THE OSI MODEL

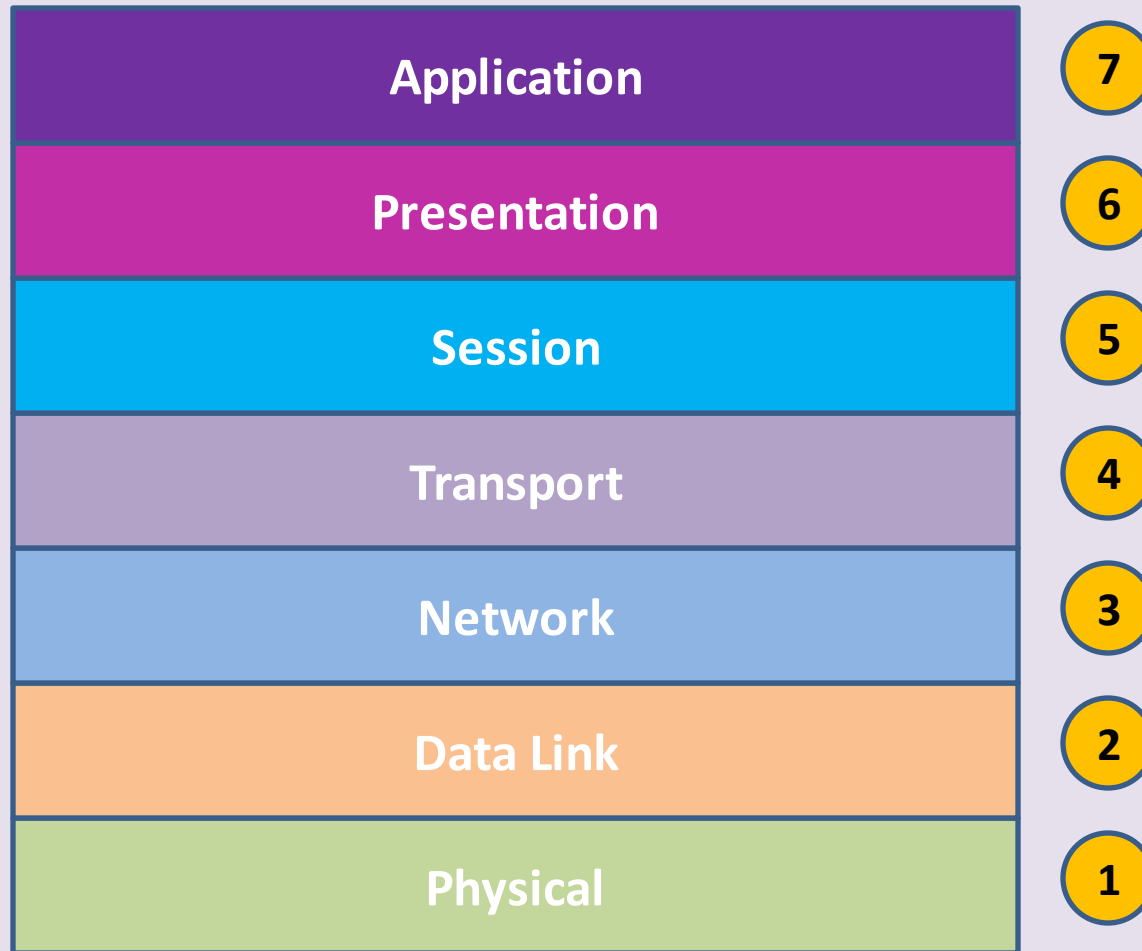## Open Systems Interconnection model

Established in **1947**,

by the **International Standards Organization (ISO)**

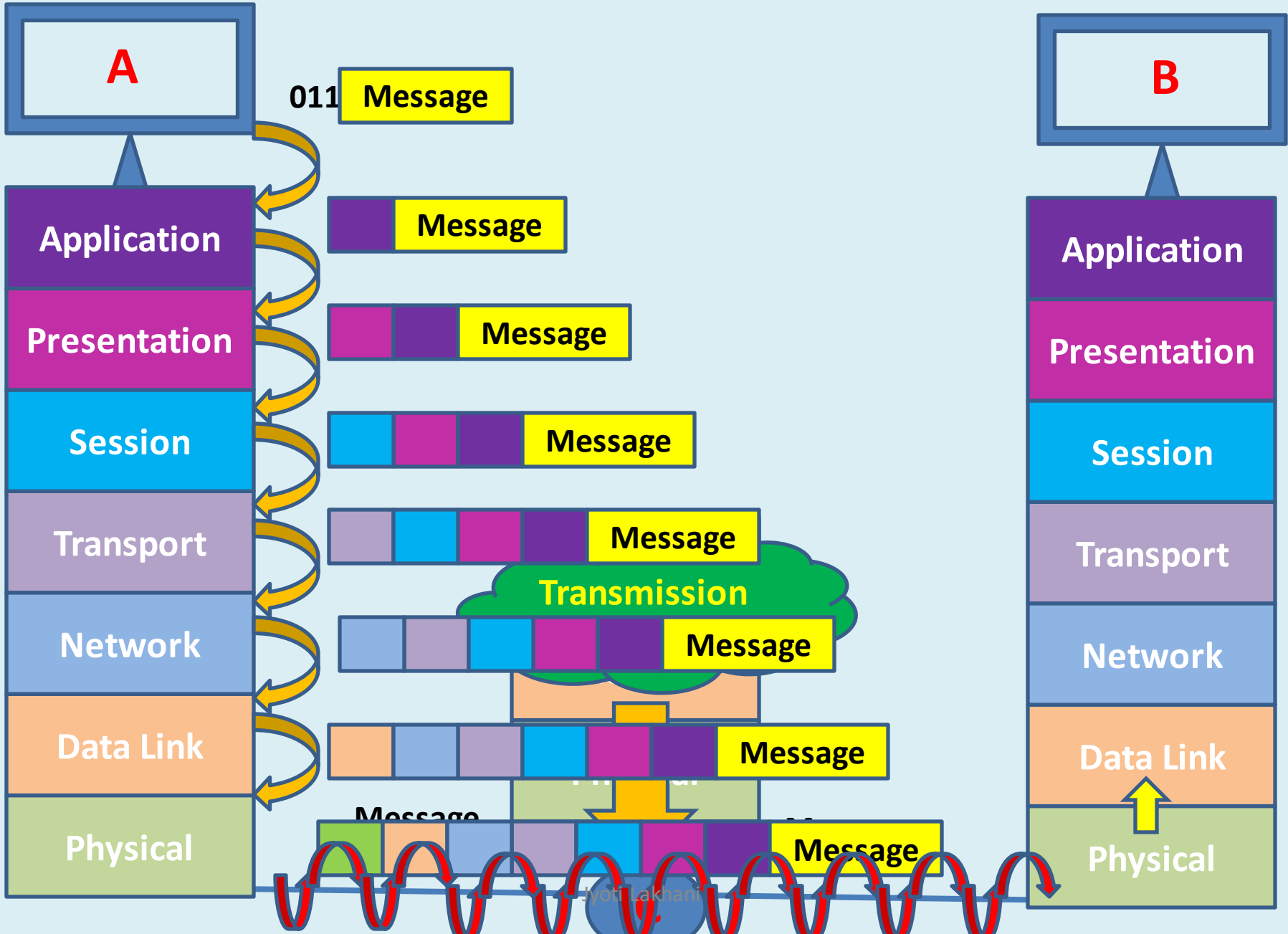It **is layered framework** for the design of network systems

It consists of **seven separate but related layers**

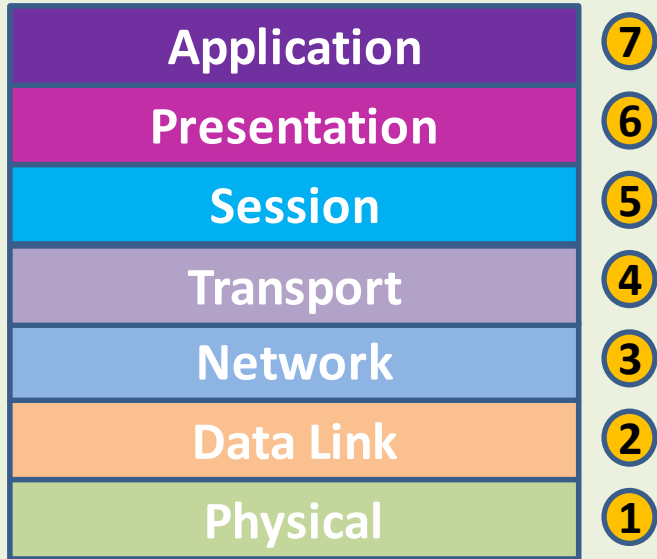Each Layer defines the process of moving information across a network

Layers of OSI Model

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Device A sends a stream of bits to device B (through intermediate nodes).

Within a single machine, each layer calls upon the services of the layer just below it and passes the whole package to the layer just below it.

A

011 Message

Application
Presentation
Session
Transport
Network
Data Link
Physical

Message

Transmission

Message

B

Application
Presentation
Session
Transport
Network
Data Link
Physical

Classification of Layers

Application	⑦
Presentation	⑥
Session	⑤
Transport	④
Network	③
Data Link	②
Physical	①

These Layers dealt with the physical aspects of moving data from one device to another such as

These are the upper layers, that allow the interoperability among unrelated software systems

The transport layer can be thought of as the lower layers have transmitted is in a form the upper layers can use.

- Electrical specifications
- Physical connections
- Physical addressing
- Transport timing
- Reliability).

The Network Support Layers   Transport Layer   User Support Layers

#	Layer	
7	Application	Software
6	Presentation	
5	Session	
4	Transport	Hardware + Software
3	Network	
2	Data Link	
1	Physical	Hardware only