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JavaScript Events (Cont.)

onFocus, onBlur, and onChange

The onFocus, onBlur, and onChange events are often used in combination with validation of form fields. Below is an example of how to use the onChange event, which executes JavaScript code when a change event occurs; that is, when a `select`, `text`, or `textarea` field loses focus and its value has been modified.

```
<html><head>
 <script type="text/javascript">
   function lowerCase( x ) {
     var y = document.getElementById( x ).value;
     document.getElementById( x ).value = y.toLowerCase( );
   }
 </script>
</head>
<body>
 <form action="http://wenchen.cs.und.edu/cgi-bin/unix1.pl" method="post">
  shell> <input type="text" name="command" id="command"
           value="date" onchange="lowerCase( this.id )">
  <input type="submit" value="Submit">
 </form>
</body></html>
```

Display the HTML   Reset

The `lowerCase` function will be called whenever the user changes the content of the field. The function converts the uppercase letters in the Unix shell command to lowercase letters before the command is executed:

- The keyword this refers to the current object. In general, in a method this refers to the calling object.

- The method <u>getElementById</u> of the object <u>document</u> returns the element with the specified ID.

- The method <u>toLowerCase</u> of the object <u>string</u> returns the calling string value converted to lowercase.

Demonstration

The following demonstration shows how the script of HTML and JavaScript is displayed on the Web.

[Display the HTML]   [Reset]

```
<html>
 <head>
  <script type="text/javascript">
   function changeVal( ) {
    s1 = "Focused: "
    document.myForm.myText.value = s1 +
      document.myForm.myText.value.toUpperCase( )
   }
  </script>
 </head>

 <body>
  <form name="myForm">
   <input type="text" name="myText" size="32"
     value="Give me focus" onFocus="changeVal( )">
  </form>
 </body>
</html>
```

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