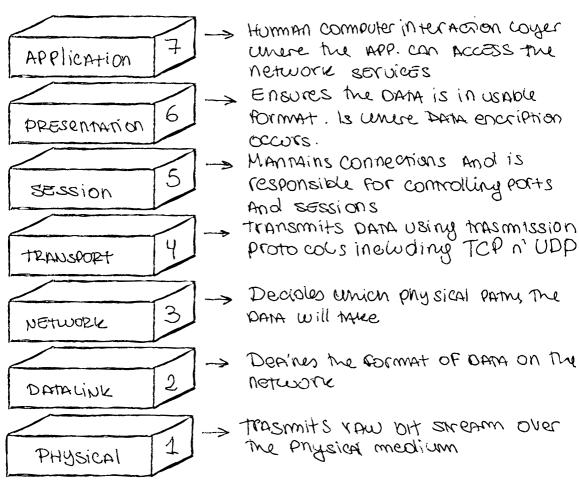
The OSI Model

What is it?

OSI stands for ORn System Interconnection, and is a concernal would created by Intermational Organization for Standorization. (150)

It basically stablishes a way to communicate two different system our standard protocols

The OSI mobil can be seen as an universal Conguage for computer networking. It splits the communication in several Coyers which at the end of the Day defines the model.

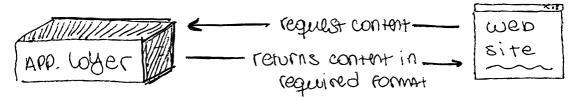


E ARN LOYER hondles of specific Job and communicates withe the Loyer about and believe itself.

Although the modern internet does not strictly follows the osi headel (it more closely follows the simpler internet protocol suite), the OSI model is still very useful for trouble shooting network problems

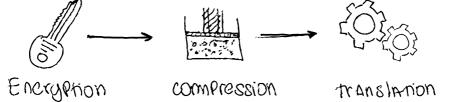
The 7 layers

7 - Application layer



The only loyer that interacts with the user. some are like browser or email elients interact with the loyer? Application loyer protocols include HTTP and SUTP. Among others like FTP, IRC, SSH, DNS

6. The Presentation layer.



layer 6 manes DAM presentable for APPS to consume, responsible for Enc., compression and transcotion of DATA Some Protocols could be SSL, SSH IMAP, MPEG, SPEG

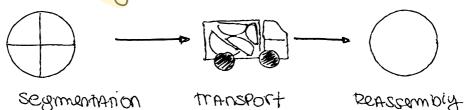
5. Session lower.



testonsible for opening and closing communication between the two devices, the time spent of an opened session is lenaun by this loyer.

This Loyar Also SETS check bints between DATA TRANSF. FOR EXAMPL, IF A 100MB KIE is being transfered, this session could set a checkloint every 5MB so incase a disconect or crosin the session can resume from the check pant.

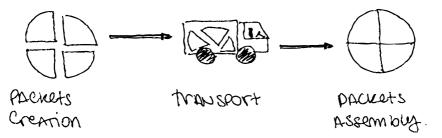
4. Transport layer



Pesponsible for the end to end communication. This includes traking open from the session coyer braking it the contract of the transport coyer on the recieving device is responsible for reassembling the church so the Coyer of consumments. Some of the Protocols managed in this logar are UDP/TCP

The 4th loyer is Also responsibly for flow control and Error control. Flow control determines an objimal speed so the reciever doesn't overwhelm. And error control pravies the complete papa is trasmitted and performs a reg of retrasmition if not

3. The Network Coyer.

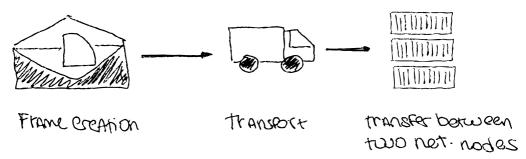


Responsible for facilitating the dona mansfer between two naturals.

IF The two devices are on the same network, then this loyer is not necessary. Loyer a preaks of segments into provers on the peciening device. It also find the best PANH (Physical) for the dotto to reach its destination.

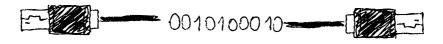
(this is known as routing)

2. DAMalink Loyu.



Similar to the 3rd Loyer, except it transfers ofthe between two Devices in the same network. It take packets and break it into smaller dieces called Frames. Also in change of flow and error control in intra net-communication.

1. Physical layer



Sending cable Bitstream

Receiving CAble.

This loyer refers to the physical equipment involved in the DATA Transfer, such as capales and switches, This is also the Loyer where DARA is converted into bit stream, union is a string of 1s and Os. Both physical Coyers on the communicating devices must agree on A signal convention to distinguish the 1s from the 0s.