Cheatography

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

General Remarks about the Language	Control Structure (cont)			
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.		ach { 	[x }	
Everything in Ruby is an object.	end			
Ruby variables don't have types - only objects do.	Variable Cla	assific	ations	
Ruby wants you to omit ()'s and ;'s	variable_nar	Local Variable		
Ruby will make you happy so enjoy.	VARIABLE		Constant Variable	
Control Structure	@variable_r	name	Instance Variable	
if [conditional] else end	@@variable me	_na	Class Variable	
	=		Assignment	
<pre>[conditional] ? true block : false block</pre>	Everything is an object so variables do not have explicit data types			
if [conditional]	Strings			
elsif [conditional]	.length	Leng	th of the String	
else end	.count(para m)		many times the n appears in the g	
while [conditional] end	.insert(pos, param)	Inserts the param in the position of the String		
until [conditional]	.upcase	Converts all characters to uppercase		
end 	.downcase	chara	verts all acters to rcase	
<pre>case someVar when [condition] when [condition] (as many whens as needed) else end</pre>	.swapcase	uppe lowei lowei	rerts all rcase characters rcase & rcase to rcase	
	.reverse		erses the order of haracters	

ol Structure (cont)			Strings	Strings (cont)			Operators (cont)		
'ar.each do x 'ar.each { x }		.split	Breakes up a String on		%	Modulus			
			whitespace and stores	**	Exponent				
			all those strings in an array		Compare	Operators			
ach x in someVar do		.chop	Removes the last	==	Values Equal?				
			character		!=	Values Not Equal?			
		.strip	Removes all whitespace, tabs, new		>	Left op greater than Right op?			
le Classifications		.chomp	lines & carriage returns Removes the last		<	Left op Less than Right op?			
_	e_name Local Variable			character if it's a new line or carriage return		>=	Left op greater than or		
BLE	Constant Variable		[start,		-		equal to Right op?		
able_name Instance		end]	Returns a substring		<=	Left op less than or equal to Right op?			
_ Variable		.to_i	Converts	to integer	<=>	Spaceship: returns 0 if			
riable	_na Class Vari	able	+	Concater	Concatenates strings		ops are equal, 1 if Left		
	Assignment		.index(position	Returns the character in the specified position			op is greater than Righ op and -1 if Left op is less than Right op		
hing is an object so es do not have explicit data) .clear	Removes	all content		A case comparative for when control structure			
			Function	n Structure	9	.eql?	Values Equal for both		
s		def methodName end			type and value?				
(para How many times the param appears in the String		<pre>def methodName (param1, param2) end</pre>		.equal?	Values are the same object?				
				Logical	Operators				
				and, &&	AND				
(pos, Inserts the param in) the position of the String		No Return Statements. No need for ()'s with no parameters.		or,	OR				
				not, !	NOT				
e	e Converts all characters to		Operato						
uppercase		Arithmeti		perators					
case Converts all		+	Ad	dition					

Subtraction

Multiplication

Division

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Arrays		Arrays (con	t)	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, element2,	Creates array with the specified elements	array.each { x } array.each_ index{ i }	Iterates over each element in the array iterates over each index in the array	Hash.new(default)	hash map where if key or value cannot be found, default value is returned.	map.keys map.values	Returns an array of all the keys in the hash map Returns an array of	
] array[index	Returns the element		y can hold elements of	map = Hash["key1	Creates a hash map with 2 key-value	map.values	all the values in the hash map	
J array.lengt h	value at index Returns the size of the array	Ranges		" => pairs value1, "key2" =>		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 end point	value2,] map = Hash["key1	Creates a hash map with 2 key-value	map.inspect	Returns the current state of the hash map	
array.pop array.unshi	Removes the element from the end Adds the params as	range = startend	Creates a range from start to end	" => value1, "key2" => value2,]	pairs	map.each { k, v }	Iterates over each key-value pair in the hash map	
ft param	separate elements to the front	range = startend	inclusive Creates a range from start to end	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 array.rever	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 Ite	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	map		Class Structure	
array.inclu de? param	Returns true if the param exists in the array	range.last Re param ele	Returns the last element. Param can be added to provide	key map.delete	that corresponds to the key Deletes the key-value	class className1 @instVariable @@clssVariable		
array.uniq	uniq Returns an array of only the unique elements Above ea		more than just the last. function can be used nd) or (startend) as	param	pair with the key param	 attr_acces :instVaria 		

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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 r	Instance variable getter			
attr_write r	Instance variable setter			
attr_acce sor	Instance variable getter and setter			
classNa me.new	Method called to create the specified object			
	No overloading methods in Ruby.			

Multiple classes can be written in the same file.

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