



# WEB ARCHITECTURE

## FINAL PROJECT

WINTER 2022 RISD-CE

▶ **OSI MODEL**

▶ **PLAYER 01:**

ANGELINA STORTI

**START** ▼





# TOPIC: P2P

- ▶ Based on what I learned about the OSI model, I will be using my experience on peer-to-peer, known as "P2P" video game online networking. I grew up playing several multiplayer local games online with my brother and our mutual friends (and still do today). A P2P network is created when at least two or more computers are connected and share resources and data without a separate server.

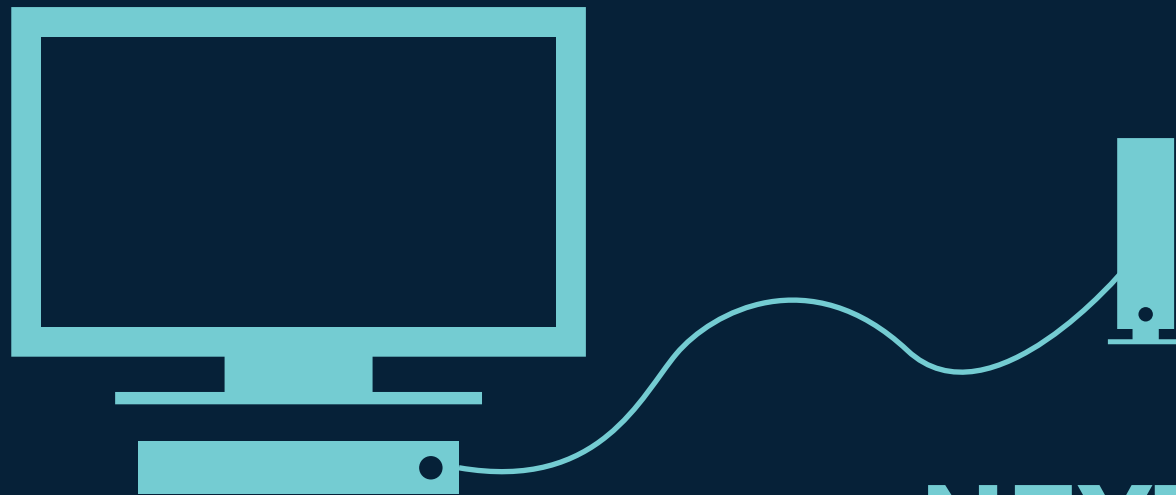
**NEXT**





# LAYER 1: PHYSICAL

- ▶ I will be using my xbox as an example since I use it for P2P games. My xbox connects to the internet by running an ethernet cable directly from my modem into the LAN port located on back of my xbox.



**NEXT**

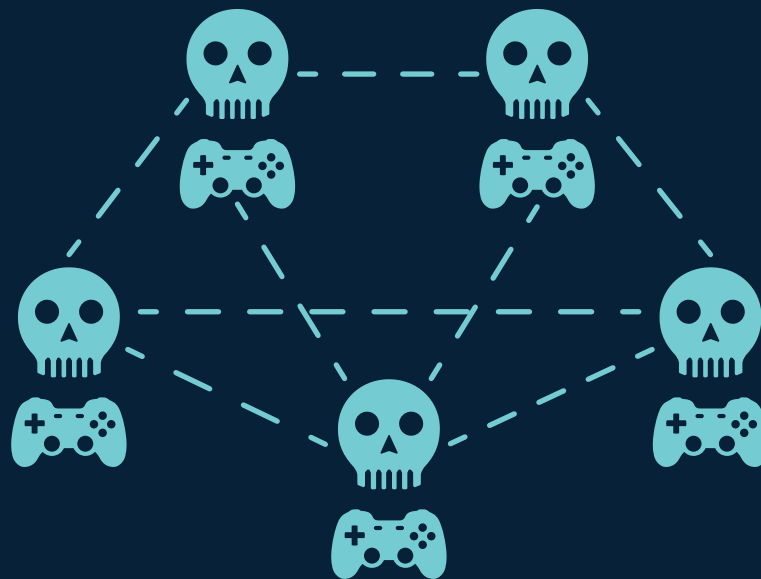






# LAYER 3: NETWORK

- ▶ A local game is started between my brother and some friends. One of our xboxes becomes a host server. Our data packets are being sent to appropriate places by using our I.P. addresses. Waiting for final transport.



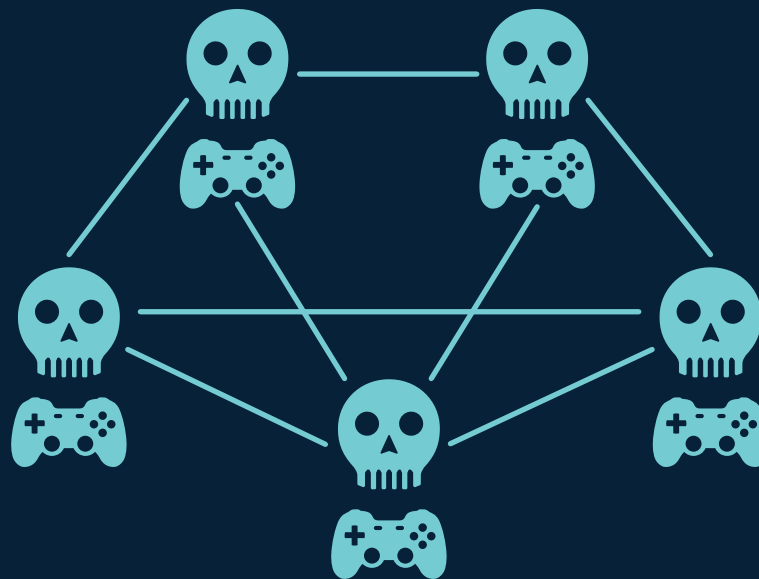
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# LAYER 4: TRANSPORT

- ▶ This is when all players' data is actually sent to our modems and then through our xboxes, establishing connection. This is done by piecing data bits back together.



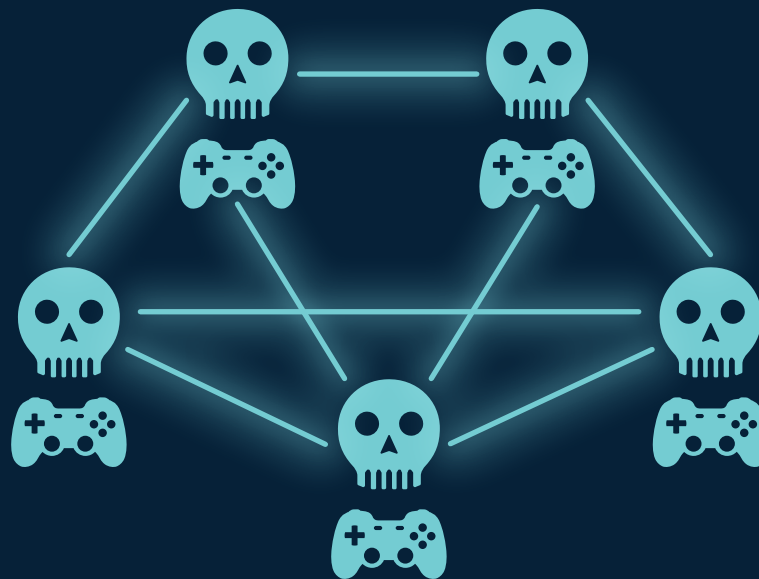
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# LAYER 5: SESSION

- ▶ Our connection to each other's modems/xboxes is maintained and the lines of data are still kept open in order to keep communicating.



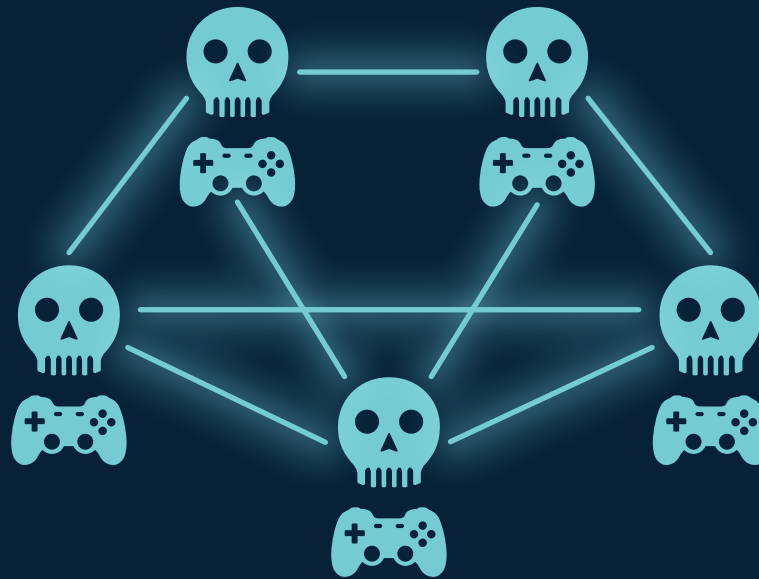
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# LAYER 6: PRESENTATION

- ▶ Data continues to be communicated, translating it into a format that our modems/xboxes understands.



**NEXT**







# LAYER 7: APPLICATION

- ▶ The players' interaction with the formatted data is presented through game play. The result shows up on each player's screens as live game play continues.



**END** ▶

