Cheatography

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
  dosomething
elseif !my_next_variable_is_false
  dosomethingelse
else
  dothis
end
```

for loop - next

next skips to the next element

Unless

```
unless my_variable_is_true
  # dosomething
end
```

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
||	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']

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
pop	Remove element from end of array
push	Add element to end of array

Array loop

```
for my_placeholder in my_array
  next if something_is_true
  do_something
end
```

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Array loop example 2

```
my_array.each do |my_placeholder|
  next if something_is_true
  do_something
end
```

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,
      argument_with_default = 1,
      *splat_argument)
  # method body
  # use return keyword to return a value
  # better practice to omit return keyword
  puts "argument_1: #{argument_1}"
  puts "argument_with_default: #
{argument_with_default}"
  return splat.length
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.