

# JAVASCRIPT SYNTAX

Python

a = 2;

→ JavaScript

var a = 2;

↳ let

↳ const

a = True / False

a = true / false

and

&&

or

||

Print

console.log ( )

def nameles;

return

function name (arg) {

return

}

if ( ):

if ( ) {

elif ( ):

} else if ( ) {

else:

} else {

}

while (ctr < 10) {

while (ctr < 10) {

ctr = ctr + 1;

}

ctr++;

if index counter

initialization of index counter

stop condition

for (ctr = 0; ctr < 10; )

for (var ctr = 0; ctr < 10; ctr++)

increment

ctr++;

}

}

flag = false  
for ( ; flag == false ; ) {  
    ↓

if ( ) {  
    flag = true

{ curly

}  
[ Square / brackets

( round

}

$a = [2, 3, 4]$

var  $a = [2, 3, 4]$ ;

len(a)

$a.append()$

$a.pop()$

$2$  in  $a \Rightarrow True$

$\Rightarrow$

$a.index(2) > -1$

key

key

$a.index$   
exists

$a.length$

$a.push()$

$a.pop()$

$a.index(2) \Rightarrow 0$

$(3) \Rightarrow 1$

$(7) \Rightarrow -1$

Max(L)

$\Leftrightarrow$

Sum(L)

min(L)

import random

Random.random()

Math.random()

function is also a  
Variable

function sum(a,b) {  
 return a+b; }

operate(3,4, sum)

(x)

function diff(a,b) {  
 return a-b; }

$n_{\text{sum}} - n'$  is also

$sum, diff$

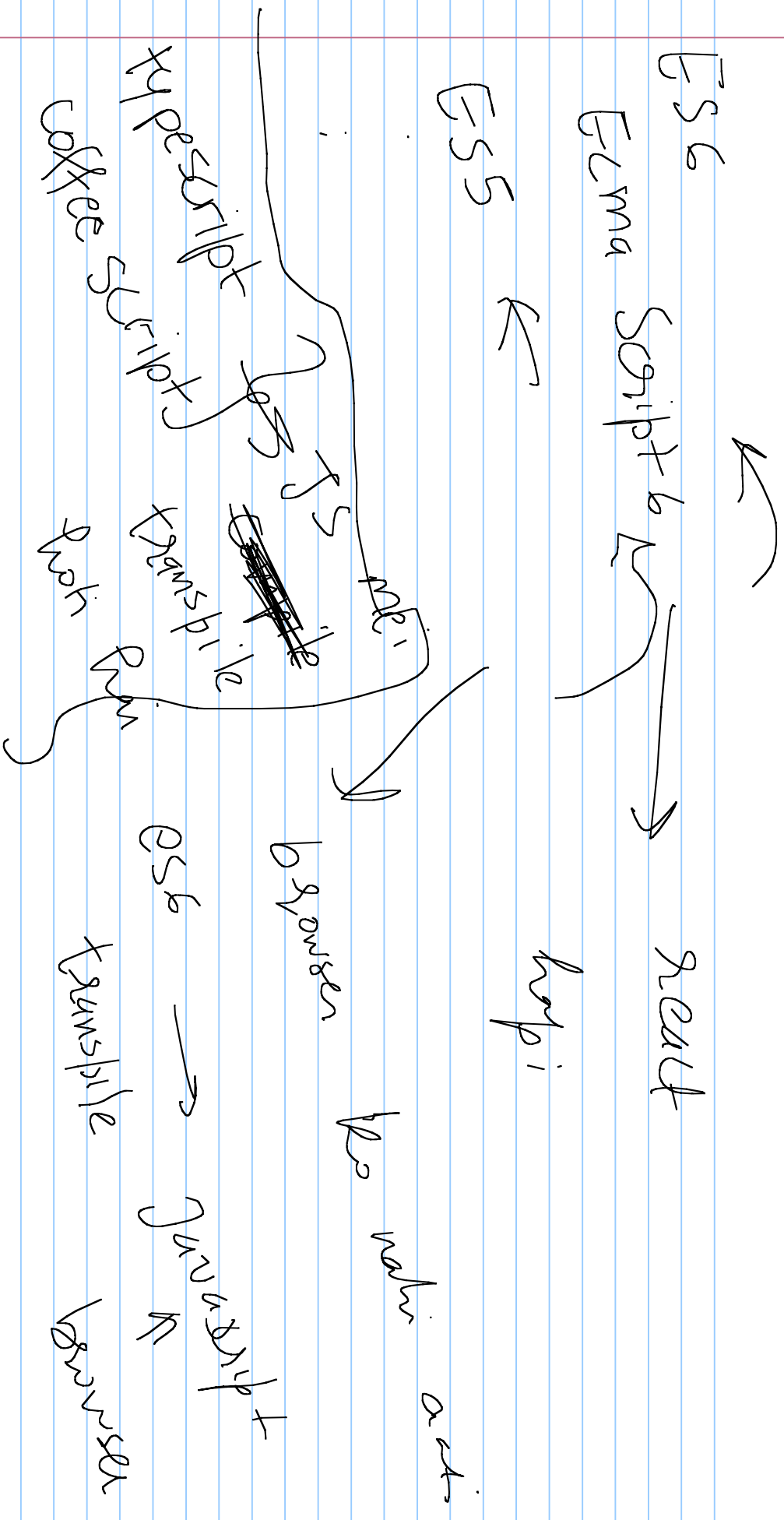
$n = sum$

a function

function operate(num1, num2, f) {  
 return f(num1, num2); }

return f(num1, num2); }





$a = 0$  (num1, num2)  $\Rightarrow$  {return num1 + num2}

Var a = 6; [global variable]

↓  
let [local variable]

const a = 9;

ES6

$\Rightarrow$  (lambda maths)

$$a = [1, 2, 7, 9, 13, 14, 16, 18]$$

$$a.map(\otimes x) \Rightarrow (\otimes x \otimes x)$$

$$a.filter\ x \Rightarrow x \% 2 == 2\ 0$$

$$\begin{aligned} & \begin{bmatrix} \text{map} \\ \text{f}(-) \end{bmatrix} \\ & \begin{bmatrix} \text{filter} \\ \text{f}(-) \end{bmatrix} \end{aligned}$$

function checkEven(x) {

if (x % 2 == 0) {  
return true; }

return false; }

a.filter(checkEven)

```
JsonResp = [ { "name": "Ravi" , ... }  
              { "name": "Vallu" , ... }  
              ]
```

↳

```
JsonResp.map(x => x.name)
```

$x["name"]$   $\xrightarrow{\text{python}}$   $x.name$   $\xrightarrow{\text{JS}}$

$a = \{x_{1,1}, \dots, x_{1,1}\}$

$s_{1,1,2}$

$a = \{x_{1,1}, \dots, x_{1,1}\}$

$s_{1,1,2}$

$a(x_{1,1}) = s_{1,1,2}$

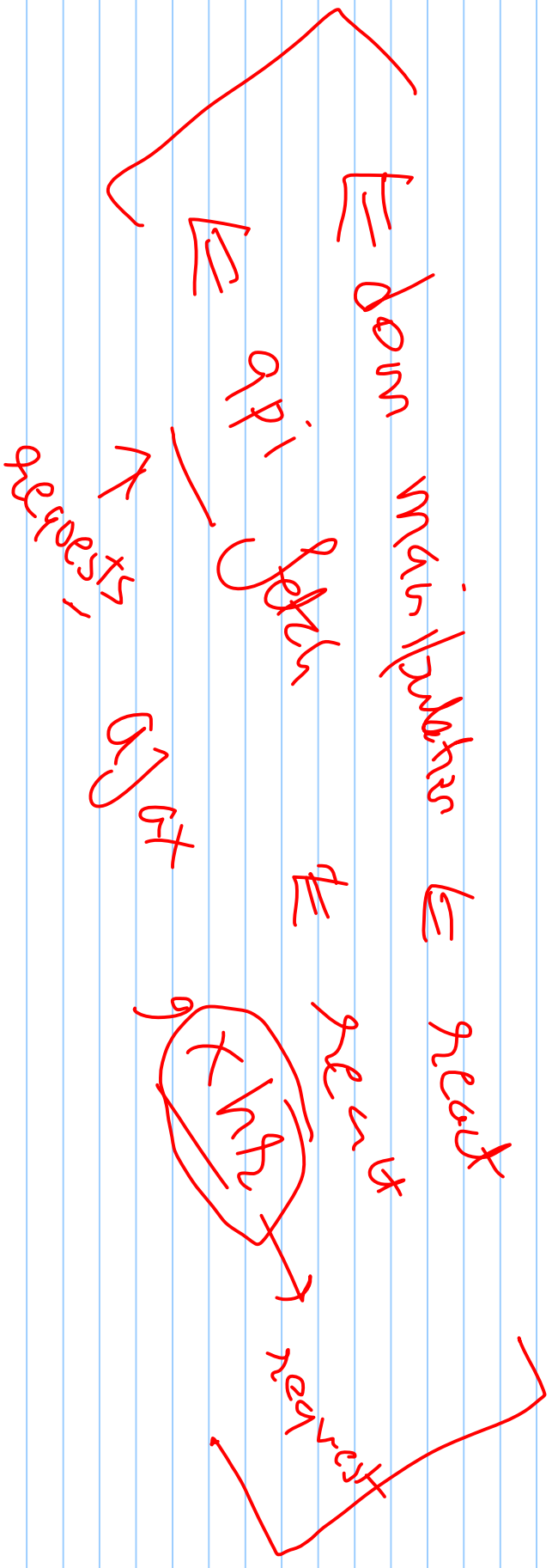
$a(x_{1,1}) = s_{1,1,2}$

$a \cdot x$

$a \cdot s$

$a[x_{1,1}]$

JS is a programming lang

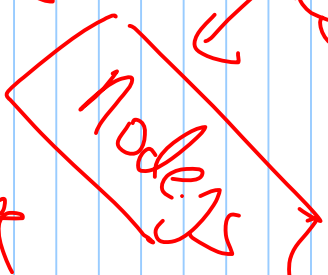


import

glaze

1.2k

<Script src="myfunc.js">



npm  
node  
package  
manager

require

main

1.1) import





Selfincent (300, 8)  
= 8)

(2000, 8)

Selfincent  
= 8

~~Selfincent~~  
= 8