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Day 5: Arrow Functions ■



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Tutorial

Arrow Functions in JavaScript

Arrow Functions

These expressions lexically bind the this value while using less syntax than a typical function expression. Arrow functions are always anonymous.

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}
```

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

1 'use strict';
2 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() };

Output

Run
```

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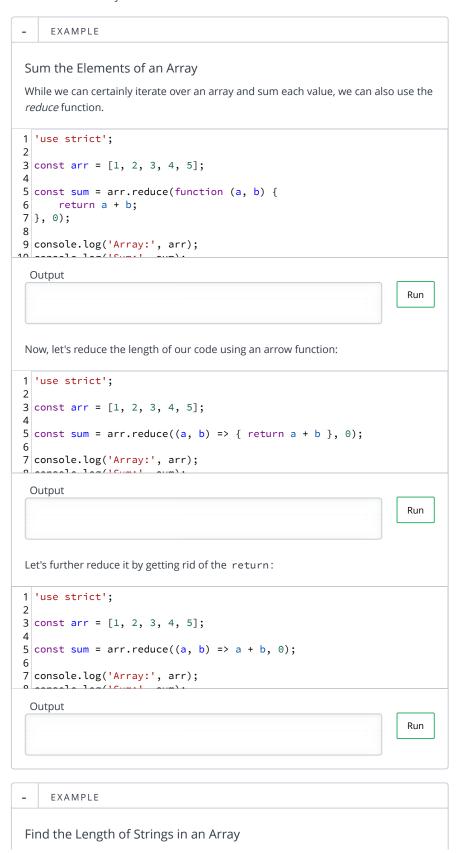
Arrow Functions

Using Arrow Functions



Using Arrow Functions

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



```
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';
3 const arr = ['first', 'second', 'third', 'fourth', 'fifth'];
5 const len = arr.map(function(s) { return s.length });
7 console.log('Array:', arr);
 Output
                                                                     Run
Now, let's reduce the length of our code using an arrow function:
1 'use strict';
3 const arr = ['first', 'second', 'third', 'fourth', 'fifth'];
5 const len = arr.map(s => s.length);
7 console.log('Array:', arr);
 Output
                                                                      Run
     EXAMPLE
Find Array Elements Greater Than a Value
Let's find all the elements in an array that are greater than 3 and add them to a new
array.
1 'use strict';
2
3 \text{ const arr} = [1, 2, 3, 4, 5];
5 const greaterThan3 = arr.filter(function(a) {
6
      return a > 3;
7 });
9 console.log('Array:', arr);
 Output
                                                                     Run
Now, let's reduce the length of our code using an arrow function:
  'use strict';
  const arr = [1, 2, 3, 4, 5];
  const greaterThan3 = arr.filter(a => a > 3);
  console.log('Array:', arr);
  console.log('Elements Greater Than 3:', greaterThan3);
```

		Run
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