

JAVASCRIPT_CORE-s4-JS-Loops

loops
Training Clarusway

Part 1 - Summary

Use this space to summarize your thoughts on the lesson

Part 2 - Responses

Slide 1



Use this space to take notes:

Slide 2

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- ▶ Loops
- ▶ Placement
- ▶ while Statement
- ▶ do..while Statement
- ▶ for Statement
- ▶ break Statement
- ▶ continue Statement

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Your Response

▶



Did you finish Javascript Core pre-class material?

YES **NO**

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Students choose an option

Peer Deck Interactive Slide
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Play Kahoot!

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Link(s) on this slide:

- <https://create.kahoot.it/details/7-loops/c7e652fb-2582-4ee7-a5ea-6cb7a4610d2c>

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1 Loops



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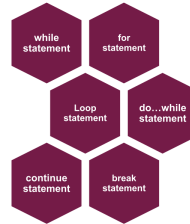
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▶ Loops



JavaScript Loop provides a fast and easy way to perform repetitive tasks. They offer only a few lines of code to perform iterations. Iteration is the number of times the function is to be performed (this number may even be zero). Make sure you understand all of them so that the best loop statement can be applied for a given situation.

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2 ▶ *while* Statement

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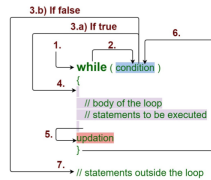
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▶ while Statement



A while statement executes its statements as long as it is true for a specified condition.



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▶ while Statement

```
<script>
var i = 0, sum = 0;
while (i < 6) {
  var sum = sum + i;
  i++;
}
console.log("The total is: " + sum);
</script>
```



```
top
The total is: 15
>
```

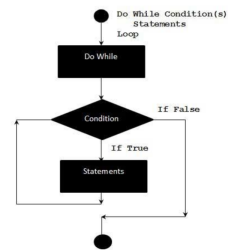
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3 *do...while* Statement



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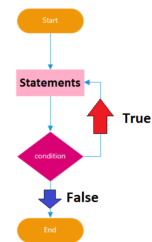
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► *do..while* Statement

- The *do..while* Statement repeats until false is evaluated by the specified condition.
- The difference between while and do-while loops is that code will execute at least once in the do-while loop.

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```
do {
  statement
} while(condition);
```



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do...while Statement

```
<script>
var i = 5, sum = 0;
do {
  sum = sum + i;
  i++;
}
while (i < 5);
console.log("The total is: " + sum);
</script>
```

```
top
The total is: 5
>
```

```
<script>
var i = 0, sum = 0;
do {
  sum = sum + i;
  i++;
}
while (i < 6);
console.log("The total is: " + sum);
</script>
```

```
top
The total is: 15
>
```

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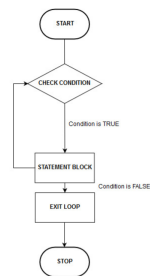
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4 for Statement

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KEYWORD
for
CLOSING
CURLY BRACE

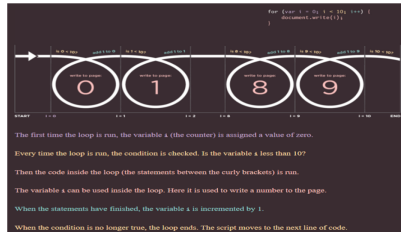
```
for ([init]; [condition]; [increment])
  statement
```

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```
<script>
  for (var i=0; i<10; i++){
    console.log("i : " + i);
  }
</script>
```

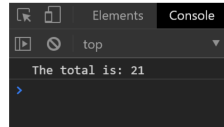
```
i : 0
i : 1
i : 2
i : 3
i : 4
i : 5
i : 6
i : 7
i : 8
i : 9
```

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► for Statement 1

```
<script>
var sum = 0;
for (var i = 0; i < 7; i++){
  sum += i;
}
console.log("The total is: " + sum);
</script>
```



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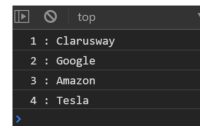


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► for Statement 2

```
<script>
var bests = ["Clarusway", "Google", "Amazon", "Tesla"];
var i = 0, len = bests.length;
for (; i < len; ) {
  console.log((i+1) + " : " + bests[i]);
  i++;
}
</script>
```



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for Statement 3

```
<script>
var bests = ["Clarusway", "Google", "Amazon", "Tesla"];
var i = 0, len = bests.length;
for (; i < len; ) {
  console.log((i+1) + " : " + bests[i]);
  i++;
}
</script>
```

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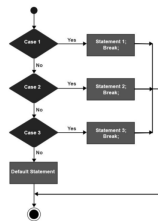
```
top
1 : Clarusway
2 : Google
3 : Amazon
4 : Tesla
>
```

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5 break Statement

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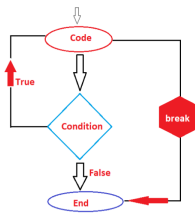
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► break Statement



To terminate a loop, switch or in conjunction with a label statement, use the `break` statement. ("jumps out" of a loop.)



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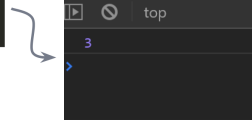
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► break Statement

```
<script>
  var i = 0;
  while (i < 10) {
    if (i === 3) {
      break;
    }
    i++;
  }
  console.log(i)
</script>
```



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6 *continue* Statement

```
while (var < 10)
{
    _____
    _____
    continue;
    _____
    _____
}
```

These statements are skipped

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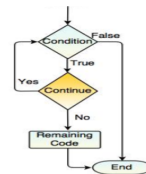
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▶ *continue* Statement



If a specified condition occurs, the continuation clause breaks one iteration (in the loop) and continues with the next iteration in the loop



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▶ continue Statement

```
<script>
var i;
for (i = 0; i < 7; i++){
  if (i==2 || i ==4){
    continue;
  }
  console.log(i);
}
</script>
```



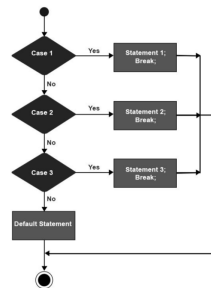
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6 switch Statement



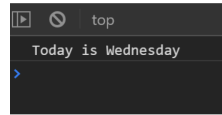
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► The switch Statement

```
<script>
var day;
switch (new Date().getDay()) {
  case 0:
    day = "Sunday";
    break;
  case 1:
    day = "Monday";
    break;
  case 2:
    day = "Tuesday";
    break;
  case 3:
    day = "Wednesday";
    break;
  case 4:
    day = "Thursday";
    break;
  case 5:
    day = "Friday";
    break;
  case 6:
    day = "Saturday";
  }
  console.log("Today is " + day);
</script>
```



top
Today is Wednesday
>

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THANKS!
Any questions?



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