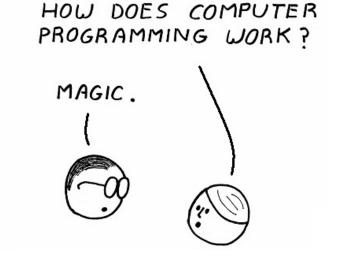
Learn Javascript

This book will teach you the basics of programming and Javascript. Whether you are an experienced programmer or not, this book is intended for everyone who wishes to learn the JavaScript programming language.



JavaScript (JS for short) is the programming language that enables web pages to respond to user interaction wond the basic level. It was created in 1995, and is today one of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programming a material framework of the most famous and used programme a material framework of the most famous and used programme a material framework of the most famous and used programme a material framework of the most famous and used programme a material framework of the most famous and used programme a material fram

Comments

Comments are statements that will not be executed by the interpreter, comments are used to mark annotations for other programmers or small descriptions of what your code does, thus making it easier for others to understand what your code does.

In Javascript, comments can be written in 2 different ways:

• Line starting with // :

```
// This is a comment, it will be ignored by the interpreter
var a = "this is a variable defined in a statement";
```

• Section of code starting with /* and ending with */, this method is used for multi-line comments:

<pre>/* This is a multi-line comment, it will be ignored by the interpret */ var a = "this is a variable defined</pre>	in a statement";			
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Exercise Mark the editor's contents as a common Mark me as a comment or I'll throw an error	from	Note 5 of	41	
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Indices

So you have your array of data elements, but what if you want to access a specific element? That is where indices come in. An **index** refers to a spot in the array. indices logically progress one by one, but it should be noted that the first index in an array is 0, as it is in most languages. Brackets [] are used to signify you are referring to an index of an array.

// This is an array of strings
var fruits = ["apple", "banana", "pineapple", "strawberry"];
// We set the variable banana to the value of the second element of
// the fruits array. Remember that indices start at 0, so 1 is the
// second element. Result: banana = "banana"

var banana = fruits[1];

Exercise

Define the variables using the indices of the array

var cars = ["Mazda", "Honda", "Chevy", "Ford"] var honda = var ford = var chevy = var mazda = **Notesale**.co.uk **from Notesale**.co.uk **preview from Notesal page** 23 of 41

Length

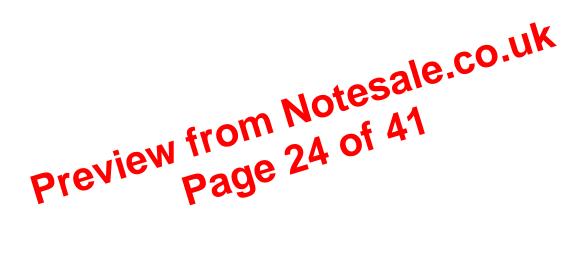
Arrays have a property called length, and it's pretty much exactly as it sounds, it's the length of the array.

var array = [1 , 2, 3];
// Result: l = 3
var l = array.length;

Exercise

Define the variable a to be the number value of the length of the array

```
var array = [1, 1, 2, 3, 5, 8];
var l = array.length;
var a =
```



Declaring Functions

Functions, like variables, must be declared. Let's declare a function double that accepts an **argument** called \times and **returns** the double of x :

```
function double(x) {
    return 2 * x;
}
```

Note: the function above may be referenced before it has been defined.

Functions are also values in JavaScript; they can be stored in variables (just like numbers, strings, etc ...) and given to other functions as arguments :

```
var double = function(x) {
    return 2 * x;
};
```

Note: the function above may not be referenced before it is defined, just like any other variable.

Exercise
Declare a function named `triple` that takes an argument and returns its triple
Exercise Declare a function named `triple` that takes an argument and returns its triple NoteS
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Reference

Objects are never copied. They are passed around by reference.

// Imagine I had a pizza
var myPizza = {slices: 5};
// And I shared it with You
var yourPizza = myPizza;
// I eat another slice
myPizza.slices = myPizza.slices - 1;
var numberOfSlicesLeft = yourPizza.slices;
// Now We have 4 slices because myPizza and yourPizza
// reference to the same pizza object.
var a = {}, b = {}, c = {};
// a, b, and c each refer to a
// different empty object
a = b = c = {};
// a, b, and c all refer to
// the same empty object

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