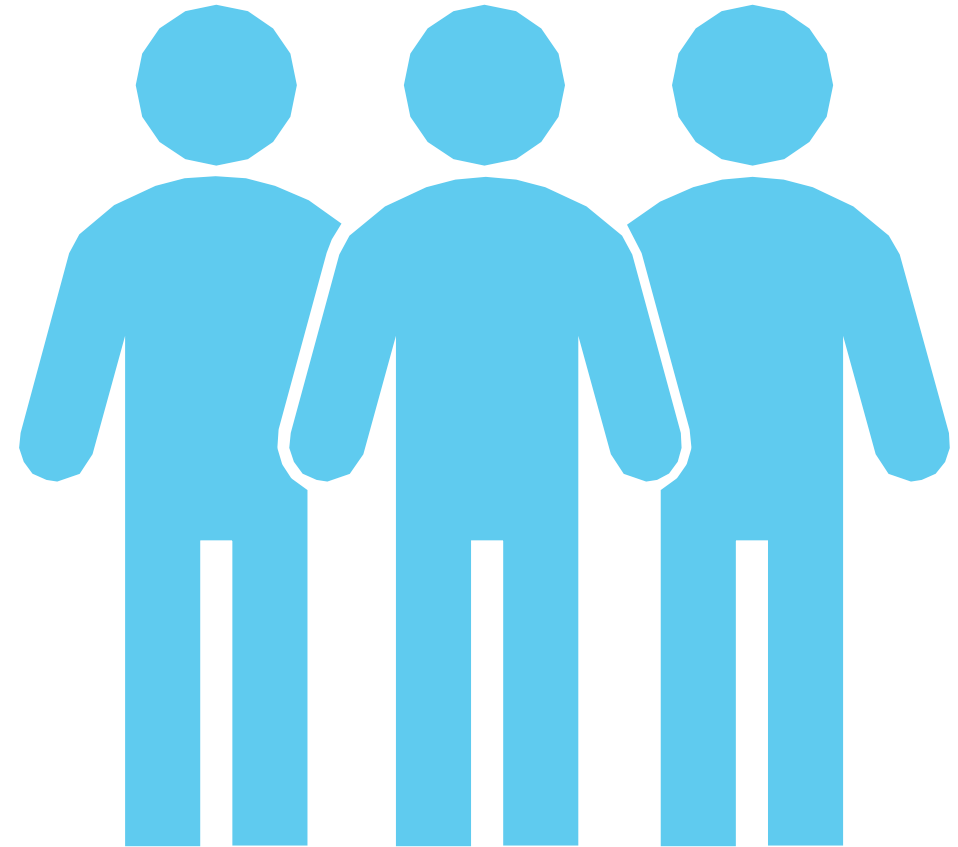


Intro To Computer Networks

By Javier Gutierrez

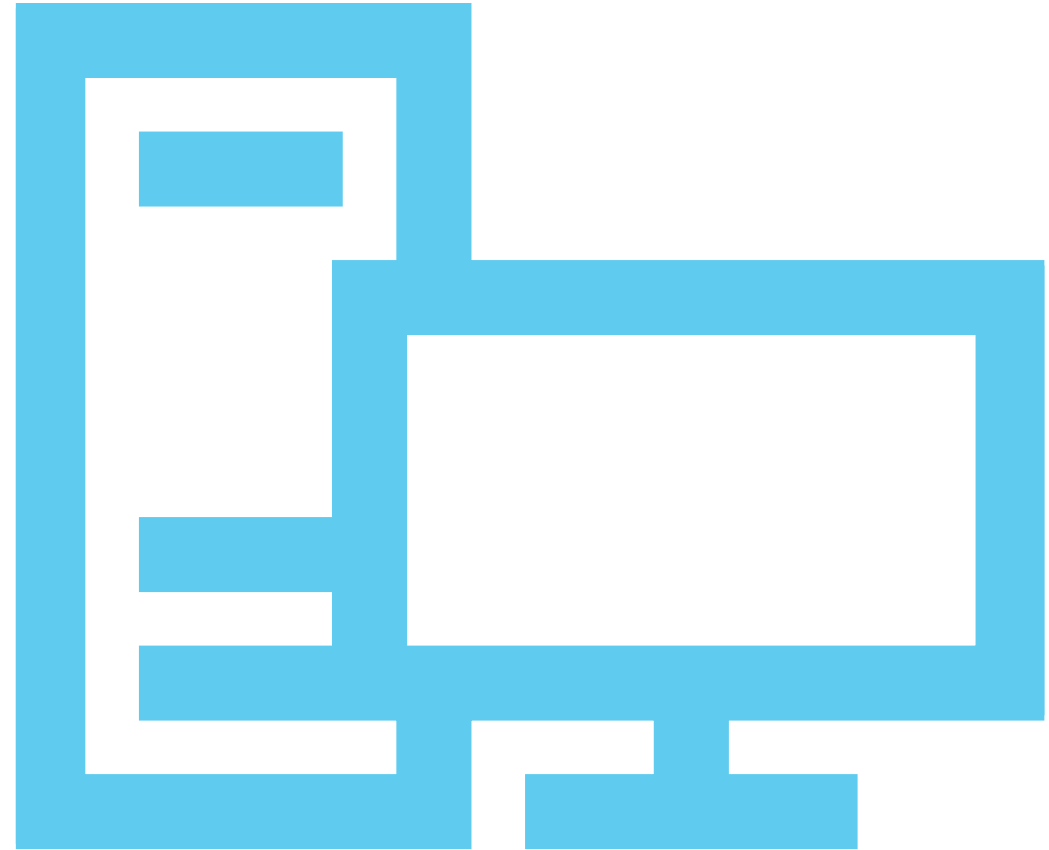
What are networks?

- ▶ Network: A group or system of interconnected people or things



What about computer networks?

- ▶ Computer's networks are not different, is a way that computers use to communicate with each other



How do Computers communicate?

STANDARDS

```
graph TD; A[STANDARDS] --> B[PROTOCOLS]; B --> C[PACKETS];
```

The diagram consists of three horizontal bars stacked vertically. The top bar is blue and contains the word 'STANDARDS'. A light blue arrow points down from the right side of this bar to the top of the middle bar. The middle bar is teal and contains the word 'PROTOCOLS'. A light green arrow points down from the right side of this bar to the top of the bottom bar. The bottom bar is green and contains the word 'PACKETS'. The bars are staggered to the left, creating a descending staircase effect.

PROTOCOLS

PACKETS

Standards

- ▶ Standards define how things should work or behave



Network Protocols

Set of established rules that dictate how to format, transmit and receive data so computers and other devices can communicate

OSI Model



Characterizes and standardizes the communication functions of telecommunications or computer systems



Consist of 7 layers that help visualize how computers talk

OSI Layers



7 - Application



6 - Presentation



5 - Session



4 - Transport



3 - Network



2 - Data-link



1 - Physical

What's next?



**PROTOCOLS SUITS
LIKE TCP/IP**



NETWORK DEVICES