

Ruby Variables

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

Ruby Data Types

String	" Sequence of character Sequence of characters."
Symbol (identifier)	:a_symbol, :another_symbol, :name
Integer	42, 100, 1002
Float (floating point)	1.1, 3.1415926, 5.5, -128.6
Numeric Methods	+, -, *, /, %
Comparison Operators	==, !=, >, <
Return Value	Last line of a ruby method/block/expression in IRB
Boolean	true or false
nil	counts as false in Ruby, everything counts as true
Array (0 indexed)	letters = ["a", " b", " c"]
letters[2]	#returns "c"
letters[1] = " mon key "	["a", " mon key ", " 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"	
num = 3	
other_num = 5	
answer = (num + other_num) * 6	

String Interpolation

dog_speak = " woo f !"	puts "Dogs say #{dog_speak} !"
or	puts "Dogs say " + dog_speak

Conditionals

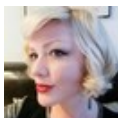
if/else	if input == admin_password admin_logged_in = true else puts " Sorry, wrong password." end
---------	---

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

integer to variable	Cmd+Click (Mac) or Ctrl+Click	Open links in new tabs.
variable	Ruby-doc.org ("The Ruby Docs")	Ruby coding best practices.
another integer to another variable	Stack Overflow	Oops. Research your error.
Save result of adding/multi-plying.	Guides and blog posts	Has someone done this before?



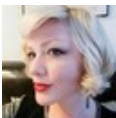
By laurennicoleroth

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Sinatra	Array Methods	Hashes (cont)
Sinatra	Framework for building a web server written in Ruby	Add to end of array: <code>letters < person.delete(:sex) # r</code>
Routing	Action taken in response to request	Remove value by key: <code>< " elephant" or value by key: "s.p ush ("el eph ant ")</code>
Path	text and slashes after domain	Shovel operator. Push to end of array.
<code>http://localhost:4567/hello</code>	Sinatra looks for <code>get '/hello'</code>	Methods
	<code>get '/hello' do</code>	Greeting Method - Accepts Name
	<code>#code to return a response to the browser</code>	<code>def create_greeting</code>
	<code>end</code>	<code>return "Welcome, #{name}"</code>
String Response	<code>get '/hello'</code>	<code>end</code>
	<code>"Hello, friendly web traveler!"</code>	Call
	<code>end</code>	Greeting Method
HTML File Response	<code>get '/hello' do</code>	Some methods require no arguments.
	<code>erb :hello</code>	Method without arguments.
	<code>end</code>	Uppcase On Call To Greeting Method
Get tweets route	<code>get '/' do</code>	Parameters
	<code>@tweets = \$client.get_timeline.map { tweet tweet.text }</code>	Return value
	<code>erb :index</code>	Return
	<code>end</code>	Implicit Return
Redirect '/'	Get server to run code in <code>get '/'</code>	Returning last line of method with explicit "return"
	Hash (shortcut)	Command Line
	Access value by key.	Ruby gems
	Update value by key.	Download, install, and use ruby software packages on your system
	Insert key, value pair.	<code>\$ ruby -v</code> Get Ruby Version
		<code>\$ irb</code> Load up interactive Ruby



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Command Line (cont)

\$ gem install sinatra	Install sinatra gem
\$ gem install twitter	Install twitter gem
\$ ruby server.rb	Tell Ruby interpreter to 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/status/699-996-428-429-561856	path
Params hash	params [:tweet]

Loops

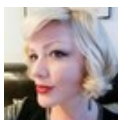
times	10.times do
	puts "Hello!"
	end
times loop with counter	10.times do counter
	puts "#{counter}"
	end
each	letters = ["a", "b", "c"]
	letters.each do letter
	puts "Letter #{letter}"
	end
map	capital_letters = letters.map do letter
	letter.upcase
	end
block style	letters.each { letter puts "Uppcase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

Twitter API (cont)

Set up	require twitter
Twitter \$client	global variable
	\$client = Twitter::REST::Client.new do client
	config.consumer_key
	secret = "YOUR_ACCESS_TOKEN"
	end
Get user timeline	\$client.user_timeline
Send tweet	\$client.update("omg I tweet")

Twitter API

Download files	bit.ly/dbc-twitter-sinatra
Sign Up To Use Twitter API	apps.twitter.com
Create New App	1. Create new App 2. Create Access Tokens 3. Ensure permissions are read/write



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