

data types are of 2 types.

1. primitive data type

- a. number.
- b. string.
- c. boolean(true/false).
- d. null.
- e. Undefined.

2. non primitive data type.

- a. object.
- b. array
- c. function

.

default value given
by JS is
undefined

Var x = ~~to~~
Declaring value

```
{  
  name : "mahesh"  
  age : 24  
  pet : "puppy"  
}
```

```
{  
  name :  
  age  
  pet : null  
}
```

`==` \rightarrow value

`===` \rightarrow value + datatype.

Input \rightarrow datatype

output \rightarrow boolean

5 == 5 → true.

Type

Coercion.

5 == "5" → true

→ 5 === "5" → false

type coercion---> conversion of a number which is present inside a string to number.

Array \rightarrow mutability

String \rightarrow immutability

let, const \rightarrow { }

let, const \rightarrow global

var X

let → global, block scope

→ re-assigned

const → global, block scope

→ cannot be re-assigned

let a = 10

a = 20

→ console.log(a)

→ 20

const a = 10

a = 20

console.log(a)

→ Error

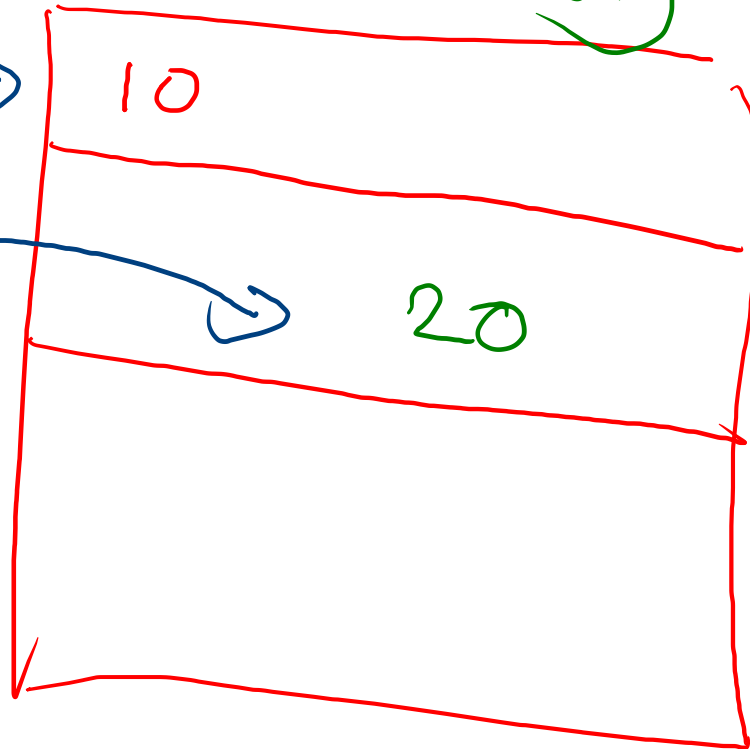
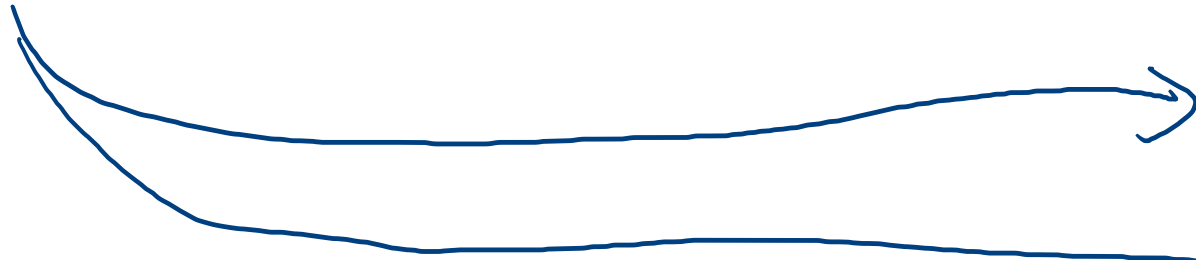
Var a = 10

a = 20

memory

10

20



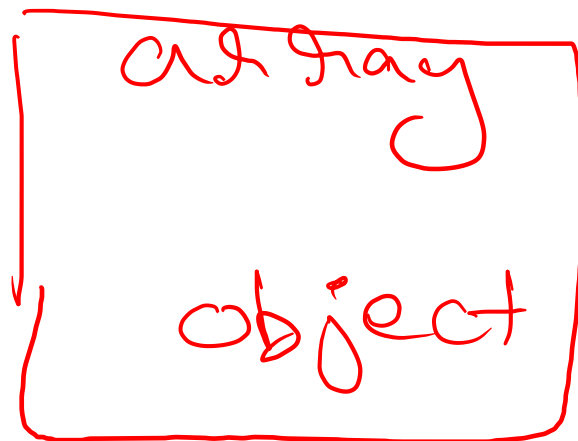
Var a = []

primitive

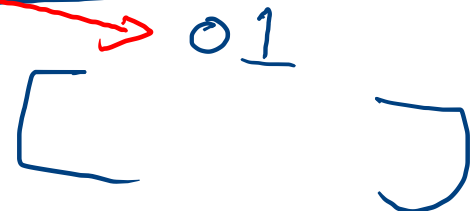
a



value



address



a = [" 8-bling"]

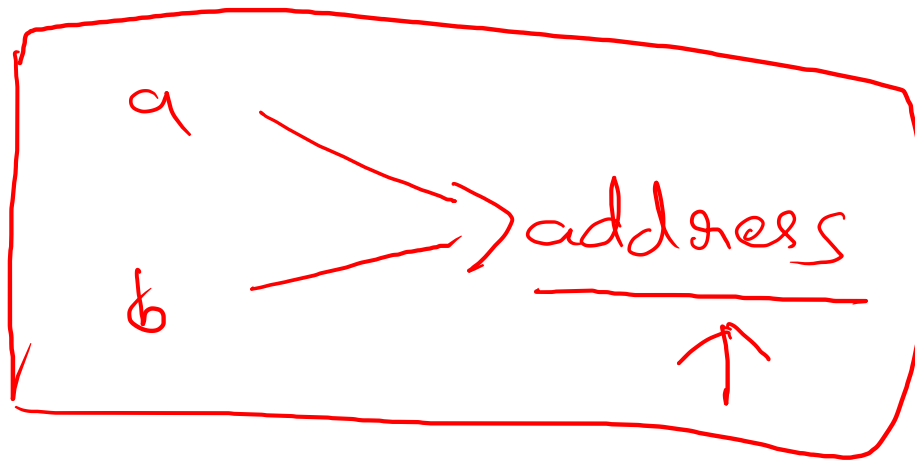
1
~~1~~ 0

let b = [1 2 , 3, 4] address

address

```
let a = [1, 2, 3];  
let b = a; // address.  
b[0] = "hi";  
console.log(a);
```

array
object



↓
address

```
let x = 10;  
let y = x; // 10  
x = 20;  
console.log(y);
```

X = 10

Y = X // 10

X → 20

array

object



mutability

vs

string



Immutability

