

# JMS 302: HACKING THE MEDIA

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CLASS 6: 9/4/2014

# TODAY'S TASKS



- More Ruby Methods

# REVIEW

- How programs execute, comments, objects, dot notation, booleans, escaping quotes, variables (pointers), irb
- 18 methods to know
- puts, gets, chomp, to\_i, to\_f, to\_s, +, -, \*, /, %, abs, \*\*, reverse, length, upcase, downcase, rand

You've learned more methods, and technically this list is more than 18 methods. Some you don't need to memorize or use often (center, ljust). Some on this list are actually multiple methods (+ on a number vs + on a string).

# FLOW CONTROL

- Comparison
  - <, >, >=, <=, ==, !=
- Branching
  - if, if/else, end, nesting, commenting
- Looping
  - while, others, ctrl-c
- Logical Operators
  - &&, ||, ! (not)



String comparisons (make sure you compare same cases, beware of numbers), equality on objects

If you can't branch, you might as well not bother coding. Read this chapter carefully.

There are many other ways we'll loop. But let's keep it simple for now.

# ARRAYS & ITERATORS

- Arrays
- notation, indexing, referencing array, referencing individual elements (members)
- each, do |x| end
- join, push, size
- B**• pop, last, to\_s

**C**

irb

show average

# EXERCISES

- 1. Write a program that gets user's first, middle and last names (separately), prints the name out backwards, and tells the user the number of characters in the full name.
- 2. Write a program that asks a user for 5 grades and calculates a final grade, with the first two grades counting for 1/2 of the final grade.
- 3. Modify #1 to say, "What a lovely first name," if the first name entered is the same as yours (regardless of case); otherwise, say, "Meh. Your name's alright."
- 4. Modify #2 to collect grades until the user enters "done" and then calculate a straight average. (Hint: use while, if, ==, each do)

Create a "class\_5" directory under "exercises" in GitHub and add the directory. Commit your work.