1. Loops, Conditional Statements, Functions, Variables, Parameters, Arrays, Associative Arrays
2. Object Creation Functions, Inheritance, Properties, Methods, Instantiation
3. JSON Parse, Stringify
4. Using XMLHTTPRequest to Consume a JSON Web Service
5. Local Storage API, Storing and Retrieving Simple Data, Arrays, Associative Arrays, and Objects
6. DOM Manipulation Using createElement, appendChild, insertBefore, removeChild, etc.
7. Manipulating CSS Class Properties Using JavaScript
8. Creating CSS3 Transitions and Animations in CSS and triggering them with JavaScript
9. Standard JavaScript Events Including those for Mobile Devices ( Ex. onTouchBegin, onLoad, etc.) and Animation and Transition Events
10. HTML5 Tags - Video, Audio, and Canvas
11. Designing, Defining, and Triggering CSS3 Transitions without Custom Libraries (Thought Library)
12. Designing, Defining, and Triggering CSS3 Transforms without Custom Libraries (Thought Library)
13. Designing, Defining, and Triggering CSS3 Animations without Custom Libraries (Thought Library)

**Loops, Conditional Statements, Functions, Variables, Parameters, Arrays, Associative Arrays**

**Loops**

Loops can execute a block of code a number of times.

Every loop includes a boolean condition. Each time the computer needs to decide if it should repeat the statements inside a loop, the

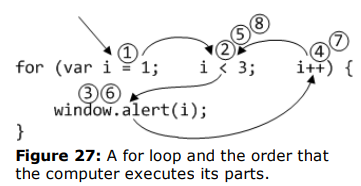
Computer evaluates the loop’s condition. If the condition evaluates to true, then the computer repeats the statements inside the loop.

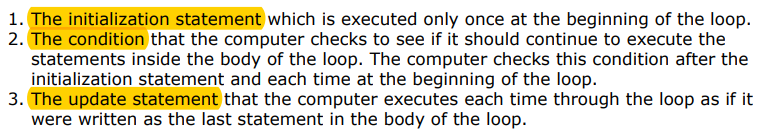
Different Kinds of Loops

JavaScript supports different kinds of loops:

* **for**- loops through a block of code a number of times
* **for/in**- loops through the properties of an object
* **while**- loops through a block of code while a specified condition is true
* **do/while** - also loops through a block of code while a specified condition is true

**For loop**

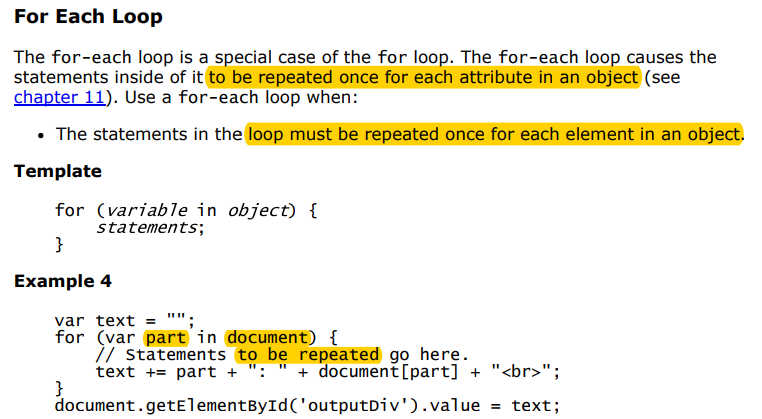




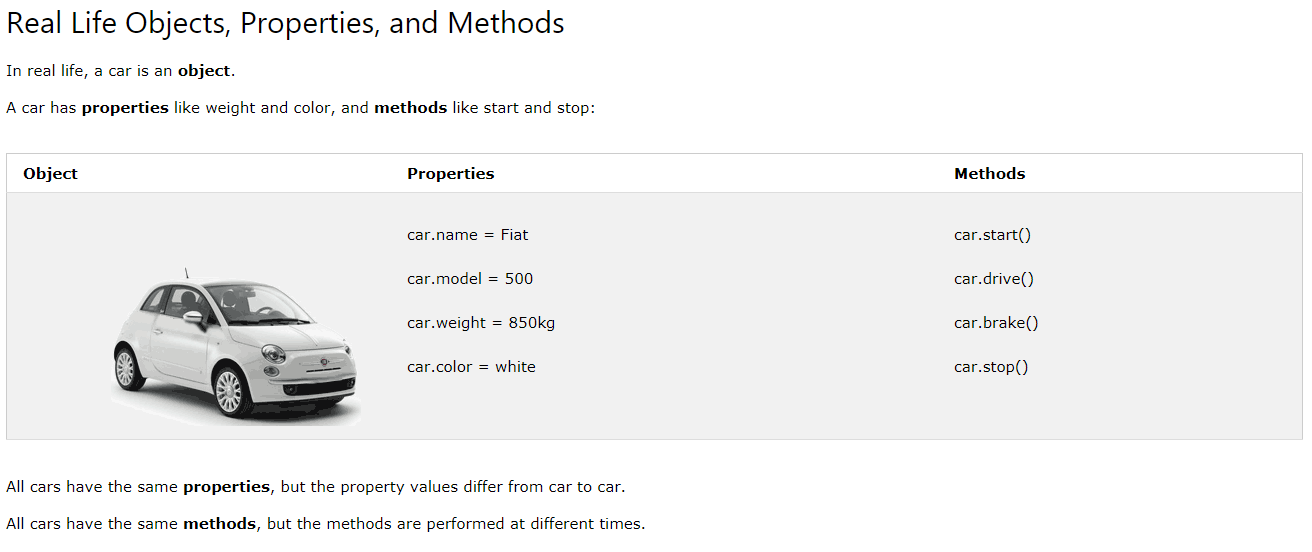
**Break, if you want to find a name without running the entire boucle.**

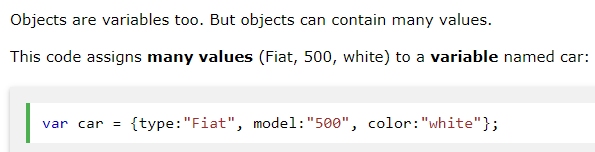


**FOR EACH LOOP**

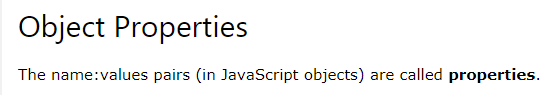


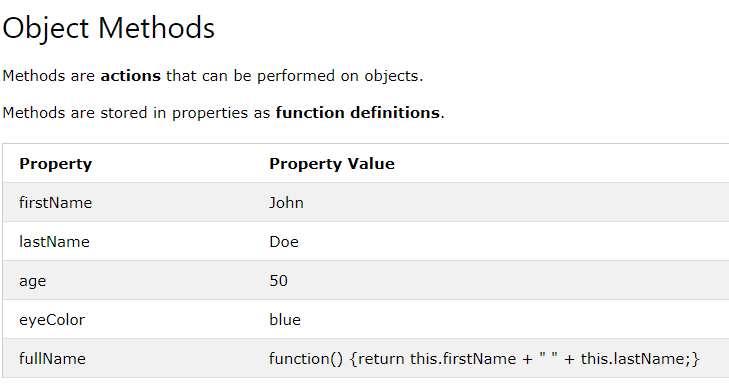
**OBJECTS**

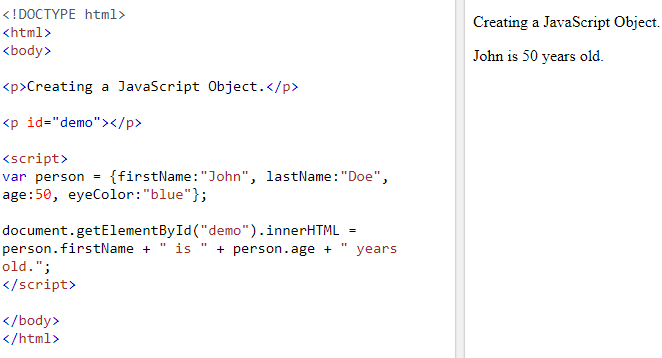


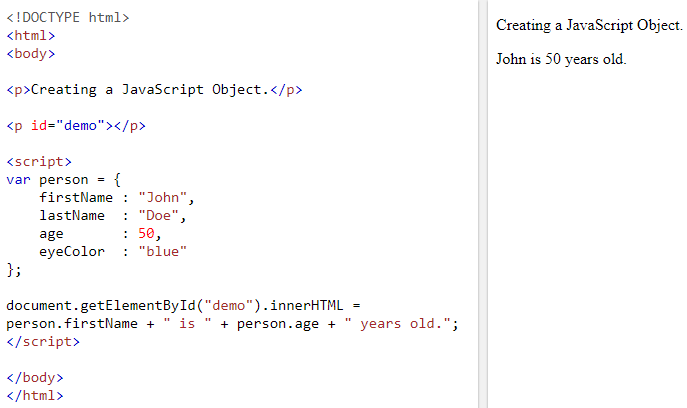


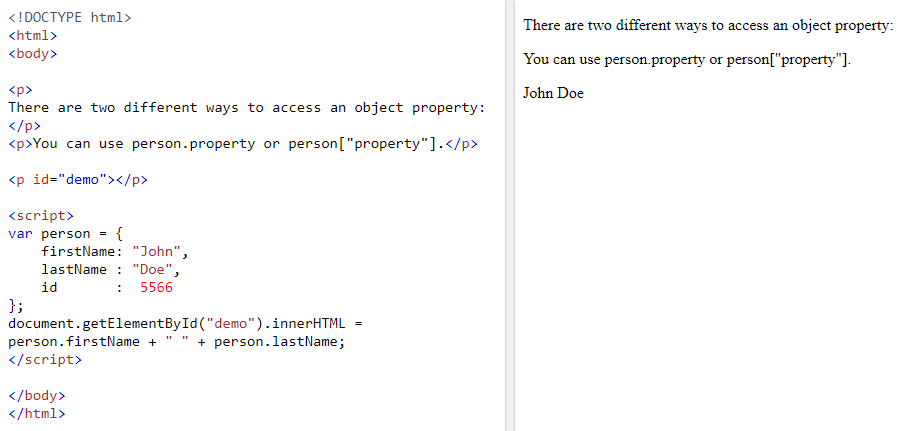


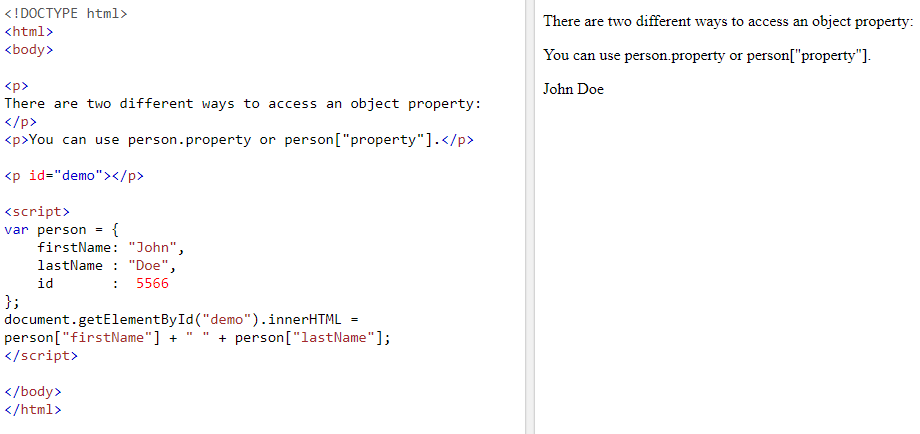


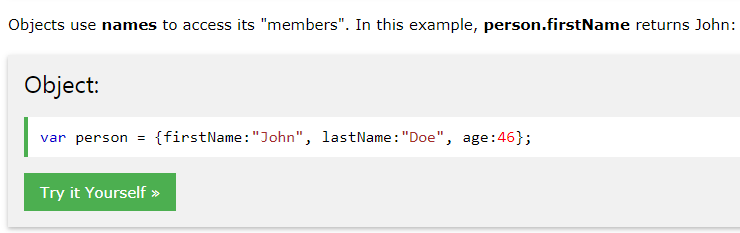




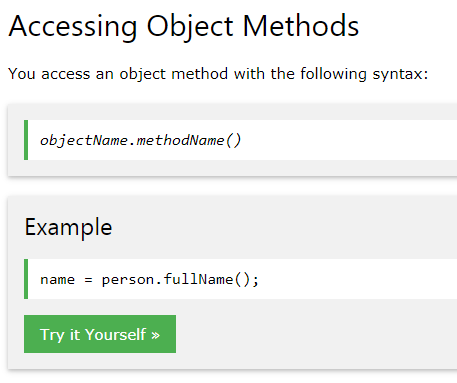


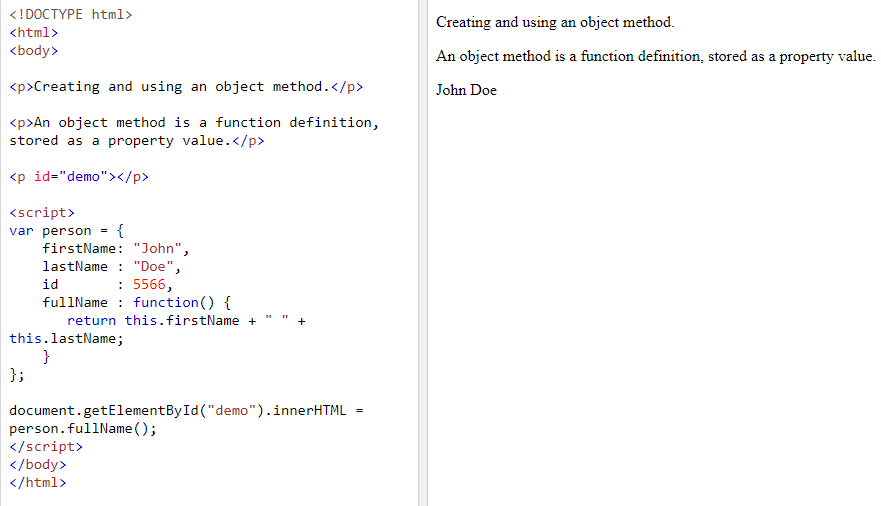






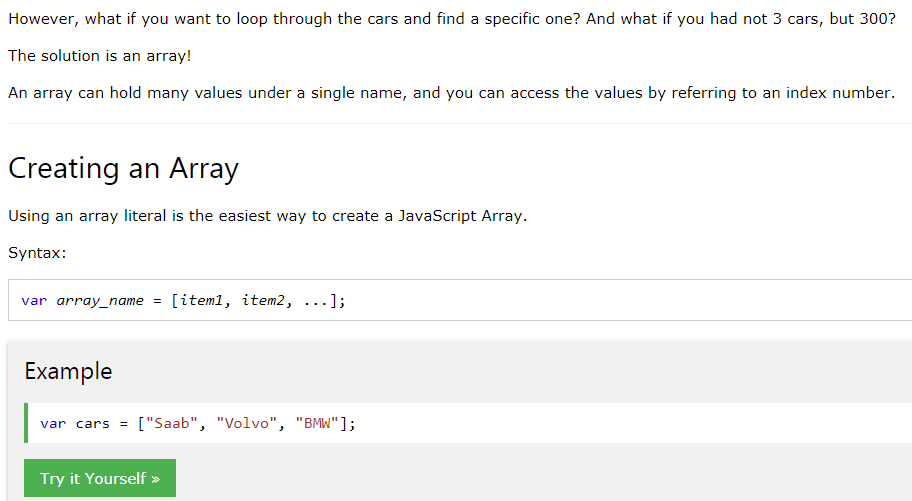


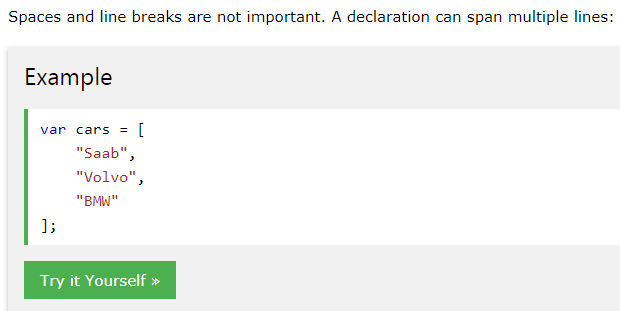


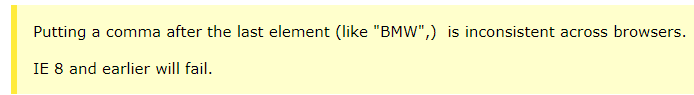


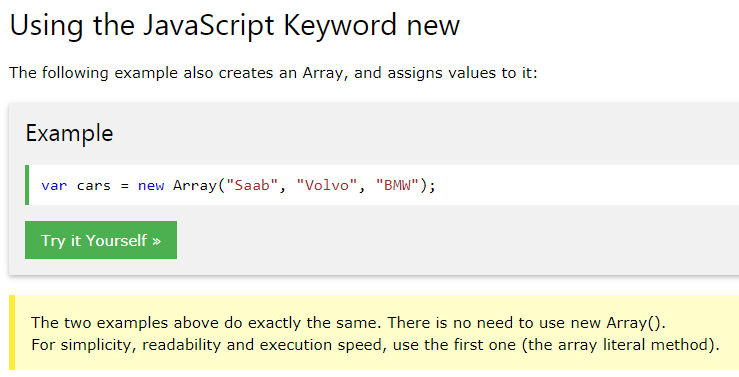
**ARRAYS**

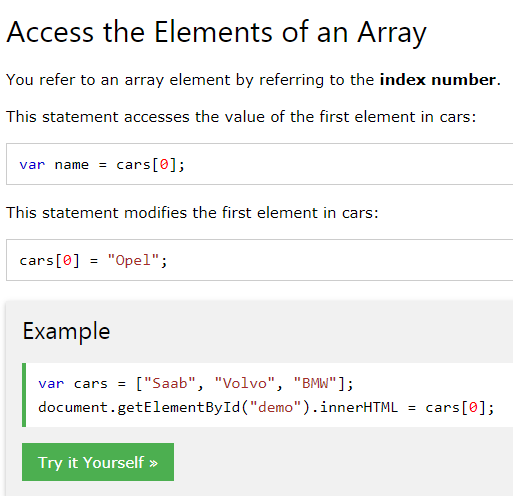


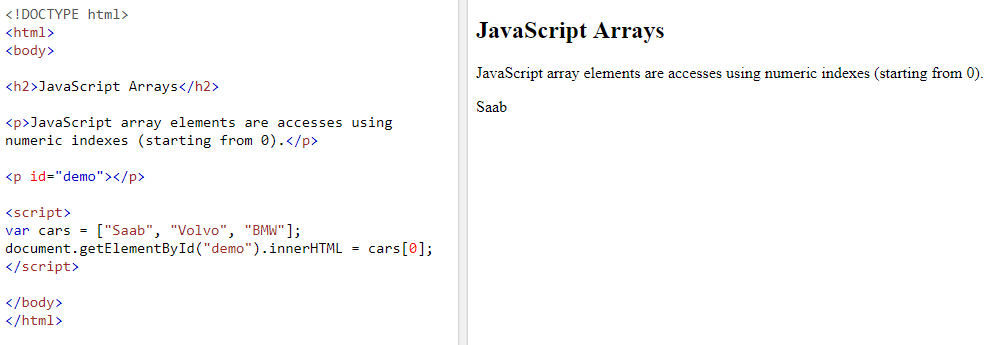




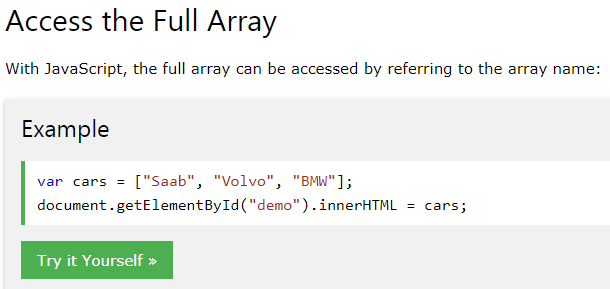


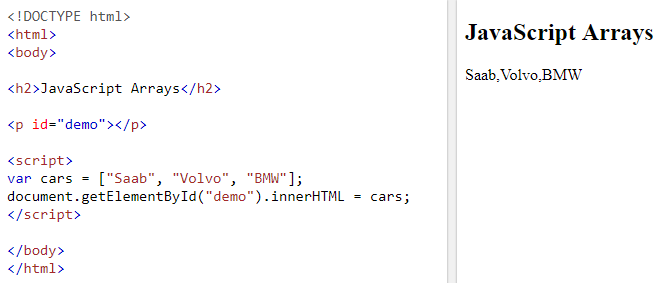


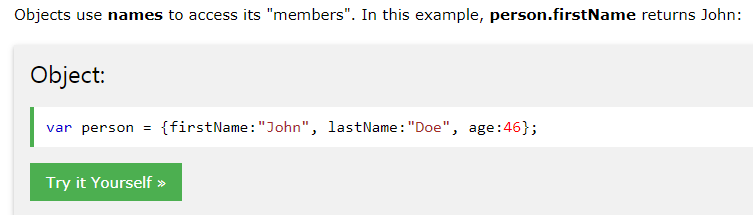


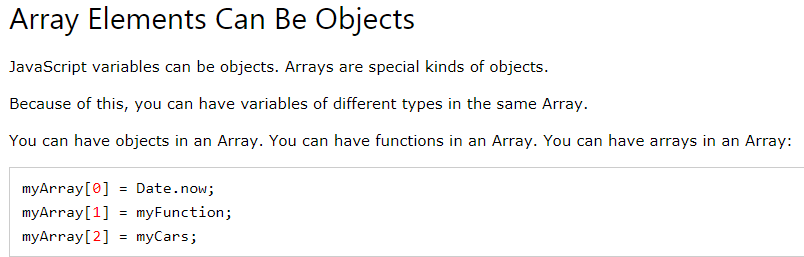


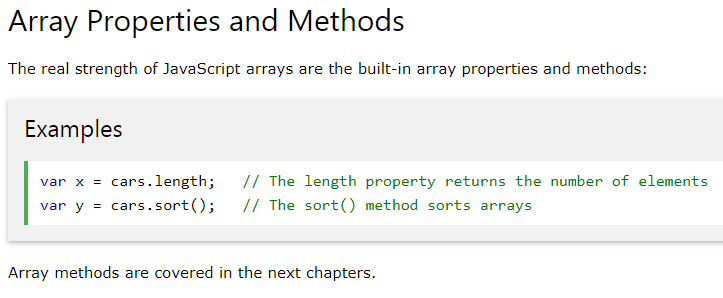
[0] is the first element in an array. [1] is the second. Array indexes start with 0.

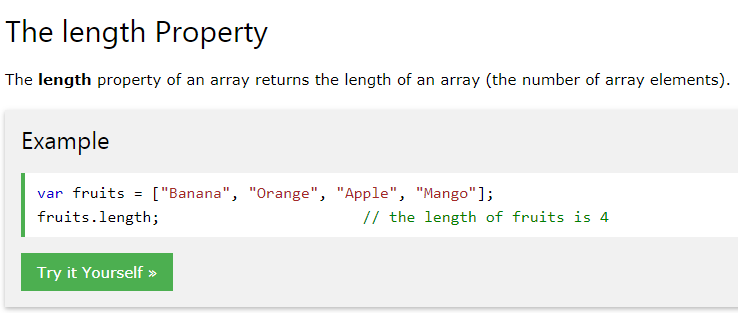


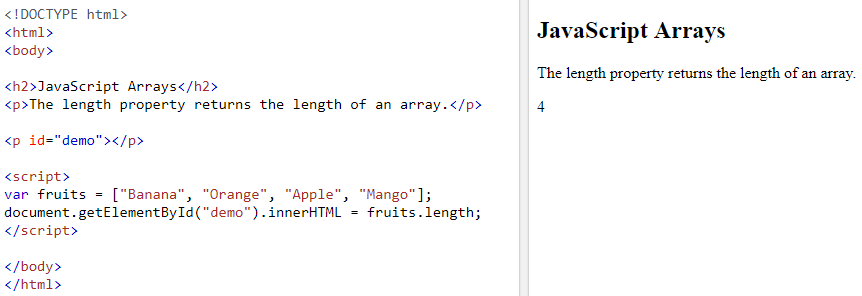


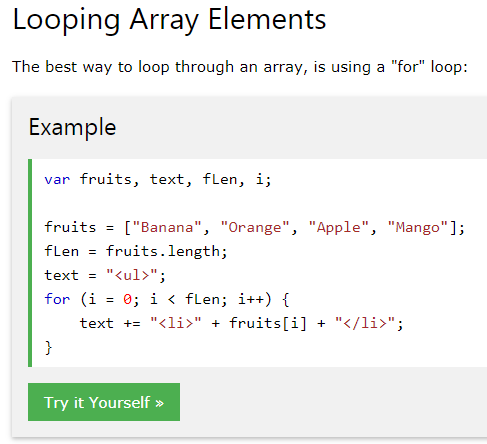


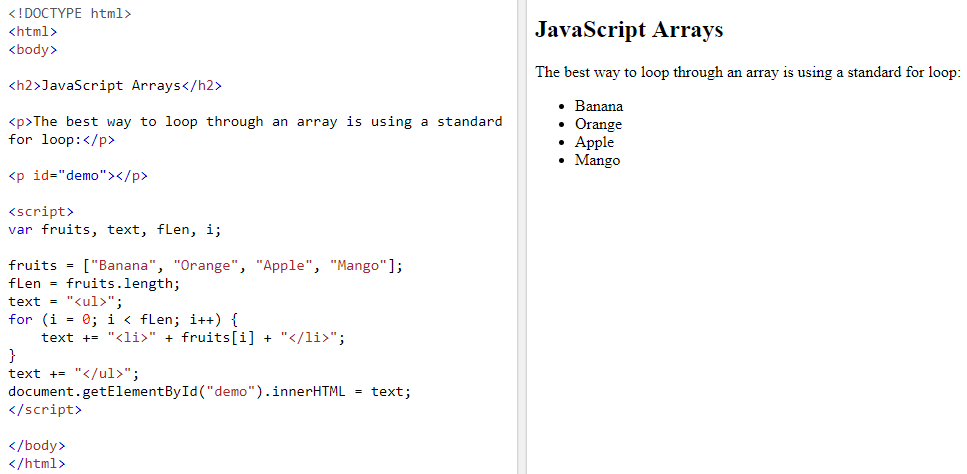


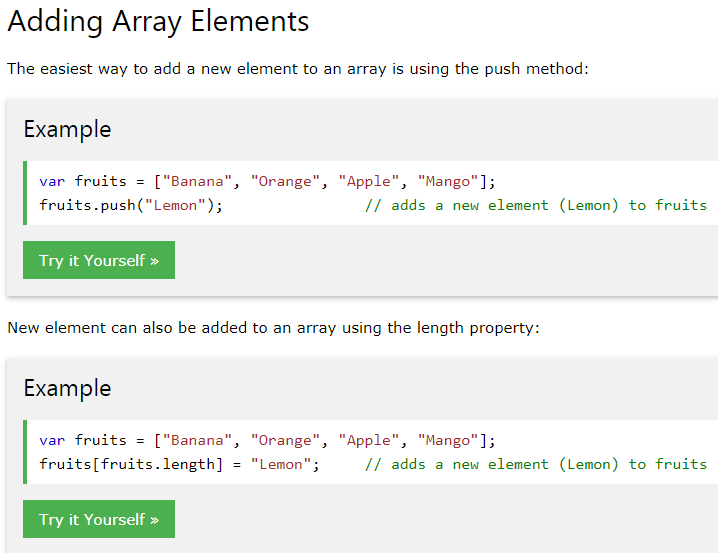




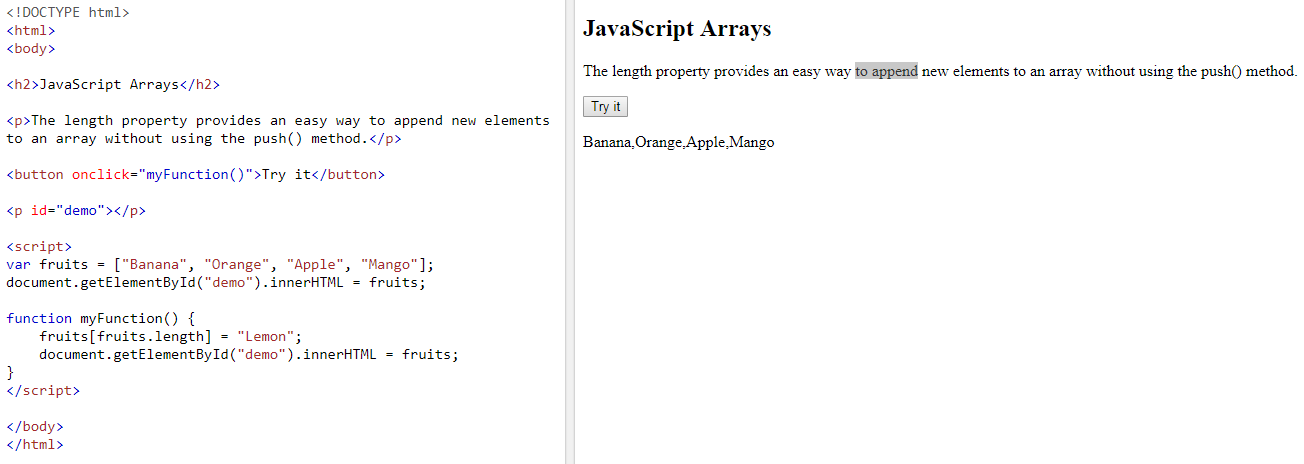


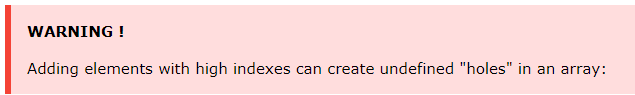


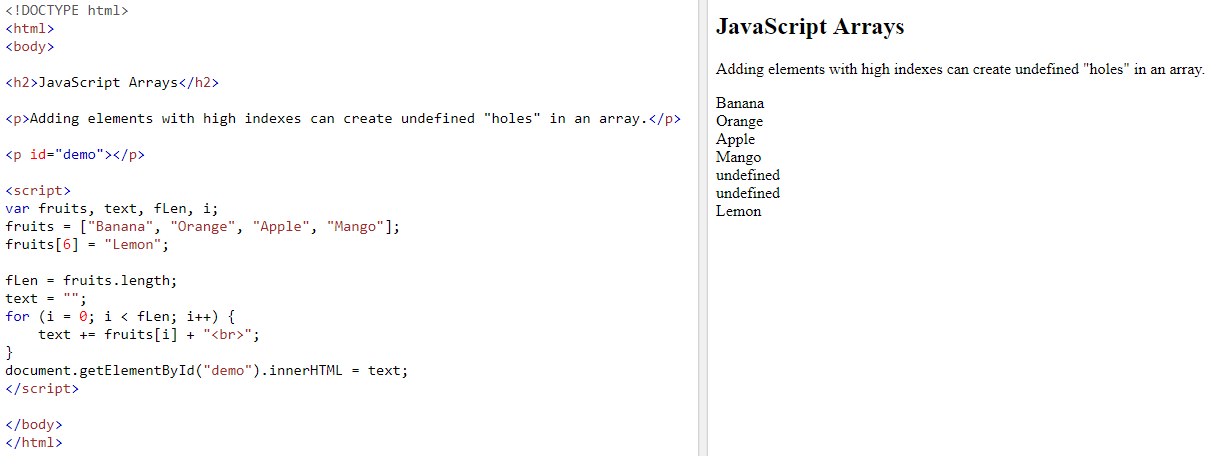


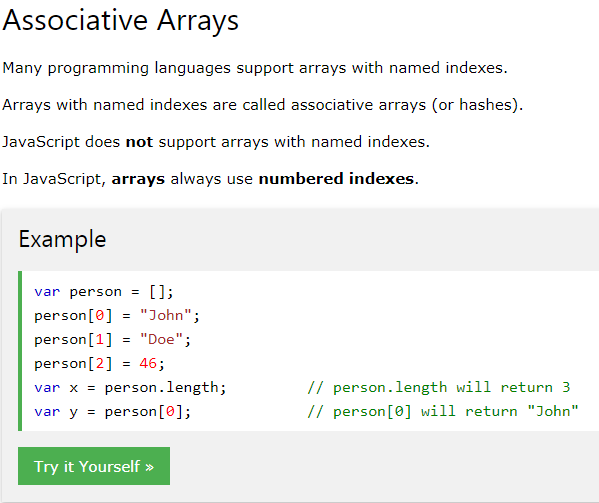


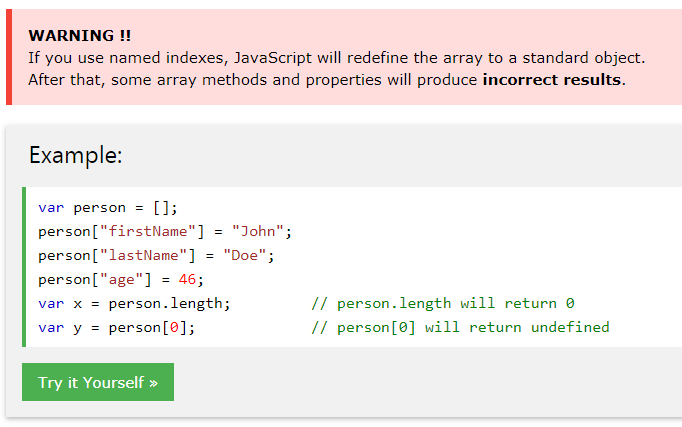


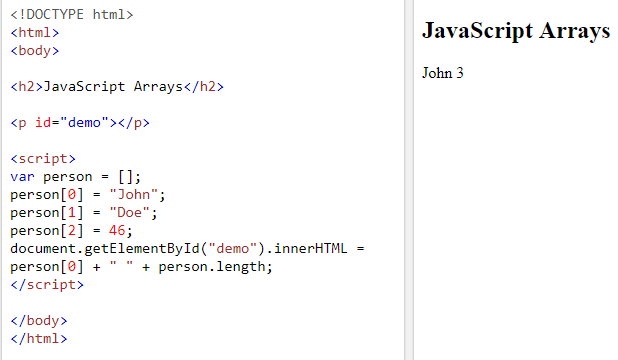


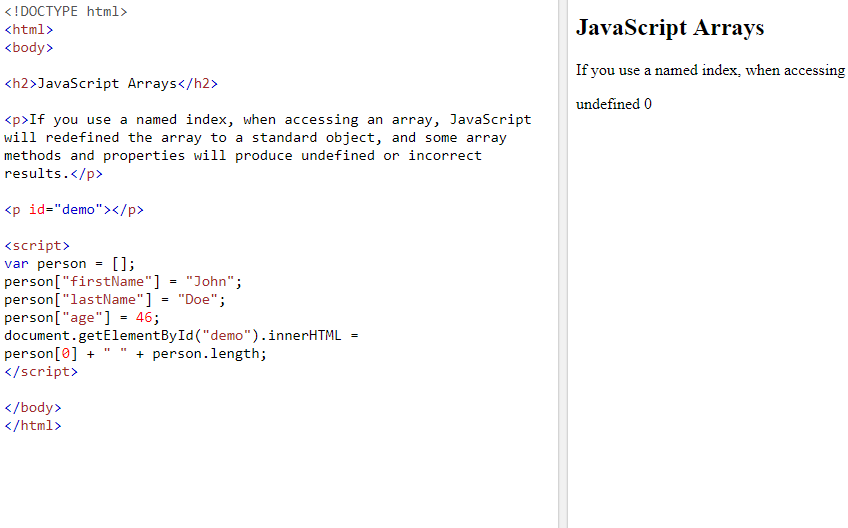


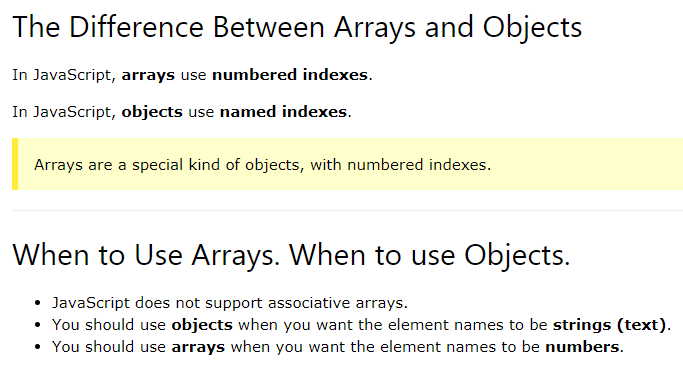


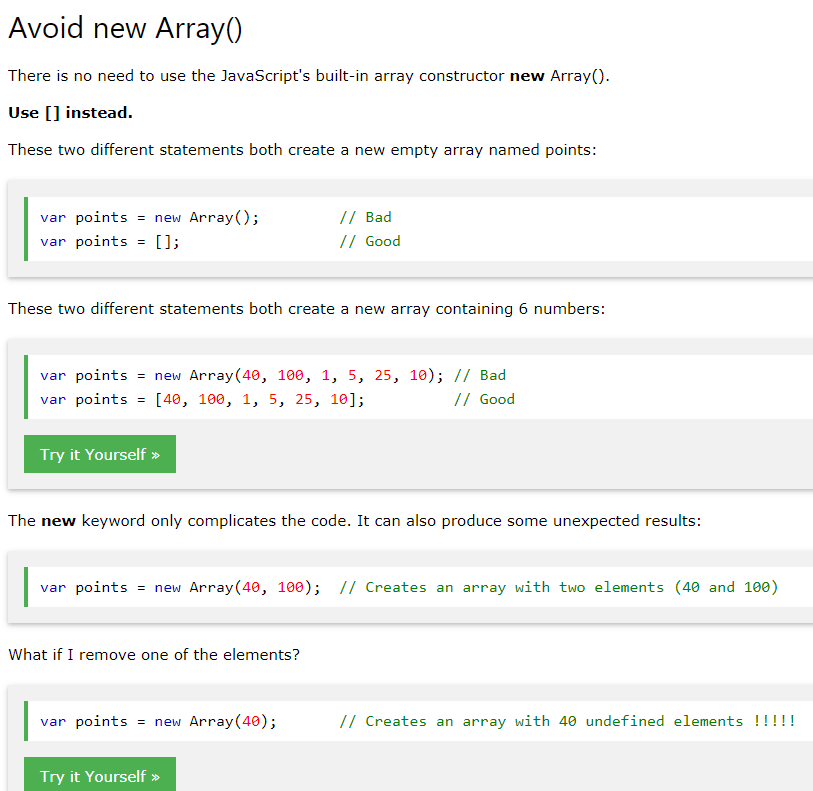


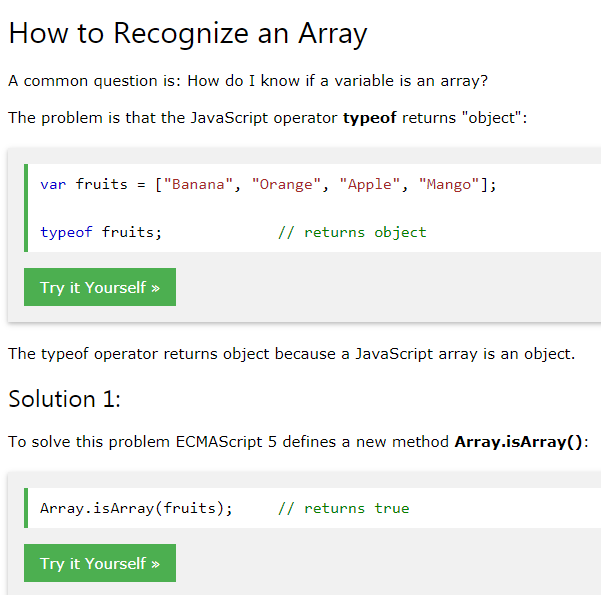




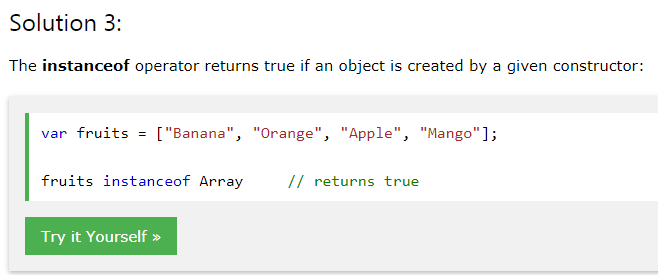


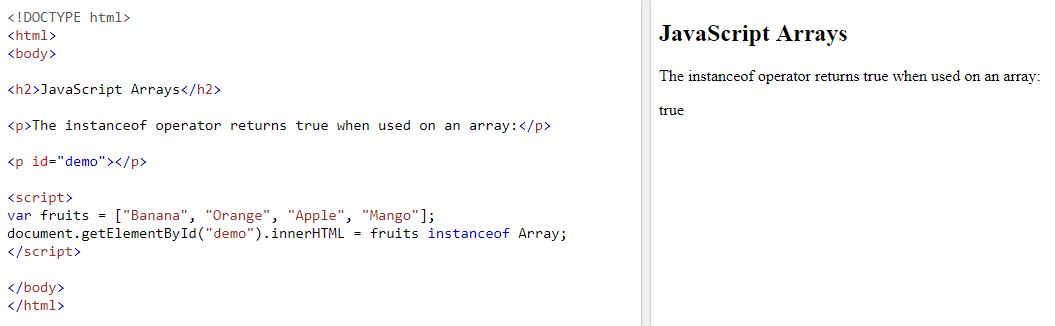


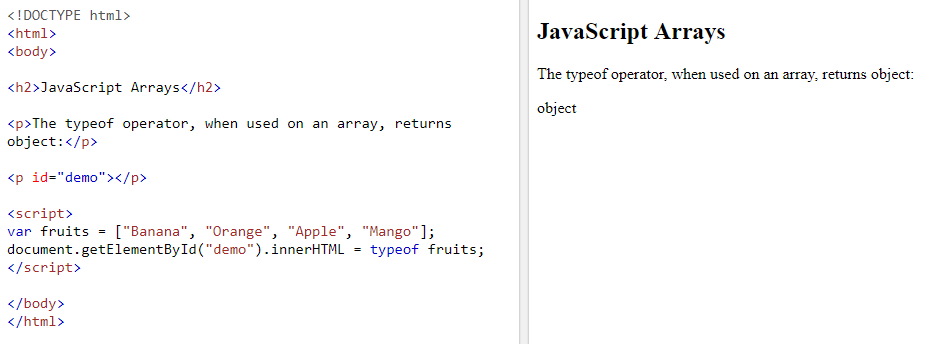




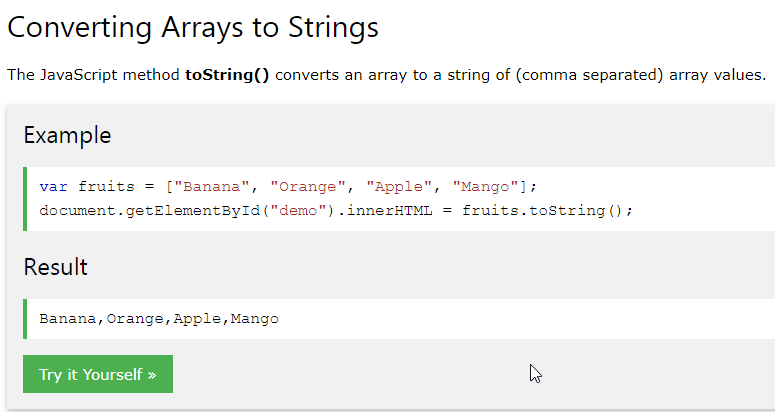
The problem with this solution is that ECMAScript 5 is **not supported in older browsers**.

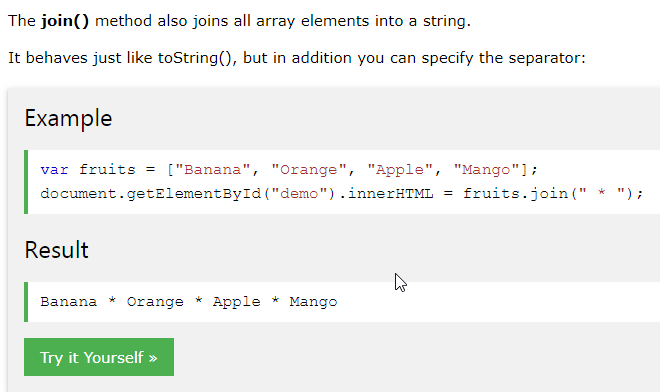


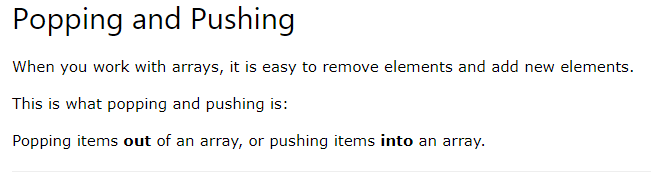


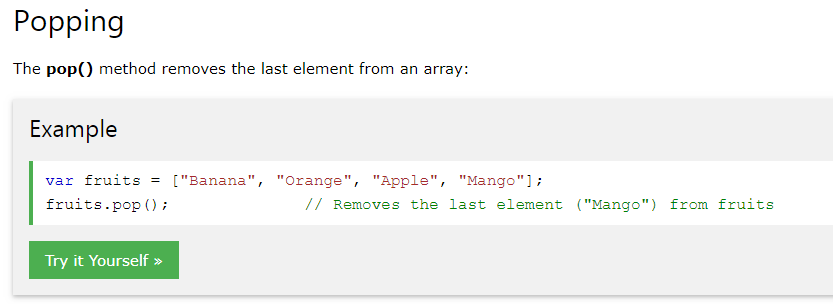


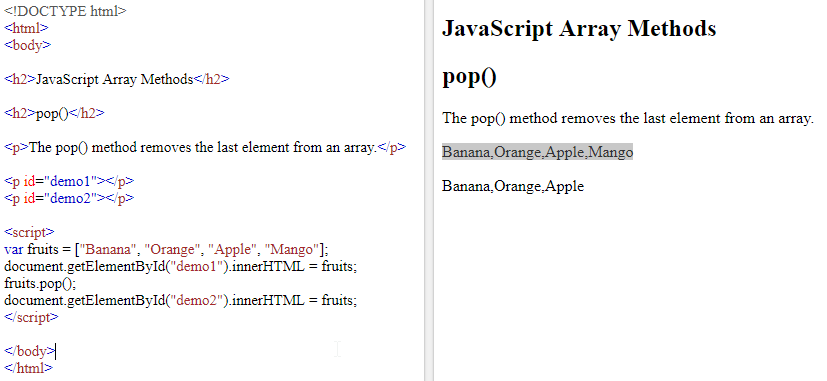
# **JavaScript Array Methods**

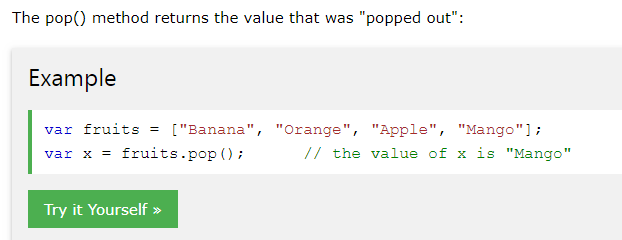


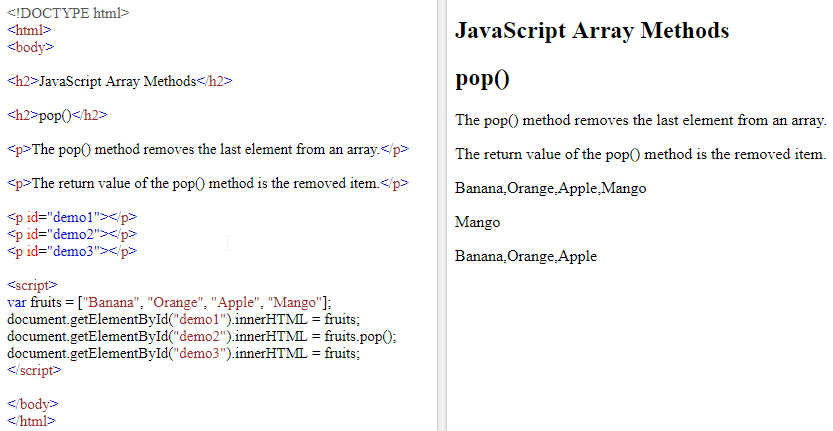


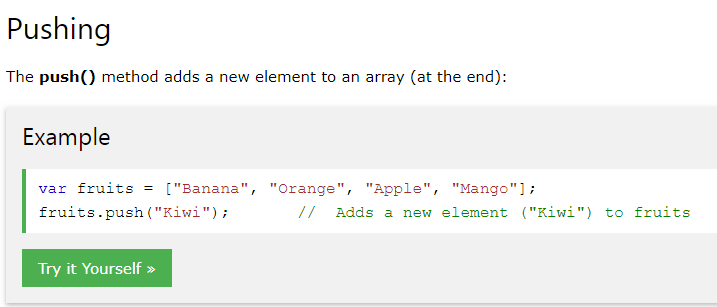




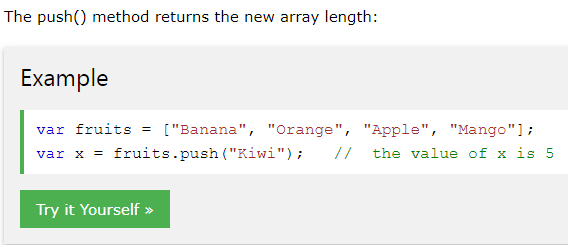




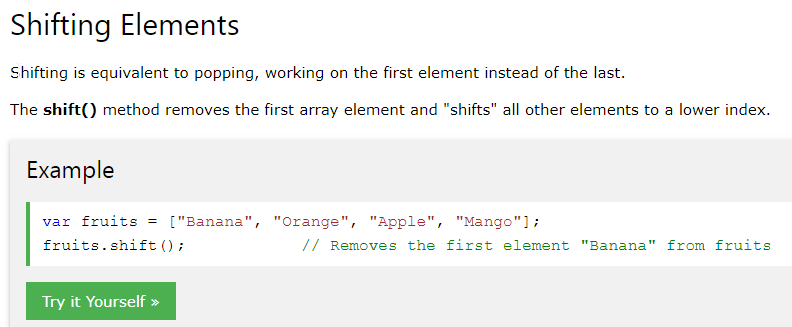


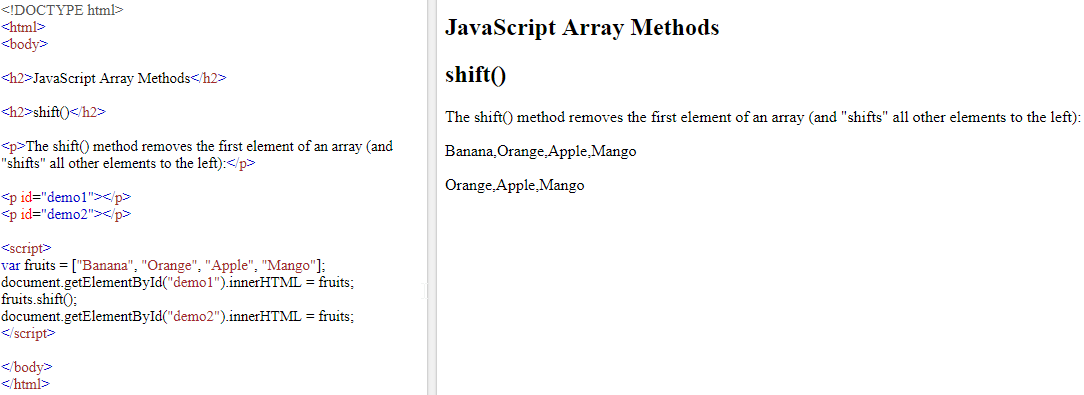


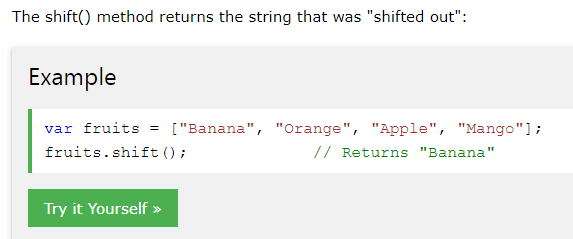


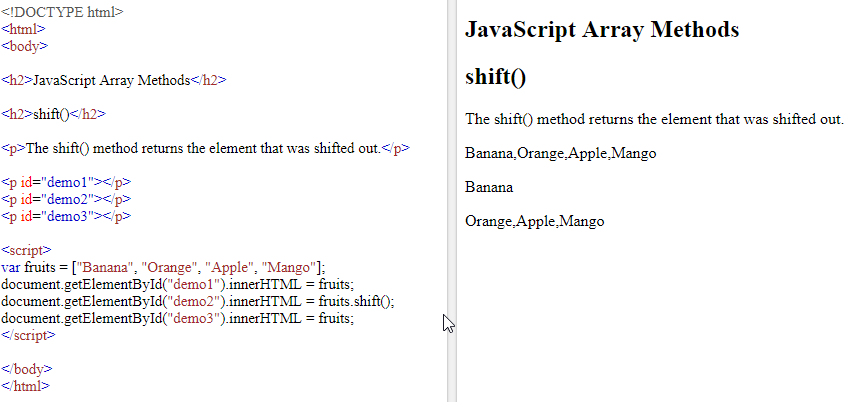


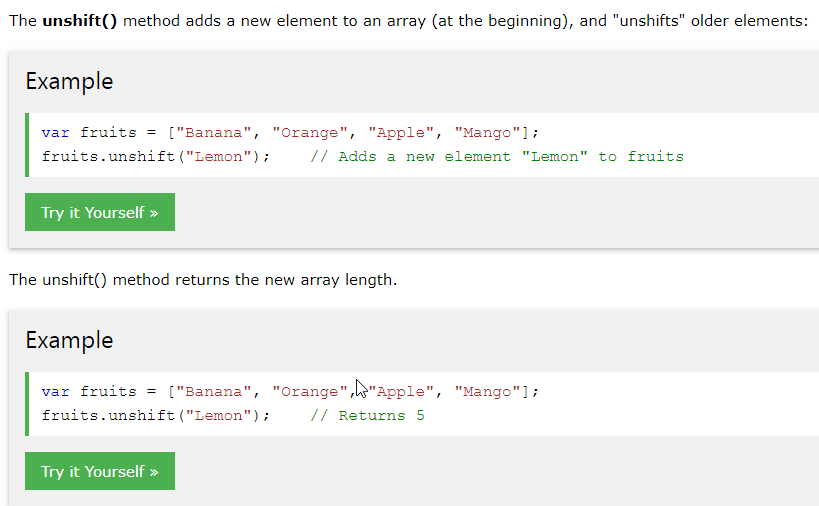


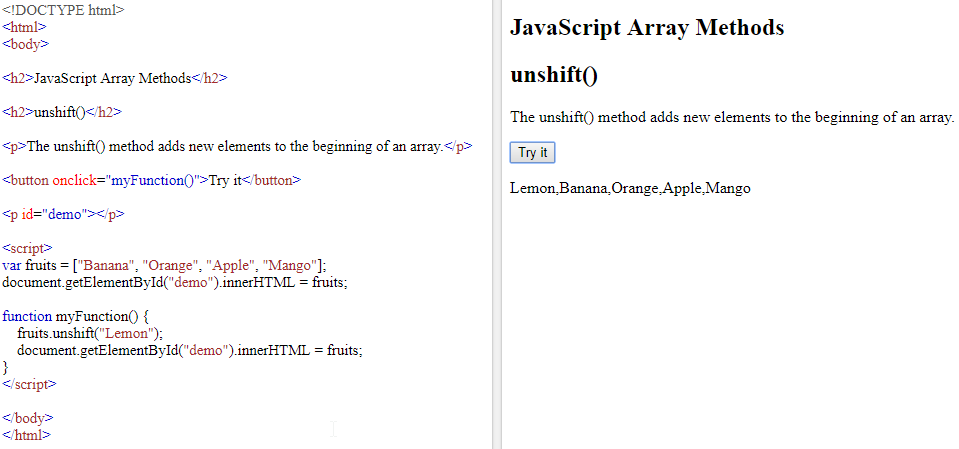


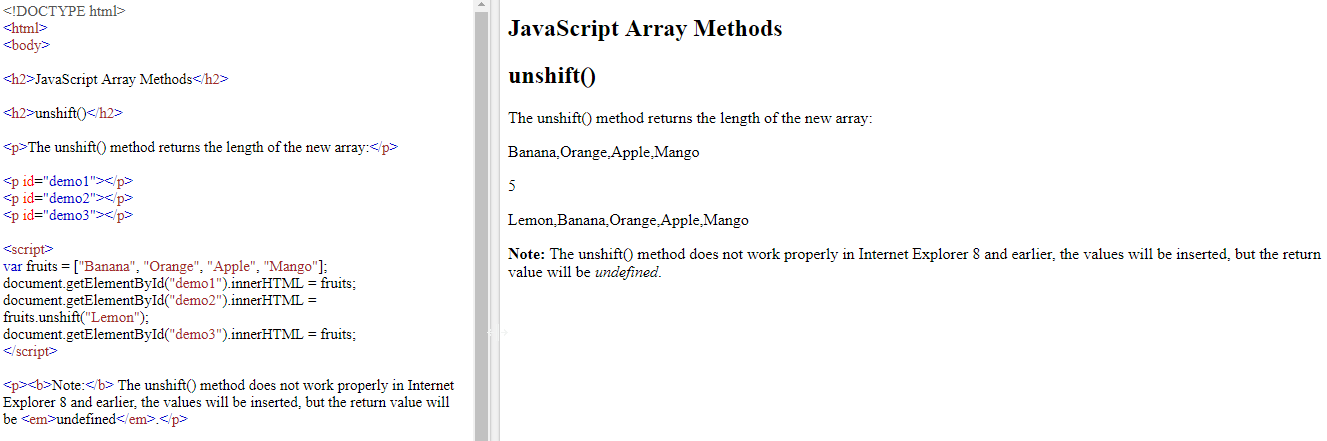




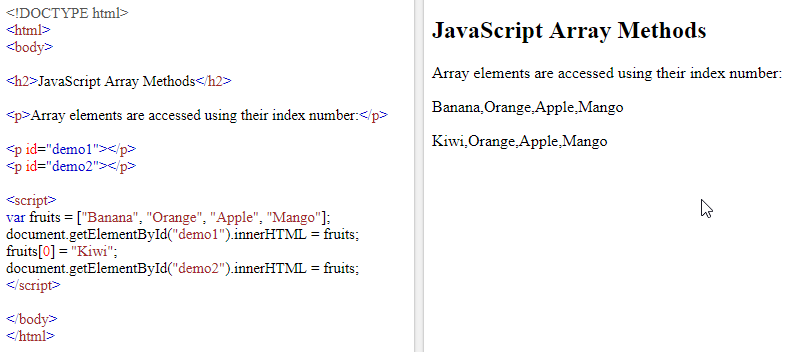


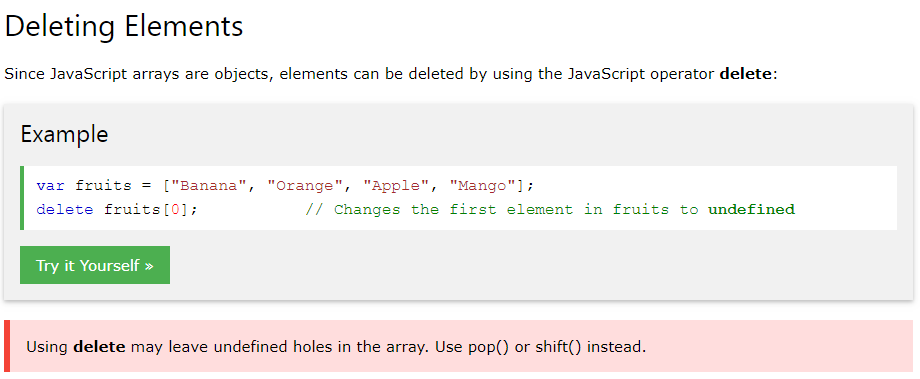


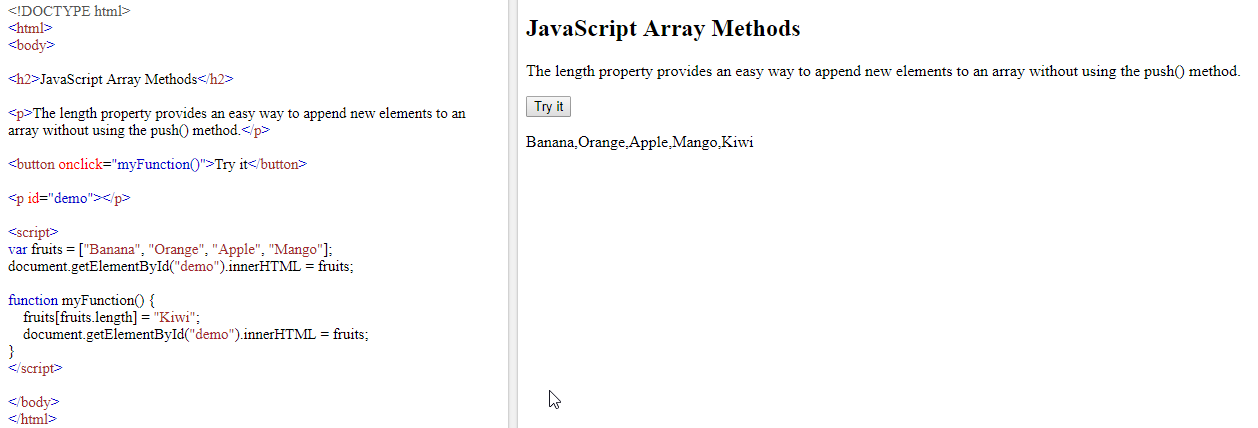


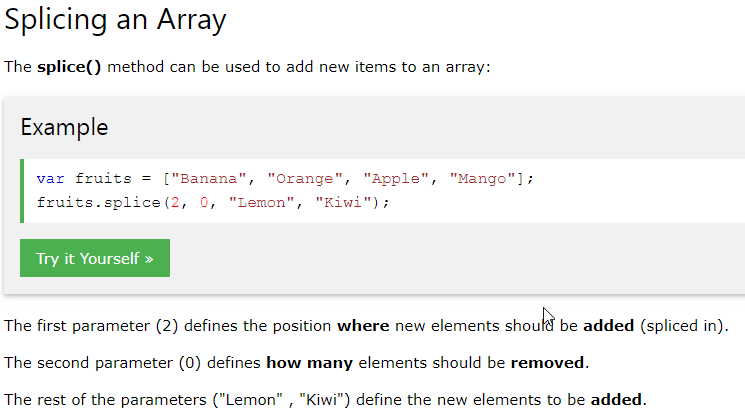


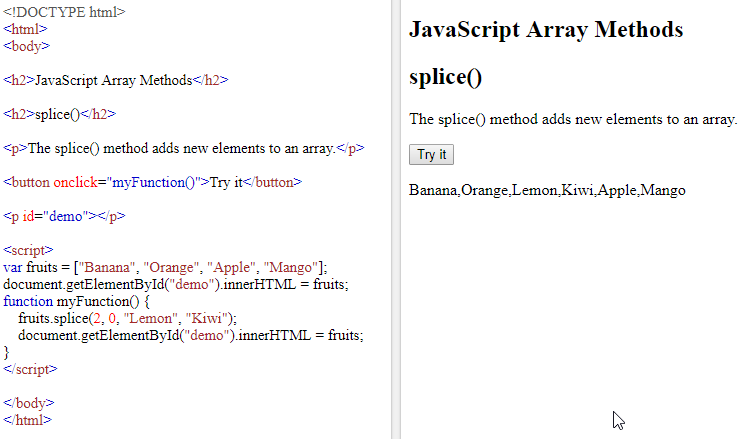


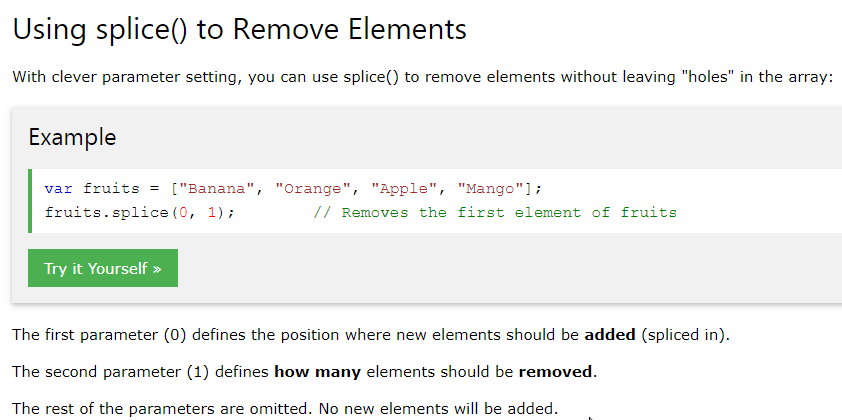




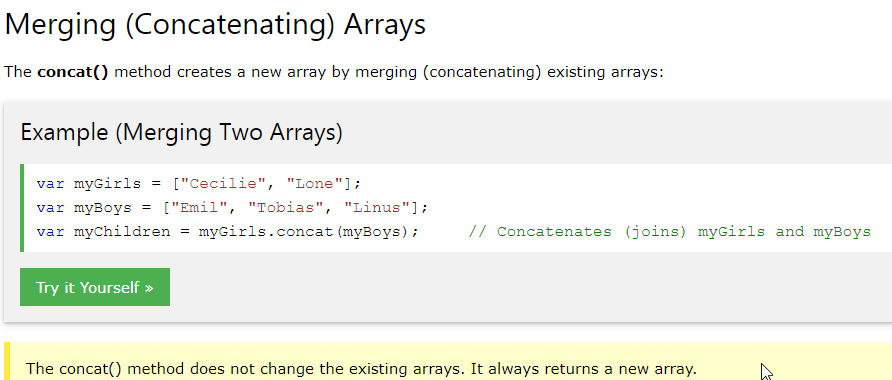




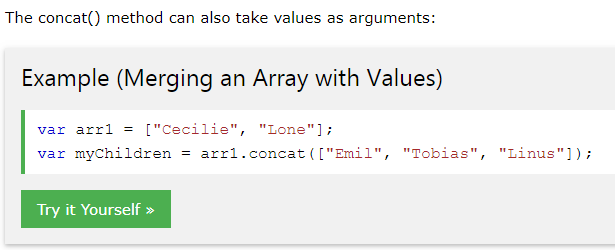




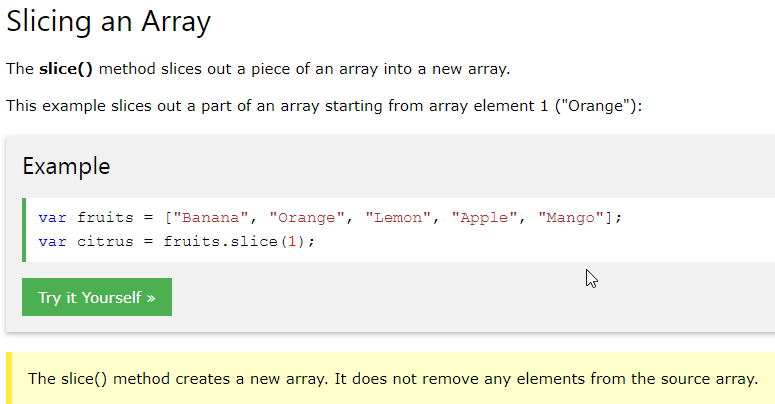




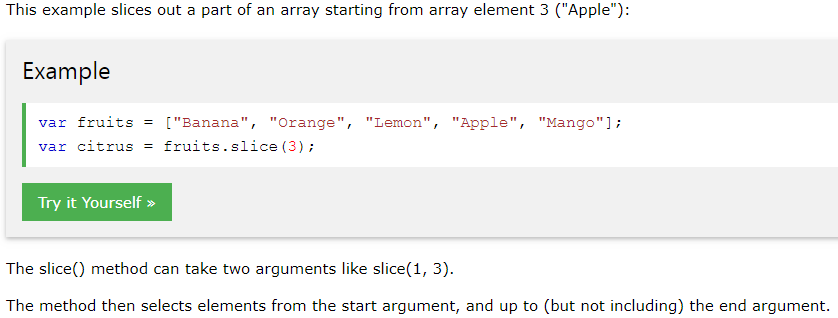


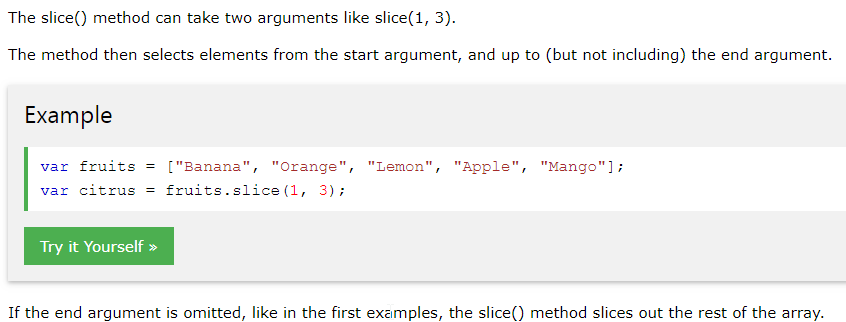


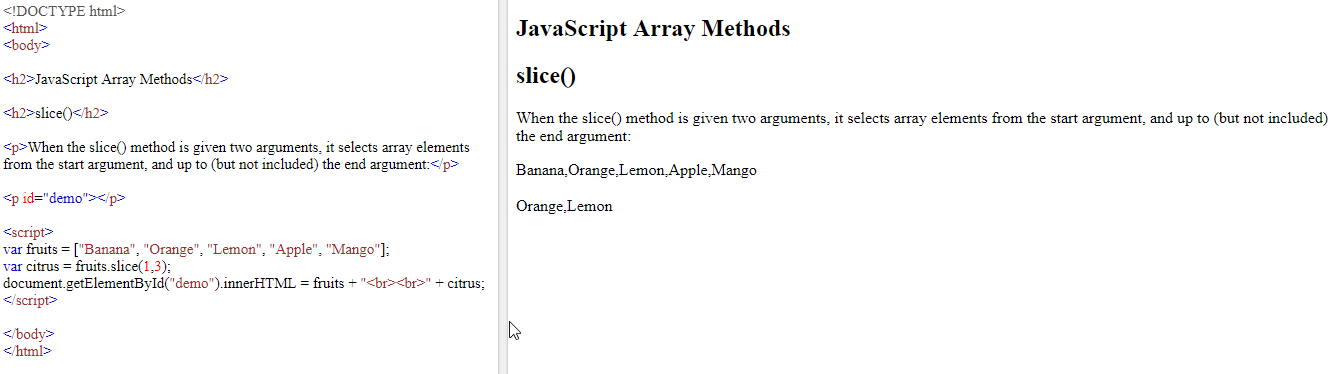


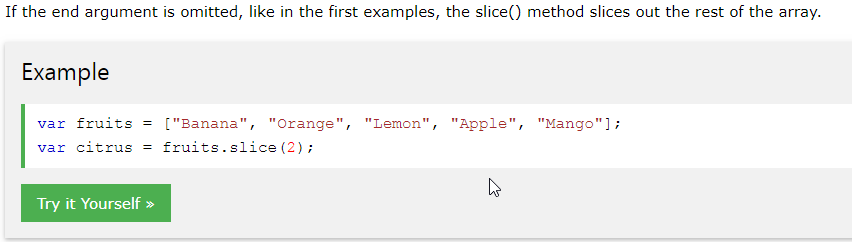






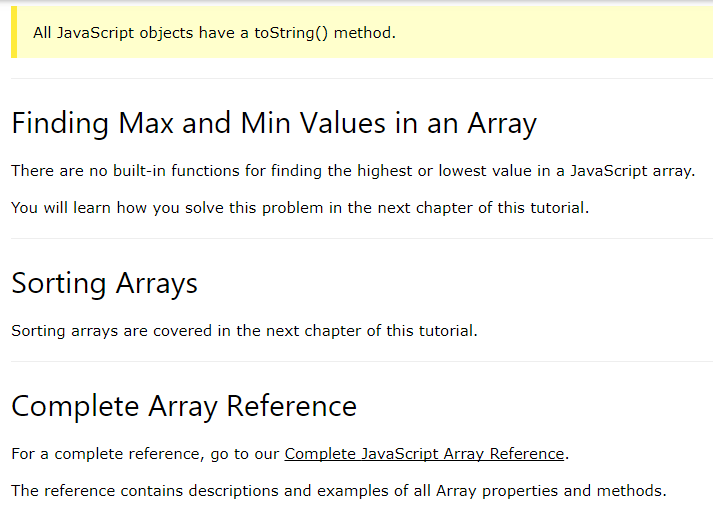




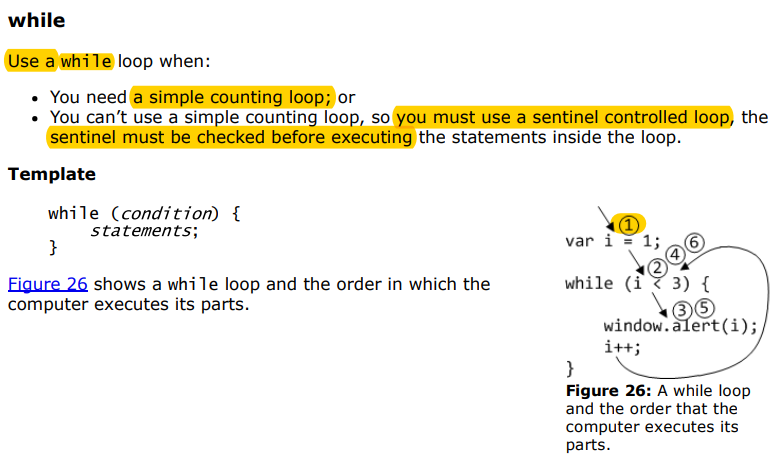








https://www.w3schools.com/jsref/jsref\_obj\_array.asp



Conditional Statements

Functions

Variables

Parameters

Arrays

Associative Arrays