Ruby Cheat Sheet

A cheat sheet for some important Ruby coding concept that I used.

This info was acquired from the sites referenced in my bibliography.

This is just some of the info the sources contained. I tried to extract some of the more important info and reword some of it to make it easier to understand.

This serves more as a quicker reference to some of the more important concepts.

This is some of the info that I thought was very useful but this is not an exhaustive list.

For better explanations and more info check out

Ruby tutorial for complete beginners: Learn ruby now! (2021, March 12). Retrieved April 15, 2021, from <https://www.rubyguides.com/ruby-tutorial/>

And

Ruby tutorial. (n.d.). Retrieved April 15, 2021, from <https://www.w3resource.com/ruby/>

These two resources together to a great job of teaching all of the basic and important aspects of programming in Ruby. They provide more in-depth info than a normal cheat sheet and help to explain the concepts better.

Comment

Single line comments

# This is a single line comment

Multiline comments

=begin

This is a multiline comment

=end

Variables

Variables in ruby are dynamically typed so we do not need to specify the type

We can simply do

Val1 = 44

Printing

You can print in ruby by doing

p “Hello world”

I use this over print because this makes a new line

Operators

* + which is arithmetic addition or string concatenation
* - which is arithmetic subtraction
* \* which is arithmetic multiplication
* / which is arithmetic division
* % which returns the remainder of arithmetic division
* < which checks if the value on the left is smaller and returns a Boolean
* <= which checks for less than or equal tp
* > which checks for grater
* >= which checks for greater or equal to
* == which checks for equivalence of value
* != checks that values are not equivalent
* && which checks if both are true
* || which checks if one is true
* ++ increments value by 1

Blocks of code

Unlike Java which uses curly braces to signify blocks or Python which uses indentation Ruby uses the keyword end to signify the end of blocks.

For example

If num == 5

P “num is 5”

end

The end signifies the end of the code to be executed for the if condition

If else statements

If num == 5

P “num is 5”

Else

P “num is not 5”

End

You can also use optional parentheses to better show the conditionals

For loop

for i in 1...10

p i

End

This is a for loop in ruby

The first number is the inclusive start

The second number is the exclusive end

This will print the numbers 1 2 3 4 5 6 7 8 9 each on a new line

Arrays

You declare arrays in ruby with square brackets

Example

Array1 = [1, 2, 3, 4]

Arrays have a length attribute you can access with

Array1.length

In this case it will return 4

Functions in ruby

Def functionName(parameter1, parameter2)

# lines of code

end

Bibliography

* Ruby tutorial for complete beginners: Learn ruby now! (2021, March 12). Retrieved April 15, 2021, from <https://www.rubyguides.com/ruby-tutorial/>

This is a great website. I learned most of the things I needed to make my code from this source.

* Ruby tutorial. (n.d.). Retrieved April 15, 2021, from <https://www.w3resource.com/ruby/>

This is another great tutorial. It covers some things that the previous one did not cover in sufficient detail like Ruby’s for loop.

* Learn ruby: Introduction to ruby cheatsheet. (n.d.). Retrieved April 15, 2021, from <https://www.codecademy.com/learn/learn-ruby/modules/learn-ruby-introduction-to-ruby-u/cheatsheet>

This article is a great breakdown of a bunch of different simple but important Ruby features to use.

* Ruby coding cheat sheet. (n.d.). Retrieved April 15, 2021, from <https://www.codeconquest.com/cheat-sheets/ruby-cheat-sheet/>

This page has some good info on using Ruby.

* Ruby. (n.d.). Retrieved April 15, 2021, from <https://www.ruby-lang.org/en/documentation/quickstart/>

This is a great article that gos over the basics of setting up Ruby on your computer as well as some key concepts that you can use to get started programming write away.

* Underwood, D. (n.d.). Learn x in y minutes where x=ruby. Retrieved April 15, 2021, from <https://learnxinyminutes.com/docs/ruby/>

This has a lot of different info on Ruby and how different parts of the language work together.