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Day 5: Arrow Functions



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Arrow Functions in JavaScript

Arrow Functions

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Arrow Functions

Here are some basic examples of arrow function syntax:

```
(parameter) => {statements}
parameter => {statements}
parameter => expression
parameter => {return expression}

(param1, param2, ..., paramN) => {statements}
(param1, param2, ..., paramN) => expression
(param1, param2, ..., paramN) => {return expression}
```

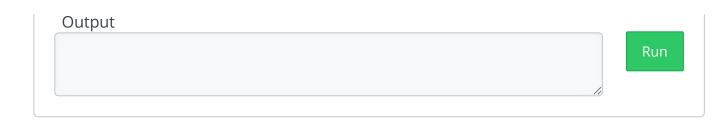


EXAMPLE

Let's look at some simple ways to apply this syntax:

```
1 'use strict';
2
3 const makeArray = (...values) => { return values };
4 console.log('Array:', makeArray(1, 2, 3, 4));
5 console.log('Array:', makeArray(1, 2, 3, 4, 5, 6));
6
7 const getSum = (a, b) => { return a + b };
8 console.log('1 + 2 =', getSum(1, 2));
9
10 const greeting = 'Hello, World.';
11 const capitalize = (myString) => { return myString.toUpperCase() };
12 console.log(greeting, '=>', capitalize(greeting));
```

OK



Using Arrow Functions

Let's look at some ways we can use arrow functions to make our code shorter.

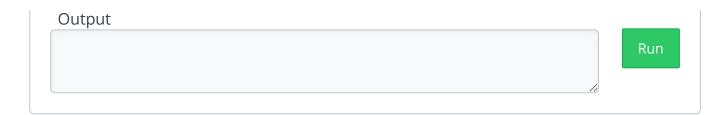
EXAMPLE

Sum the Elements of an Array

While we can certainly iterate over an array and sum each value, we can also use the *reduce* function.

```
1 'use strict';
2
3 const arr = [1, 2, 3, 4, 5];
4
5 const sum = arr.reduce(function (a, b) {
6    return a + b;
7 }, 0);
8
9 console.log('Array:', arr);
10 console log('Sum:', sum);
```

```
Output
Now, let's reduce the length of our code using an arrow function:
1 'use strict';
3 \text{ const arr} = [1, 2, 3, 4, 5];
5 const sum = arr.reduce((a, b) => { return a + b }, 0);
7 console.log('Array:', arr);
8 console.log('Sum:', sum);
 Output
Let's further reduce it by getting rid of the return:
1 'use strict';
3 \text{ const arr} = [1, 2, 3, 4, 5];
5 const sum = arr.reduce((a, b) \Rightarrow a + b, 0);
```



EXAMPLE

Find the Length of Strings in an Array

Let's take an array of strings and use it to create a new array containing the respective lengths of its elements.

```
1 'use strict';
2
3 const arr = ['first', 'second', 'third', 'fourth', 'fifth'];
4
5 const len = arr.map(function(s) { return s.length });
6
7 console.log('Array:', arr);
8 console.log('Lengths:', len);
```

Output

Run

Now, let's reduce the length of our code using an arrow function:

```
const arr = ['first', 'second', 'third', 'fourth', 'fifth'];

const len = arr.map(s => s.length);

console.log('Array:', arr);
    console.log('Lengths:', len);

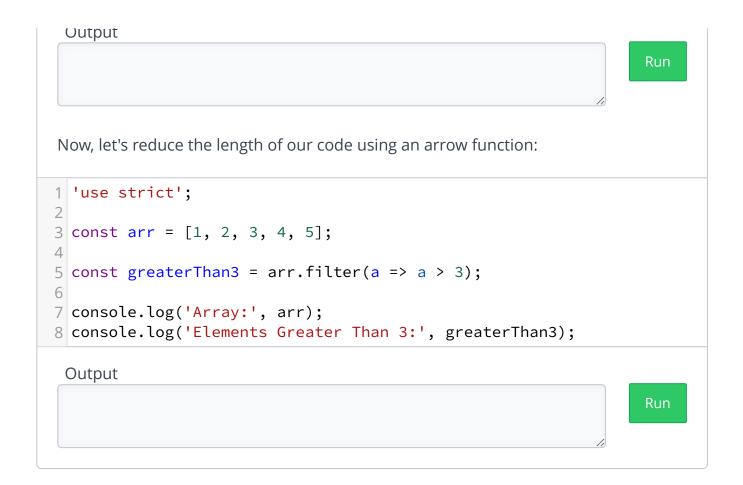
Output
Run
```

EXAMPLE

Find Array Elements Greater Than a Value

Let's find all the elements in an array that are greater than ${\bf 3}$ and add them to a new array.

```
1 'use strict';
2
3 const arr = [1, 2, 3, 4, 5];
4
5 const greaterThan3 = arr.filter(function(a) {
    return a > 3;
7 });
```



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