

Ruby Essentials for Kids Cheat Sheet

by Simon Fermor (Simon Fermor) via cheatography.com/1330/cs/4499/

Command Line

From the command prompt run Ruby, providing the name of a file with source code:

\$ ruby my_source-code.rb

Interactive Ruby

The Interactive Ruby Shell can be used for interactive programming:

\$ irb

>>

Loading files

In IRB, files can be loaded using the load command:

>> load 'script_name.rb'

Input

gets gets a string e.g.: direction = gets.chomp

Indentation

Useful but not necessary.

If / Else Loops

if my_variable_is_true &&
my_other_variable_is_true
 dos ome thing
elseif !my_ne xt_ var iab le_ is_ false
 dos ome thi ngelse
else
 dothis

for loop - next

next skips to the next element

Unless

end

unless my_variable_is_true
 # dosome thing

Console output

Use puts to display output.

Object methods

object_id The object ID

Data Types

Boolean true or false
numbers
strings ' or " quoted

Number methods

odd

even

String Methods

* Repeat string
length Number of characters in the string
reverse A string with characters listed in reverse
to_sym Convert to symbol

String Interpolation

Can be used to insert variable values in a double quoted string:

"String with interpolation: #{variable_name}"

Operators + 2+2 - 5-3 * 5*3 / 8/2 next The next number pred The predecessor

Logical Operators		
&&	and	
II	or	
!	not	

Comparison operators

<	less than
>	greater than
<=	less than or equal to
>=	greater than or equal to
!=	not equal to

Ranges

.. from first to last

... from first to predecessor before last

Symbols

Created using:

eg string_test = :test_symbol

More efficient than strings - only stored

once

Symbol methods

to_s To string

Arrays

Described in [] with items delimited by commas:

meal = ['breakfast', 'lunch', 'dinner']



end

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Array methods

new	Create an array
<<	Append to the end of an array
empty?	Is array empty
shift	Remove front element from array
unshift	Add new element at front of array
рор	Remove element from end of
	array
push	Add element to end of array

Array loop

```
for my_placeholder in my_array
  next if someth ing _is _true
  do_ som ething
end
```

Array loop example 2

```
my_array.each do
|my_placeholder|
  next if someth ing _is _true
  do_ som ething
```

Array loop example 3

```
my_array.each { |my_placeholder|
next if something_is_true
do_something }
```

Hashes

Contain key value pairs. Can use symbols for keys.

Hash methods

has_key?	Has the key
has_value?	Has the value
my_hash[:my_key] = my_value	Set has value

References

Ruby Wizardry by Eric Weinstein

Defining Methods

```
def my method(argument 1,
           arg ume nt_ wit -
h d efault = 1,
           *sp lat _ar gument)
   # method body
   # use return keyword to
return a value
   # better practice to omit
return keyword
  puts " arg ume nt_1: #{argu -
men t_1 }"
  puts " arg ume nt wit h d -
efault: #{argu men t w ith de -
fau lt} "
    return splat.l ength
end
```

Yield in Blocks

The yield keyword is used to invoke a calling block from within a method. Control is passed back to the method after the block has been invoked.



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