Cheatography

ES6 Cheat Sheet by arrow96 via cheatography.com/77976/cs/19118/

Let and Const

let and const					
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.					

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.

problem When we use a undeclared variable with var keyword in ES5 we get undefined variable name error. This is the example for hositing problem. Whereas when we use let keyword, hoisting problem is solved in ES6. We get the Error as Reference Error <variable name> not defined.

Hoisting

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 approve the functions and the variables in the context

```
data=( pri ce, cos t=0.07 )=>{ conso
data(5.00)
```

Rest and spread operator

Rest

It allows to convert the no of parameters into an array sol e.l og(i);

It is denoted by "..." in the function definition or fun

```
3, 3, 3]
```

The rest parameters must be at the end

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

Object Literal

It is shorthand for initializing the object properties and also method

Ref -- https://dev.to/sarah_chima/enhanced-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-

for of loop		ce*			
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//for of loop is used in iterable var a = [1, 2, 2, 2, 2];for (let i of a) {

Octal and binary Literals

a = (...da ta) =>{ consol e.l og(datagr }a = 20,3123,3/39(3) literals, 3, either O or o is allowed consol e.l og(a)//12 var f = 0b111;consol e.l og(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;

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

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;

}

} }

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