

ECMA Script 6

JS

JS ECMA Script 6 About me

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Training on web and Adobe products from past 10+ years

JS ECMA Script 6 About the Program

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Formally "ECMA Script 2015"

6 years! from ES5

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Why ES6 ?

Modern syntax fixing pitfalls

Better support for large applications

No (or few) breaking changes

JS ECMA Script 6 Browser Support...

Modern browsers and io.js (node.js) support half of ES6 features.
Safari 9 (WebKit) will support many ES6 features soon.
Except for IE11...

Check <http://www.caniuse.com>



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Libraries to bridge the support now...

BabelJs: <https://babeljs.io/>

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



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What's new in ES6 ?

Block Scope (let/const)

Destructuring

Default Parameters

Rest Parameters

Spread Operators

Arrow Functions (Fat Arrow Functions)

Iterators

Generators

Template Strings

Classes

Modules

Extended Objects

Promises

Proxy

Set and Map

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Block Scope in ES6

VAR

- Globally available in the function or object where it is declared
- Hoisted
- Names can be declared many times and they override previously assigned value

LET / CONST

- Only available in the block {} in which it is declared
- Not Hoisted
- Names can only be declared once per block

JS ECMA Script 6 Destructuring

Breaking down a complex structure into simpler parts.

In JavaScript, this complex structure is usually an object or an array.

You can also handle nested structures by using nested destructuring syntax

```
var heroes = { firstHero : "Batman", secondHero: "Superman" }
```

```
var {firstHero : fh, secondHero : sh} = heroes;
```

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Generics in ES6

Generics are templates that allow the same function to work with different data types.

Good when we create reusable code that preserve the data type that go in and out of them.

You can use data type markers to denote a data type and refer those markers to represent the same data type in side a function / program

```
function getType<T>(value:T):string{  
    return typeof (value);  
};  
getType("hello there") ; // says string  
getType(true) ;// says boolean
```

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Block Scope in ES6

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- Globally Available in the function in which it is declared
- Hoisted
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LET / CONST

- Only available in the block in which it is declared
- Not Hoisted
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Thank you

please forward your comments and feedback

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