JAVASCRIPT - DAY 1

VARIABLES

VARIABLES

Variables are used to store values.

Variables are declared using the 'var' keyword.

EXAMPLE:

Using the equals sign assigns values on the right

to the variable on the left.

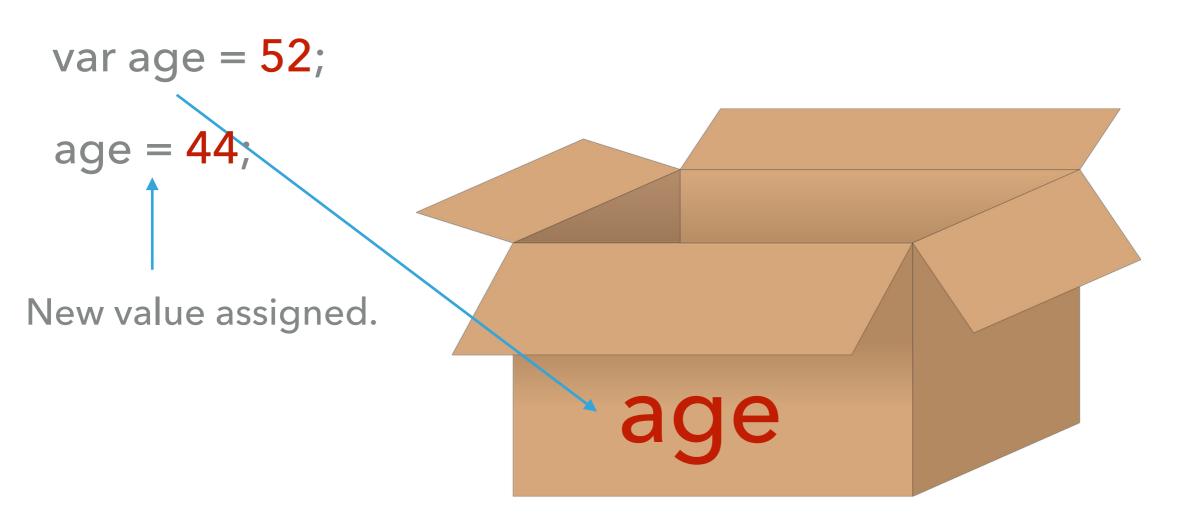
var myName = "Bruce Wayne";
∴...*

The string value "Bruce Wayne" is now stored

in the variable 'myName'.

VARIABLES

You can think of a variable as a box that we can store data inside of.



JAVASCRIPT -DAY 1

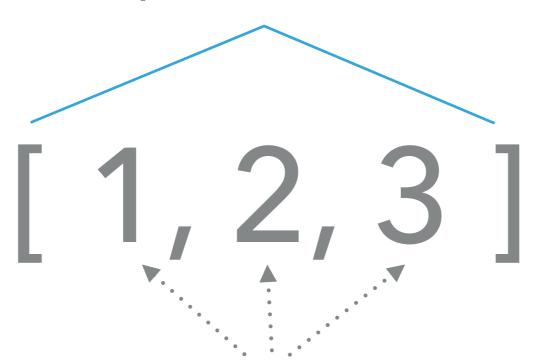
DATA TYPES

DATA TYPES

Boolean	true/false
Null	null
Undefined	undefined
Number	9
String	'LOTR'
Object	{id: 2}
Array	[1, 2, 3]
Function	<pre>function() { }</pre>

ARRAY

Square brackets



Values, separated by commas.

Values in arrays can have multiple data types.

[1, '2', false] [true, 'cats', null]

OBJECTS

property

key

name

Opening curly bracket

 $var car = {$

make: 'Toyota', Value

model: 'Corolla',

color: 'red',

: 'red',

year: 2006

Key/value pairs

separated by commas.

Closing curly bracket

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IF STATEMENT

IF STATEMENTS

condition to test

var five = 5;

if (five ===5) {

block of code that runs if condition evaluates to true

console.log('Five is awesome cause it equals 5');

} else {

block of code that runs if condition evaluates to false

console.log('five does not equal 5')

JAVASCRIPT - DAY 1

FUNCTIONS

FUNCTIONS

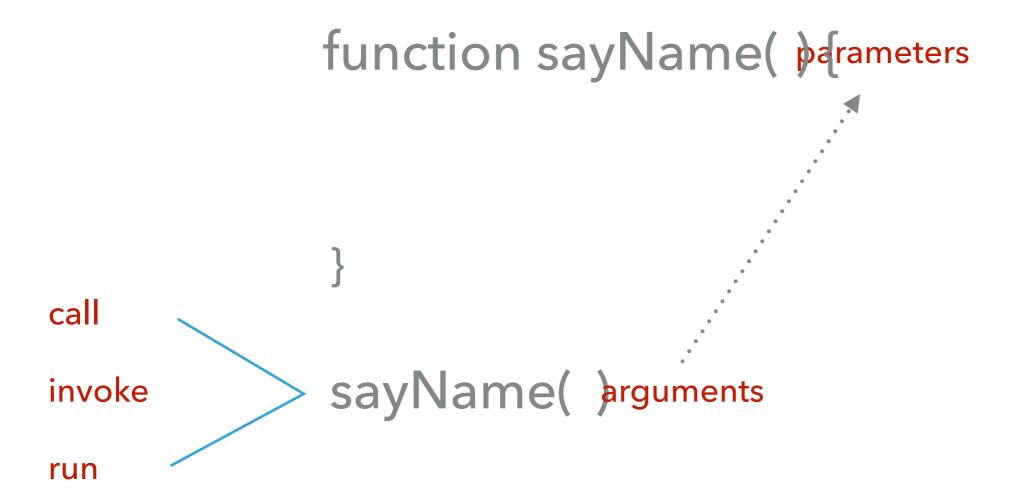
function expression:

function declaration:

```
var sayName = function() {
    alert('Fred');
}

function sayName() {
    alert('Fred');
}
```

FUNCTIONS



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JAVASCRIPT - DAY 1

RETURNING FROM FUNCTIONS

RETURNING FROM FUNCTIONS

When we invoke a function, we can have it return a value.

We do this by using a return statement.

```
function add() {

the function will compute the code to the right of the return statement, if necessary, then return the value to where the function was called

var num = 2;

function stops executing when it reaches return when it reaches return to return num + num; 

return num + num; 

var addedNums = add();
```

JAVASCRIPT - DAY 1

SCOPE

SCOPE

The context in which values and expressions are "visible," or can be referenced.

The global scope is "visible" to all of your code.

Scopes can also be layered in a hierarchy, so that child scopes have access to parent scopes, but not vice versa.

SCOPE

```
var name1 = 'Lucy';
```

Global variable. Can be seen by all code.

Functions have their own scope.

console.log(name2)

undefined

SCOPE

var color = 'blue'; Global scope console.log(color) Function scope var color = 'green'; console.log(color) Function scope **Function scope** console.log(color)

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E

LET

let allows you to declare variables that are limited in scope to the block, statement, or expression on which it is used. This is unlike the var keyword, which defines a variable globally, or locally to an entire function regardless of block scope. *

^{*} https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Statements/let

Let

```
function varTest() {
  var myName = 'Gary';
}
console.log(myName)
```

ERROR

```
function letTest() {
  let myName = 'Gary';
}
console.log(myName)
```

ERROR

LET

ERROR

LET

```
for (var i = 0; i < 4; i++) {
    // code
}
console.log( i );</pre>
```

```
// code
}
console.log( i );
```

for (let i = 0; i < 4; i++) {

5

ERROR

MINI-PROJECT