Cheatography

Ruby Cheat Sheet

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

General Remarks about the Language	Control St
IRB is an interactive Ruby Shell good for starting out. (\$ irb)	end someVar.
Ruby does not need to be compiled (most of the time) since it is interpreted.	
Everything in Ruby is an object.	for each
Ruby variables don't have types - only objects do.	Variable C
Ruby wants you to omit ()'s and ;'s	
Ruby will make you happy so enjoy.	VARIABLE
Control Structure	@variable_
if [conditional]	@@variab me
	=
<pre>[conditional] ? true block : false block</pre>	Everything variables d types
	Strings
if [conditional]	length
elsif [conditional] else end	.count(para m)
	.insert(pos
end	param)
until [conditional]	.upcase
end	.downcase
case someVar when [condition] when [condition] (as many whens as needed)	.swapcase
else end	.reverse

rol Structure (cont)		Strings (cont)			Operato	
eVar.e	/ar.each do x		.split	Breakes up a String on		%
War.each { x }			whitespace and stores all those strings in an array		**	
					Compare	
each x in someVar do end		.chop	Removes the last character		==	
					!=	
		.strip Removes all whitespace, tabs, new		w	>	
able Classifications			lines & carriage retu	rns	<	
ble nar	ne	Local Variable	.chomp	Removes the last		
ABLE		Constant		line or carriage retur	n	>=
riable n	ame	Variable Instance	[start, end]	Returns a substring		<=
		Variable	.to_i	Converts to integer		<=>
variable	_na	Class Variable	+	Concatenates string	S	
		Assignment	.index(position	Returns the character the specified position	∍r in า	
ything is an object so bles do not have explicit data) .clear	Removes all content			
5			Function		.egl?	
gs			Tunction			
the Length of the String		def methodName end			.equal?	
nt(para	How	many times the	def methodName (param1,			
	para	m appears in the	1		Logical	
	Strin	g	No Betur	n Statements		and, &&
rt(pos,	Inser	ts the param in	No need	for ()'s with no		or,
 the position of the String 		parameters.			not, !	
ase Converts all characters to uppercase		Operato	rs			
		acters to ercase	Arithmeti	c Operators		
ncase Converts all		verts all	+	Addition		
	chara	haracters to	-	Subtraction		
lowercase		*	Multiplication			
ocase	Conv	/erts all		D		

Division



rs (cont)

Modulus Exponent Operators Values Equal?

C

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uppercase characters lowercase & lowercase to uppercase

Reverses the order of the characters

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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 } array.each_	Iterates over each element in the array iterates over each	Hash.new(default)	hash map where if key or value cannot be found, default value is returned. Creates a hash map with 2 key-value pairs	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,]		index{ i }	index in the array	map =		map.values	Returns an array of all the values in the	
array[index]	Returns the element value at index	different obje	ct types.	Hash["key1 "=>		map.sort	hash map Sorts the keys of the	
array.lengt h	Returns the size of the array	Ranges		value1, "key2" =>		·	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 pairs	map.inspect	Returns the current state of the hash map	
array.pop	Removes the element from the end	range = startend	Creates a range from start to end	<pre>value1, "key2" =></pre>		map.each { k, v }	Iterates over each key-value pair in the hash map	
array.unsni ft param	Adds the params as separate elements to the front	range =	inclusive Creates a range	value2,] map["key3" 1 = value3	Adds a key-value	map.each_k ey { k }	Iterates over each key in the hash map	
array.shift	Removes the element from the front	startend range.to_a	exclusive	nap.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	
array.rever	Reverses the order of		Converts a range to an array					
array.shuffl	Randomly shuffles up	range.each	Iterators through each element	maps.has_ value?	Returns true if the value exists as a value in the hash map Returns the value	alue { v }	value in the hash	
array.sort	Sorts the array of elements	range.inclu de? (param)	Returns true if the param exists in the Range	map.fetch		Class Structure		
array.inclu de? param	Returns true if the param exists in the	range.last param	st Returns the last element. Param can	key that corresponds to the key	class className1 @instVariable			
array.uniq	Returns an array of only the unique	be added to provide more than just the last.		param	param pair with the key param		<pre>@@clssVariable attr_accessor</pre>	
	elements	Above each function can be used with (startend) or (startend) as				:instVariable		

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Class Structur	re (cont)
def	initialize
end	
def	classMethod1 param
end	
end	
class class	Name2
end	

Class Detail	ls		
Initialize	A method that is called internally when .new is called to create the object.		
attr_reader	Instance variable getter		
attr_writer	Instance variable setter		
attr_acces or	Instance variable getter and setter		
classNam e.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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