JS | Objects

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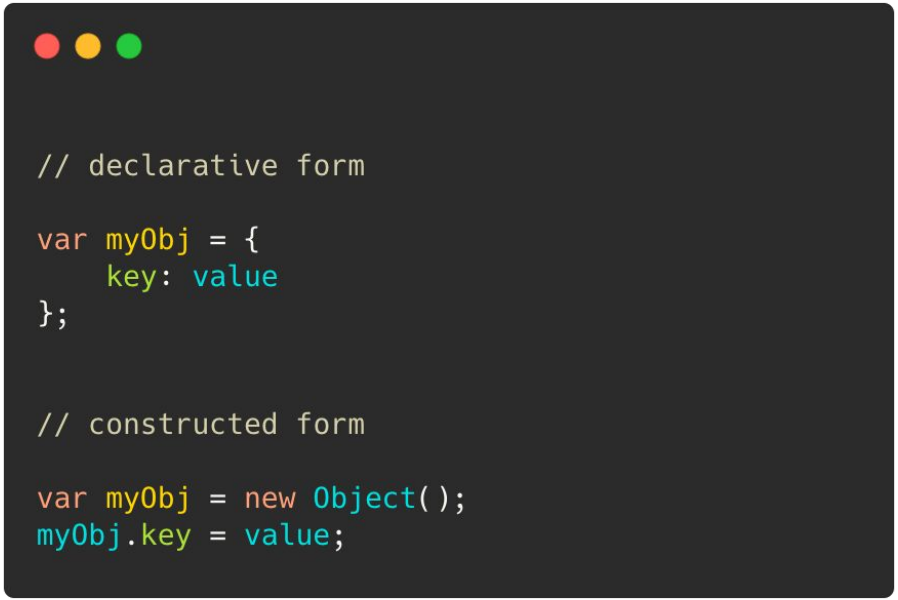
Built in object

- ➔ String
- ➔ Number
- ➔ Boolean
- ➔ Object
- ➔ Function
- ➔ Array
- ➔ Date
- ➔ Regex
- ➔ Error

~~Everything in Javascript is an object~~

Object Syntax



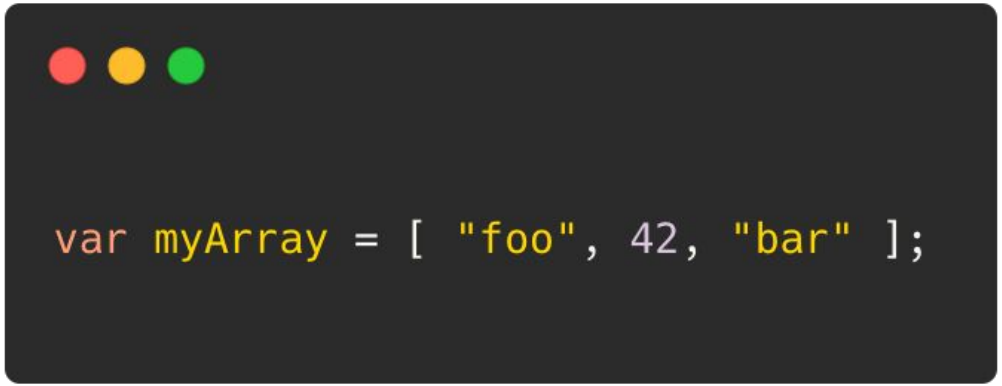
```
// declarative form

var myObj = {
    key: value
};


// constructed form

var myObj = new Object();
myObj.key = value;
```

Access Content

Trending Object Methods

- keys
- assign

Array Syntax



Access Content

```
var myArray = [ "foo", 42, "bar" ];

myArray.length;      // 3

myArray[0];          // "foo"

myArray[2];          // "bar"
```

Trending Array Methods

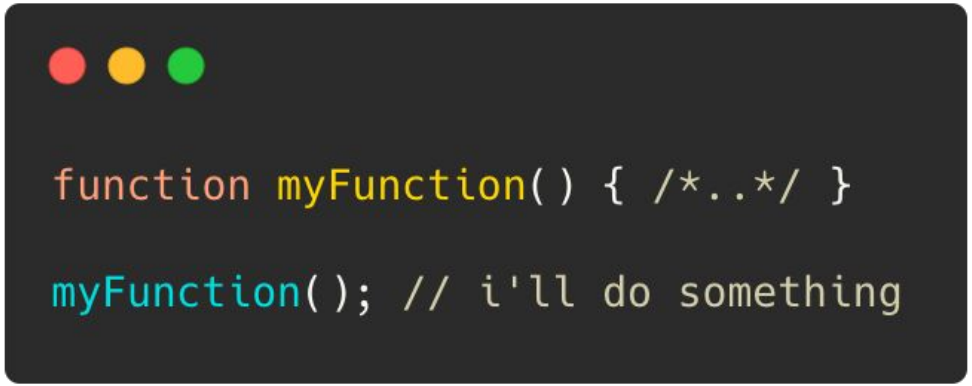
- ➔ forEach
- ➔ map
- ➔ filter
- ➔ reduce
- ➔ find
- ➔ findIndex
- ➔ push

Don’t forget Array is an object !

```
var myArray = [ "foo", 42, "bar" ];

myArray.baz = "baz";

myArray.length; // 3

myArray.baz;    // "baz"
```

Function Syntax

Call



Function is an callable object !

JS | Conditionals

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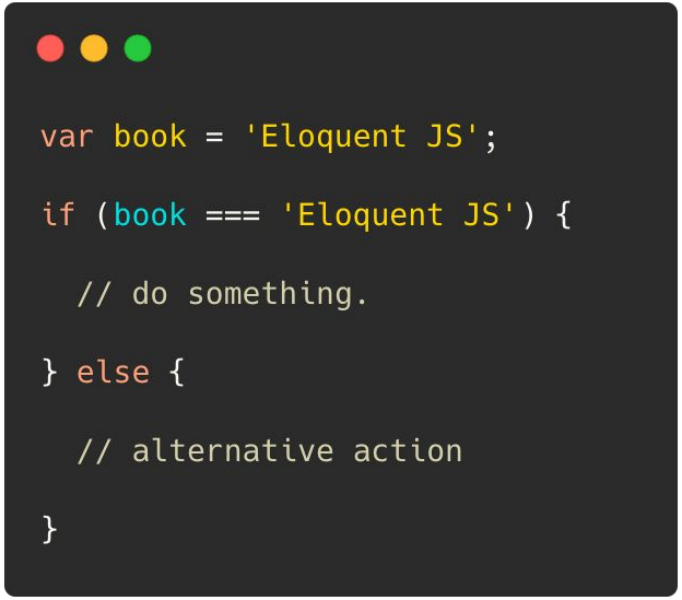
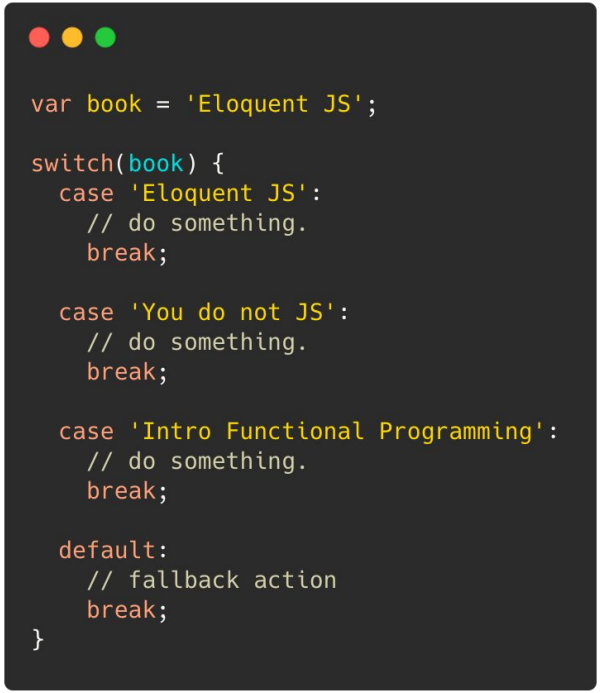
If / else statement



```
var book = 'Eloquent JS';

if (book === 'Eloquent JS') {

  // do something.

} else {

  // alternative action

}
```

switch statement



```
var book = 'Eloquent JS';

switch(book) {
  case 'Eloquent JS':
    // do something.
    break;

  case 'You do not JS':
    // do something.
    break;

  case 'Intro Functional Programming':
    // do something.
    break;

  default:
    // fallback action
    break;
}
```

JS

Loops

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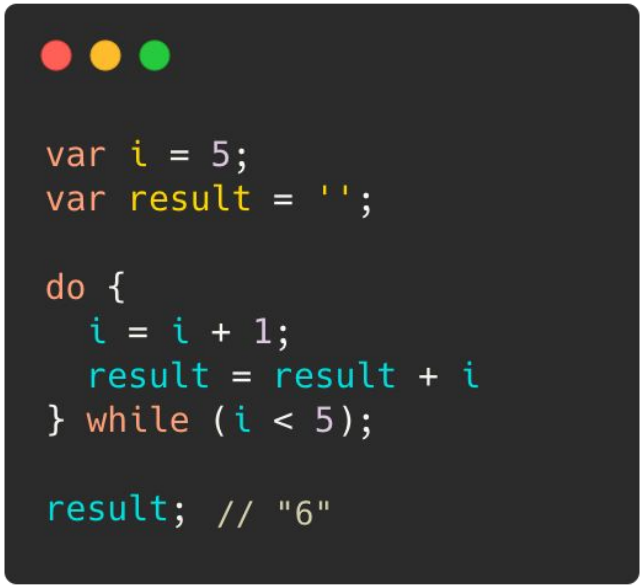
do ... while loop

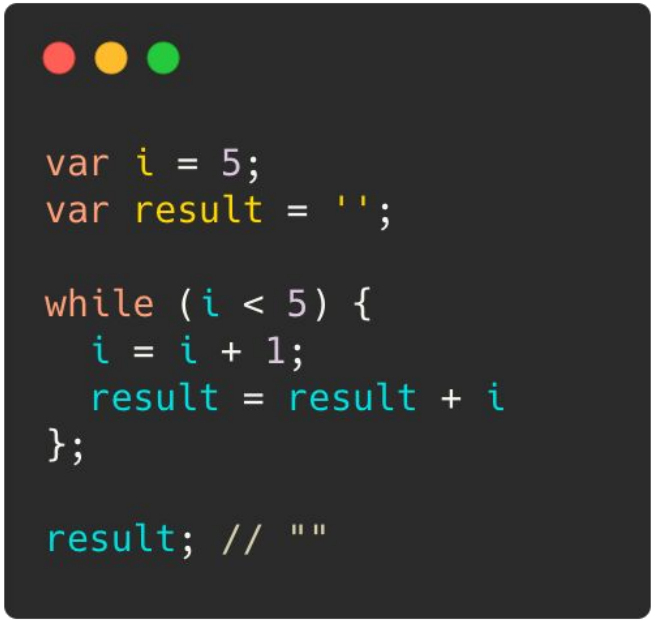


```
var i = 5;
var result = '';

do {
  i = i + 1;
  result = result + i
} while (i < 5);

result; // "6"
```

while loop

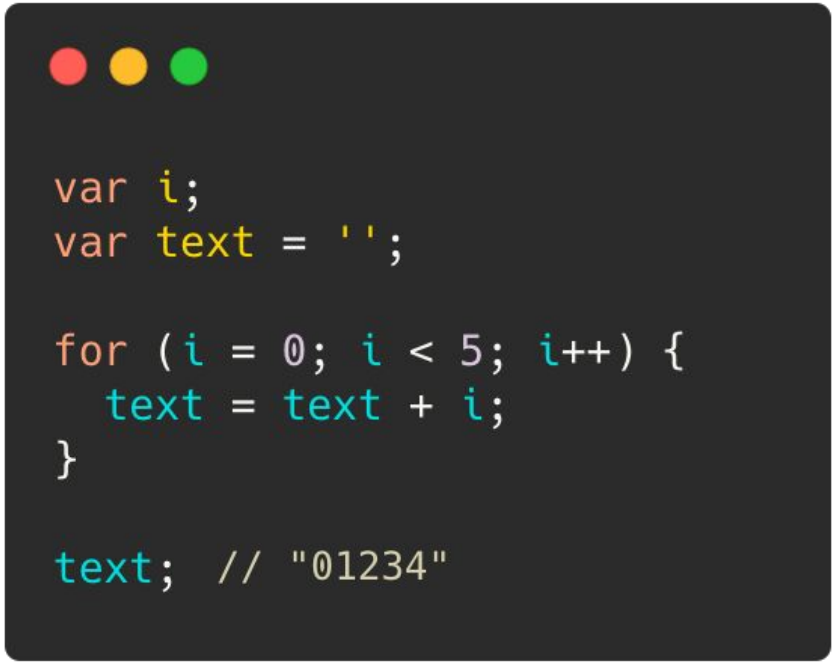


```
var i = 5;
var result = '';

while (i < 5) {
  i = i + 1;
  result = result + i
};

result; // ""
```

for loop



```
var i;
var text = '';

for (i = 0; i < 5; i++) {
  text = text + i;
}

text;  // "01234"
```

JS

Basic scope

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Variables

- ➔ var
- ➔ let
- ➔ const

Block scope

```
if (true) {
  var greeting = 'Hello guys!';
}

greeting; // Hello guys!
```

```
if (true) {
  const greeting = 'Hello guys!';
}

greeting; // ReferenceError
```

Activity

1. Create a **list** with at least **5 users**; users should include the following attributes **id, name, last name, email, and position** (where positions just can be **Associate Software Engineer** or **Software Engineer**, make sure mix them).

2. Regarding the step above, add **is training** attribute, where it'll be **true** if position is **Associated Software Engineer** and **false** otherwise. (Don't hardcode).

3. Finally, create a **printer function** which is going to display users **by attribute fulfilled**. For instance: Display all users where **position** is "Software Engineer"

You don’t know JS

https://github.com/getify/You-Dont-Know-JS

MDN Web Docs

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array