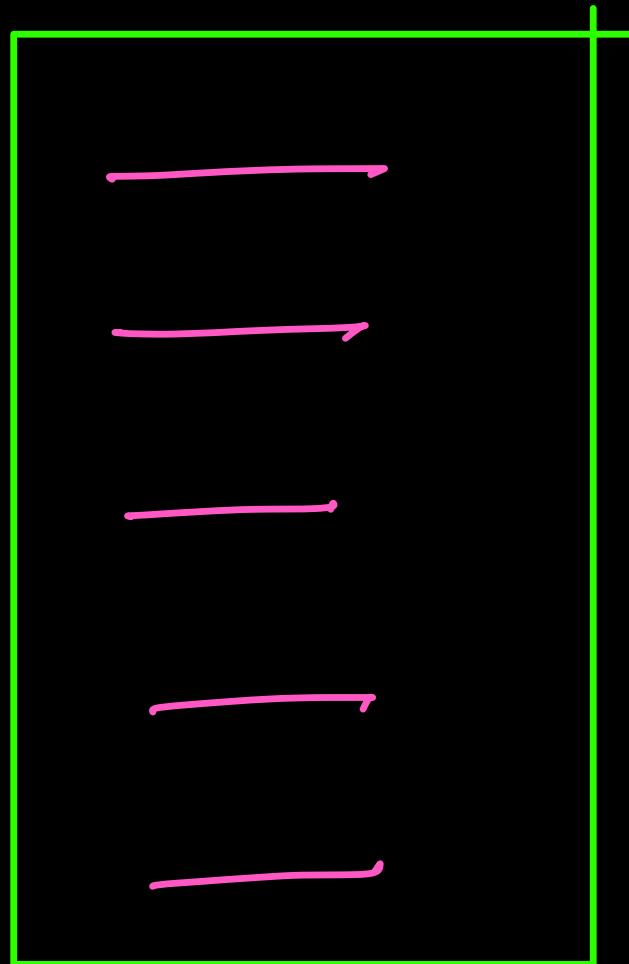# Async Prog ← VVI

- → Callbacks
- → Problems with Callbacks
- → Inversion of Control
- → Promises
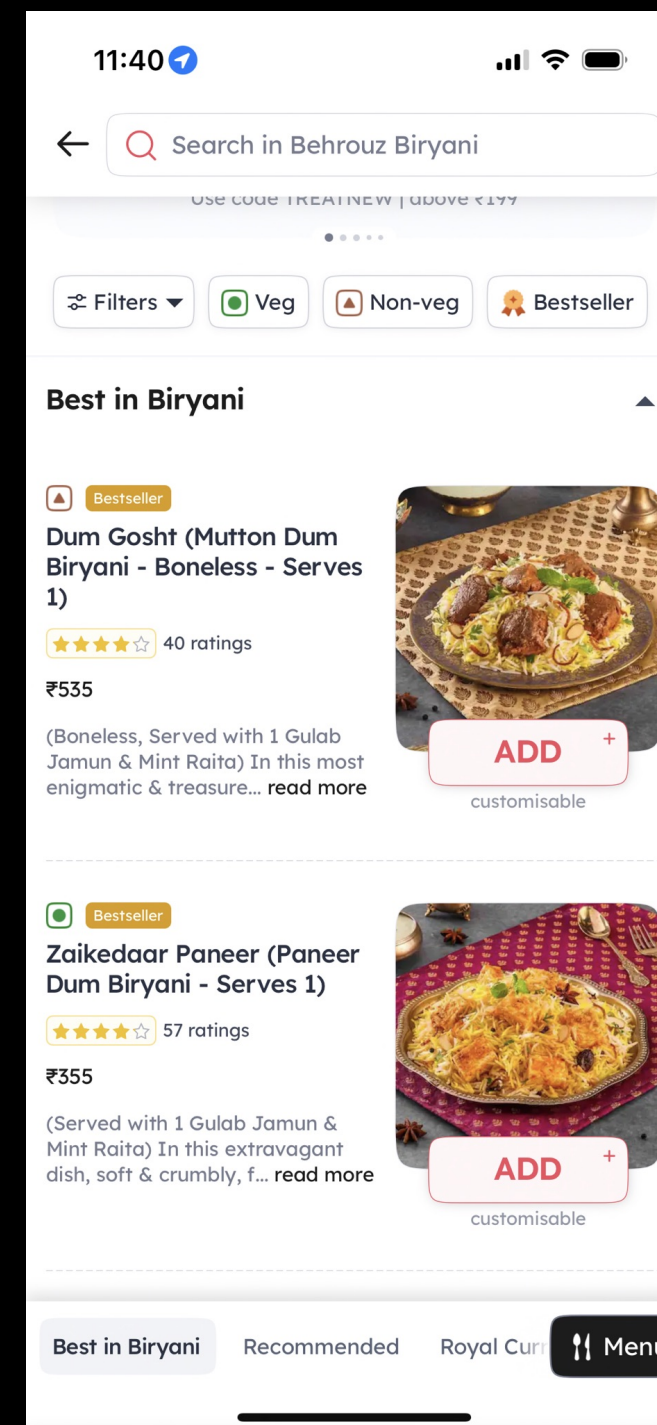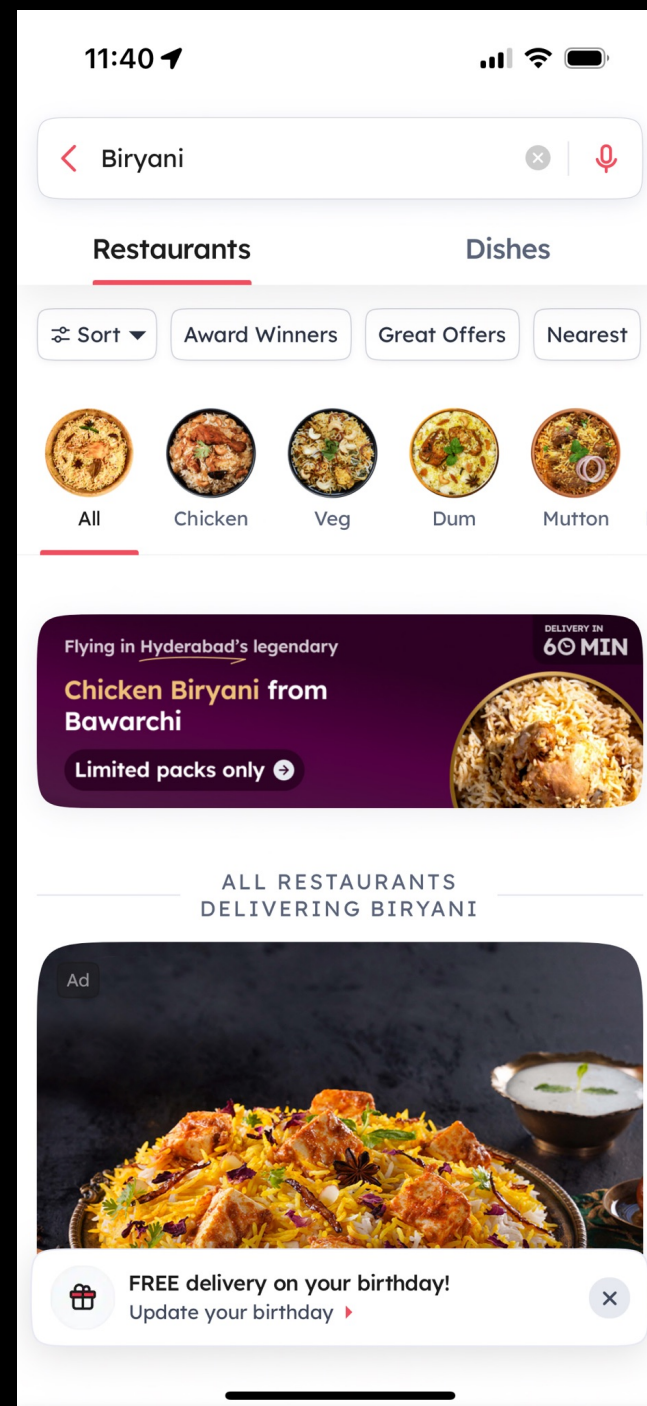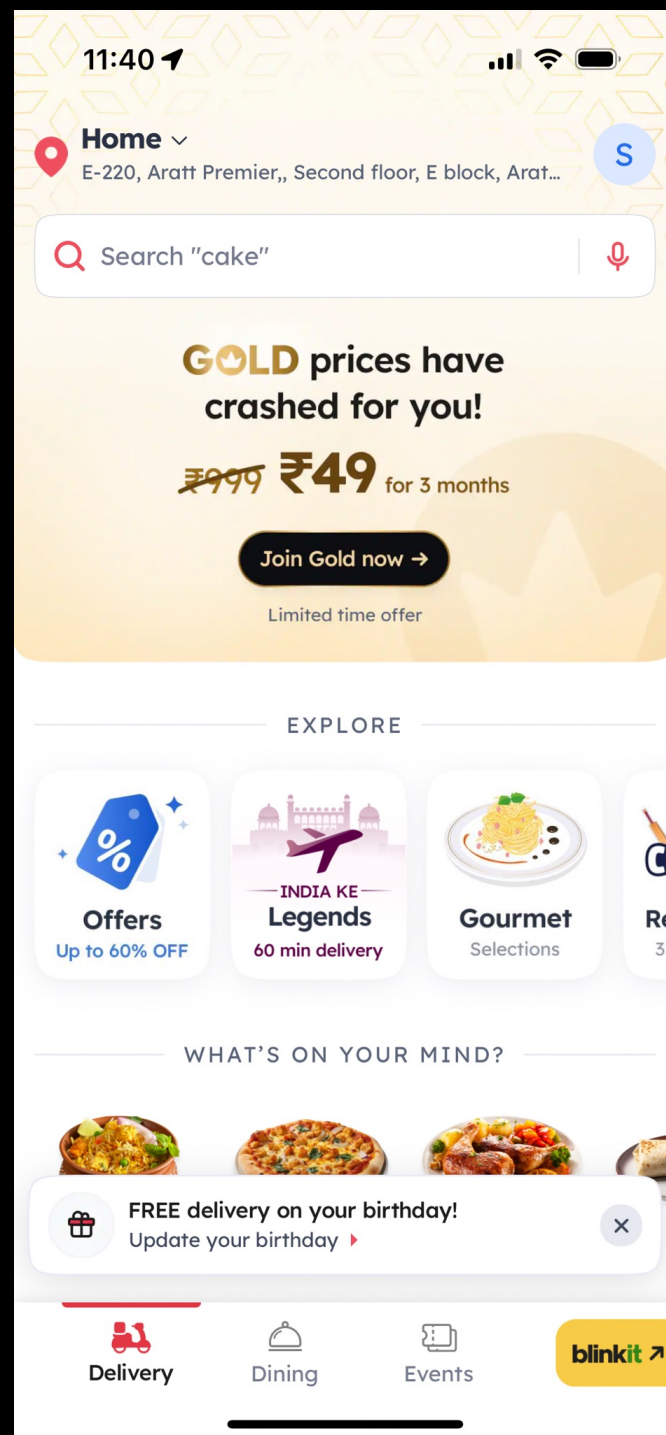- → Async await

Real World Programming Exp

anytly you write as-of-now executes line by line, one after another.

Synchronous Programming

↳ Sequential

• if there is a time consumy task you wait for it.

Screen 1:

11:40

Home ⌄
E-220, Aratt Premier,, Second floor, E block, Arat…

🔍 Search "cake"

GOLD prices have **crashed for you!**

₹999 **₹49** for 3 months

Join Gold now →

Limited time offer

EXPLORE

Offers Up to 60% OFF

INDIA KE **Legends** 60 min delivery

Gourmet Selections

WHAT'S ON YOUR MIND?

🎁 FREE delivery on your birthday!
Update your birthday ▸ ✕

Delivery | Dining | Events | blinkit ↗

Screen 2:

11:40

← Biryani 🎤

Restaurants | Dishes

⚙ Sort ⌄ | Award Winners | Great Offers | Nearest

All | Chicken | Veg | Dum | Mutton | H…

Flying in Hyderabad's legendary
Chicken Biryani from Bawarchi
DELIVERY IN 60 MIN
Limited packs only ➤

ALL RESTAURANTS DELIVERING BIRYANI

Ad

🎁 FREE delivery on your birthday!
Update your birthday ▸ ✕

Screen 3:

11:40

← 🔍 Search in Behrouz Biryani

Use code TREATNEW | above ₹199

⚙ Filters ⌄ | 🟢 Veg | 🔺 Non-veg | 🏅 Bestseller

Best in Biryani ▲

🔺 Bestseller
Dum Gosht (Mutton Dum Biryani - Boneless - Serves 1)
★★★★ 40 ratings
₹535
(Boneless, Served with 1 Gulab Jamun & Mint Raita) In this most enigmatic & treasure… read more

ADD +
customisable

🟢 Bestseller
Zaikedaar Paneer (Paneer Dum Biryani - Serves 1)
★★★★ 57 ratings
₹355
(Served with 1 Gulab Jamun & Mint Raita) In this extravagant dish, soft & crumbly, f… read more

ADD +
customisable

Best in Biryani | Recommended | Royal Curr | 🍴 Menu

low internet

What is happening?!

Post

Rishabh Bansal ✔ @rishabhbansal97 · 10h

This is the problem that we all should speak about. The problem is not IGDTUW; it's the recruiting teams at these big-wigs.

> **Rishabh Bansal** ✔ @rishabhbansal97 · 10h
>
> Replying to @adityaoberai1
>
> I could be wrong, but I believe diversity hiring is a sham.
>
> There are women in Tier 2 and Tier 3 universities who are qualified for these positions, but these companies only do diversity programs at universities like IGDTUW. ...
>
> Show more
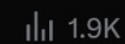
💬 4 🔁 ❤ 9 📊 1.9K

Tanya Rajhans @tanyarajhans7 · 7h

I would have texted them that I am contemplating opening a momos or a tea stall

> **Anjali Goswami** @anjaligoswamiii · 15h
>
> work for 8 hrs per day and, 1000 per month stipend.
> Dihaadi majdoor hire kar rhe ho kya?
>
> Hello Anjali,
>
> Check out the details of the internship below:

Home

Explore

Notifications

Messages

Grok

Lists

Communities

Premium

Profile

More

Post

Sanket Singh 🧑‍💻🚀
@isanketsingh

Subscribe to Pr

Subscribe to unlock n
eligible, receive a shar

Subscribe

What's happeni

Messages

JOIN THE DARKSIDE

In real world apps, they might not work sequentially.

make
payment

Booking page

Pendy State

Successful
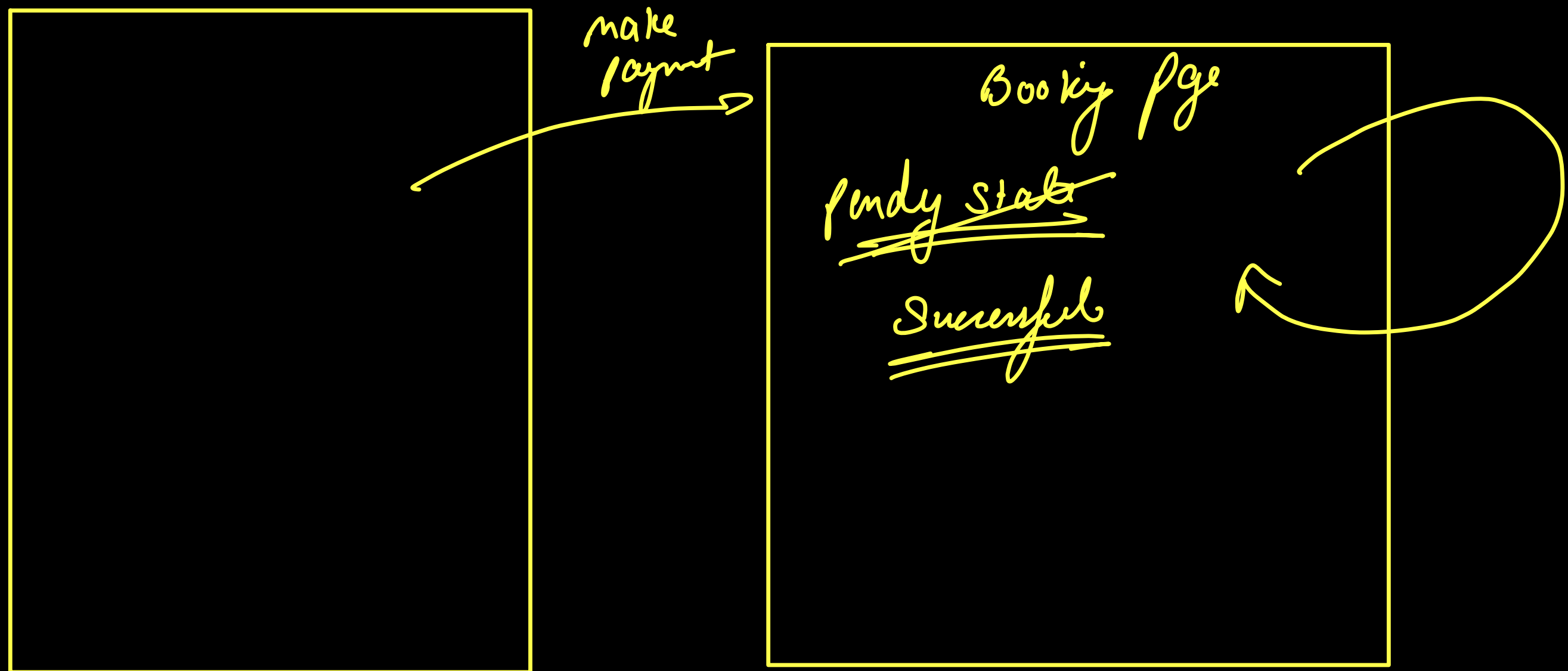
How JS handles both sync and async piece of code ??

\# *Threads*
  ↓
Lightweight Process

Processor
→ Cores
→ Clock Speed
→ Threads

[box] Program → under executs → Process

RAM

SSD / HDD

Brand ← without team detail

battery

GPU

main thread

OS

parallel threads

what happens here?;
&
Some instruction
execute
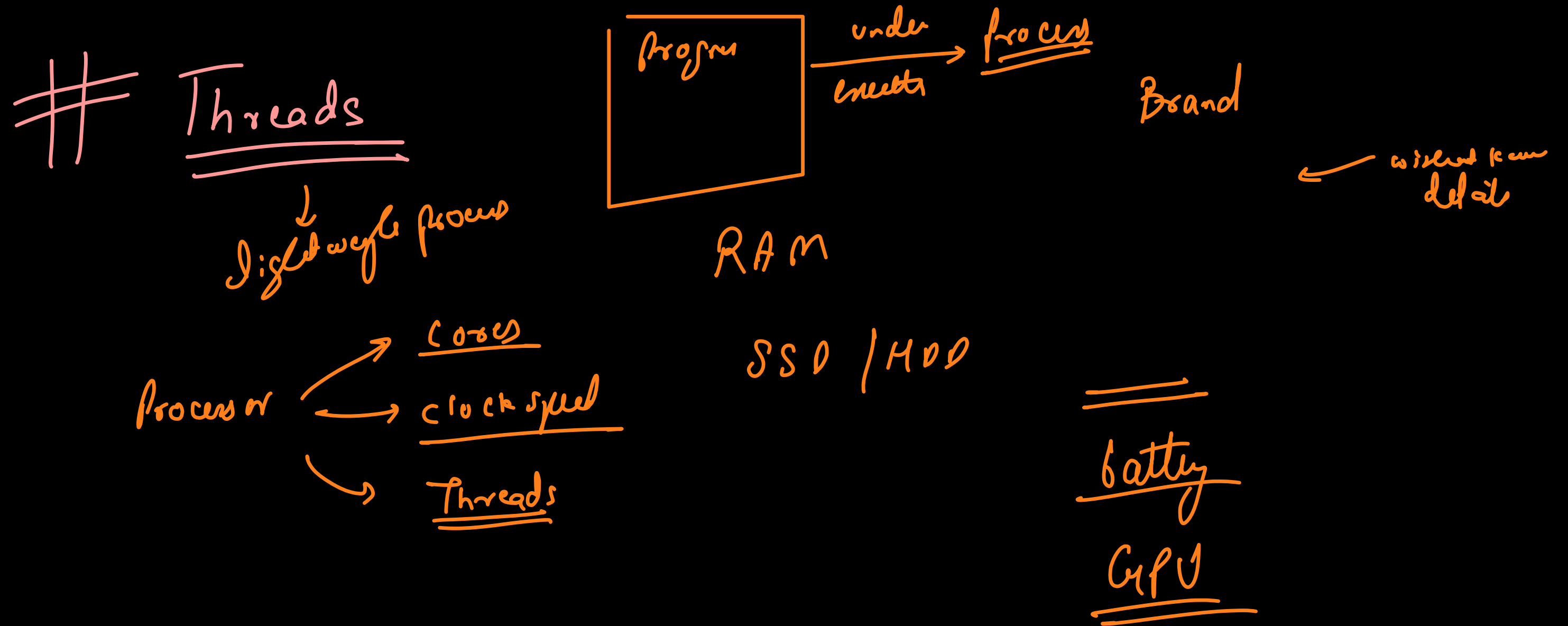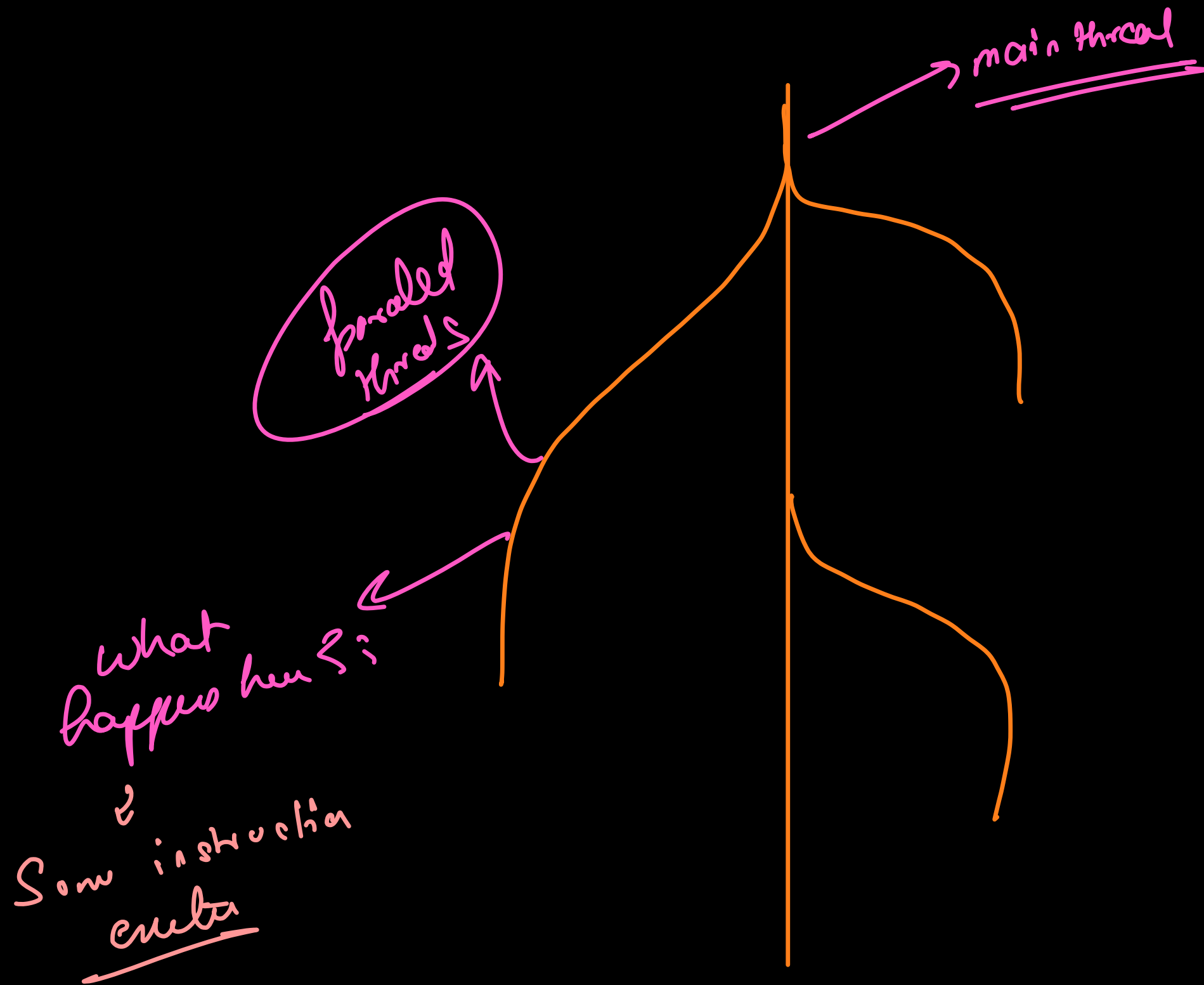
UI of the
google drive
is running on main
thread

mobile chrome
&
google drive

upload

download

Java, Python, C++, C# $\longrightarrow$ Support multi threading

Javascript $\longrightarrow$ Single threaded

Curious

Canvas.com
< gd
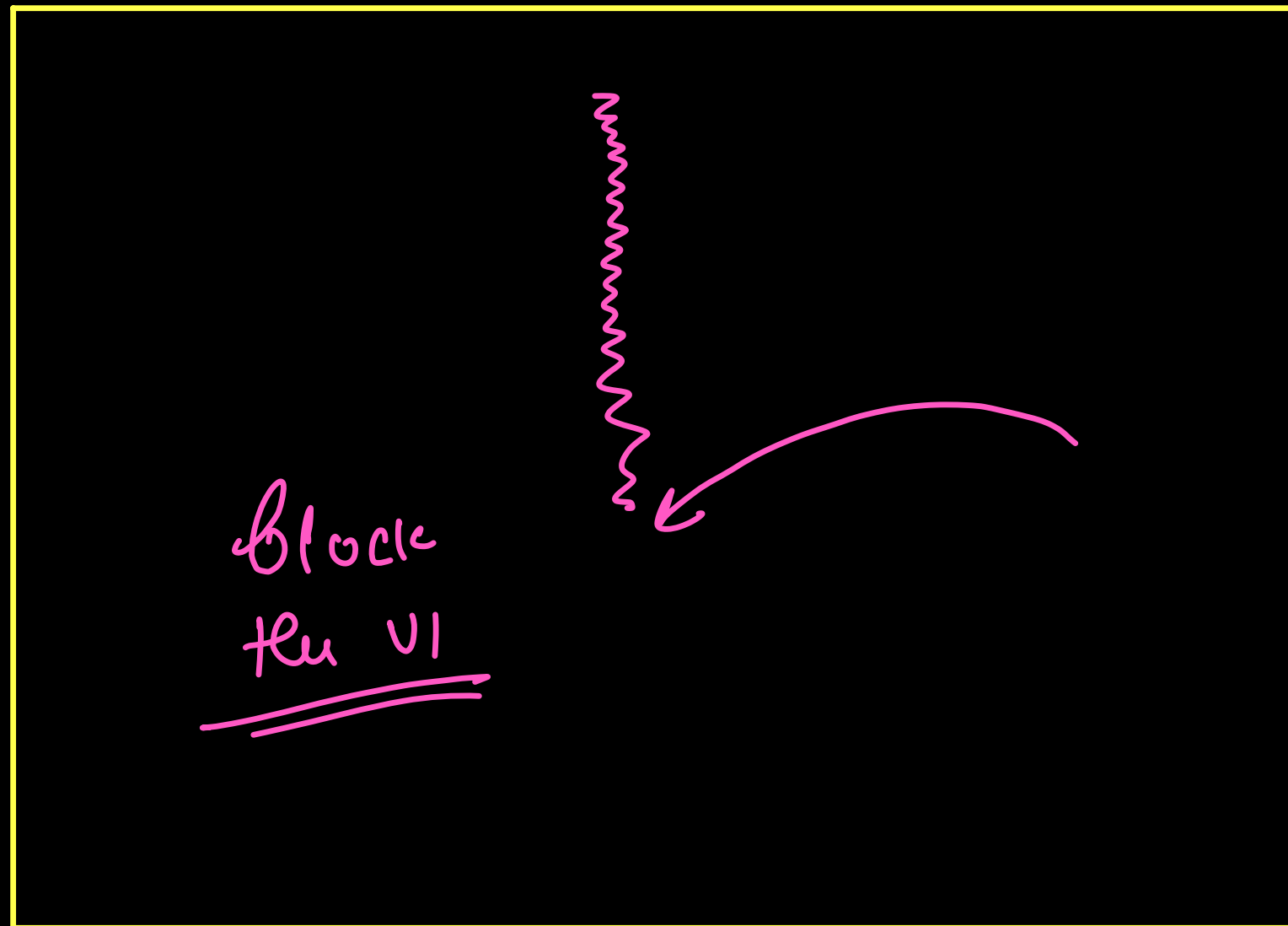
Block
the UI

```
console.log ( ... )
console.log [ ... ]
for ( i=0; i<10^10 ; i++) {?}

console.log ( ... )        (blocking)


         Sync
```

```
console.log ( ... )
console.log [ ... ]

setTimeout ( () => { }, 5000);
                    ↳ non-blocking
console.log ( ... )
```

How async nature of JS works??