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'));
});
```

KAKBO HOBO?

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

LET I 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

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

ARROWS

```
var 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 Marine extends Unit {
  constructor(name) {
    this.name = name;
  }
  sayHi() {
    return super.sayHello();
  }
  static spawn() {
      return new Marine('Jim Raynor');
  }
}
```

ШАБЛОНИ

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?