OSI MODEL Mindmap

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OSI Model

- **Layer 7: Application**
  - Protocol: HTTP, FTP, DNS
  - Message Type: Data
  - Function: End-user interface, application services

- **Layer 6: Presentation**
  - Protocol: JPEG, MPEG
  - Message Type: Data
  - Function: Data translation, encryption, compression

- **Layer 5: Session**
  - Protocol: RPC, PPTP
  - Message Type: Data
  - Function: Establish, manage, terminate sessions

- **Layer 4: Transport**
  - Protocol: TCP, UDP TLS
  - Message Type: Segments (TCP), Datagrams (UDP)
  - Function: Reliable data transfer, flow control

- **Layer 3: Network**
  - Protocol: IP, ICMP
  - Device: Router
  - Message Type: Packets
  - Function: Routing, logical addressing

- **Layer 2: Data Link**
  - Protocol: Ethernet, PPP
  - Device: Switch, Bridge
  - Message Type: Frames
  - Function: Physical addressing, error detection

- **Layer 1: Physical**
  - Protocol: USB, Ethernet (Physical)
  - Device: Hub, Repeater
  - Message Type: Bits
  - Function: Physical medium, signal transmission