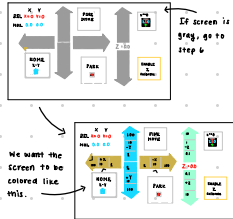


USB Connection Diagram

Top Layer

APPLICATION LAYER - The Software or Program

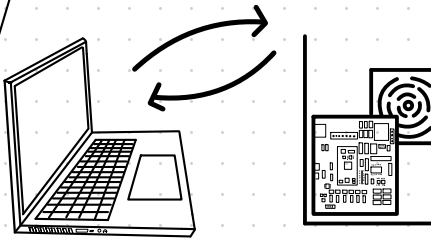


○ This layer is where the user-level software interacts with the device

→ In our case, this software or program would be repetrel.

→ This actually uses the connection to do something useful like using repetrel to control the printer.

DATA LINK & TRANSPORT LAYER - Communication Protocols



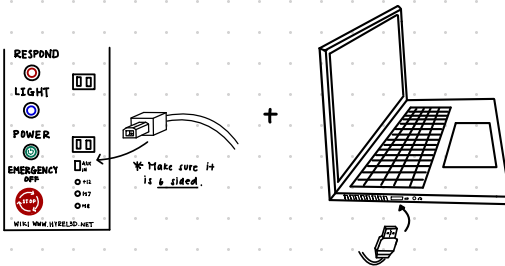
○ This layer is the communication layer

→ Defines the rules of communication.

→ Handles device recognition, data formatting, and error-checking between the two devices.

→ Making sure that the two devices are "speaking the same language."

PHYSICAL LAYER - The Hardware Connection Layer



○ This layer is the actual physical connection between the machine and the PC.

→ Defines the physical characteristics of the cable & ports

→ Handles signal transmission, deciding how to send messages without confusion.

→ Ensures plugged detection where your computer physically recognizes that something has been connected.

→ Acts as a "road" that allows the data to travel between machines

↑ Bottom Layer ↑