

Introduction To Java Script

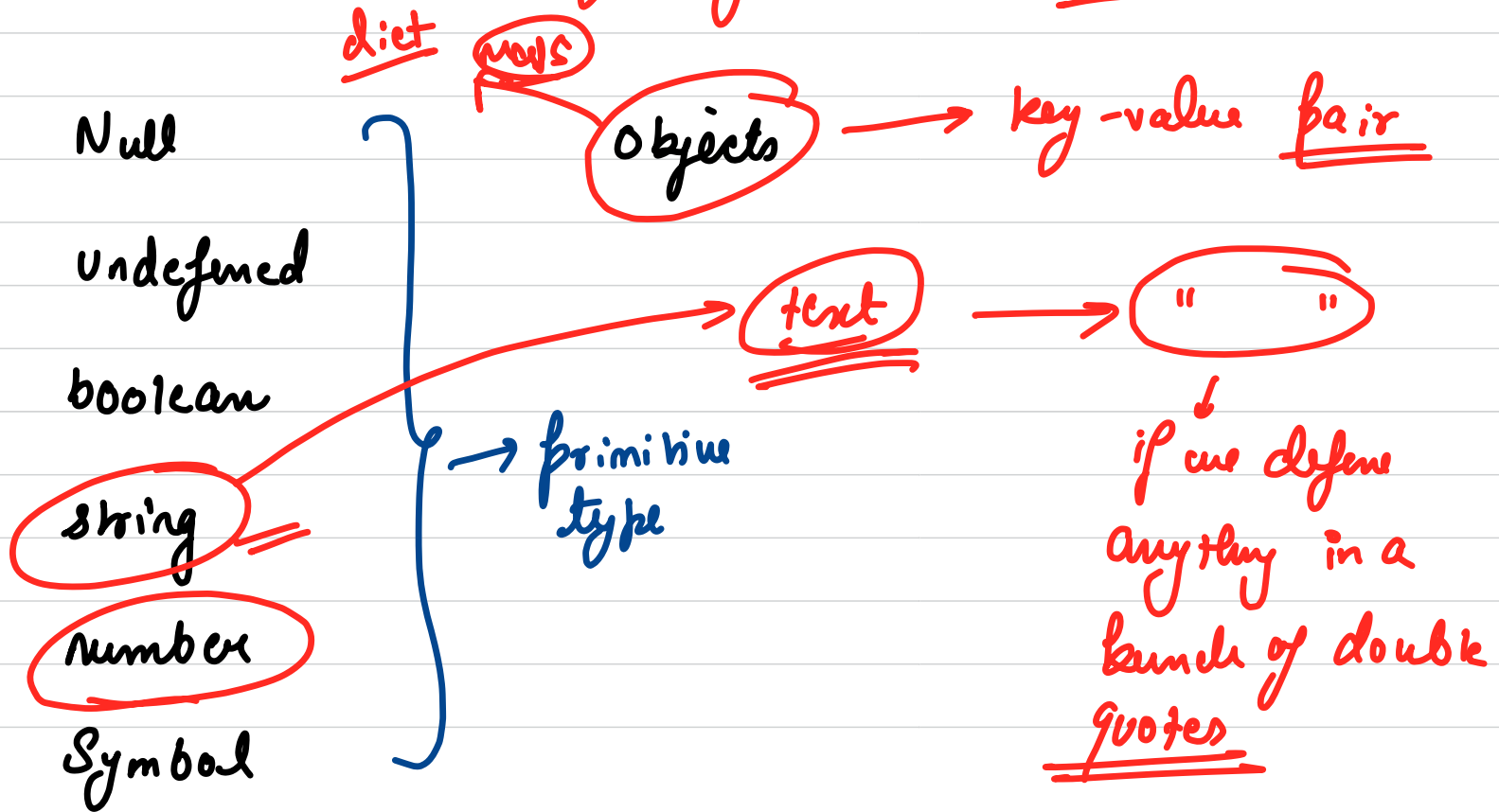
It is a multi purpose & multi paradigm ^{programming} language. ✓

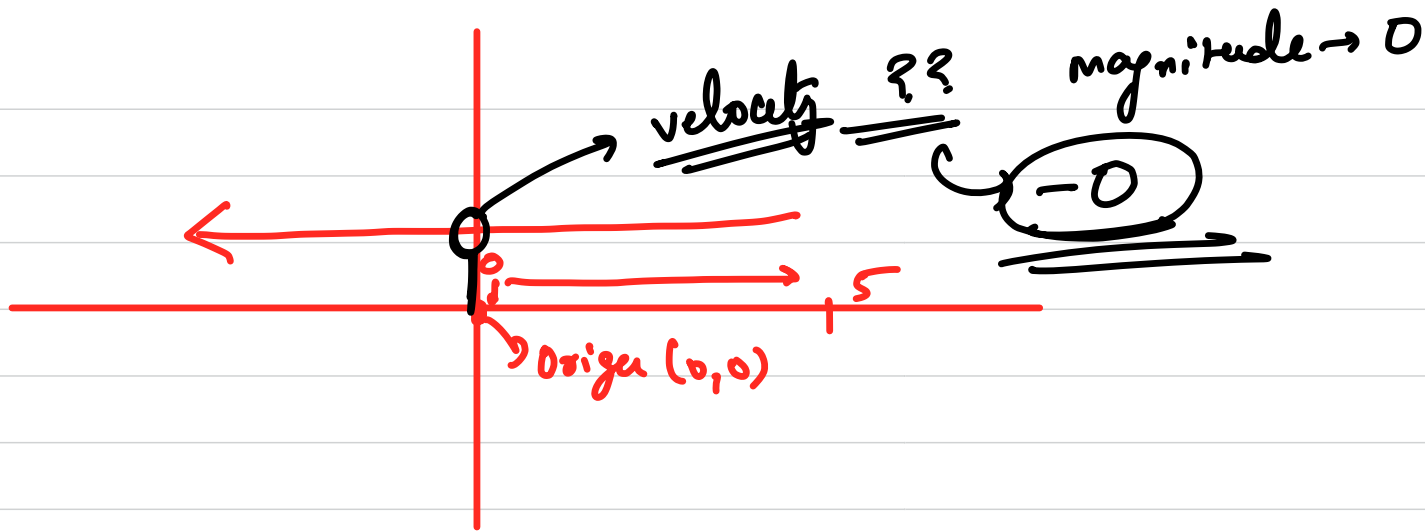
⇒ console.log (" ") (:) → not mandatory

Double quoted

if you want to show user any message

Types of values in JS





$0, -0$

→ operators

↓

type of

$$\begin{array}{rcl} 2 + 3 & \Rightarrow & \underline{\underline{5}} \\ 10 - 3 & & \end{array}$$

typeof <value> returns the type of the value.

the answer we get is a
string

typeof 12 → "number"

typeof true → "boolean"

typeof "abcd" → "string"

Type of returns us a string which contains the
type description of the value →

→

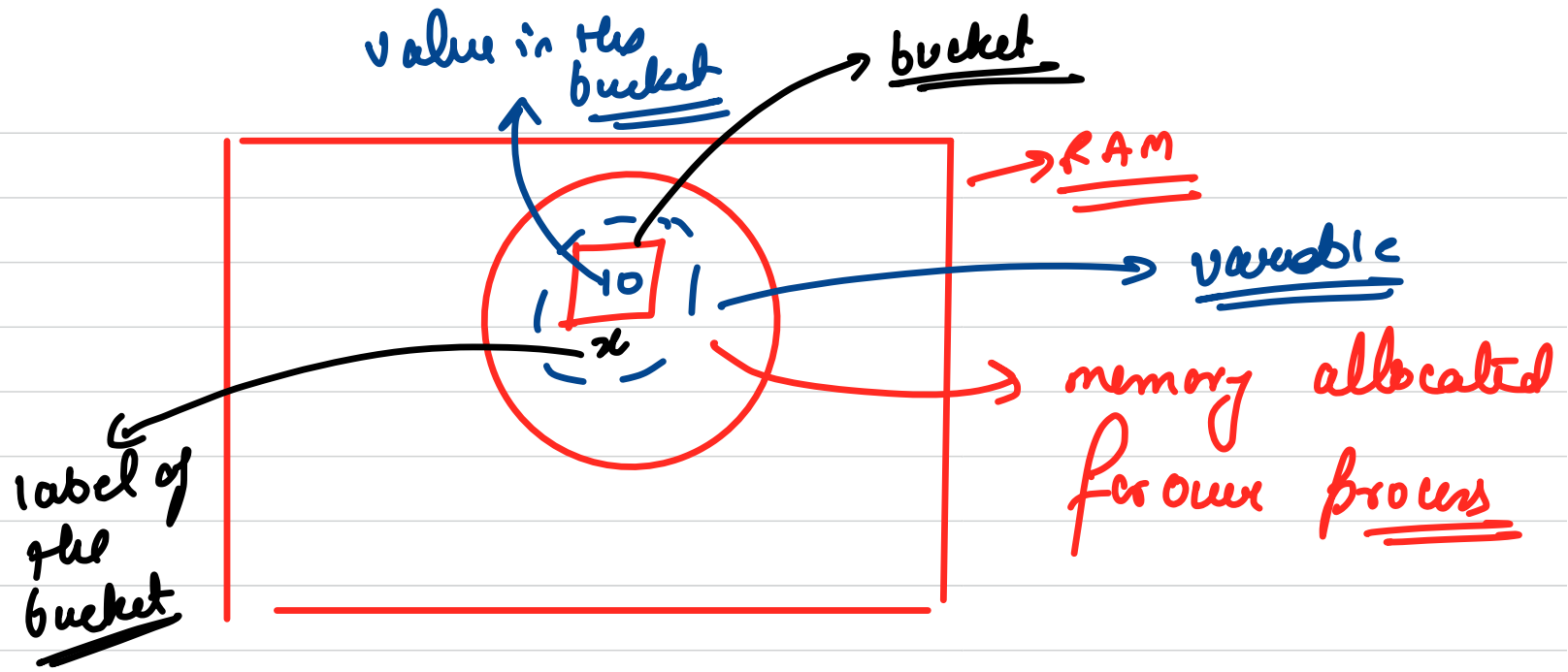
Program And Process

if we write a code in a file
that is a program

program in a running
state is called
process.

Program → Process

RAM



We need a mechanism to store the values. →

variables → variables are buckets in the memory which stores value

keywords

let <variable-name> = 10;

var <variable-name> = "abc";

const

12

```
console.log(typeof(typeof(12)));
```

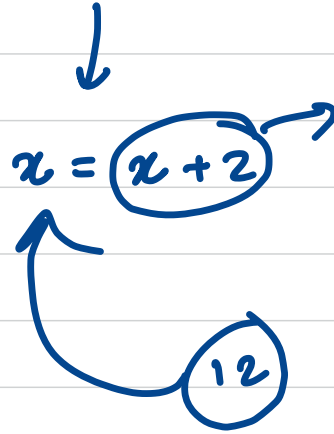
typeof(12) → "number"
typeof("number") → "string"

always return type of **typeof** is a string,
the content will be different based on argument
passed.

type of (12) → "number"

type of ("number") → "string"

let $x = 10$;
 $x += 2$



First add 2 to the value of x & then assign the new value to x

logic gate → AND

OR

NOT

NAND

↳

AND

→

&& → logical
and

OR

→

|| → logical
or

NOT

→

! → logical
not

for logical operator, the operands are evaluated
to booleans & then operators are applied.

```

console.log(4 && 0); // 0
console.log(4 || 0); // 4
console.log(0 && 4); // 0
console.log(0 || 4); // 4

```

AND

a	b	result
T	T	T
T	F	F
F	T	F
F	F	F

OR

a	b	a b
T	T	T
T	F	T
F	T	T
F	F	F



Short circuit

3 // 4
- -

(3) & & (4) →

T	T	T
T	F	T
F	T	T
F	F	F

AND

T	T	T
T	F	F
F	T	F
F	F	F

