

Primitive <sup>expr g</sup>  
 Number, String, Boolean

## Types of Data Types In JS

Primitive

or  
 Value Types

- |             |          |
|-------------|----------|
| ① number    | ⑤ null   |
| ② string    | ⑥ Symbol |
| ③ boolean   | ⑦ BigInt |
| ④ undefined |          |

Non-Prim / User Defined

or  
 Ref Types

- ① All objects
- a. array
  - b. console
  - c. doc
  - d. Math
- : objects

✓ let a = 10;

✓ let b = 10;

console.log(a === b); true



let a = 10;

let b = a;

console.log(a === b); true

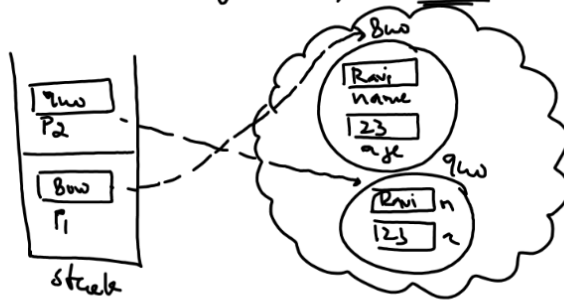


✓ let p1 = { name: "Ravi",  
age: 23 };

✓ let p2 = { name: "Ravi",  
age: 23 };

console.log(p1 === p2);

false

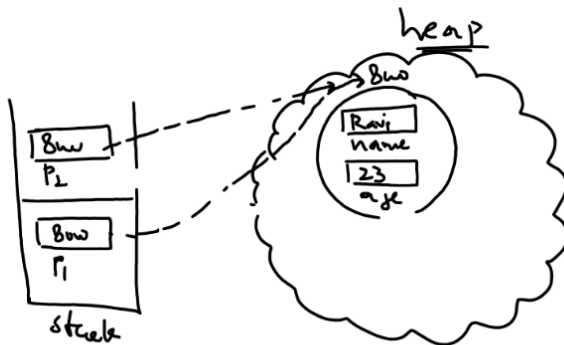


✓ let p1 = { name: "Ravi",  
age: 23 };

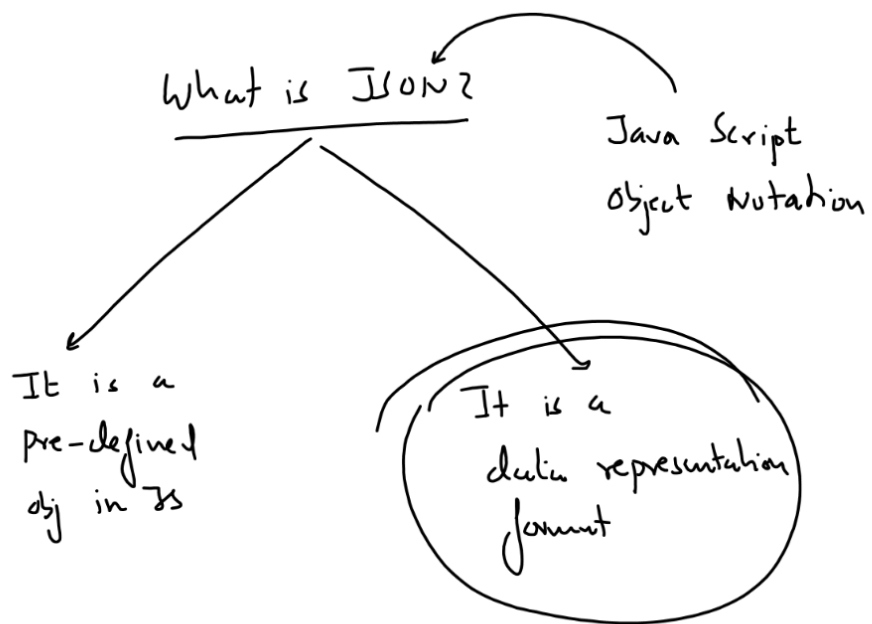
✓ let p2 = p1;

console.log(p1 === p2);

↓  
true



<u>Value Type</u>	<u>Ref Type</u>
① Live in stack	① Ref lives in stack but the object lives in heap
② hold value	② hold address
③ When === is applied it compares data type and <u>Value</u>	③ When === is applied it compares data type and <u>address</u> it in reference.



## Comparing Object

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As we have seen, when we compare objects in JavaScript then addresses are compared. So to overcome this problem JS suggest us to convert our objects into strings and then compare this string using == or === .

## How to convert object into strings?

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To convert any JS objects in string, JavaScript has provided us a method called stringify(). This method belong to a predefined object called JSON and accepts an object as argument and return its string representation.

## CODE EXAMPLE

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```
let person1 = {  
    name: "sachin",  
    gender: "male"  
};  
document.write(`${JSON.stringify(person1)}<br>`);
```

## OUTPUT:

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```
{"name":"sachin","gender":"male"}
```

## Comparing Objects Using stringify() and ===

```
let person1 = {  
    name: "sachin",  
    gender: "male",  
};  
let person2 = {  
    name: "sachin",  
    gender: "male",  
};  
let person3 = {  
    name: "sachin",  
    gender: "female",  
};  
  
function compareObj(p1, p2) {  
    return JSON.stringify(p1) === JSON.stringify(p2);  
}  
document.write(compareObj(person1, person2));  
document.write("<br>");  
document.write(compareObj(person1, person3));
```

Output

=====

true

false