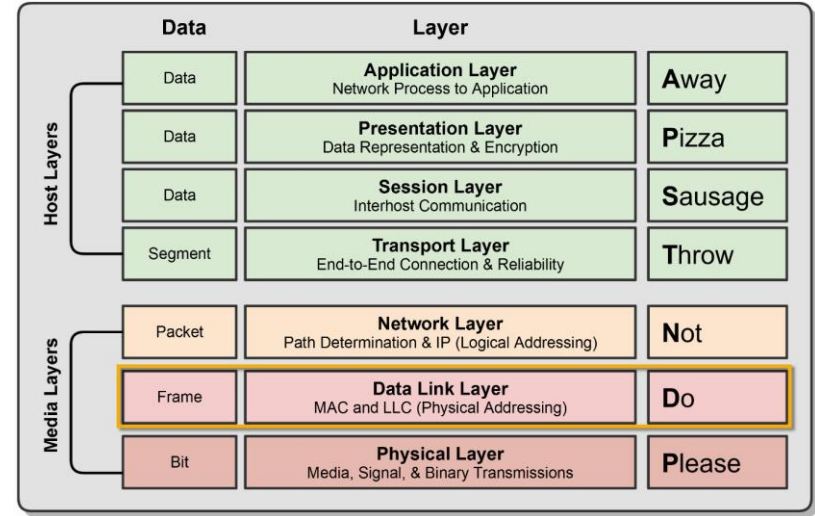


# Layer 2 – Data Link Layer

- The “Switching” Layer
- Ensures that messages are delivered to the proper device on a LAN using hardware addresses.
  - MAC (Media Access Control) Address
  - Only concerned with the local delivery of frames on the same network.
- Responsible for packaging the data into frames for the physical layer.
- Translates messages from the Network layer into bits for the Physical layer.



# Layer 2 – Data Link Layer

Has two Sub-Layers

- **Logical Link Control (LLC) Layer**
  - Error Control and Flow Control
    - Detect and correct corrupted data frames.
    - Limits amount of data sent so devices aren't overwhelmed.
- **Media Access Control (MAC) Layer**
  - Physical Addressing (MAC Address)
    - 48-Bit MAC Address burned on NIC.
  - Logical Topology and Media Access
    - Ethernet, Token Ring, etc.
    - CSMA/CD & CSMA/CA

