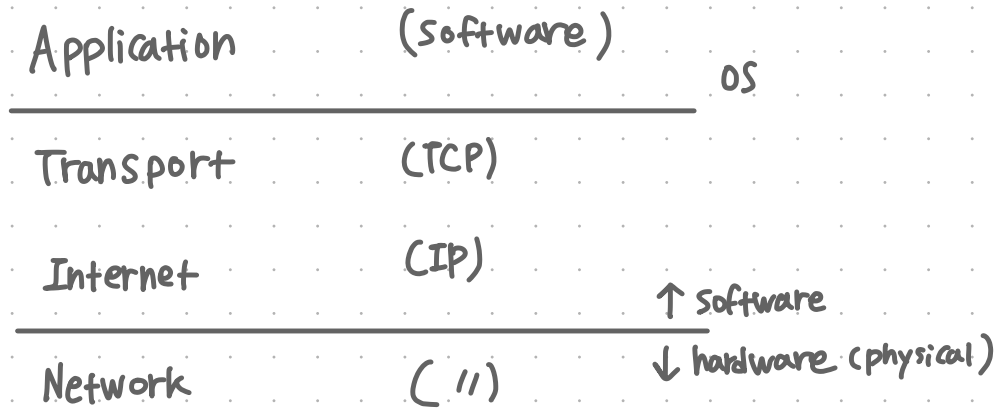


TCP/IP protocol



OSI 7-layer Model

- Application
- representation
- session
- transport
- IP
- Network Interface
- 7 Data Link

Internet

A collection of **packet switching** networks connected by **routers** using **Tcp/IP Protocols**

Network

Circuit switching
(telephone)

Packet switching
(digital, computer)

Size

LAN (local area network)

WAN (wide area network)

distance

Satellite communication

wifi

bluetooth

mobile

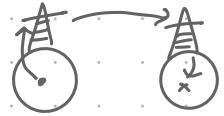
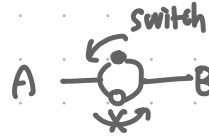
NFC

⋮

Frequency

AM

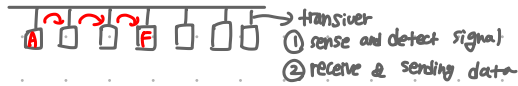
(tv) FM (tv).



Most popular LAN

① Ethernet

protocol ; common bus



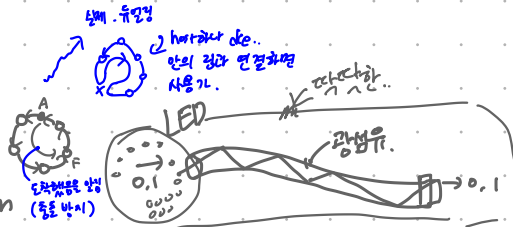
- broadcasting data (여러개 보낼시
동료 발생..)

- CSMA/CD
2nd back off Policy

사고, 구현이 쉬움

② FDDL

- topology , ring
- Fiber optic communication
광. 섬유..



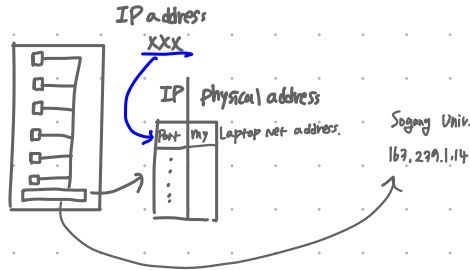
Network Address

two unique address

physical address

= LAN address

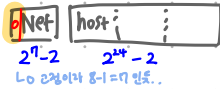
= MAC address



IP address (IPv4) 32 bit

(all 0, all 1은 사용 불가능이라 제외) :- 2

type A



type B



type C

