JavaScript

special features

PHP web development 2020/2021

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arrow functions

ES6 arrow functions

ES6

Arrow functions allows a short syntax for writing function expressions.

You don't need the

- function keyword,
- the return keyword,
- and the **curly brackets**.

ES6 arrow functions

Врaца Софтуер Общество

ES5

```
var x = function(x, y) {
   return x * y;
}
x(5,2)//10
```

ES6

```
const x = (x, y) => x * y;

x(5,2)//10
```

ES6 arrow functions - 2

Врача Софтуер Общество

ES5

```
var x = function(x, y) {
//some complicated multiline code concerning x and y
return x * y;
}
x(5,2)//10
```

ES6

```
const x = (x, y) => {
//some complicated multiline code concerning x and y
return x * y;
}
x(5,2)//10
```

ES6
default parameter values

ES6 default parameter values

ES6

ES6 allows function parameters to have default values.

ES6 default parameter values

ES6

```
var x = function( x, y = 10, z = 10 ) {
    return x * y / z;
}
x(5)//30
X(5, 7)//
```

ES6
Array.findIndex()

ES6 Array.findIndex()

Врача Софтуер Общество

The findIndex() method returns the index of the first array element that passes a test function.

```
var numbers = [4, 9, 16, 25, 29];
var first = numbers.findIndex(myFunction);//3

function myFunction(value, index, array) {
  return value > 18;
}
```

ES6
Array.find()

ES6 Array.find()

Врача Софтуер Общество

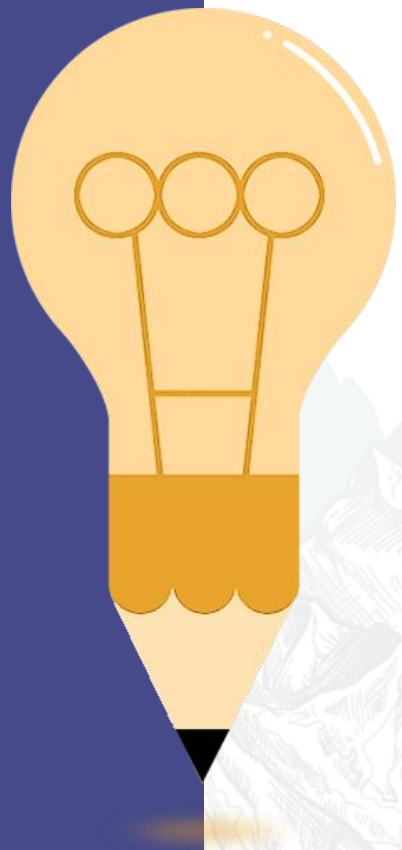
The find() method returns the value of the first array element that passes a test function.

```
var numbers = [4, 9, 16, 25, 29];
var first = numbers.find(myFunction);//25

function myFunction(value, index, array) {
  return value > 18;
}
```

ES6
browsers` support

ES6 browsers` support

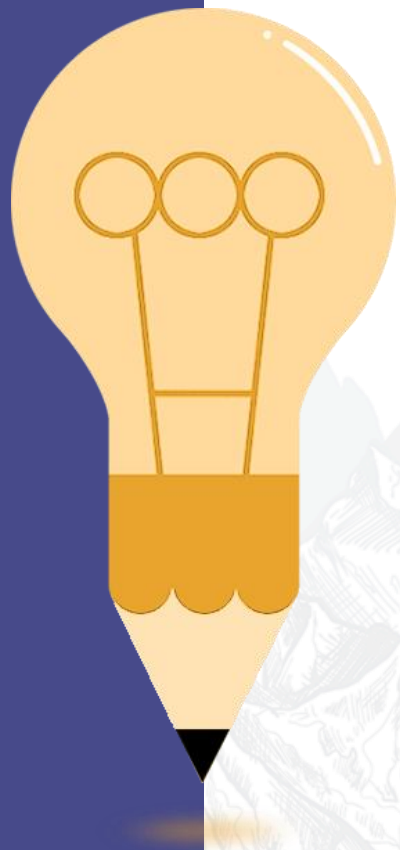


Always check browsers` support!

ES6 browsers` support


use strict

use strict



The "use strict" directive was new in ECMAScript version 5.

The purpose of "use strict" is to indicate that the code should be executed in "strict mode".

With strict mode, you can not, for example, use undeclared variables.

All modern browsers support "use strict" except Internet Explorer 9 and lower:

use strict

Врaца Софтуер Общество

Strict mode is declared by adding "use strict"; to the beginning of a script or a function.

```
"use strict";
   x = 3.14;       // This will cause an error because x is not
                      declared
```

use strict

Strict mode is declared by adding "use strict"; to the beginning of a script or a function.

```
"use strict";

myFunction();

function myFunction() {
    y = 3.14;   // This will also cause an error because y is not declared
}
```

use strict

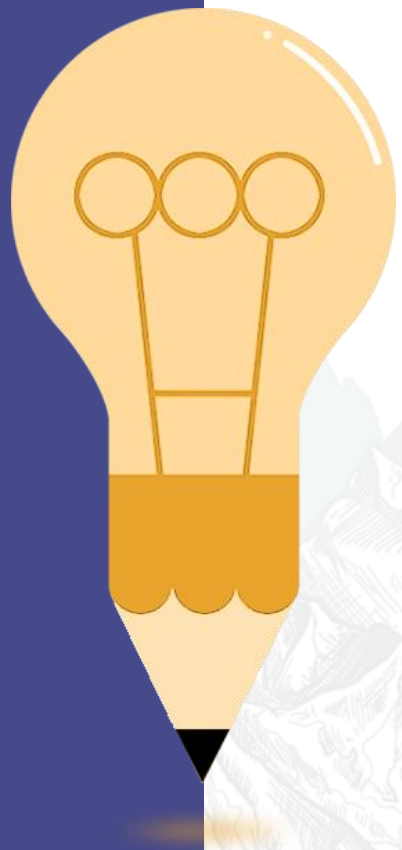
Врaца Софтуер Общество

Declared inside a function, it has local scope (only the code inside the function is in strict mode):

```
x = 3.14;       // This will not cause an error.
myFunction();

function myFunction() {
  "use strict";
  y = 3.14;           // This will cause an error
}
```

Why “use strict”?



- Strict mode makes it easier to write "secure" JavaScript.
- Strict mode changes previously accepted "bad syntax" into real errors.
- As an example, in normal JavaScript, mistyping a variable name creates a new global variable. In strict mode, this will throw an error, making it impossible to accidentally create a global variable.
- In normal JavaScript, a developer will not receive any error feedback assigning values to non-writable properties.
- In strict mode, any assignment to a non-writable property, a getter-only property, a non-existing property, a non-existing variable, or a non-existing object, will throw an error.

use strict

Врaца Софтуер Общество

Deleting a variable (or object) is not allowed.

```
"use strict";
var x = 3.14;
delete x;                    // This will cause an error
```

use strict

Deleting a function is not allowed.

```
"use strict";
function x(p1, p2) {};
delete x;          // This will cause an error
```

use strict

Врaца Софтуер Общество

Duplicating a parameter name is not allowed:

```
"use strict";
function x(p1, p1) {};  // This will cause an error
```

more info

Questions?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