

🚩 Current Skill The While Loop

The While Loop

A while loop will first check its condition. If it evaluates to true, then it will execute the statement within its body. It will then re-check the condition and continue re-executing the statement(s) as long as the condition evaluates to true.

If the condition evaluates to false, the while statement won't execute any code inside its body and the flow will just continue executing the rest of our code.

```
while (condition){  
  Statement(s)  
}
```

- The variable `i` keeps track of how many times the loop is executed.
- First the JavaScript interpreter examines the condition in the **while** loop. As `i` is **0** and `numbers.length` is **10**, we conclude the condition to be **true**.
- If the condition is true, we execute the body of the while loop. So we iterate through the array and sum up all elements inside, while incrementing the loop variable '`i`' with **1**.
- Then we compare **1** against the length of the array, **10**. As **1** is smaller than **10**, we execute the loop body again. The sum variable now stores **19 + 65 = 84**. The value of `i` becomes **2**.
- We continue this until `i` becomes **10**. Then we realize the condition `i < numbers.length` becomes **false**. Once the condition of the **while** loop becomes **false**, we continue with the code after the **while** loop.

// Let's sum the values of a small array

```
var numbers = [19, 65, 1, 2, 6, 1, 9, 9, 2, 1];
```

```
var sum = 0;
```

```
var i = 0;
```

```
while ( i < numbers.length ) {
```

```
  sum += numbers[i];
```

```
  i += 1;
```

```
}
```



```
console.log( 'The loop was executed ' + i + ' times' );
```

```
// prints The loop was executed 10 times
```

```
console.log(sum);
```

```
// prints 115
```

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