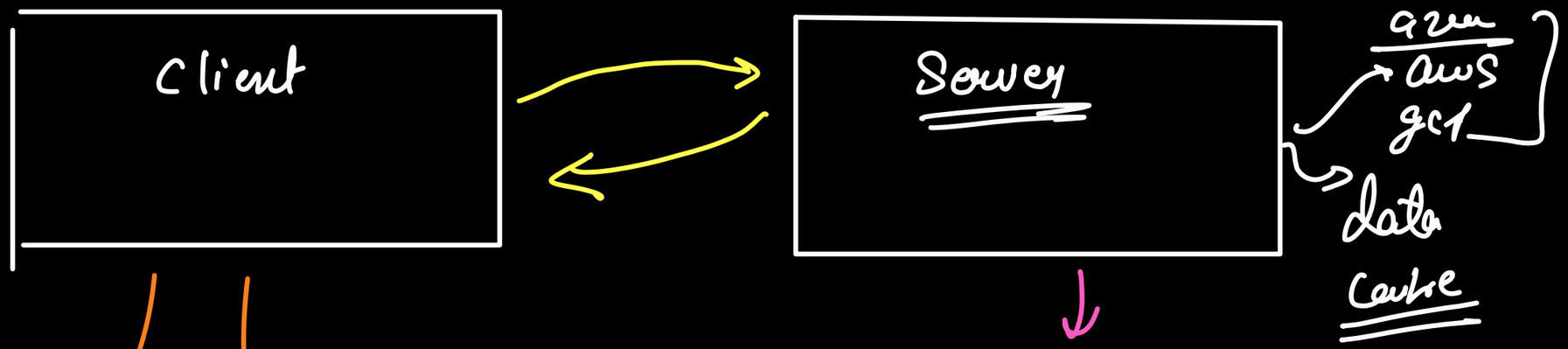
→ bcoz of nodejs now we can run JS on our local machine & JS will be able to access the OS resources.

↳ to make network request-

1. → networking
2. Database
3. Safety Standard
4. Security
5. Business logic

Journey of a network request

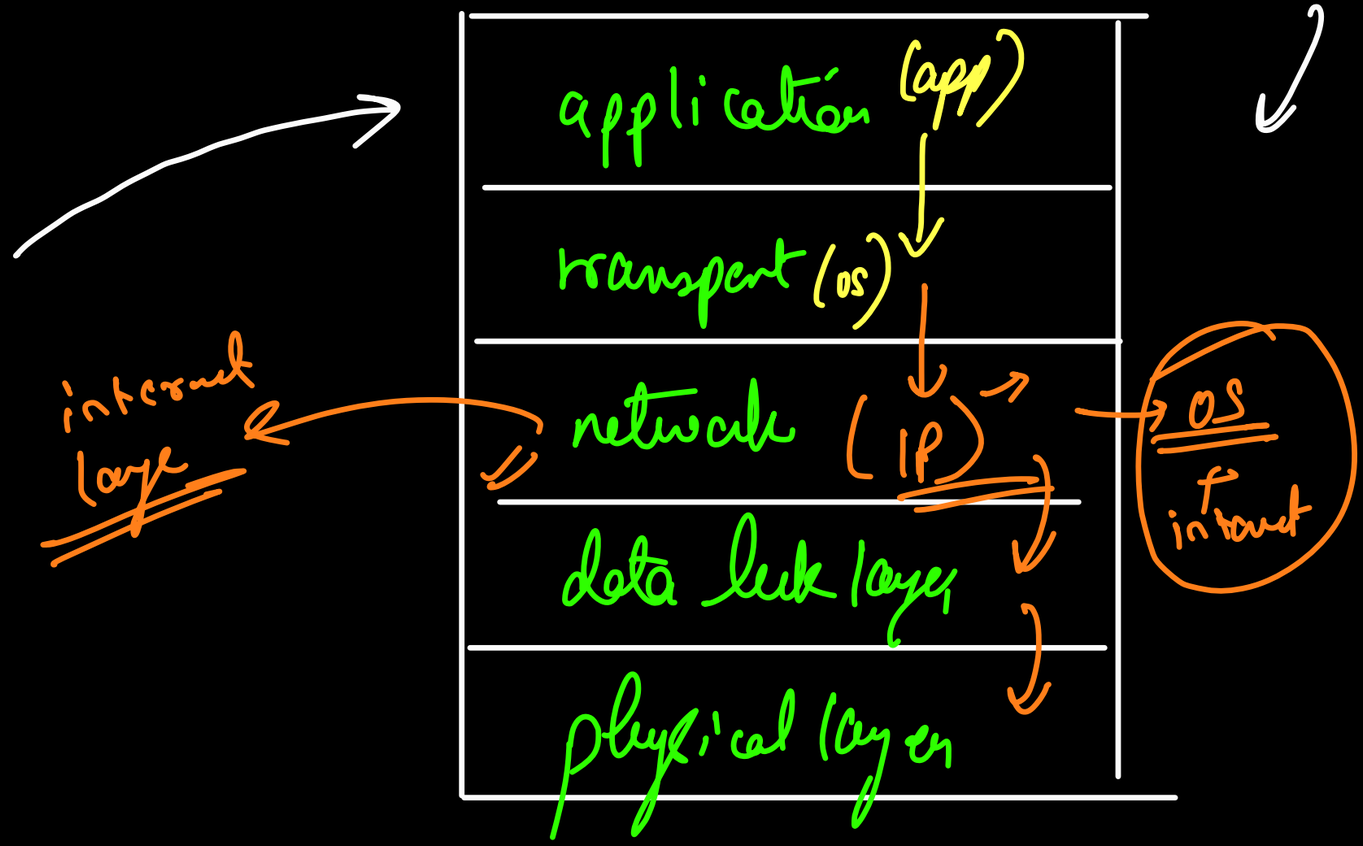


grows w
↳ Buy
EMI mandate

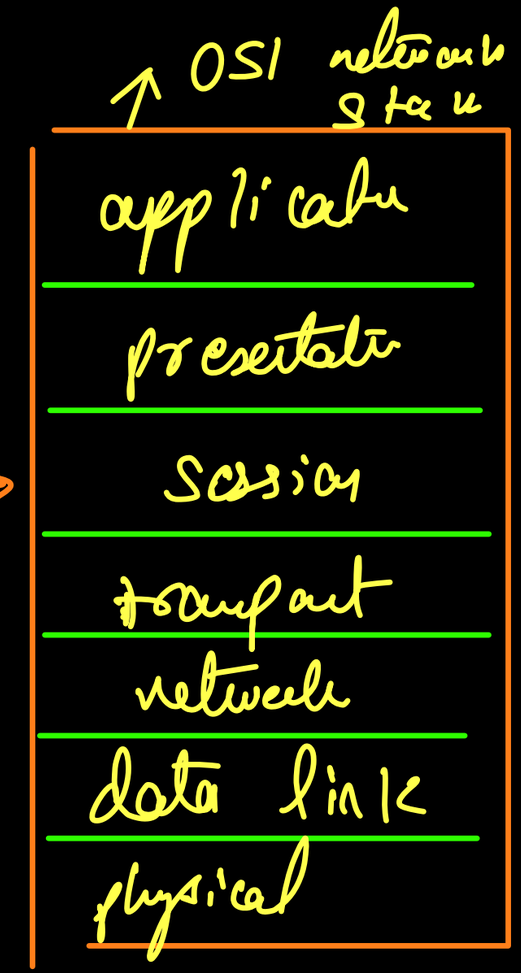
↓
Collect req
process
send resp.

This is the layer that our users can access

This is the layer capable of initiating a req.



TCP/IP network stack



conceptual architecture

Zomato

Rest

req

↳ HTTP → reliable

HTTP

TCP

VOIP

UDP

↑

app layer

protocols

↳ http

https

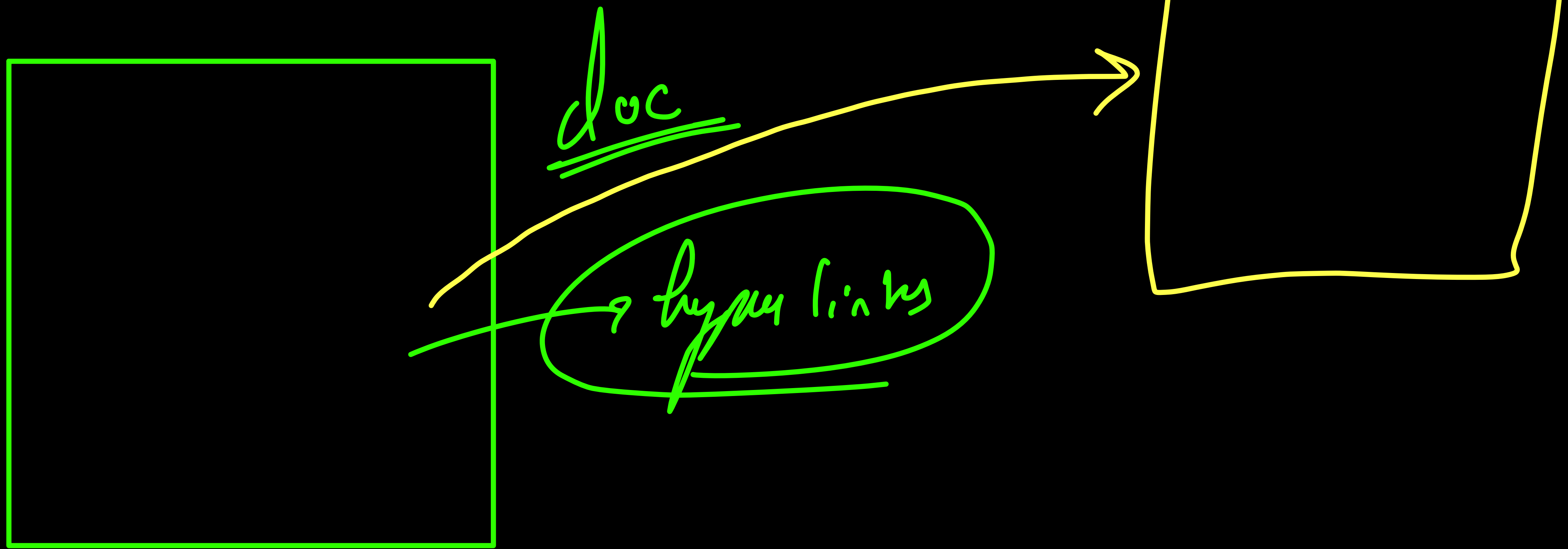
Smtp

ftp

app layer protocols

http
↓
hyper text transfer protocol

html
↓
hyper text markup lang



break down your incoming data from app layer ← Transport → clearly reliable / unreliable conn

TCP → segments

UDP → datagrams

in a small company

sliding window protocol

reliable

unreliable

http

TCP

no data loss

slow

VoIP

UDP

supports data loss

fast

application layer protocol

↓

transport layer protocols

Interviews

c/g oncampus

MCQ

actuals

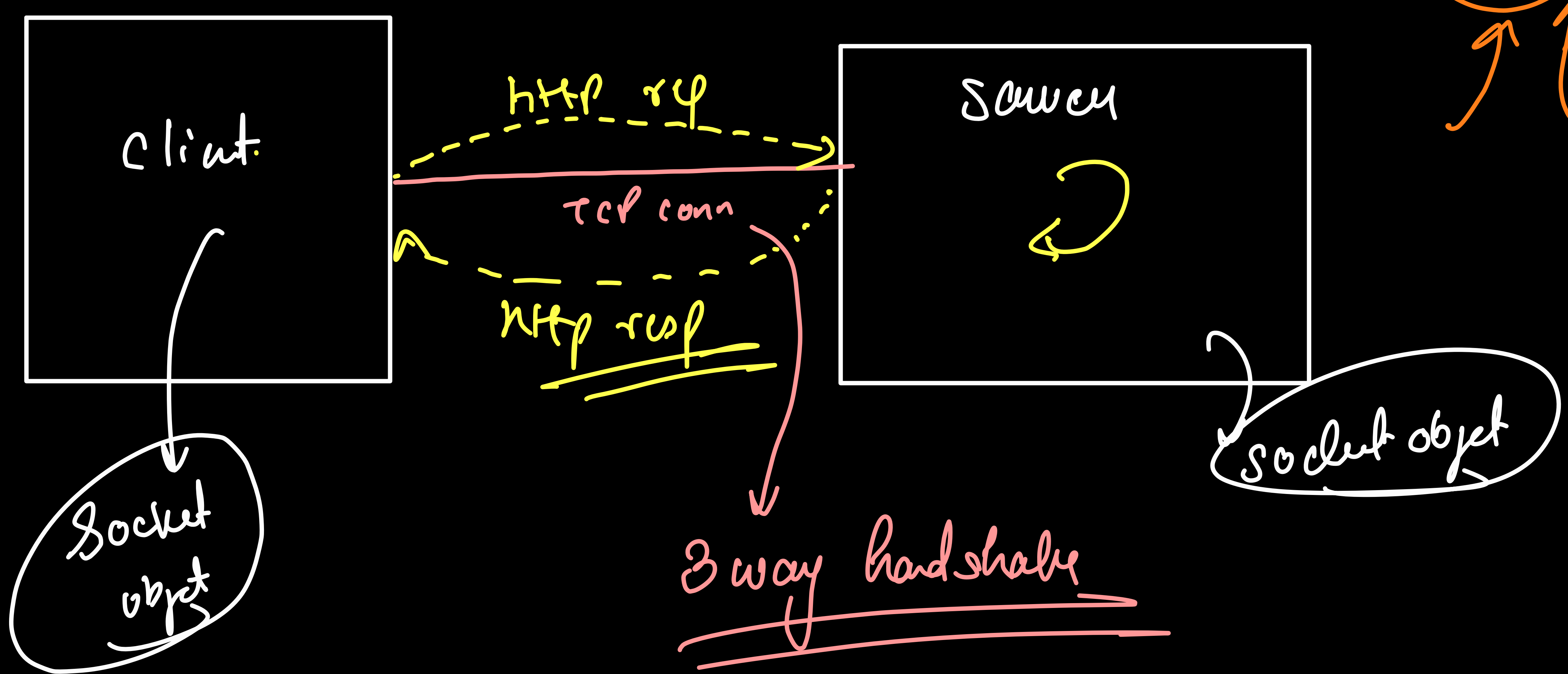
↓

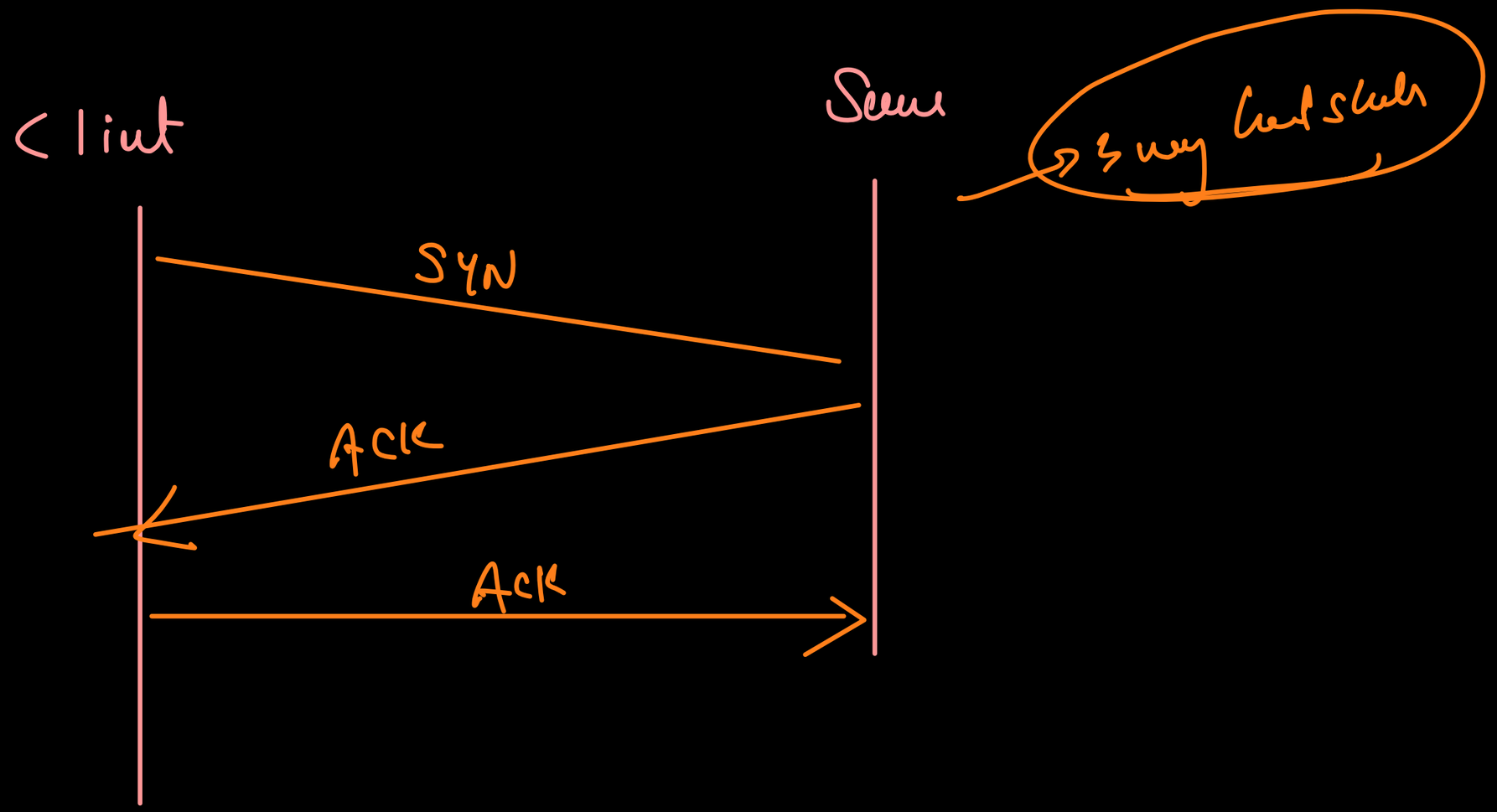
Torrents

app, ...

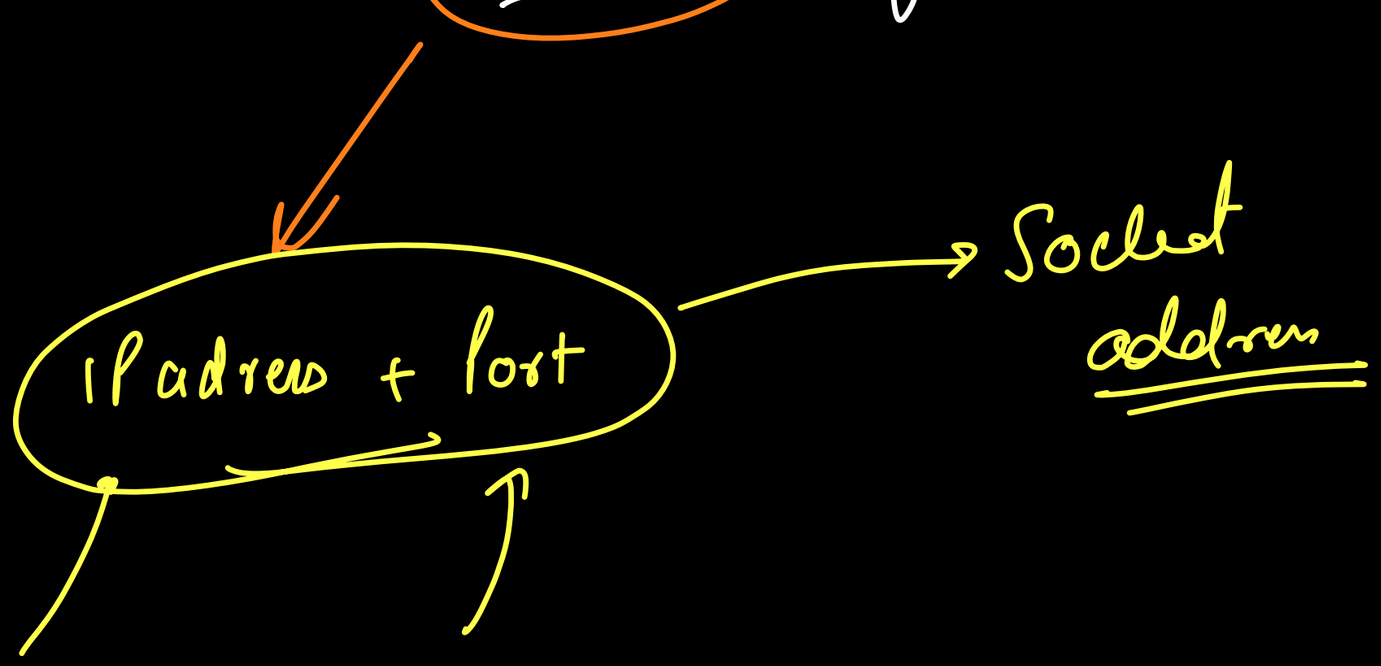
↓

TCP,




Client
Server
SYN
ACK
ACK
Every handshake

Socket Programing (not websockets)



udp → dgram

framework → Express / Fastify

↓

http module → node JS

↓

net module → TCP Level

JOIN THE DARKSIDE