

A wide-angle photograph of a modern city street. On the left, a woman in a dark blazer and white shirt looks at her phone while holding a map. In the center, a man in a white t-shirt and headphones jogs towards the camera. To his right, a group of people stands looking at tablets and phones. The background features tall, modern buildings and green trees. A tram is visible on the right side.

Christer Edwards

Tech Fundamentals - Week 2

2

Modern Computing

Tech Fundamentals: Week 2



- 1. Quick Review: Week 1
- 2. An analogy
- 3. Hardware & Operating Systems
- 4. Mobile Devices

Week 2 Objectives



A futuristic library interior featuring floor-to-ceiling windows overlooking a city skyline at dusk. The ceiling is filled with a complex network of glowing blue and purple cables. Several small, sleek flying vehicles are visible in the sky outside. Inside, people wearing VR headsets interact with large, transparent floating screens displaying various digital interfaces and data visualizations. The room is filled with tall, glass-enclosed bookshelves containing numerous books and digital displays. The overall atmosphere is a blend of traditional library architecture and advanced technology.

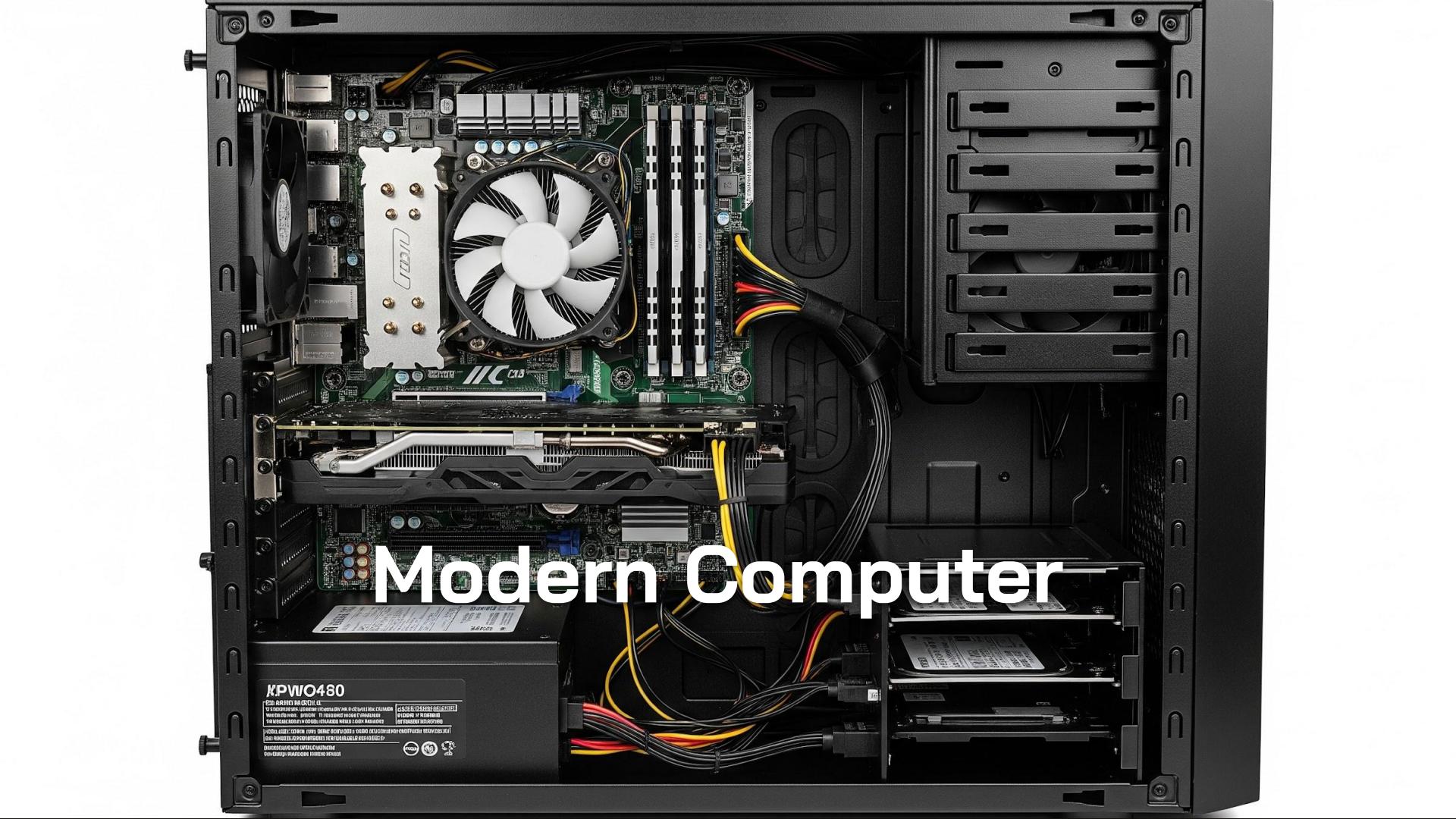
Course Library

library.techliterate.co/fundamentals



Week 2 pre-assessment questionnaire.

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Modern Computer

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Kitchen

A computing analogy



The cooktop

When preparing meals in the kitchen, the stovetop is the focal point. Modern kitchens often have multiple cooktops built in, allowing you to prepare multiple dishes at once.





The countertop is where we prepare and process the contents intended for the cooktop burners. Gathering raw ingredients, preparation and processing instructions are handled here.

This area is sometimes cleared during and always cleared after food preparation is complete.

The Countertop (short-term)

The pantry (long-term)

The pantry is the long-term storage area of the kitchen. This is where raw ingredients are stored for retrieval when needed.

The fridge and pantry store ingredients used in cooking as well as cookbooks and recipes.





The knobs, dials, buttons and displays on the stovetop is how we interact with it.

Light burner 2, set to medium.
Light burner 3, set to simmer.

Preheat oven to 350F.

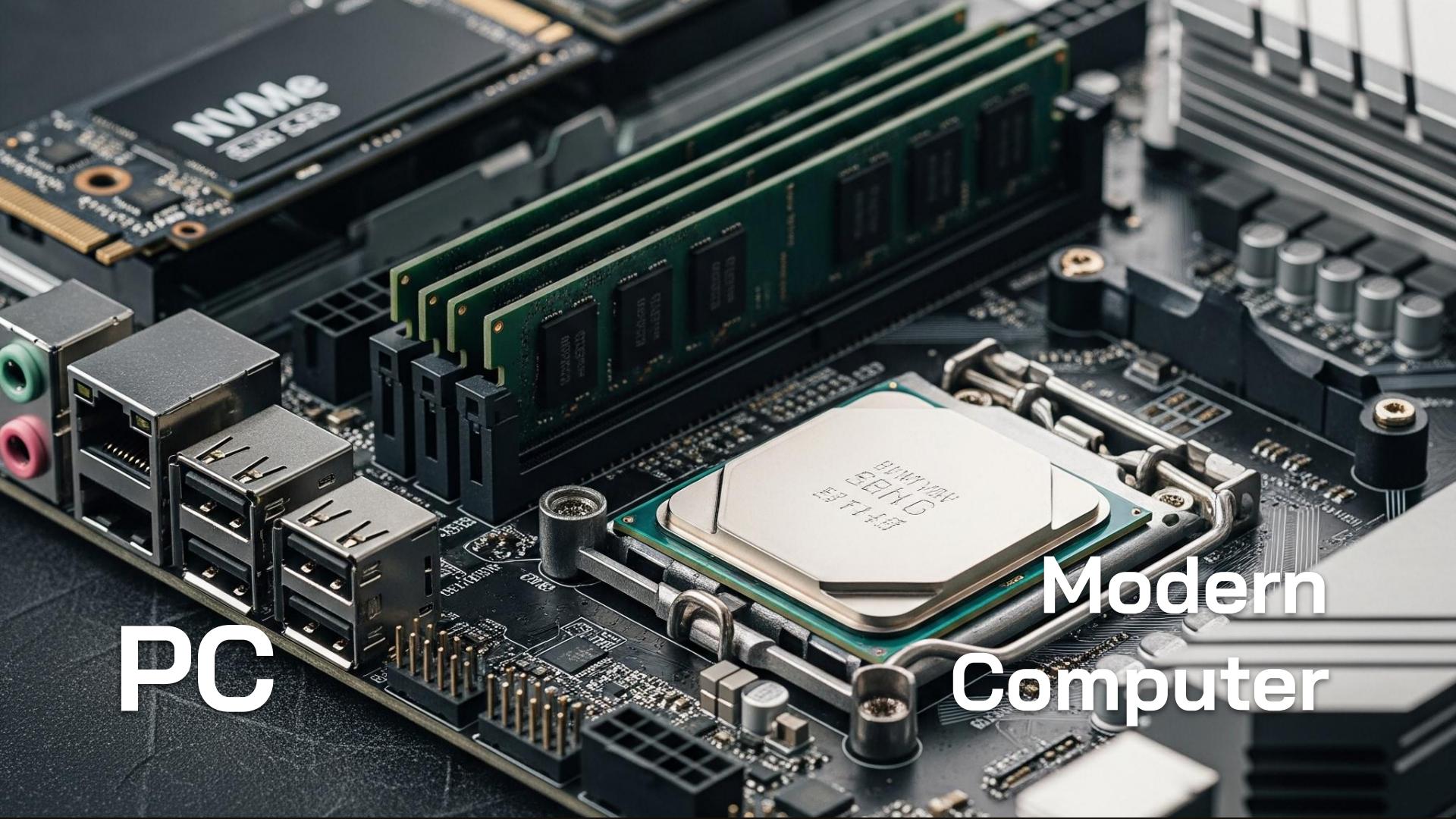
This all represents a simple “input & output” system for the cooktop.

Knobs, dials & displays



Most of us need to follow recipes in cookbooks to prepare a great meal. It's not usually practical to remember all of the ingredients and preparation required, so we rely on recipe books passed down from elders and cookbooks from creative authors.

Cookbooks and recipes



**Modern
Computer**

The CPU

The Central Processing Unit (CPU) is the brain of the computer. Modern CPUs often have multiple “cores” (cooktop burners), to help distribute the processing load.

Major CPU manufacturers include **Intel**, **AMD**, **Nvidia** and **Apple**.





The Random Access Memory (RAM) is the short-term “countertop” of the computer. The apps and tools you’re currently using are loaded into short-term RAM while you’re working on them and they are cleared once you’re done.

RAM is always completely cleared when you reboot your computer.

Random Access Memory (RAM) (short-term)

The Hard Drive is the long-term storage of the computer. The operating system and all apps are stored long-term on the hard drive.

Data may be moved from long-term to short-term and visa-versa depending on workload.

Storage (Hard Drive) (long-term)





We interact with modern computers using a range of devices. These include:

Keyboard
Mouse
Monitor
Printer
Speakers
Camera

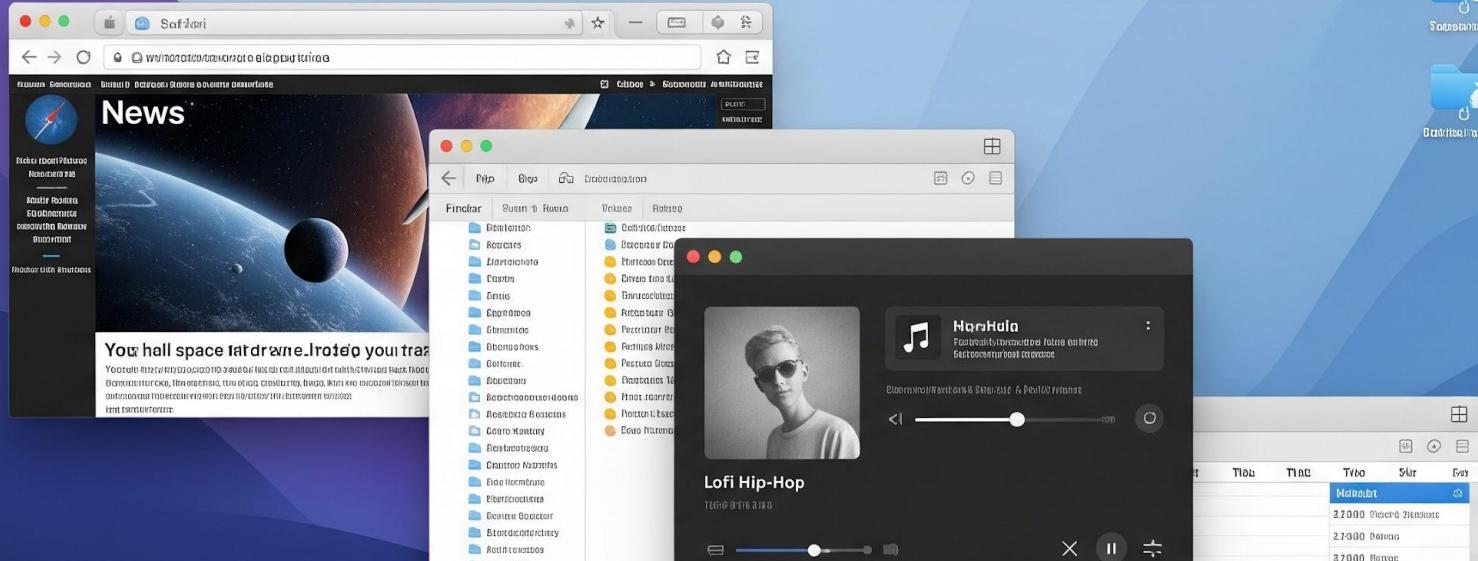
Input & Output



OS



Operating
Systems

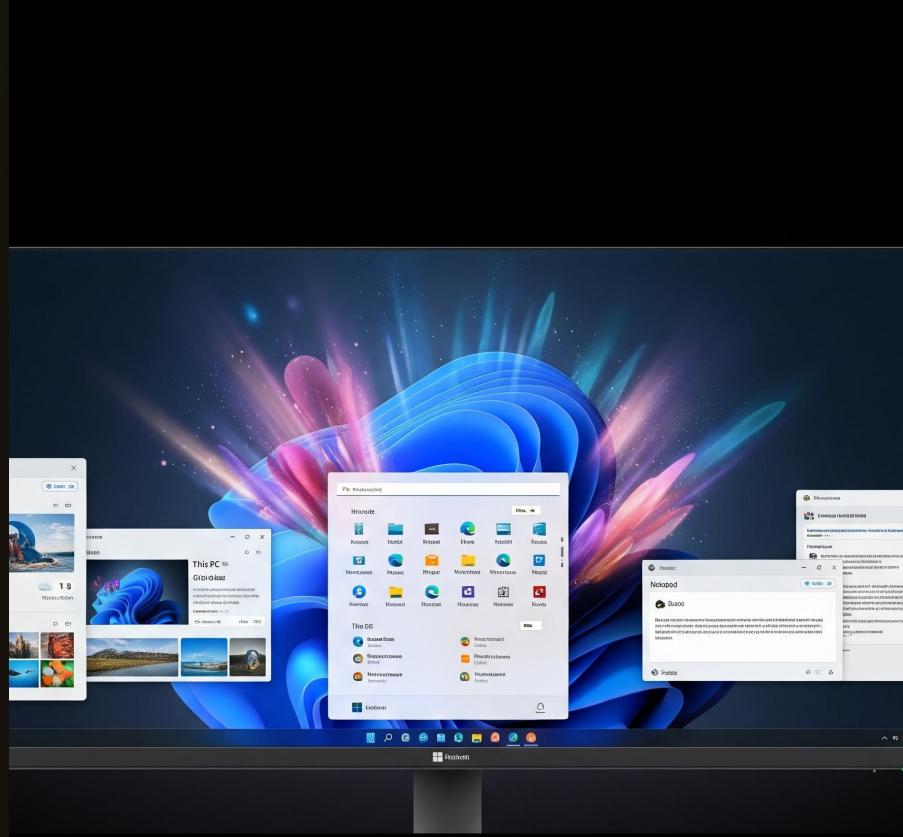


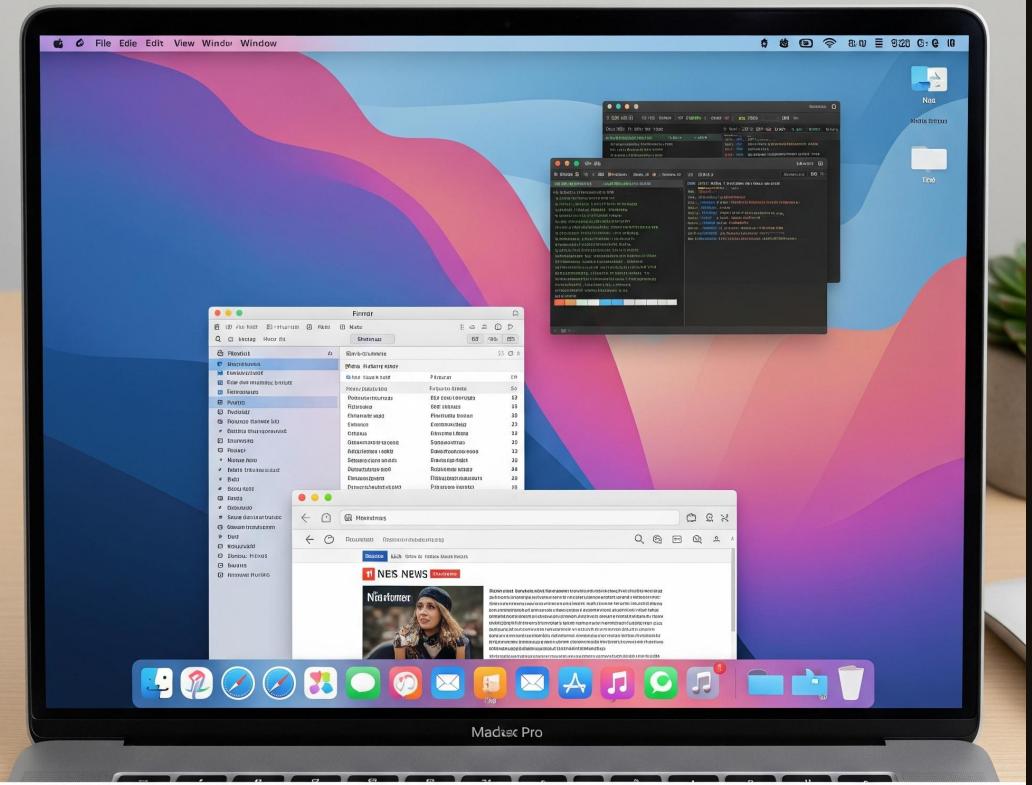
Operating systems are like the cookbooks of computing. They're collections of instructions on how to "cook" anything you need with your computer. From interacting with the hardware, to launching apps and tools, the operating system runs the show.

Major Operating Systems

Windows

Microsoft Windows 11 is the current version of their flagship operating system.





Apple macOS is currently at version 26.

Apple MacOS

Linux

Linux is the undisputed “King of the Cloud” with versions of its operating system widely used to power most of the Internet today.





Android

Android is the mobile operating system primarily developed at Google. The vast majority of the phones in the world are powered by Android (which is also powered by Linux)

Android

What you learned this week:

1. Computers are built around four major components.
2. CPU (central processing unit) is the “brain”.
3. RAM (random access memory) is the short-term storage.
4. Hard Drive (HDD/SSD) is the long-term storage.
5. I/O (input / output) is the keyboard, mouse, monitor, etc.
6. Operating systems allow these components to communicate.

Week 02: Recap



What you'll learn next week:

1. How computers communicate.
2. IP addresses, WiFi and Routers
3. LAN vs WAN
4. DHCP & DNS

Week 3: Preview





Be incredibly proud of the hard work you put in every day. The confidence you gain is yours to keep, and the knowledge you acquired is now a permanent part of your intellectual toolkit.

This is the conclusion of one chapter, but it's just the beginning of what you can achieve. Keep nurturing that curiosity! Thank you for making this class a fantastic experience.

Great work tonight!

Thanks!

If you have any questions:

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