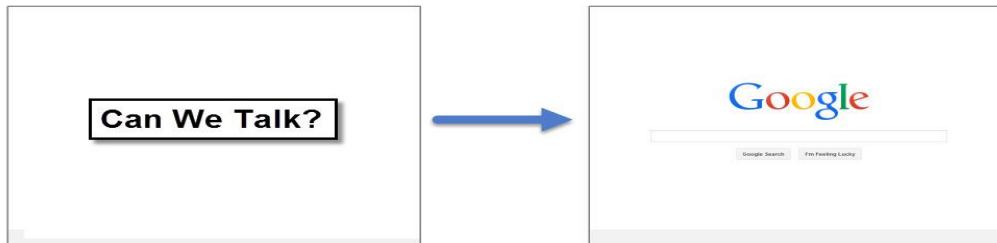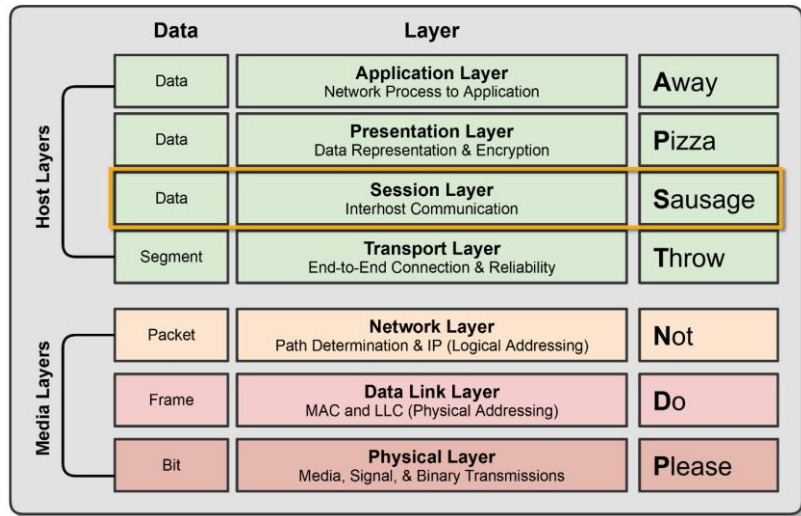# Layer 5 – Session Layer

- Responsible for setting up, managing, and then tearing down sessions between network devices.

- Ensures data from different application sessions are kept separate.

- Utilizes Application Program Interfaces (APIs) to communicate with TCP/IP protocols.

- Coordinates communication between systems.
  - Start, Stop, Restart

Data	Layer	
Host Layers		
Data	**Application Layer** Network Process to Application	**A**way
Data	**Presentation Layer** Data Representation & Encryption	**P**izza
Data	**Session Layer** Interhost Communication	**S**ausage
Segment	**Transport Layer** End-to-End Connection & Reliability	**T**hrow
Media Layers		
Packet	**Network Layer** Path Determination & IP (Logical Addressing)	**N**ot
Frame	**Data Link Layer** MAC and LLC (Physical Addressing)	**D**o
Bit	**Physical Layer** Media, Signal, & Binary Transmissions	**P**lease

Can We Talk? →

Google

Google Search   I'm Feeling Lucky

Layer 5 – Session Layer

Can provide three different methods of communication between devices:

- **Simplex**: One-way communication between two devices, like listening to a radio station.

- **Half Duplex**: Two-way communication between two devices, but only one device can communicate at a time.

- **Full Duplex**: Two-way communication between two devices, where both sides can communicate at the same time.

	Data	Layer	
Host Layers	Data	**Application Layer** Network Process to Application	**A**way
	Data	**Presentation Layer** Data Representation & Encryption	**P**izza
	Data	**Session Layer** Interhost Communication	**S**ausage
	Segment	**Transport Layer** End-to-End Connection & Reliability	**T**hrow
Media Layers	Packet	**Network Layer** Path Determination & IP (Logical Addressing)	**N**ot
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	Bit	**Physical Layer** Media, Signal, & Binary Transmissions	**P**lease