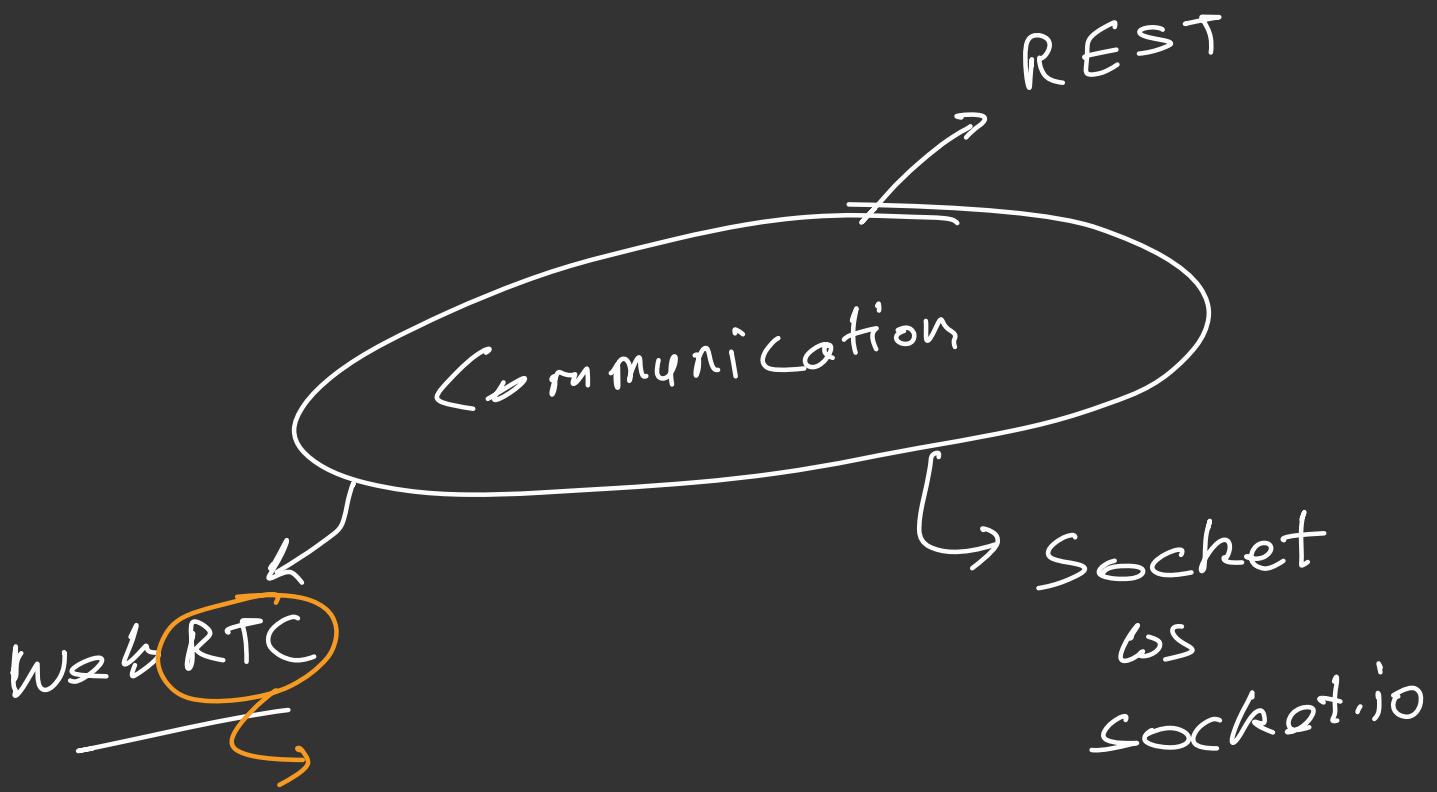
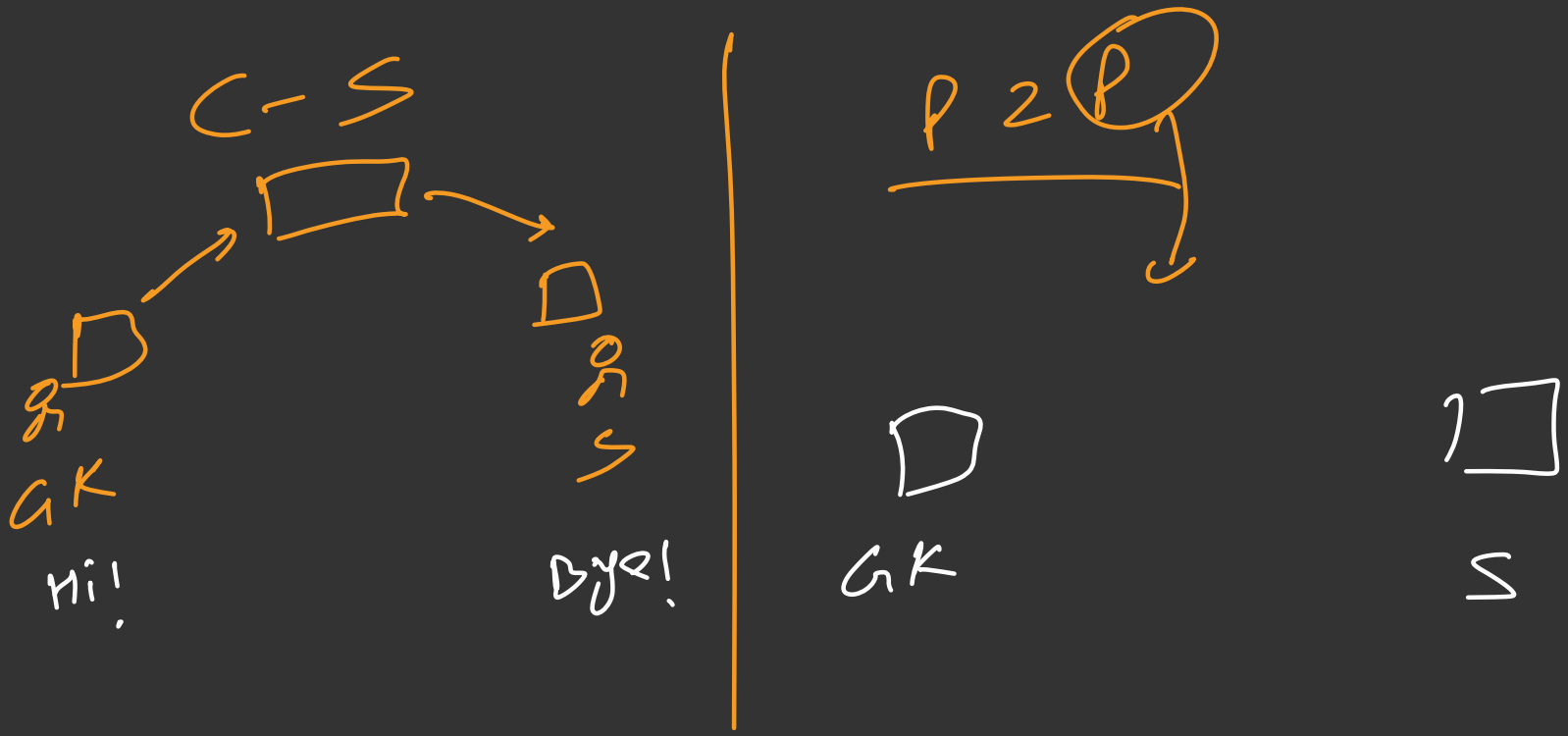
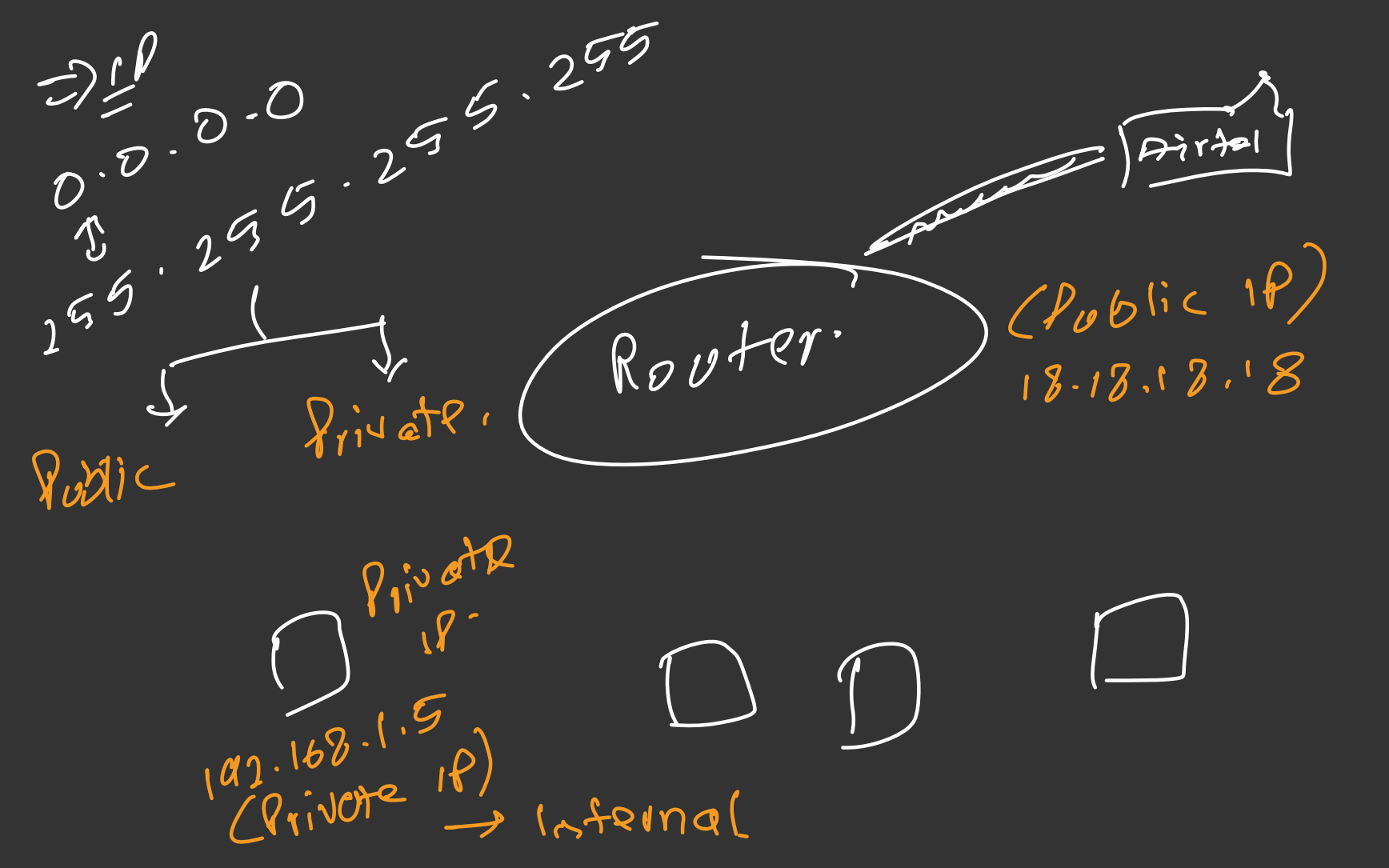

REST
Communication
WebRTC
Socket
ws
socket.io


C-S
GK
Hi!
S
Bye!
P2P
GK
S


⇒ IP
0.0.0.0
↕
255.255.255.255
Public
Private
Router
Airtel
(Public IP)
18.18.18.18
Private IP
192.168.1.5
(Private IP)
→ Internal

Public IP

→ Provided by ISP

→ limited

0.0.0.0 → 255.255.255.255 *

→ 18.18.18.18

Private IP

→ Router:

→ external use.

NAT

Network Address Transl

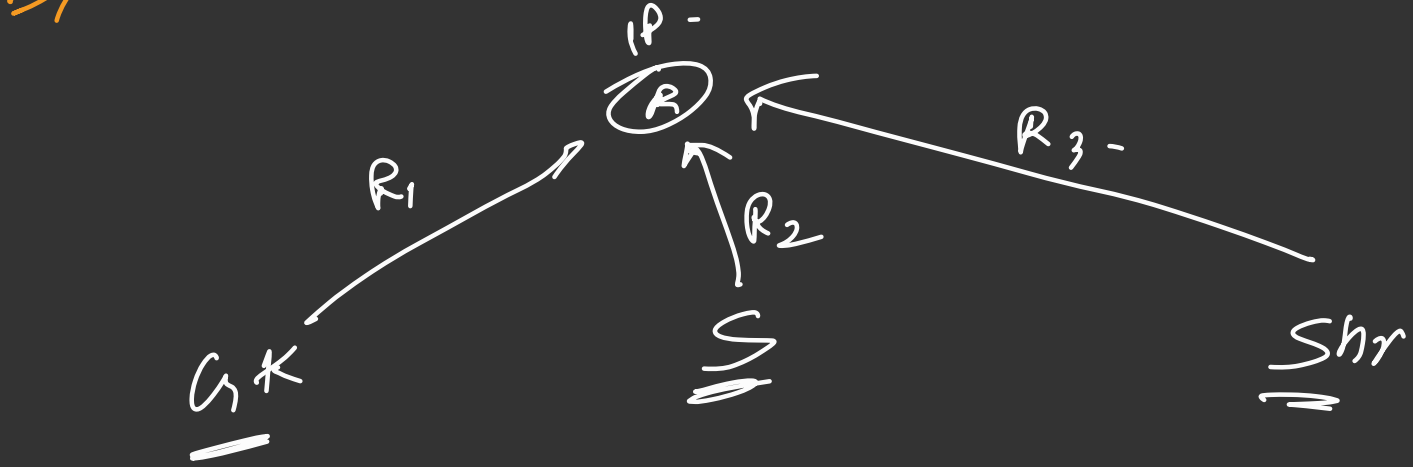
→ 192.168.1.0

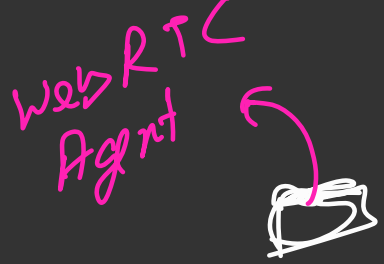
FB

Insta

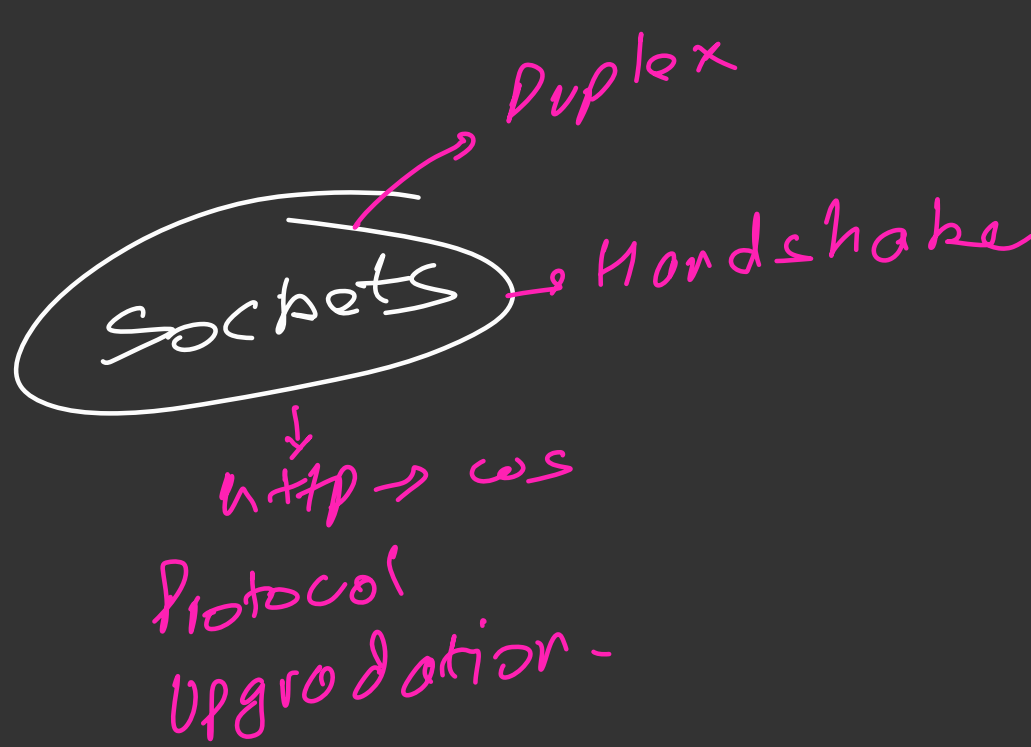
Google.

⇒ NAT



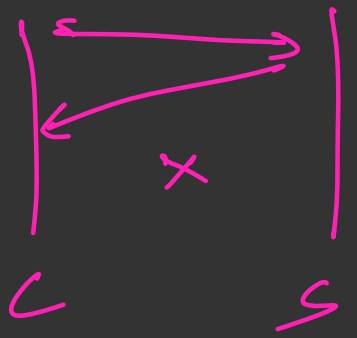


→ WebRTC → client-side technology
↳ Does not care about care about signalling server.


Duplex
sockets
Handshake
http → ws
Protocol
Upgradation -

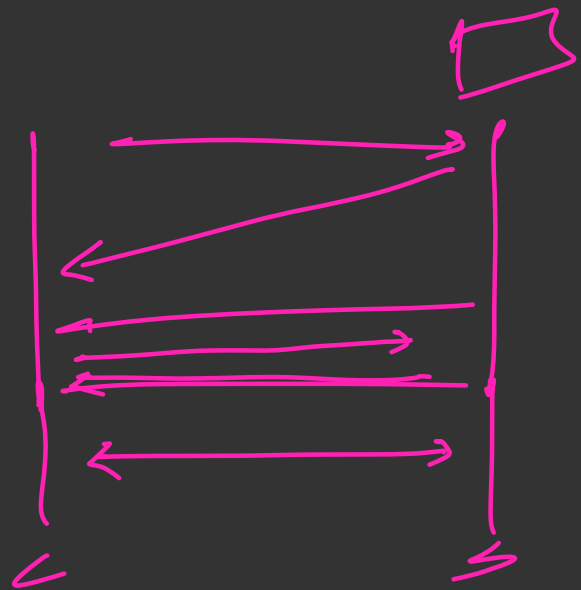
REST

High



Socket

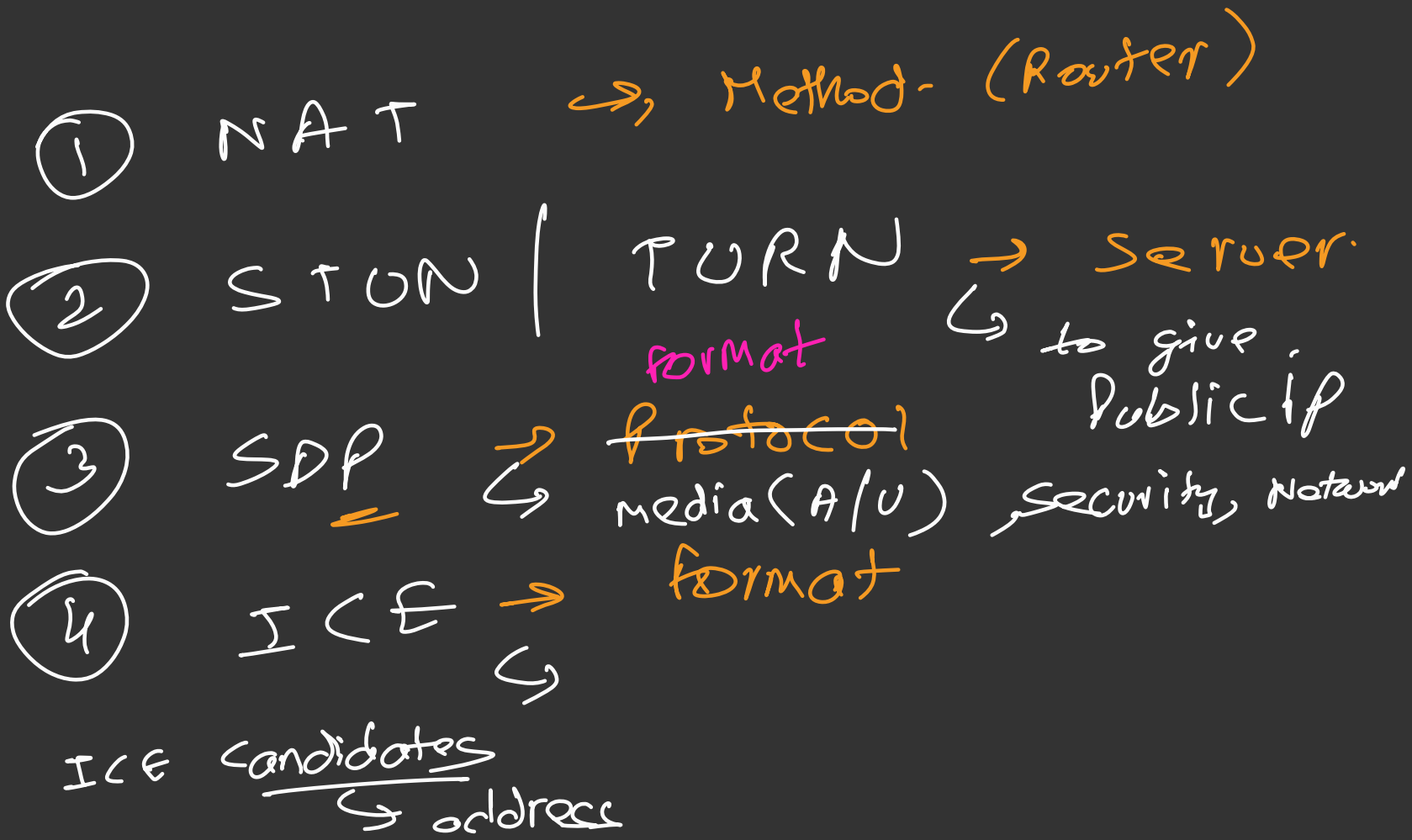
Low



WebRTC

ultra-low

Peer-Peer


1 NAT → Method - (Router)
2 STUN | TURN → Server
↳ to give Public ip
3 SDP ↳ format
~~protocol~~
media (A/V) format
, security, Network
4 ICE →
↳
ICE candidates
↳ address

WebRTC

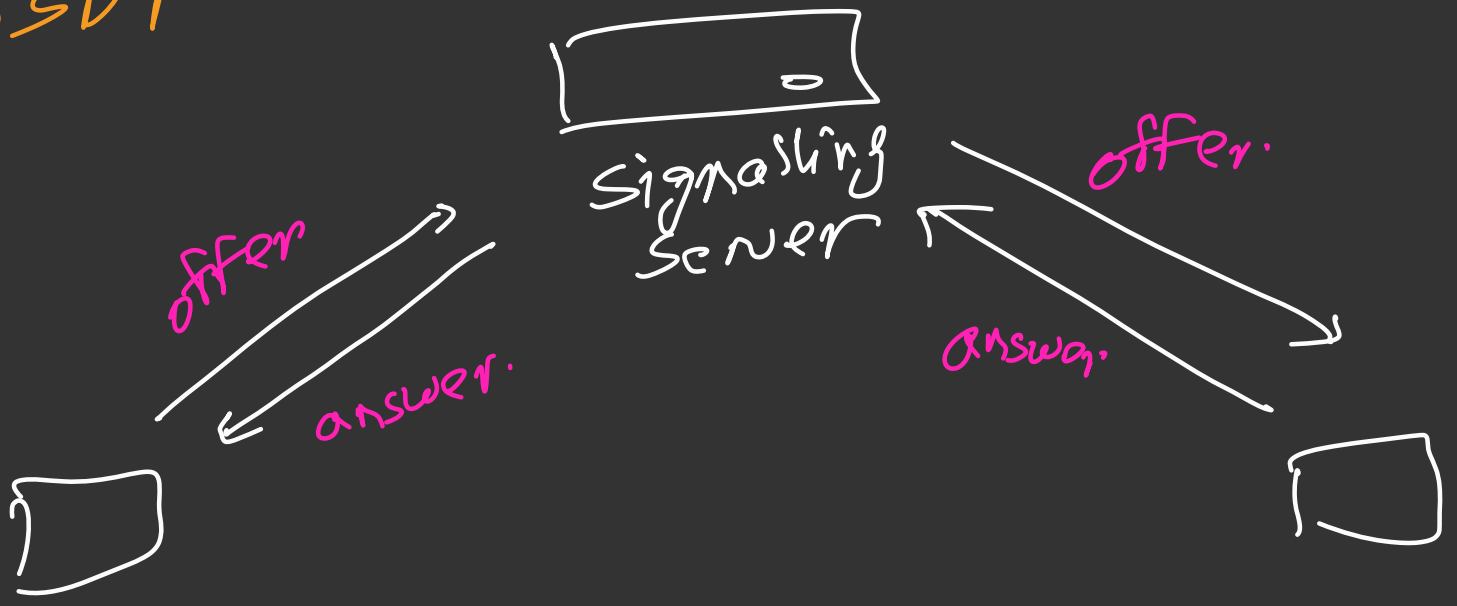
1. Signalling → Socket.
   (SDP), ICE

2. Connection → NAT, STUN/
   TURN

3. Communication → WebRTC

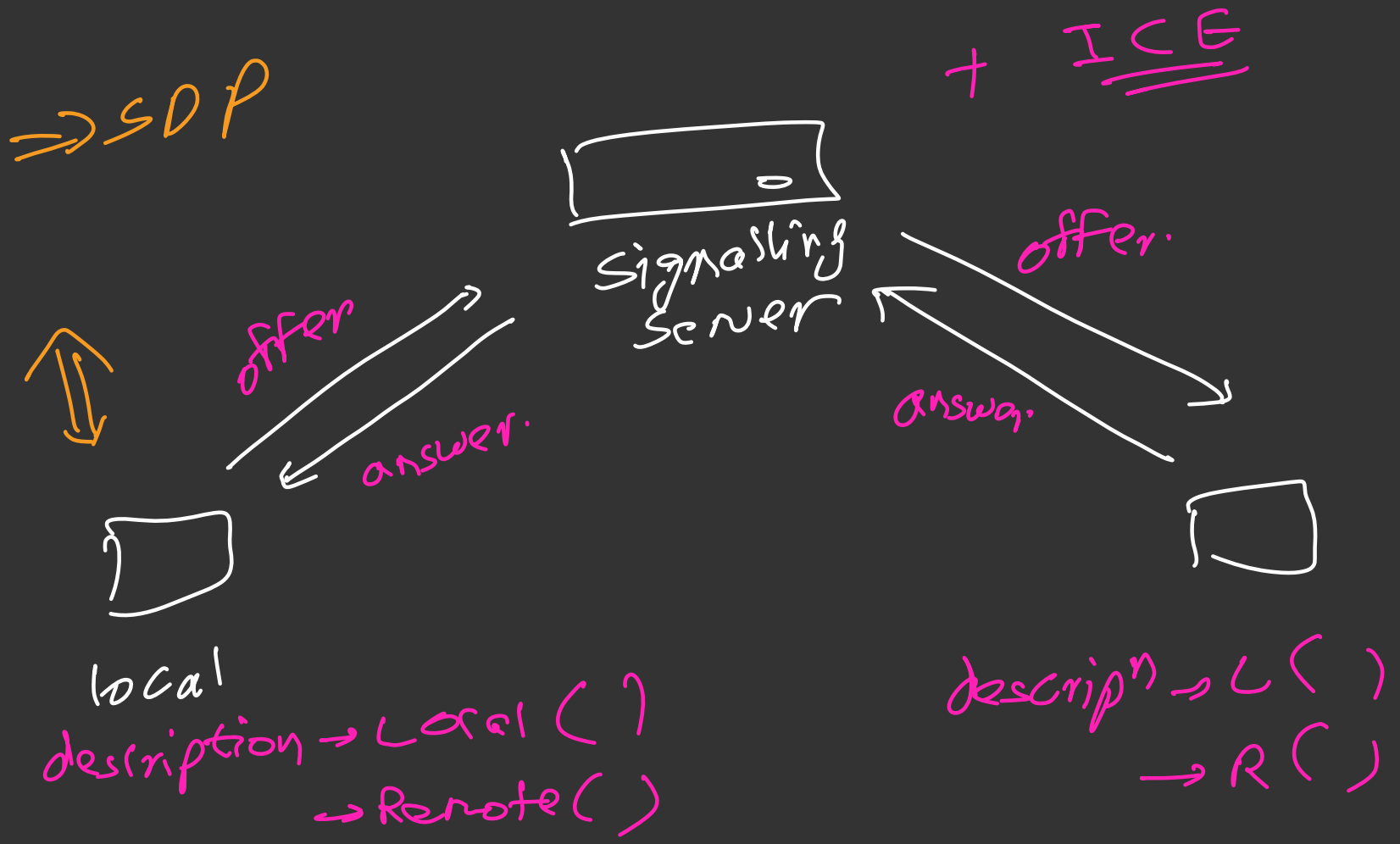
⇒ SDP

+ ICE



local description → Local ( )
→ Remote ( )

descriptn → L ( )
→ R ( )


⇒SDP
+ ICE
Signaling Server
offer
answer
offer.
answ.
local
description → Local( )
→ Remote( )
descrip" → L( )
→ R( )

TURN

NAT

STUN

SDP

ICE