## Cheatography

## **Ruby Cheat Sheet**

by Ruby Gray via cheatography.com/68488/cs/17257/

## General Remarks about the Language

IRB is an interactive Ruby Shell good for starting out. (\$ irb)

Ruby does not need to be compiled (most of the time) since it is interpreted.

Everything in Ruby is an object.

Ruby variables don't have types only objects do.

Ruby wants you to omit ()'s and ;'s

Ruby will make you happy so enjoy.

Control Structure
if [conditional]
else end
[conditional] ? true block
: false block
if [conditional]
elsif [conditional]
else end
while [conditional]
end
until [conditional]
end
case someVar
when [condition]
when [condition]
(as many whens as needed)
else end

## **Control Structure (cont)**

someVar.each do |x| ...  $someVar.each \{|x| ... \}$ for each x in someVar do ... end

### **Variable Classifications**

variable_name	Local Variable
VARIABLE	Constant Variable
@variable_name	Instance Variable
@@variable_na me	Class Variable
=	Assignment

Everything is an object so variables do not have explicit data types

Length of the String

## **Strings**

.length

.reverse

.count(para m)	How many times the param appears in the String
.insert(pos, param)	Inserts the param in the position of the String
.upcase	Converts all characters to uppercase
.downcase	Converts all characters to lowercase
.swapcase	Converts all uppercase characters lowercase & lowercase to

uppercase

Reverses the order of the characters

## Strings (cont)

.split	Breakes up a String on whitespace and stores all those strings in an array
.chop	Removes the last character
.strip	Removes all whitespace, tabs, new lines & carriage returns
.chomp	Removes the last character if it's a new line or carriage return
[start, end]	Returns a substring
.to_i	Converts to integer
+	Concatenates strings
.index( position )	Returns the character in the specified position
.clear	Removes all content

Operators (cont)

%	Modulus			
**	Exponent			
Compare	Operators			
==	Values Equal?			
!=	Values Not Equal?			
>	Left op greater than Right op?			
<	Left op Less than Right op?			
>=	Left op greater than or equal to Right op?			
<=	Left op less than or equal to Right op?			
<=>	Spaceship: returns 0 if ops are equal, 1 if Left op is greater than Right op and -1 if Left op is less than Right op			
===	A case comparative for when control structure			
.eql?	Values Equal for both			

type and value?

object?

OR

NOT

Operators AND

Values are the same

.equal?

Logical

and, &&

or, ||

not,!

## **Function Structure**

def methodName ... end def methodName (param1, param2) ... end

No Return Statements. No need for ()'s with no parameters.

Arithmetic	Operators
+	Addition
-	Subtraction
*	Multiplication
/	Division

# **Operators**



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Arrays		Arrays (cont)		Hashes		Hashes (cont)		
array = Array.new( lengthPara	Creates array where each element is NIL	array.fill param	Sets all the array elements to the param	map = Hash.new map =	Creates an empty hash map Creates an empty	map.length	Returns the number of key-value pairs in the hash map	
m) array = [element1,	Creates array with the specified elements	array.each { x }	lterates over each element in the array iterates over each	Hash.new( default)	hash map where if key or value cannot be found, default	map.keys	Returns an array of all the keys in the hash map	
element2,] array[index	Returns the element	index{ i } A single arra	index in the array y can hold elements of	map = Hash["key1	value is returned.  Creates a hash map with 2 key-value	map.values	Returns an array of all the values in the hash map	
] array.lengt	value at index  Returns the size of the array	different obje	ect types.	" => value1, "key2" =>	pairs	map.sort	Sorts the keys of the hash map in alphabetical order	
array.push param <<	Adds the params as separate elements to the end of the array	range = Range.new (start, end)	Creates a new Range from the starting point to the	value2,]  map = Hash["key1"	Creates a hash map with 2 key-value	map.inspect	Returns the current state of the hash map	
array.pop	Removes the element from the end  Adds the params as	range = startend	end point  Creates a range from start to end	" => value1, "key2" =>	pairs	map.each { k, v  }	Iterates over each key-value pair in the hash map	
ft param	separate elements to the front	range = startend	Creates a range from start to end	value2,] map["key3" ] = value3	Adds a key-value pair to the map	map.each_k ey { k  }	Iterates over each key in the hash map	
array.shift	Removes the element from the front  Reverses the order of	range.to_a	exclusive  Converts a range to	map.has_k ey? key	Returns true if the key exists as a key in the hash map	map.each_v alue { v  }	Iterates over each value in the hash map	
se array.shuffl	elements Randomly shuffles up	range.each	an array Iterators through each element	maps.has_value?	Returns true if the value exists as a	map.each_v alue { v	Iterates over each value in the hash map	
e array.sort	order of elements  Sorts the array of elements	range.inclu de? (param)	Returns true if the param exists in the Range	value map.fetch	value in the hash map Returns the value	Class Struct		
array.inclu de? param	Returns true if the param exists in the array	range.last param	st Returns the last element. Param can be added to provide more than just the last.	key map.delete	the key  Deletes the key-value pair with the key param	@instVaria	class className1 @instVariable @@clssVariable	
array.uniq	Returns an array of only the unique elements	Alexander		param		attr_acces		
wit			function can be used nd) or (startend) as			··		



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## Class Structure (cont)

```
def initialize
        end
        def classMethod1 param
        end
end
class className2
end
```

**Class Details** Initialize A method that is called internally when .new is called to create the object. attr\_reade Instance variable getter attr\_write Instance variable setter Instance variable getter and setter attr\_acce sor classNa Method called to create the specified object me.new No overloading methods in Ruby.



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Multiple classes can be written in the same file.

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