

ECMAScript HARMONY

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ЙОРДАН ИВАНОВ

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КОИ СТЕ ВИЕ?

ВЪВЕДЕНИЕ

СЪВМЕСТИМОСТ

<http://kangax.github.io/compat-table/es6>

Платформа	Съвместимост
Babel.js	76%
Microsoft Edge	72%
Mozilla Firefox 37	62%
Traceur	60%
Google Chrome 42	43%
Microsoft IE 11	15%

КАКВО ДА ПРАВИМ ДНЕС?

- <https://babeljs.io>
- <https://github.com/google/traceur-compiler>

```
var gulp = require('gulp');
var babel = require('gulp-babel');

gulp.task('default', function () {
  return gulp.src('src/app.js')
    .pipe(babel())
    .pipe(gulp.dest('dist'));
});
```

КАКВО НОВО?

- let и const
- Object.observe()
- Аргументи
- Arrows
- Promises
- Класове
- Шаблони
- Модули

LET VS CONST

```
function let_const() {  
  let foo;  
  
  if(true) {  
    // OK  
    const foo = 'bar';  
  
    // Error  
    foo = 'baz';  
  }  
  
  // Error  
  let foo = 'baz';  
}
```



```
function letTest() {  
  let x = 31;  
  
  {  
    let x = 71;  
    console.log(x); // 71  
  }  
  
  console.log(x); // 31  
}
```

OBJECT.OBSERVE()

```
let obj = {  
  foo: 0,  
  bar: 1  
};  
  
Object.observe(obj, function(changes) {  
  console.log(changes);  
});  
  
obj.baz = 2;  
// [{name: 'baz', object: [object], type: 'add'}]
```

СТОЙНОСТИ ПО ПОДРАЗБИРАНЕ

```
function setBackgroundColor(element, color = 'rosybrown') {  
    element.style.backgroundColor = color;  
}
```

```
setBackgroundColor(someDiv);           // 'rosybrown'  
setBackgroundColor(someDiv, undefined); // 'rosybrown'  
setBackgroundColor(someDiv, 'blue');   // 'blue'
```

ОСТАВАЩИ ПАРАМЕТРИ

```
let add = function(category, ...items) {  
  console.log(category + ': ' + items.join(', '));  
};  
  
add('fruit', 'apple');           // fruit: apple  
add('dairy', 'milk', 'cheese'); // dairy: milk, cheese
```

ARROWS

```
let bob = {  
  name: 'Bob',  
  friends: [],  
  printFriends() {  
    this.friends.forEach(friend => {  
      console.log(this.name + ' knows ' + friend);  
    });  
  }  
}
```

PROMISES

```
function timeout(duration = 0) {  
  return new Promise((resolve, reject) => {  
    setTimeout(resolve, duration);  
  });  
}  
  
let promise = timeout(1000).then(() => {  
  return timeout(2000);  
}).then(() => {  
  throw new Error('hmm');  
}).catch(err => {  
  return Promise.all([timeout(100), timeout(200)]);  
});
```

КЛАСОВЕ

```
class Barracks extends Building {  
    constructor({x, y}) {  
        let position = new Position(x, y);  
        super(position);  
    }  
  
    spawnMarine() {  
        return new Marine('Jim Raynor');  
    }  
  
    static price() {  
        return 150;  
    }  
}
```

ШАБЛОНИ

```
const template = `




```


МОДУЛИ

```
// lib/math.js
export function sum(x, y) {
  return x + y;
};

export var pi = 3.141593;

// app.js
import * as math from 'lib/math';
alert('2π = ' + math.sum(math.pi, math.pi));
```

ВЪПРОСИ?

БЛАГОДАРЯ ВИ?