

RubyForBeginners Cheat Sheet

by laurennicoleroth via cheatography.com/26292/cs/7316/

Ruby Variables	
local variable	local_variable
instance variable	@instance_variable
class variable	@@class_variable
global variable	\$global_variable

class variable	@@class_variable
global variable	\$global_variable
Ruby Data Ty	pes
String	"Sequence of
	characters." Or
	'Sequence of characters.'
Symbol (identifier)	:a_symbol,
(identifier)	:another_symbol, :name
Integer	42, 100, 1002, -256
Float	1.1, 3.1415926, 5.5, -
(floating	128.6
point)	
Numeric Methods	+, -, *, /, %
Comparison Operators	==, !=, >, >=, <, <=
Return	Last line of a ruby
Value	method/block/expression in IRB
Boolean	true or false
nil	counts as false in Ruby,
	everything counts as true
Array (0	letters = ["a", "b",
indexed)	"C"]
letters[2	#returns "c"
]	
letters[1	["a", "monkey", "c"]
] =	

ERB	
ERB	Embedded Ruby for making dynamic HTML templates
erb:hello	Sinatra looks in "views" folder for hello.erb file
Show @tweets	<% if @tweets %> <% @tweets.each do tweet %> <%= tweet %> <% end %> <% end %>
Instance Variables	Any instance variables you declare in your routes, will be accessible in these erb files

Ruby Expressions	
seen_it = "seen again"	Save string to variable
num = 3	Save integer to variable
other_num = 5	Save another integer to another variable
<pre>answer = (num + other_num) * 6</pre>	Save result of adding/multiplying.

String Interpolation		
dog_speak =	puts "Dogs say #	
"woof!"	{dog_speak}"	
or	puts "Dogs say " +	
	dog_speak	

Conditionals		
if/else	if input == admin_password	
	admin_logged_in = true	
	else	
	<pre>puts "Sorry, wrong password."</pre>	
	end	

Useful Ruby Methods		
split	Breaks a string into an array.	
join	Takes an array and joins into a string.	
upcase	Makes characters capital letters.	
reverse	Reverse characters in a string.	
sample	Randomly choose element.	
map	Do the same thing to every element.	

Research	
Cmd+Click (Mac) or Ctrl+Click	Open links in new tabs.
ruby-doc.org ("The Ruby Docs")	Ruby coding best practices.
Stack Overflow	Oops. Research your error.
Guides and blog posts	Has someone done this before?



"monkey"

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Sinatra		
Sinatra	Framework for building a web server written in Ruby	
Routing	Action taken in response to request	
Path	text and slashes after domain	
http://localh ost:4567/he llo	Sinatra looks for get '/hello'	
	get '/hello' do	
	#code to return a	
	response to the browser	
	end	
String Response	get '/hello'	
	"Hello, friendly web	
	traveler!"	
	end	
HTML File Response	get '/hello' do	
	erb :hello	
	end	
Get tweets route	get '/' do	
	@tweets =	
	<pre>\$client.user_timeline.map</pre>	
	{ tweet tweet.text }	
	erb :index	
	end	
Redirect	Get server to run code in get '/' route	

Array Meth	nods
push	Add to end of array:letters << "elephant" or letters.push("elephant")
<<	Shovel operator. Push to end of array.
unshift	Add element to beginning of array: letters.unshift("zebra")
pop	Remove from end of array.
shift	Remove from start of array.
.method (argum ents)	Call a method with arguments. Some methods require no arguments.
letters .pop	Method without arguments.
Hashes	
Instantiate a Hash (hash rockets)	<pre>person = {:name => "Lauren", :age => 89, :sex => "female"}</pre>
Instantiate a Hash (shortcut)	<pre>person = {name: "Lauren", age: 89, sex: "female"}</pre>
Access value by key.	<pre>person[:name] # returns "Lauren"</pre>
Update value by	person[:age] = 12

Remove value by key.	<pre>person.delete(:sex) # returns "female"</pre>	
Methods		
Greeting Meth Accepts Name		
	<pre>return "Welcome, # {name}"</pre>	
	end	
Call Greeting Method	<pre>create_greeting("La uren")</pre>	
	<pre>#returns 'Welcome, Lauren"</pre>	
Upcase On Ca To Greeting Method	create_greeting("La uren").upcase	
Arguments	Input given to methods.	
Parameters	Define what can be passed to a method.	
Return value	Output from a function	
Implicit Return	Returning last line of method without explicit "return"	
Command Lir	ne	
Ruby Down gems softw \$ Get F	olload, install, and use ruby are packages on your system Ruby Version	
\$ Load	Load up interactive Ruby	

Hashes (cont)



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female"

person[:gender] = "cis

Insert key,

value pair.

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irb



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Command Line (cont)	
\$ gem install	Install sinatra gem
sinatra	
\$ gem install	Install twitter gem
twitter	
\$ ruby	Tell Ruby interpreter to
server.rb	run code.
Ctrl+C	Stop server from
	running.

Web and HTTP	
Server	has IP address, processes requests made by the (client) browser
HTTP	protocol enabling communication between clients and servers
HTTP Verbs	GET, POST, PUT, PATCH, DELETE
GET	Request Tweets(data) from Twitter API
POST	Submit Tweet(data) to Twitter API
https:	scheme
twitter.com	domain
lauren_n_roth/stat us/6999964284295- 61856	•
Params hash	params[:tweet]

Loops	
times	10.times do
	puts "Hello!"
	end
times loop with counter	10.times do counter
	puts "#{counter}"
	end
each	letters = ["a", "b", "c"]
	letters.each do letter
	puts "Letter #{letter}"
	end
map	<pre>capital_letters = letters.map do letter </pre>
	letter.upcase
	end
block style	<pre>letters.each { letter puts "Upcase # {letter.upcase}!" }</pre>
elegant map method	<pre>capitals = letters.map { letter letter.upcase }</pre>

Twitter API	
Download files	bit.ly/dbc-twitter-sinatra
Sign Up To Use Twitter API	apps.twitter.com
Create New App	Create new App 2. Create Access Tokens 3. Ensure permissions are read/write

Twitter API (cont)	
Set up Twitter \$client global variable	require twitter
	<pre>\$client = Twitter::REST::Client.new do config </pre>
	<pre>config.consumer_key = "YOUR_CONSUMER_KEY" config.consumer_secret = "YOUR_CONSUMER_SECRET" config.access_token = "YOUR_ACCESS_TOKEN" config.access_token_secret = "YOUR_ACCESS_SECRET"</pre>
Get	end \$client.user_timeline
user timeline	
Send tweet	<pre>\$client.update("omg I am tweeting from the command line. So cool!")</pre>



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