

Javascript Specialist Designation Program

Lab Exercise #11

Lab Instructions

1) Run your Brackets development environment, create a new file and quickly save it under the file name **eleventh_javascript_lab.html**

2) Key in the basic HTML document structure and set **Lab #11** as the content for the title tag.

3) In the body of the HTML document add a heading 1 tag with the content, "How many vowels?"

This is all the HTML we need for this lab exercise.

4) Let's jump to the Javascript. Create a separate Javascript file and quickly save it as **main.js**.

Link the HTML file to the Javascript file.

```
<script src="main.js"></script>
```

5) Open your **main.js** file and create the window.onload function.

Inside the onload function, declare a variable named "sentence" and make it equal to a string. The string can be anything you'd like but for now let's use, "This is a test to check how many vowels are in this sentence."

```
window.onload = function() {  
  var sentence = "This is a test to check  
  how many vowels are in this sentence."  
};
```

6) Below the variable create an alert and attach the match() function to the "sentence" variable.

Like this:

```
alert(sentence.match());
```

The match function will check to see if the following are available, "aeiou".

Start with the forward slash, then with a bracket to check each letter separately, close it with a forward slash and add the global/case insensitive symbols.

Lastly, add *.length* to the match() function so we can be returned the amount of vowels in the string.

```
alert(sentence.match(/[aeiou]/gi).length)
```

7) Click File Save to save the current version of your document. Navigate to the HTML document using your operating system and double click it. The document should open in your default browser.

Click submit and see how many vowels were in your string! Play around with it and try different sentences.

Challenge Yourself

Enhance your skills by attempting the exercises below.

1) Write a JavaScript program to test the first character of a string is uppercase or not.

2) Put your site on the web. We've arranged a special deal with Blue Host. Visit <http://www.bluehost.com/track/learntoprogram/> and click "Get Stated Now." You will be able to access web hosting plans as low as \$3.49 a month. Once Blue Host takes you through the process of creating your domain and web server upload your lab and post the URL for the others in the class to see.