Intro to Web Design and Development, Class 7

An Intro to Ruby

Lesson Pre-work

1. Install the latest version of Ruby using the instructions at http://installrails.com/. Ignore the steps where git is installed - since you've already done that!

Schedule

Part 1

- 1. Ruby: The Language
 - a. Why is Ruby different from HTML or JavaScript?
 - b. Ruby history
- 2. Working with Ruby
 - a. Running the .rb file
 - b. Interactive Ruby console (IRB)
- 3. Ruby Programming Basics
 - a. Variables
 - b. Data types
 - c. Conditions
 - d. Logic
 - e. Loops
 - f. Functions

Part 2

- 1. Exercises
 - a. Create the following functions:
 - i. Adds five to argument given
 - ii. Multiplies argument given by 15
 - iii. Performs a mathematical operation using four integer and/or float arguments
 - iv. Prints the argument given four times
 - v. Prints an uppercase version of the argument given

Homework

Goals

- 1. Solidify your understanding of basic Ruby programming concepts
- 2. Be prepared for slightly more advanced material on Thursday

Assignment

- 1. Create the following functions:
 - a. Create a function that takes a string and adds the phrase "Only in America!" to the end of it
 - b. Create a function to find the maximum value in an array of numbers. For instance:

```
[100,10,-1000]
```

should return 100.

c. Create a function that takes two arguments - both of them arrays. Inside of the function, combine the arrays using the items from the first array as keys and the second array as values. For example, when these two arrays are supplied as arguments:

```
[:toyota, :tesla]
["Prius", "Model S"]

they should return a hash like so:
{toyota: "Prius", tesla: "Model S"}
```

2. Write a program that prints the numbers from 1 to 100. But for multiples of three print "Fizz" instead of the number and for multiples of five print "Buzz". Print "FizzBuzz" for numbers that are multiples of both 3 and 5.

Recommended Activity

Complete as much of the "Introduction to Ruby" track on Codecademy as you can. http://www.codecademy.com/courses/ruby-beginner-en-d1Ylq? curriculum id=5059f8619189a5000201fbcb

Try the "Ruby in 20 minutes" primer:

http://www.ruby-lang.org/en/documentation/quickstart/

Check out Code Quizzes and the Ruby 1 and 2 quizzes:

http://www.codequizzes.com/topics/24/quizzes/75 http://www.codequizzes.com/topics/24/quizzes/75