Cheatography

ES6 Cheat Sheet

by arrow96 via cheatography.com/77976/cs/19118/

Let and Const	
let and const	Hoisting problem
let allows block scoping and hoisting problem in ES5 is solved in ES6. Variables declared with the var keyword can not have Block Scope. Variables declared inside a block {} can be accessed from outside the block.	When we use a undeclared variable with var keyword in ES5 we get undefined variable name error. This is the example for hositing problem.
const It does NOT define a constant value. It defines a constant reference to a value. Because of this, we cannot change constant primitive values, but we can change the properties of constant objects.	Whereas when we use let keyword , hoisting problem is solved in ES6. We get the Error as Refe- rence Error <variable name=""> not defined.</variable>

This keyword

The JavaScript this keyword refers to the object it belongs to. It has different values depending on where it is used: In a method, this refers to the owner object. Alone, this refers to the global object

The 4 rules of finding out the value of this keyword

Rule 1: When the **keyword this** is not inside the declared object then it refers to the **global object**

Rule 2: When the **keyword this** is inside the declared object, then it refers to the closest parent object

Rule 3: whenever the context of the object changes, we use **call**, **apply and bind** to set the value of this explicitly.

Rule 4: Whenever we create a object using **new keyword** inside the function definition, the **this keyword** refers to the new object that is being created

Arrow Functions

Arrow function or fat arrow function -shorter version of syntax when compared to the normal function

We cannot manipulate the value of **this** keyword inside the arrow function when we use **call**,**apply or bind**

We do not have access to the **prototype** field when we declare the function using **fat arrow symbol**

Default function parameters

when we set up default function parameters we get access to the functions and the variables in the context

data=(price,cost=0.07)=>{
console.log(price*cost) }
data(5.00)

Rest and spread operator

Rest	Spread
It allows to convert the no of parameters into an array	It allows to convert the array into an parameters
It is denoted by "" in the function definition or function expression	It is also denoted by the "", but used to destructure the array
<pre>a = (data) => { console.log(data) } a(2,3,3,3,3)(5) [2, 3, 3, 3, 3]a(2,3,3,- 3,3,)(5) [2, 3, 3, 3, 3]</pre>	Spread operator can split the string into char
The rest parameters must be at the end	<pre>a = ['acd'] (3) ["a",</pre>

Ref -- https://javascript.info/rest-parameters-spread-operator

"c", "d"]

Object Literal

It is shorthand for initializing the object properties and also method

Ref -- https://dev.to/sarah_chima/enhanc-ed-object-literals-in-es6-a9d

Prototype

All JavaScript objects inherit properties and methods from a prototype.

When we create the constructor function, **prototype** property is created for that constructor function

The only inconvenience of using prototypes is that there is no easy way to create private methods or variables.

Ref -- https://stackoverflow.com/questions/-8433459/what-s-the-purpose-of-prototype

Ref -- https://idiallo.com/javascript/why-u-se-prototypes

for of loop

```
//for of loop is used in
iterable
var a = [1,2,2,2,2];
for ( let i of a) {
  console.log(i);
}
```

Octal and binary Literals

```
var a = 0012; //octal literals
either 0 or o is allowed
console.log(a)//12
var f = 0b111;
console.log(f);
```

Template literals

It can create the multiline strings

new.target

The new.target property lets you detect whether a function or constructor was called using the new operator. In constructors and functions instantiated with the new operator, new.target returns a reference to the constructor or function. In normal function calls, new.target is undefined.

Ref -- https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Operators/new.target

Example

```
class A{
constructor(){
this.data = 55;
```

```
console.log("Inside the base")
console.log(new.target.dumm())
}

class B extends A{
  constructor(){
  super()
  console.log(new.target)
  console.log(typeof B)
  this.data = 66;
  console.log(this.data)
}

static dumm(){
  return 57;
}
}
```

By arrow96 cheatography.com/arrow96/

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