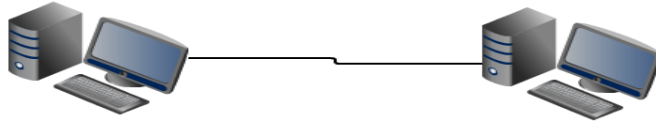
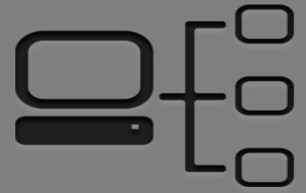


# Network Protocols



- Computers communicate with each other with network protocols.
- Protocols are rules governing how machines exchange data and enable effective communication.
- Some Everyday Examples
  - When you call somebody, you pickup the phone, ensure there is a dial tone, and if there is, you dial the number.
  - When you drive your car, you follow obey the rules of the road.

# Protocols Continued



- **Physical Protocols:** describes the medium (wiring), the connections (RJ-45 port), and the signal (voltage level on a wire).
- **Logical Protocols:** software controlling how and when data is sent and received to computers, supporting physical protocols.
- Computer networks depend on many different types of protocols in order to work properly.
- Example Common TCP/IP Suite of Protocols:
  - Web Communication: HTTP
  - E-mail: POP3, SMTP, IMAP
  - File Transfers: FTP