Time	~ 1 hour
Learning Goals	• Compare and contrast Ruby and JavaScript • Get familiar with JavaScript syntax

Hope you had fun yesterday applying some cool effects to your website using jQuery. As you would have already known by now, jQuery was built based on JavaScript. So today, we would like to go back to basics and get our hands dirty with raw JavaScript. Learning a new syntax is always challenging. But you will soon see the similarities between JavaScript with what we have learn in Ruby.

The table below shows the different syntaxes between Ruby and JavaScript for various concepts. We have done a few for you. Spend some time to look up the rest of the syntax so that it sinks more into you! :) The w3schools website has a comprehensive list of JS syntax for your reference.

Concept	Ruby	JavaScript
Commenting	#this is a comment	//this is a comment
Output to console	puts/print	console.log("..")

Declaring a function/method	def name(par1, par2)
	
	 #code here
	
	end
		function name(par1, par2) {
		
		 //code here
		
		}ts/print

Declaring a variable	a = 2	var a = 2;

while loop	while condition do
	
	 code here
	
	end
		while (condition) {
		
		 //code here
		
		}

if..else loop		
Booleans		
Comparison operators		

Array manipulation and functions		
String manipulation and functions		
Indexing	starts from 0	starts from 0

See how <u>similar</u> these two languages actually are despite the different syntax? This is actually the same for most programming languages - the basic concepts such as loops, booleans, comparison operators are similar, it's the syntax that's different. All we need is to keep practising the new language that we are learning, just like what you did in Week 1!

We may not have a lot of time to do JavaScript drills throughout this bootcamp, but you will still have chances to practise your JavaScript by using it for your front-end design. Remember, you have 3 apps and 1 final project - there will be lots of interesting JavaScript functions for you to explore for these 4 apps!

Note:

If you are wondering why we still have to learn JavaScript when we already know jQuery, here are 3 reasons:

1. jquery performs slower than raw JavaScript;
2. JavaScript knowledge is crucial when debugging;
3. JavaScript fundamentals allow you to learn trending front-end frameworks like React, Angular, etc.

Read this [Stack Overflow answer](#) as well.