

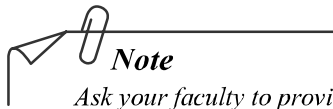
## Activity: Creating an Image Map Using JavaScript

### Problem Statement

MagnifyMaze is a leading advertising firm in Canada. Smith is working as a senior graphic designer with MagnifyMaze. To improve the look and feel of the company's Web site, the management decides to replace of its Web site's hyperlinks with hyperlinks created by applying image maps. The Web site should contain the following image hyperlinks:

- About the Company
- Vision
- Achievements
- Partners
- Contacts.

The images used for the creation of these links must be pre-loaded every time the Web site is loaded. In addition, Smith wants to ensure that when the user moves the mouse over any of the images, the color of the image changes. How can you help Smith to perform the preceding task?



#### Note

Ask your faculty to provide you the datafiles for this activity.

### Solution

To solve the preceding problem, you need to perform the following tasks:

1. Open the index page of the Web site.
2. Write the JavaScript code.
3. Verify the solution.

Task 1: Open the Index Page of the Web Site

To open the index page of the Web site, open **index.htm** in a text editor such as Notepad.

## Task 2: Add the JavaScript Code to the HTML File

To preload images and handle rollover events, perform the following steps:

1. Insert the highlighted portion of the following code in the **index.htm** to preload images and handle mouse rollover events:

```
<HTML>
<HEAD>
<TITLE> Demo</Title>
<SCRIPT LANGUAGE= "JavaScript">
<!--
var images;
function dopreload()
{
    images = new
Array('images/aboutus.gif','images/vision.gif','images/achieve.gif','
images/partners.gif','images/contacts.gif','images/aboutus_r.gif','im
ages/vision_r.gif','images/achieve_r.gif','images/partners_r.gif','im
ages/contacts_r.gif');
    preload(images);
}

function preload(img) {

    for(var i = 0; i < img.length; i++)

    {
        var im = new Image();
        im.src = img[i];
    }
}
function over(a)
{
    document.images[a].src=images[a+5];
}
function out(a)
{
    document.images[a].src=images[a];
}
//-->
</SCRIPT>
</HEAD>
<BODY onLoad=dopreload()>
<h1 align="center">MagnifyMaze, Inc.</h1>
<P><A HREF= "About.htm"> <IMG SRC="images/aboutus.gif"
onMouseOver="over(0)" onMouseOut="out(0)" width="200"
height="43"></A>
<P><A HREF="Vision.htm"><IMG SRC="images/vision.gif"
onMouseOver="over(1)" onMouseOut="out(1)" width="200" height="45"
></A>
<P><A HREF="Achievements.htm"><IMG SRC="images/achieve.gif"
onMouseOver="over(2)" onMouseOut="out(2)" width="200" height="45"
></A>
```

```
<P><A HREF="Partners.htm"> <IMG SRC="images/partners.gif"
onMouseOver="over(3)" onMouseOut="out(3)" width="200" height="45"
></A>
<P><A HREF="Contacts.htm"><IMG SRC="images/contacts.gif"
onMouseOver="over(4)" onMouseOut="out(4)" width="200" height="45"
></A>
</BODY>
</HTML>
```

2. Save the file.

### Task 3: Verify the Solution

To verify the solution, perform the following steps:

1. View the page in the Web browser.
2. Roll the mouse over the **About the Company** image. The color of the image changes.
3. Roll the mouse out of the **About the Company** image. The color of the image reverts to its original color.