



TECHNOLOGY CAMP

Introduction to Hardware

Day 5 : Session 1

Instructors

- Name
- Job / Company
- Industry Experience
- Something interesting



Volunteers

- Name
- Job / School
- Something interesting



Learning Objectives

- Define technology hardware
- Describe purpose of technology hardware
- Identify server components
- Discuss differences between laptop & desktop components
- Describe Networking components
- Compare & Contrast gaming consoles with other hardware

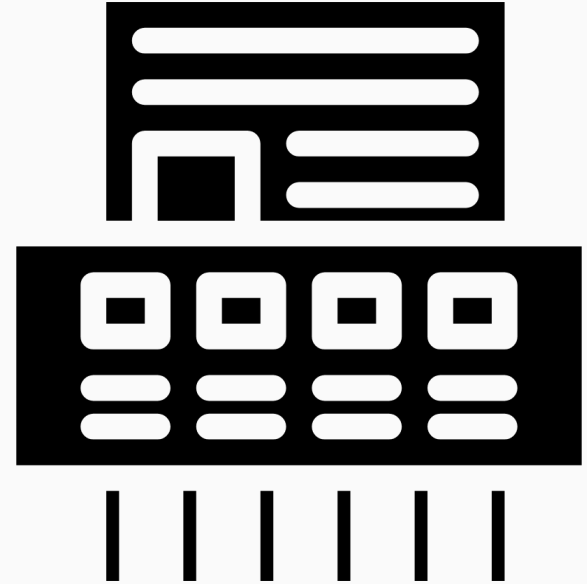


What is Technology Hardware?

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Hardware (H/W), in the context of technology, refers to the physical elements that make up a computer or electronic system and everything else involved that is physically tangible. This includes the monitor, hard drive, memory and the CPU. Hardware works hand-in-hand with firmware and software to make a computer function. – techopedia.com

<https://www.techopedia.com/definition/2210/hardware-hw>

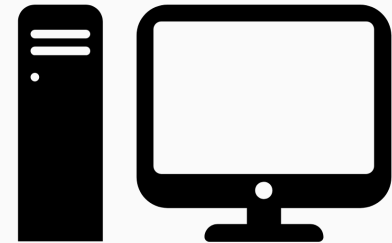
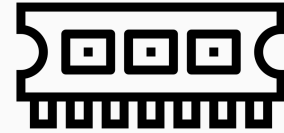


What is Technology Hardware?

YELLOW

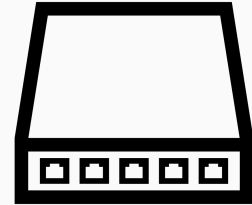
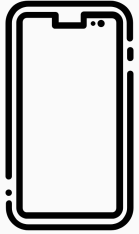
CIRCLE

Hardware Components are the individual parts, with specific jobs, that when combined produce **Compiled Hardware**, the devices we use every day.



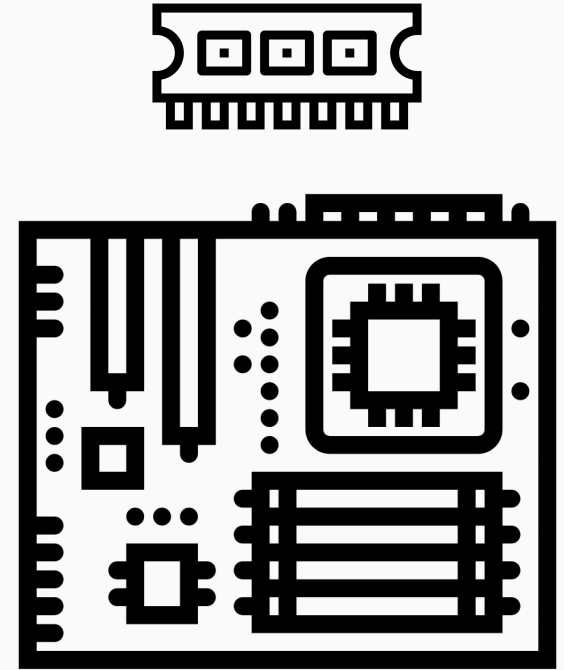
Examples of Compiled Hardware Items

- Desktops
- Laptops
- *Servers*
- *Gaming Consoles*
- *Network Switches*
- *Smartphones*
- Tablets
- Smart TVs
- *Tesla Cars*
- *Digital Cameras*
- *Digital Readers (e.g. Kindle)*
- *Can you name more?*



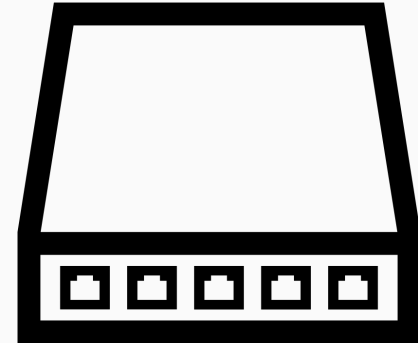
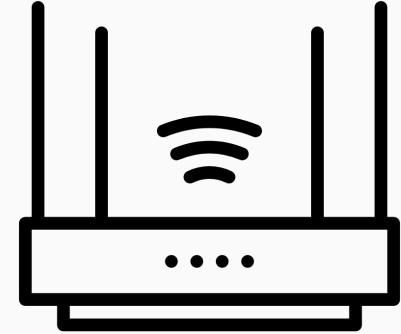
Hardware Components in a Server :

- Motherboard
- CPUs
- Memory Chips
- Hard-Drives
- Network Cards
- Storage controllers
- Can you think of some others?



Networking uses other types of compiled hardware including:

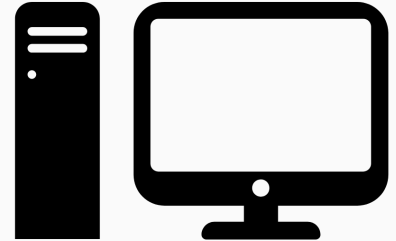
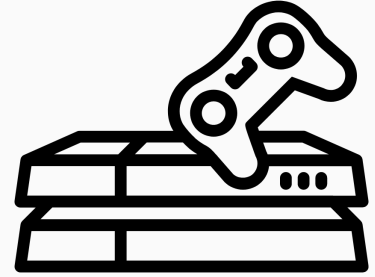
- Switches
- Routers
- WiFi Access Points
- IP Cameras
- IoT Devices
- Can you think of some others?



Gaming Consoles

- Specialized for a few limited tasks (e.g.) gaming, streaming content
- Hardware components selected to optimize performance for specific tasks

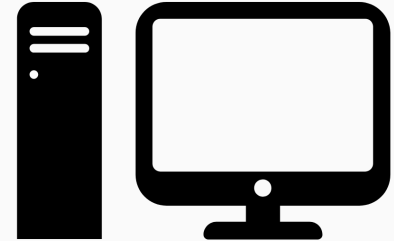
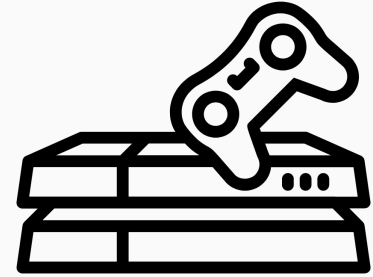
Can you think of some others similarities and differences?



Desktops & Laptops

- Designed to perform a wide variety of different tasks
- Hardware not necessarily optimized for a specific task (but can be as in gaming PCs)

Can you think of some others similarities and differences?



What we learned?

- Define technology hardware
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End of session 1

- Time for break
- Snacks served in Cafeteria
- Remember to use restrooms

