VARIABLES

Declaring a variable: let age; Assigning a variable: age = 29;

Both in one step: let age = 29;

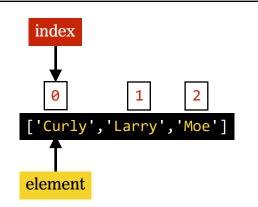
DATA TYPES

String	Literal characters, enclosed in quotes "about"
Number	Numbers treated as numeric values (not in quotes)
Array	Collection of data ["Larry", "Curly", 15,42]

EQUAL SIGNS

assigns value on right to object on left
 evaluates whether values on left and right are the same

ARRAYS



ARITHMETIC OPERATORS

+	add (also concatenates strings)
-	subtract
*	multiply
/	divide
%	modulus (remainder)

SPECIAL NUMBER OPERATORS

Math.pow(m,n)	Returns m to the power of n
Math.sqrt(n)	Returns the square root of n
Math.random()	Returns a random number between 0 (inclusive) and 1 (exclusive)
Math.floor(n)	Returns largest integer less than or equal to n
<pre>Math.ceil(n)</pre>	Returns smallest integer greater than or equal to n

COMPOUND OPERATORS

+=	adds a number to a variable and assigns the new value to the same variable
-=	subtracts a number from a variable and assigns the new value to the same variable
++	adds 1 to a value
	subtracts 1 from a value

ARRAY HELPER METHODS

toString()	Returns a single string consisting of the array elements converted to strings and separated by commas	reverse()	Reverses the array
join()	Same as toString(), but allows you to pass a custom separator as an argument	shift()	Removes and returns the item at the start of the array
pop()	Removes and returns the item at the end of the array	unshift()	Adds one or more items to the start of the array
push()	Adds one or more items to the end of the array		

ARRAY ITERATOR METHODS

forEach()	Executes a provided function once per array element	filter()	Creates a new array with all elements that pass the test implemented by the provided function
every()	Tests whether all elements in the array pass the test implemented by the provided function	map()	Creates a new array with the results of calling a provided function on every element in this array
some()	Tests whether some element in the array passes the text implemented by the provided function		

```
Usage: Example:
arrayName.method(function() {
    // do something
});
friends.forEach(function() {
    // do something
});
```

LOOPS

```
Runs while a condition is true, and includes
syntax to declare and customize the iterator
for
                                                                           for (variable; condition; iteration) {
                                                          at the start
                                                                              // do something
                                                                          }
while
                                    Runs while a condition is true
                                                                          while (condition) {
                                                                              // do something
                                                                          }
                    Runs while a condition is true, and ensures that the code block is executed at least once
do while
                                                                           do {
                                                                             // do something
                                                                           } while (condition)
```