🏹	VC P Search Results	
	Shopping Cart				
	ltem	Price	Quantity	Total	
	Moses Action Figure	\$12.99	4	\$51.96	
	Jesus Action Figure	\$15.99	0	\$0	
		-	Order	Total \$51.96	
Problen	n				
The basic cart shows all items,			-		
even those	e vou did not select.				
_		Apt#:			
Try to cre	ate a cart that only	State: Zip Cod	e:		
show the i	items selected.	Exp Da	te:		

Submit

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#### Advanced Version

🕹 Shopping Cart - Mozilla Firefox	
Eile Edit View History Bookmarks Tools Help	
🗧 🧇 👻 🕝 file:///C:/1-DavidStuff/niu-classes/coms469/spring2006/ppt2013/class05/shopping_cart/shopping_cart.html 🎧 🛡 C 🛛 🏸 😁 Search Results	

### Shopping Cart

Item	Price	Quantity	Total
Moses Action Figure	\$12.99	4	\$51.96
		Order Total	\$51.96

#### Shipping and Payment Information

First Name:	Last Name:		
Address:	i	Apt#:	
City:	State	e: Zip Code:	
Credit Card: Visa	Number:	Exp Date:	
		Submit	

### Preview

Ch. 10: Date, Time and Timers (347-366)
Ch. 12: Dynamic HTML and the W3C DOM (pp. 391-468)

- Project One
  - Questions
  - Preparation