



Datatypes In JS

1) Numbers → 8, -10, 33, 4.562, 0, -0, NaN

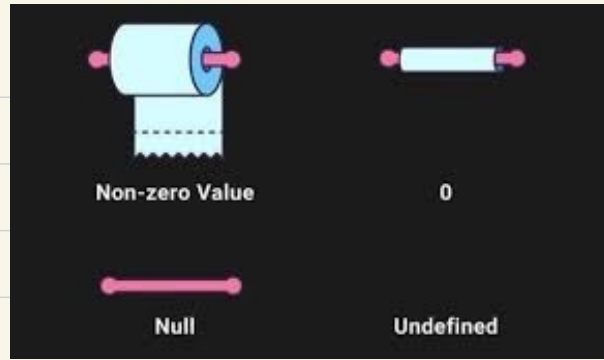
↓
(not a number)

2) Strings → "hello world"

↘
text

3) Boolean → true
false ↖

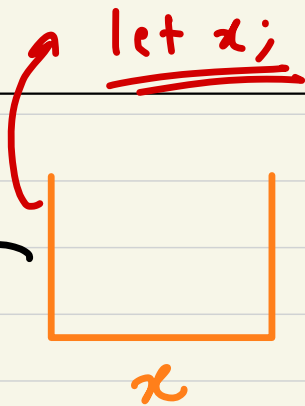
Paper roll



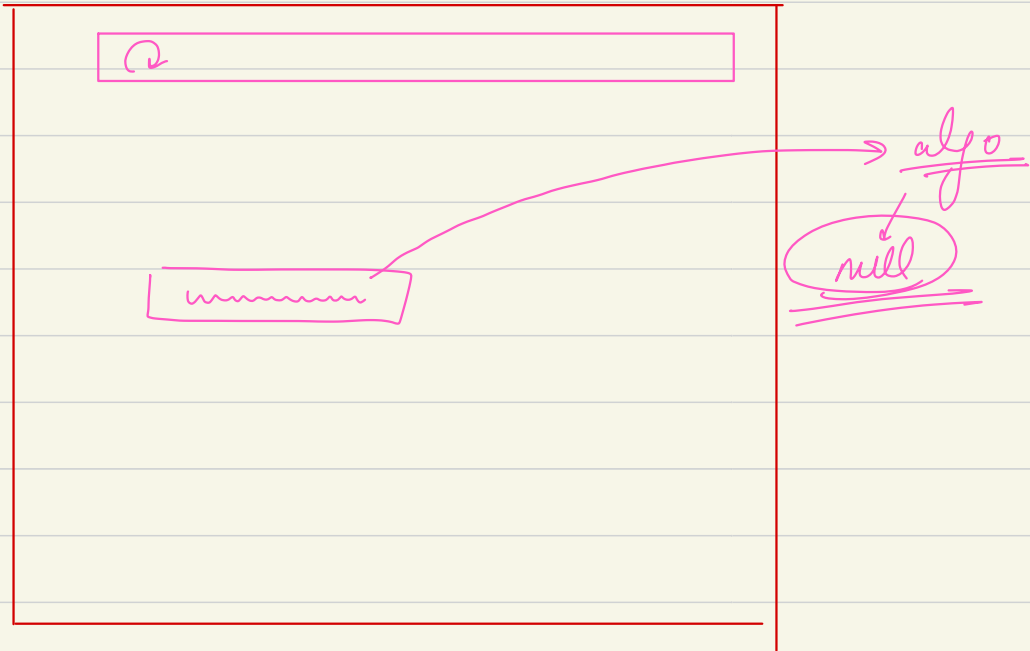
4) null → null represents no value or nothing. i.e., variable is declared & defined also but with an empty value i.e. null

5) undefined → it shows a variable who has been declared but never defined.

new bucket
with
name x



let user;



6) BigInt

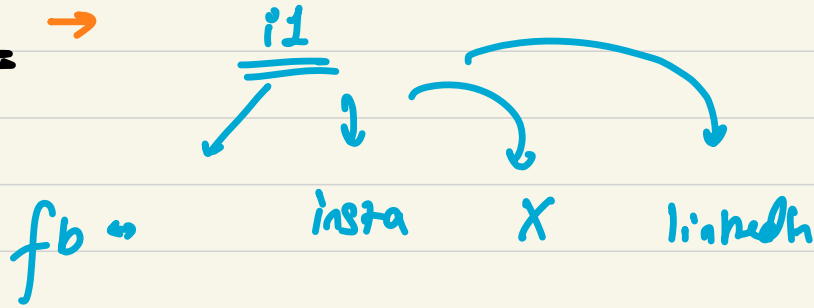
In JS (as per my latest info) a normal number can
store maximum $(2^{53} - 1)$ and minimum $(-2^{53} - 1)$ ↗

for numbers beyond this range, we use BigInt.

To make a no. BigInt, we write the number &
append a 'n' at last.

```
let x = 3125068999999ff58n;
```

Objects →



let fb = —

let insta = —

⋮

}

key values

{ fb: 3000 ,
"insta": 10000 ,

x: 15000 ,

likedIn: 7000

(keys
and
values)

}

(Symbol)
↓
(Skip)

Symbol("—")

using programming lang. we can do computations.

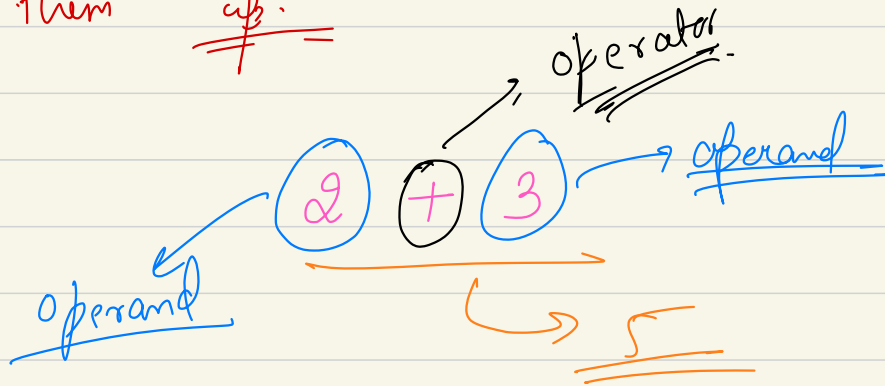
→ Operators →

Operators are symbols that can do some computation or calculation.
ex → + , - , = , *

Ex \rightarrow $+$

this plus operator if used with 2 numbers adds

them ~~up.~~



Arithmetic Operators → used with numbers.

$2 + 3$ → add 2 and 3

$2 - 3$ → Subtract 2 and 3

$2 * 3$ → multiply 2 and 3

$2 / 3$ → divides 2 with 3, gives you the quotient.

$2 \% 3$ → modulo

→ remainder of division of 2 & 3

2 * * 3

→

calculate 2³

assignment operator:

let x = 10;

these help us to assign values to a variable.

=

→

equals

→

let x = 10;

let x = 10;

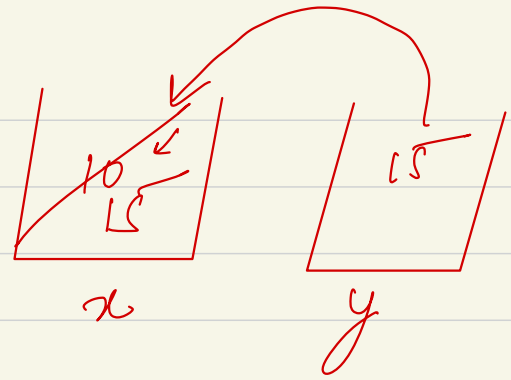
you want to add 5 to x & store the result
in x.

first way

$$\text{let } x = 10;$$

$$\rightarrow \text{let } y = \underline{x + 5};$$

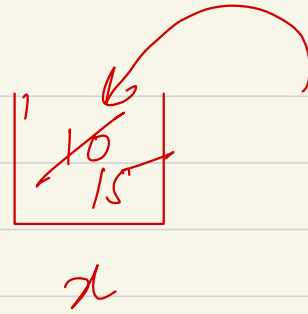
$$\underline{x = y};$$



Second way

let $x = 10;$

$x = x + 5;$



3rd way

let $x = 10;$

$x += 5;$

Shortcut

$$x = x - 2 \quad \longrightarrow \quad x -= 2$$

$$x = x * 3 \quad \longrightarrow \quad x *= 3$$

$$x = x / 5 \quad \longrightarrow \quad x /= 5$$

$$x = x \% 3 \quad \longrightarrow \quad x \% = 3$$

$$x = x ** 5 \quad \longrightarrow \quad x ** = 5$$

assign.

operator

T1 or T2

Netflix

(Kapil Sharma
Show)

→ only those users who →

1) are registered on netflix, AND

2) those who have paid for subscription AND

logical operators

→ Logical Comp



AND

&&

OR

||

NOT

!

→ operands of a logical operator are always boolean. if we do not pass boolean then JS automatically convert them to boolean.

AND

x & y

false false \rightarrow false

false true \rightarrow false

true false \rightarrow false

true true \rightarrow true

or

x

||

y

false

false

→ false

false

true

→ true

true

false

→ true

true

true

→ true

not

!

x



$!x$

true

false

false

true