

POST-CLASS LEARNING AND PRACTICE 4.3: CODE ANIMATIONS BY USING JAVASCRIPT

Lesson Objective 4.3:

Code animations by using JavaScript.

Additional learning resources:

MSDN®:

Animating your UI: <http://msdn.microsoft.com/en-us/library/windows/apps/hh465165.aspx>

Windows® Library for JavaScript reference: <http://msdn.microsoft.com/en-us/library/windows/apps/br211669.aspx>

Other resources (books, e-reference):

SourceCodeOnline - JavaScript: <http://www.sourcecodeonline.com/sources/javascript.html>

jQuery API: <http://api.jquery.com/animate/>

Resources, software, and additional files needed for this lesson:

1. None

Student activity:

Directions® to the student:

Read the following scenario and answer the questions. Verify your answers with the instructor.

Scenario:

The owner of Alpine Ski Resorts has seen a rise in the number of hits on the resort website and realizes that the website is a great way to communicate with the skiers, tubers, and snowboarders who visit Alpine Ski Resorts.

The new web designer has suggested that the site include information about current slope conditions, temperatures, and other important ski-condition information. She plans to use the jQuery animate feature to emphasize hazards or when the conditions can cause trail closures.

Content:

1. Refer to the information about animation functions found in the jQuery documentation: <http://api.jquery.com/animate/>.
2. Write code to animate a string of text on a web page. Provide a list of slopes from which the user can select, and then present the user with a text box describing the current conditions of that slope. To accomplish this task, animate the width, font size, and border width of the associated text box.
3. Remember to import of the jQuery library in the `<head>` section of the code.
4. Test the page to see the animation.

KEY 4.3: CODE ANIMATIONS BY USING JAVASCRIPT

Content:

1. Refer to the information about animation functions found in the jQuery documentation:
<http://api.jquery.com/animate/>.
2. Write code to animate a string of text on a web page. Provide a list of slopes from which the user can select, and then present the user with a text box describing the current conditions of that slope. To accomplish this task, animate the width, font size, and border width of the associated text box.

Example code:

```
<!DOCTYPE html>
<html>
<head>
<meta charset=utf-8>
<title>Please fade</title>
<script src="jquery-1.7.1.min.js"> </script>
<style>
div {
    background-color: silver;
    width:200px;
    height:1.3em;
    text-align:center;
    border:2px solid gray;
    margin:3px;
    font-size:10px;
    font-family:"Gill Sans", "Gill Sans MT", Calibri, "Trebuchet MS", sans-serif;
    color: navy
}
button { font-size:14px;}
</style>
</head>
<body>
<button id="go1">&raquo; Diamond Slope</button>
<button id="go2">&raquo; Snake Slope</button>
<button id="go3">&raquo; Both Slopes</button>
<button id="go4">&raquo; Reset</button>
<div id="block1">3 inches of fresh powder, great conditions</div>
<div id="block2">This slope is temporarily closed</div>
<script>$( "#go1" ).click(function(){
    $( "#block1" ).animate( {
        width: "90%" },
        { queue: false, duration: 3000 })
        .animate({ fontSize: "24px" }, 1500 )
        .animate({ borderRightWidth: "15px" }, 1500 );});
$( "#go2" ).click(function(){
$( "#block2" ).animate({ width: "90%" }, 1000 )
.animate({ fontSize: "24px" }, 1000 )
.animate({ borderLeftWidth: "15px" }, 1000 );});
$( "#go3" ).click(function(){
```

```
$( "#go1" ).add( "#go2" ).click();});  
$( "#go4" ).click(function(){  
$( "div" ).css({ width: "", fontSize: "", borderWidth: "" });});  
</script>  
</body>  
</html>
```

3. Remember to import of the jQuery library in the `<head>` section of the code.
4. Test the page to see the animation.