



DATA TYPES

VARIABLES:

Declaring a variable: `let age;`
 Assigning a variable: `age = 29;`
 Both in one step: `let age = 29;`

EQUAL SIGNS

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

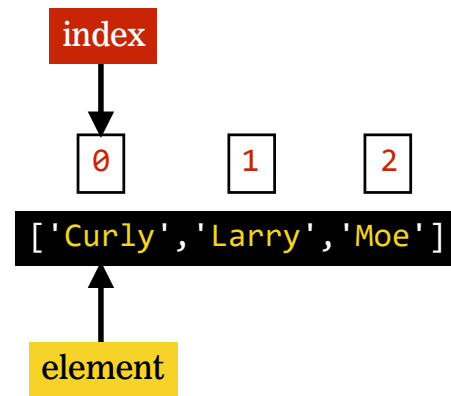
DATA TYPES:

String Literal characters, enclosed in quotes
`"about"`

Number Numbers treated as numeric values (not in quotes)
`15`

Array Collection of data
`["Larry", "Curly", 15, 42]`

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
`Math.ceil(n)` 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

`join()` Same as `toString()`, but allows you to pass a custom separator as an argument

`pop()` Removes and returns the item at the end of the array

`push()` Adds one or more items to the end of the array

`reverse()` Reverses the array

`shift()` Removes and returns the item at the start of the array

`unshift()` Adds one or more items to the start of the array

ARRAY ITERATOR METHODS:

`forEach()` Executes a provided function once per array element

`every()` Tests whether all elements in the array pass the test implemented by the provided function

`some()` Tests whether some element in the array passes the test implemented by the provided function

`filter()` Creates a new array with all elements that 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

Usage:

```
arrayName.method(function() {  
  // do something  
})
```

Example:

```
let friends = ['Curly', 'Larry', 'Moe'];  
  
friends.forEach(function() {  
  // do something  
})
```

STRINGS:

Escaping strings: `'It\'s a beautiful day'` `"They \"purchased\" it"`