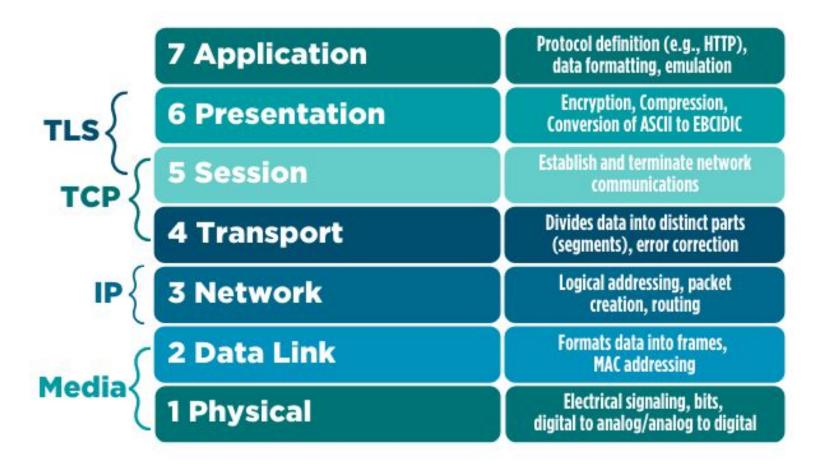
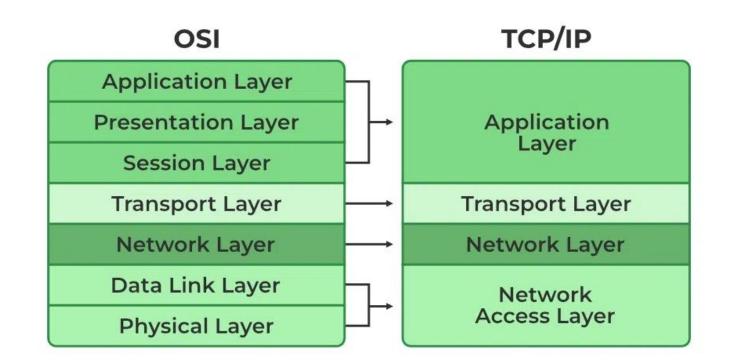
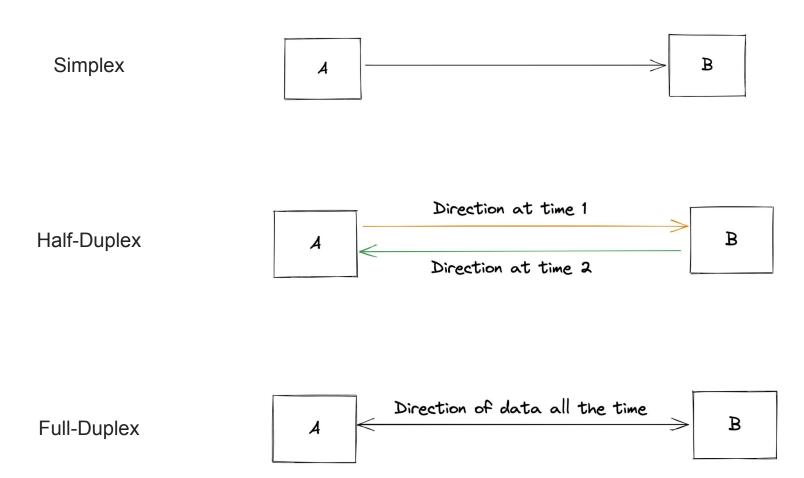
# Computer Network



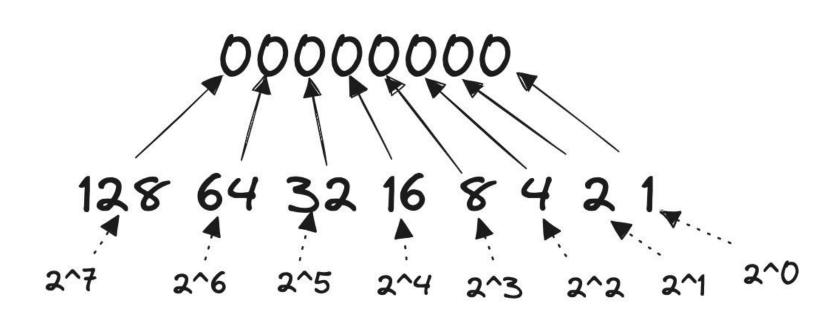




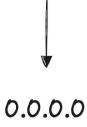
CIDR - IPv4

(Classless Inter-Domain Routing)

## Bit Counting System



IPv4 - 32 bits - 8 bits 4 groups



IPv4 - 32 bits - 8 bits 4 groups

255.255.255.255

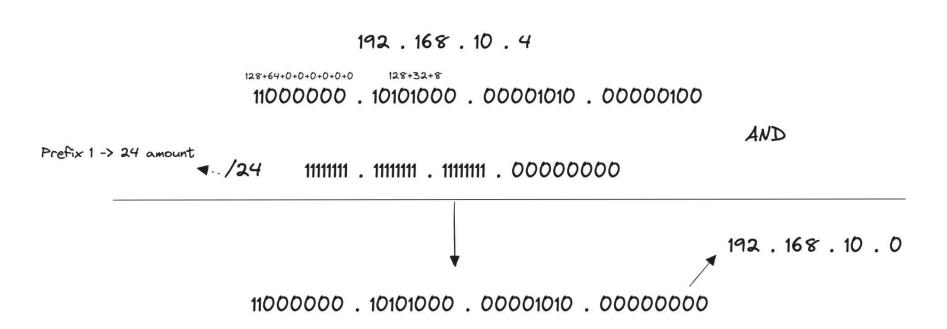
### **Subnet Mask**

192.168.10.4/24

Prefix length

Identify network

## What's the network 192.168.10.4 belong to?



# Last address - Broadcast Address

1st address - Network Address

/24 -> 11111111.11111111.00000000

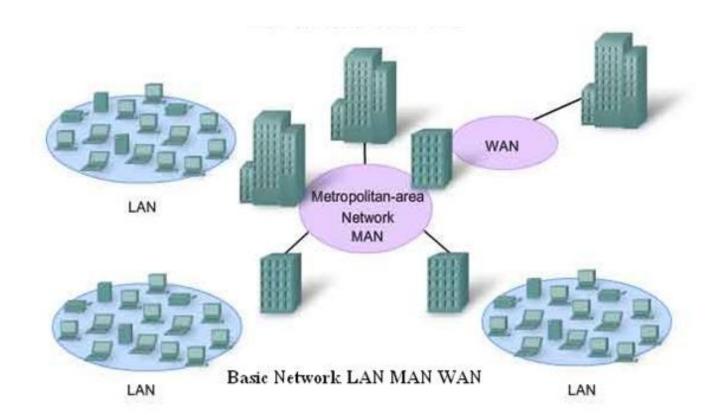
Number of available address

256 addresses - 1 Network address - 1 Broadcast address

254 addresses available for this subnet

## Type of area network

- PAN (Personal Area Network)
- LAN (Local Area Network)
- MAN (Metropolitan Area Network)
- WAN (Wide Area Network)





## The Internet



### Homework

- Understand the responsibility for each layer on OSI Model
- How many host for each subnet (For validation https://jodies.de/ipcalc)
  - 0 /26
  - 0 /15
  - 0 /8
- Understand each type of area network
- [Research time] What is going on after you enter the url on browser

End of presentation