

# JavaScript Structure

1. Declare Global Variables
2. Declare Constructor functions - name should be capitalized!
3. Declare regular functions
4. Call functions

```
1 //declare global variables at the top of your file
2 var globalVariable1 = 'hello';
3 var globalVariable2 = [0, 1, 2];
4
5 //create an instance of PersonConstructor and save it to the sam variable
6 //note that we can do this before the constructor function declaration
7 var sam = new PersonConstructor('Sam', 'Hamm');
8 //now sam = { firstName: 'Sam', lastName: 'Hamm' }
9
10 //then put any object constructors
11 function PersonConstructor(first, last) {
12     this.firstName = first;
13     this.lastName = last;
14 }
15
16 //then put any prototype functions that go with the object constructor
17 //call this function on an instance of PersonConstructor
18 PersonConstructor.prototype.sayHello = function() {
19     console.log('Hello, my name is ' + this.firstName);
20 }
21
22 //then put regular function declarations
23 function firstFunction(parameter) {
24     console.log(parameter);
25 }
26
27 function secondFunction(myArray) {
28     for (i = 0; i < myArray.length; i++) {
29         console.log(myArray[i]);
30     }
31 }
32
33 //finally, call your functions
34 firstFunction(globalVariable1);
35 //logs 'hello'
36 secondFunction(globalVariable2);
37 //logs 0
38 //    1
39 //    2
40 sam.sayHello();
41 //logs 'Hello, my name is Sam'
```