

Control Structures II

SESSION TYPE : LESSON (60 MINUTES)
WBD4300, 30 SLIDES

Control Structures II

- For
- While
- Do-while

Advanced Retouching

Self Directed:
Practice on various types of
loops
(W3Schools)

But First....

- Javascript Events
- Recap on Terms
- Move through w3school Javascript Tutorials from Introduction to Loops
- Using the simple code examples sent. Modify and play around with each.

Control Structures

For

What's For for?

When using an array for instance, this will allow you cycle through a string of information and update a list continuously, or until the for loop is closed. With a different value each time.

e.g. For this length of time loop through this info.

Give me some real life examples of a For loop.



Control Structures

For

The screenshot shows a navigation menu with categories: HTML, CSS, JAVASCRIPT (highlighted), SQL, PHP, BOOTSTRAP, HOW TO, JQUERY, W3.CSS, ANGULAR, and MORE. A sidebar lists various JavaScript topics, with 'JS Loop For' highlighted in green. The main content area is titled 'JavaScript Loops' and contains the following text:

Loops are handy, if you want to run the same code over and over again, each time with a different value. Often this is the case when working with arrays:

Instead of writing:

```
text += cars[0] + "<br>";
text += cars[1] + "<br>";
text += cars[2] + "<br>";
text += cars[3] + "<br>";
text += cars[4] + "<br>";
text += cars[5] + "<br>";
```

You can write:

```
for (i = 0; i < cars.length; i++) {
  text += cars[i] + "<br>";
}
```

At the bottom of the code block, there is a green button that says 'Try it Yourself >>'.

Control Structures

While

The screenshot shows a web page with a navigation bar at the top containing links for HTML, CSS, JAVASCRIPT (highlighted), SQL, PHP, BOOTSTRAP, HOW TO, JQUERY, W3.CSS, ANGULAR, and MORE. A left sidebar menu lists various JavaScript topics, with 'JS Loop While' highlighted in green. The main content area is titled 'JavaScript While Loop' and includes a '< Previous' button. The text explains that loops execute code as long as a condition is true. It defines the while loop and provides its syntax:

```
while (condition) {  
    code block to be executed  
}
```

 An 'Example' section follows, stating that the code in the loop will run as long as a variable (i) is less than 10. Below this, an 'Example' code block shows:

```
while (i < 10) {  
    text += "The number is " + i;
```

Control Structures

Do-While

HTML CSS **JAVASCRIPT** SQL PHP BOOTSTRAP HOW TO JQUERY W3.CSS ANGULAR MORE ▾

- JS Scope
- JS Events
- JS Strings
- JS String Methods
- JS Numbers
- JS Number Methods
- JS Math
- JS Random
- JS Dates
- JS Date Formats
- JS Date Methods
- JS Arrays
- JS Array Methods
- JS Array Sort
- JS Booleans
- JS Comparisons
- JS Conditions
- JS Switch
- JS Loop For
- JS Loop While**
- JS Break
- JS Type Conversion
- JS Bitwise
- JS RegExp
- JS Errors
- JS Debugging

The Do/While Loop

The do/while loop is a variant of the while loop. This loop will execute the code block once, before checking if the condition is true. It will repeat the loop as long as the condition is true.

Syntax

```
do {  
    code block to be executed  
}  
while (condition);
```

Example

The example below uses a do/while loop. The loop will always be executed at least once, even if the condition is false, because the code block is executed before the condition is tested:

Example

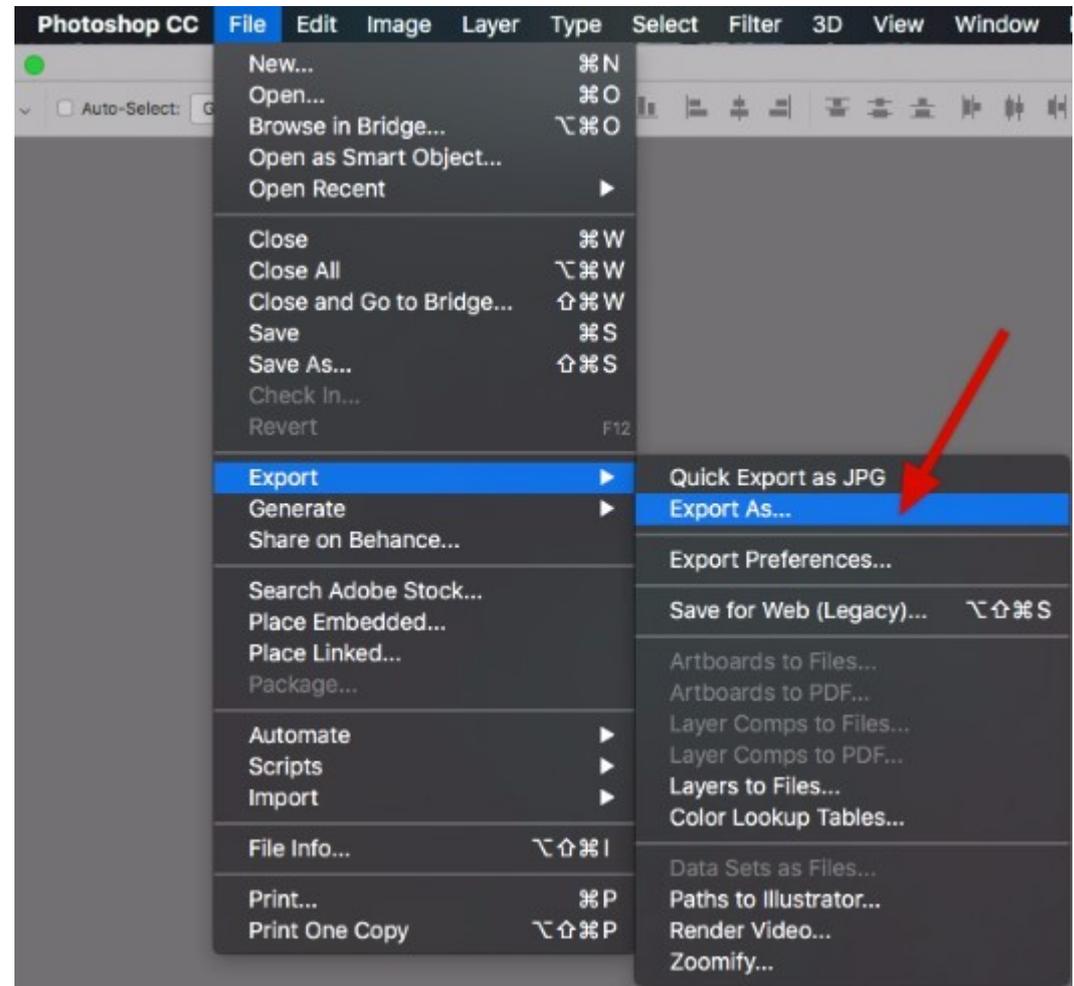
```
do {  
    text += "The number is " + i;  
    i++;  
}  
while (i < 10);
```

[Try it Yourself »](#)

Advanced Retouching

The retouching tools in Adobe Photoshop are:

- Clone Stamp,
- Pattern Stamp,
- Healing Brush,
- Filters



Before



After



Self Directed

Practice various types of loops