# Cheatography

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

# Let and Const

let

let and const	Hois
	prob
let allows block	Whe
scoping and <b>hoisting</b>	unde
problem in ES5 is	varia
solved in ES6.Variables	var l
declared with the var	ES5
keyword can not have	und
Block Scope. Variables	varia
declared inside a block {}	erroi
can be accessed from	the e
outside the block.	hosi
	prob
const It does NOT	Whe
define a constant value.	we u
It defines a constant	keyv
reference to a value.	hoist

# sting blem en we use a eclared able with keyword in we get efined able name or. This is example for iting olem. ereas when use let word , tina problem is solved in ES6. We get the Error as Reference Error <variable name> not

defined.

#### This keyword

Because of this, we

can change the

objects.

cannot change constant

primitive values, but we

properties of constant

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) =&gt; { 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	a = ['acd'] (3) ["a", "c", "d"]	

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-use-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 O 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)
}

# By arrow96

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static dumm(){
return 57;

} }