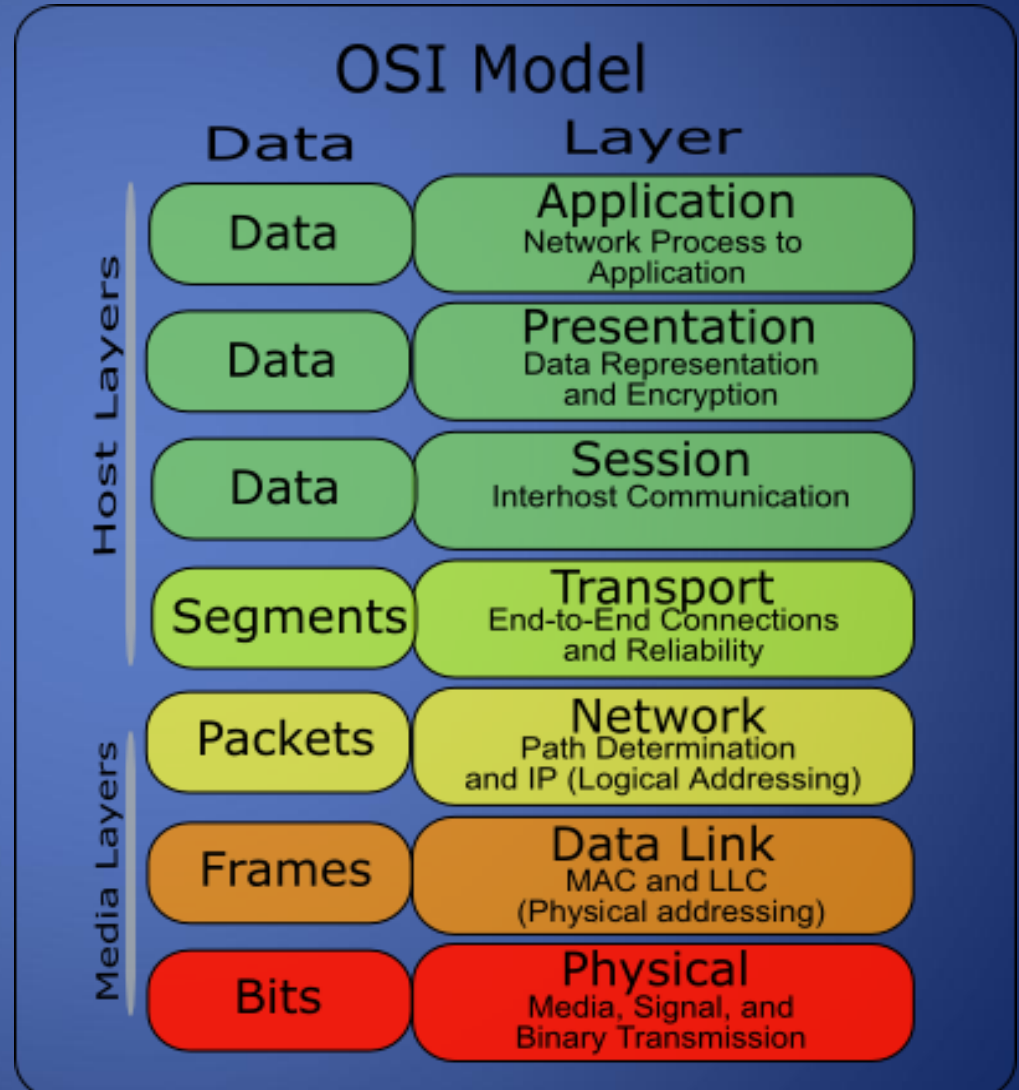# Basic Network Communication

Game Instruction

The OSI Model

- The OSI (Open System Interconnect) Reference Model is a network model consisting of seven layers

- Created in 1983, OSI is promoted by the International Standard Organization (ISO)

OSI Model

Data	Layer
Data	**Application** Network Process to Application
Data	**Presentation** Data Representation and Encryption
Data	**Session** Interhost Communication
Segments	**Transport** End-to-End Connections and Reliability
Packets	**Network** Path Determination and IP (Logical Addressing)
Frames	**Data Link** MAC and LLC (Physical addressing)
Bits	**Physical** Media, Signal, and Binary Transmission

Host Layers (Application, Presentation, Session, Transport)
Media Layers (Network, Data Link, Physical)

The OSI Model

OSI Model Layer	Function
Physical	Defines the hardware elements and structure of the network installation
Data-link	Provides addressing, data encapsulation, and media access control
Network	Provides end-to-end routing and addressing
Transport	Provides packet acknowledgment, flow control, and error detection
Session	Provides dialog control and dialog separation
Presentation	Translates syntaxes between different systems
Application	Provides an interface to applications running on the computer

Internet Layers

Physical Layer

Computer Networks

How to understand?