Section Review

Learn to Code with Ruby

Single Quotes vs. Double Quotes

- **Double quoted strings** allow for interpolation and escape characters.
- Single quoted strings allow for literal/raw strings (no escape characters).

String Concatenation

- The + symbol (concatenation operator) joins two strings together in a new string.
- The concat method mutates an existing string by concatenating a value to its end.
- The prepend method mutates an existing string by concatenating a value to its beginning.
- The << symbol (shovel operator) mutates a string by concatenating a value to its end.

Index Positions

- Ruby assigns each string character an index position, a numeric order in line.
- The index starts at 0. The final index position is one less than the string's length.
- Extract a single character from a string with [index] syntax.
- Extract multiple characters from a string with [index, amount] syntax.
- The slice method operates the same way as the square bracket syntax.

Overwriting Characters

- Once we've identified one or more index positions, we can overwrite that segment using an equal sign.
- The insert method adds one or more characters at a specified index position without deleting its current character.

String Methods

- The **length** and **size** methods return the number of characters in the string.
- The **empty**? method checks if the string is empty.
- The nil? method checks if an object is nil.
- The **include?** method checks if a string contains a substring.
- The **reverse** method "reverses"/rotates the string.

String Casing Methods

- The upcase method returns a new string with all uppercase characters.
- The downcase method returns a new string with all lowercase characters.
- The capitalize method returns a new string with the first letter capitalized. Ruby lowercases all other characters.
- The swapcase method inverts casing for all characters.
 Uppercase letters become lowercase and lowercase letters become uppercase.

Bang Methods

- A bang method is one that mutates/modifies the original object.
- Bang methods end with a!. It is a Ruby community convention, much like? for a predicate method.
- Many of the methods we learned have bang method equivalents: upcase!, downcase!, reverse!, capitalize!