Announcements

* The Project 4 due today at 11:55pm. Note: this project includes the week 4 and 5 lab assignments.
* The midterm has been graded. Grades will be posted by 1:00 today. The average is 74% based on best 27/30 + 2 Extra Credit.

Review: RegExp

* Use the test method to check for a match: var foundMatch = pattern1.test(“matchThis”);  
  Passing any string to the test method that contains the string in the RegExp object will return true.
* Example – rules for naming variables: Names can contain letters, digits, underscores, and dollar signs, but names cannot begin with a digit:   
  var pattern = /^[A-Z\_$][A-Z0-9\_$]\*$/i
* Escape character – backslash is an escape character that lets you use a special character, like the dot as a dot, not for pattern matching. Example – test for a valid e-mail address:   
  (also uses {2,} to indicate a minimum of 2 characters)  
  var pattern = /^[A-Z0-9.\_%+-]+@[A-Z0-9.-]+\.[A-Z]{2,}$/i
* Another example – check for a valid uoregon.edu address:  
  var pattern = /^[A-Z0-9.\_%+-]@uoregon.edu/i
* Reference: <http://www.w3schools.com/jsref/jsref_obj_regexp.asp>

Example project

1. Make a rectangle object that has these properties:  
-array with two sides

- area method

- perimeter method

2. Write a web page that accepts two sides and has two buttons for calculating area and perimeter

Date Object

When you do math with the Date object, like subtracting one date from another, the result is in milliseconds. So you need to do some math to convert to other units, like days, months, or years.

Example of calculating the number of days since the new millennium:

var one\_day=1000\*60\*60\*24; // number of milliseconds in a day

var today=new Date();

var twoThousand = new Date(2000, 0, 1);

alert((today -twoThousand)/ one\_day); // shows the number of days