

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 ke y "	["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.
Save 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?



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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: <code>s.push ("elephant ")</code></code>
Path	text and slashes after domain	Shovel operator. Pushes all 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>	Uppercase On Call To Greeting Method
Get tweets route	<code>get '/' do</code>	Parameters
	<code>@tweets = \$client.user_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 without explicit "return"
		Command Line
		Ruby gems
		Download, install, and use ruby software packages on your system
		\$ ruby -v
		Get Ruby Version
		\$ irb
		Load up interactive Ruby



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Command Line (cont)

<code>\$ gem install sinatra</code>	Install sinatra gem
<code>\$ gem install twitter</code>	Install twitter gem
<code>\$ ruby server.rb</code>	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	<code>params[:tweet]</code>

Loops

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

Twitter API (cont)

Set up Twitter \$client global variable	<code>require twitter</code>
	<code>\$client = Twitter::REST::Client.new do client </code>
	<code> config.consumer_key = "YOUR_API_KEY"</code>
	<code>end</code>
Get user timeline	<code>\$client.user_timeline('omg_tweets')</code>
Send tweet	<code>\$client.update('omg I love Ruby!')</code>

Twitter API

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



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