How many of you ...

- have programmed with sockets?
- have taken a networking course?
- have used tools like?
 ping, traceroute, ipconfig/ifconfig, nslookup
 netstat, netcat, nmap, wireshark
- know what is:
 IP address, port, a canonical hostname client, server, router switch (or hub), gateway
- can explain with a fair amount of details:
 Ethernet, WiFi
 IP, TCP
 ARP, BGP, DNS

The Internet

- 1980's few hosts connected : government institutions and universities
- → <u>Trustworthy</u> environment
- 2019 ~ 4.2 billion internet users: network of networks
- → <u>Untrustworthy</u> environment
- → Internet (and its protocols) was not designed for untrustworthy environment