MINNESOTA TECH FOR SUCCESS

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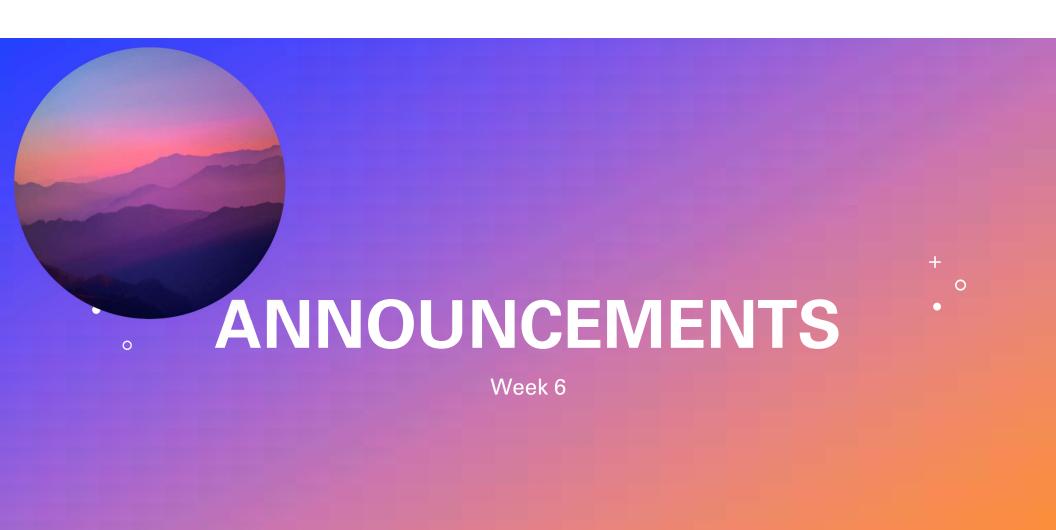
Week 5-7: Software and Operating Systems

1/10/2024

Agenda

- Announcements
- Classroom (25 min)
 - Troubleshooting
 - Continue Installing applications
 - "Hello World!"
- Break (5 min)
- Warehouse (1.5 hrs)
 - VR & Recycling





Announcements for 1/10

- Next Module: Networking Basics
 - w/ Dani & Jim
 - January 17th, 24th & 31st
- Calendar
 - Next session: Wednesday, 1/17/2024

Values

- Respect
- Accountability
- Improvement
- Steadfast
- Encouragement



SOFTWARE & 。 OPERATING SYSTEMS

Software & Operating Systems: Objectives

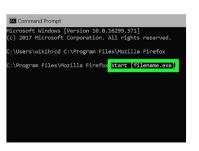
- 1. What is software?
 - Explanation of software, its role in computing, and the various types of software, including applications and operating systems
- 2. Basics of operating systems
 - Fundamental functions of operating systems and how they interact with hardware
- 3. How to install and use software
 - Guide on how to install and use software applications on a computer
- 4. Simple software troubleshooting
 - Basic troubleshooting steps for software-related issues, such as resolving software crashes.

Recap: Installing Software: Applications

- 1. Standalone Installer
 - .exe, .zip etc.



- 2. App Store: Microsoft Store, Mac App Store
- 3. Command-line shell Install
- 4. Physical (thumb-drive)









Recap: Ways to Use/Launch Software

1. Windows Start



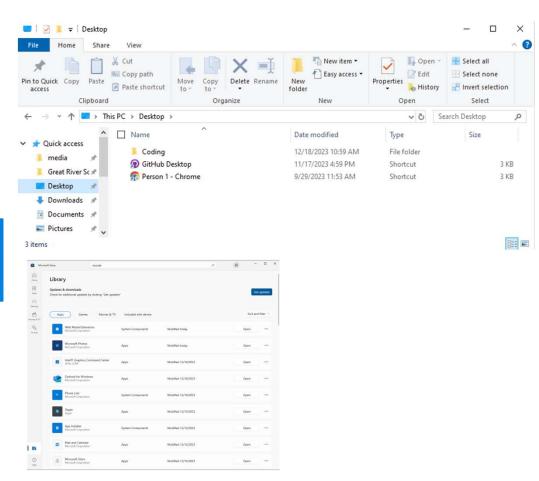
2. Terminal



3. App shortcut icon



- 4. File Explorer .exe
- 5. Microsoft Store library





Troubleshooting

Troubleshooting Steps Overview

If some Windows functions aren't working or Windows crashes, do the following:

- 1. Turning things Off and On
- 2. System File Checker
- 3. Uninstall/Reinstall/Update Applications
- 4. Check Resource Requirements

Troubleshooting: On/Off (*)

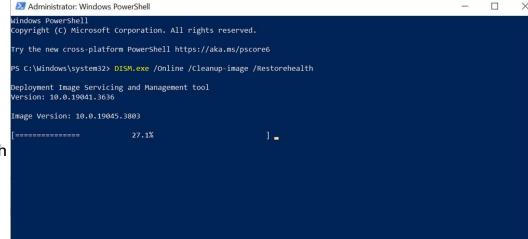
- Memory Leak: Programs that don't properly clean up and release used resources, prevents the system from allocating those resources to other applications
- Power buttons/switches* can be labeled with "I" and "O" symbols.
 - "I" = power on
 - "O" = power off

*Flea Power Drain: process to drain static electricity from the desktop server. Helps resolve issues with bad power causing inconsistencies with components



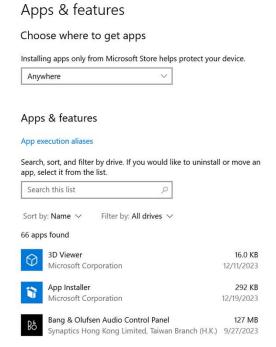
Troubleshooting: System File Checker

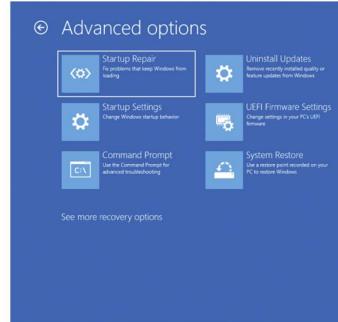
- System File Checker scans Windows and repairs & restores missing or corrupt files
- Open Windows PowerShell Admin (or Command Prompt)
- 2. Type: DISM.exe /Online /Cleanup-image /Restorehealth (note the space before each "/"), and then press Enter. (May take minutes to start and up to 30 minutes to complete.)
- 3. After message: "The operation completed successfully," type: sfc /scannow (note the space between "sfc" and "/") and press Enter.
- After you see a message that says,
 "Verification 100% complete," type: exit.



Troubleshooting: Uninstall/Reinstall/Update

- Start >
 Settings >
 Apps &
 features
- 2. Windows
 Recovery
 Environment
 (WinRE)

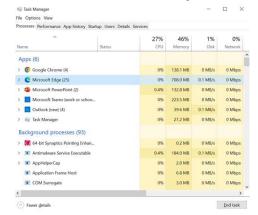


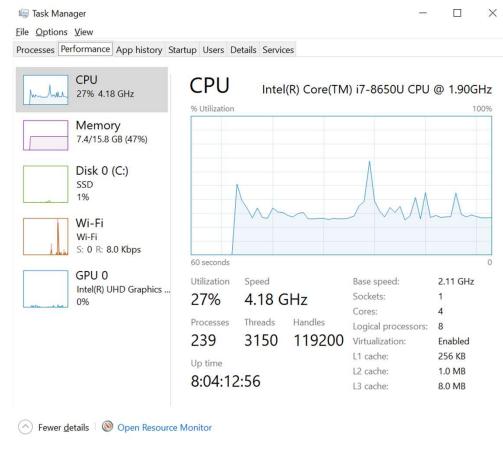


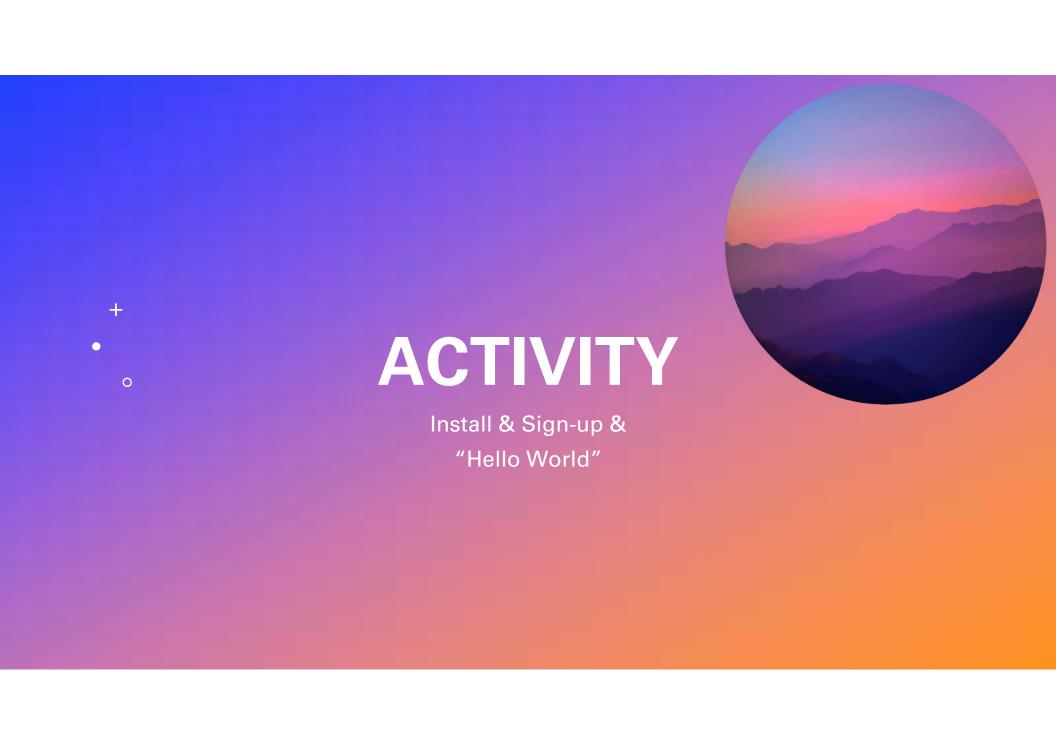
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Troubleshooting: Resource Requirements File Options View Processes Performance App history St.

- Task manager
 - Press: [CTRL] [SHIFT] [ESC]
 - Investigate processes and performance
- Check and compare application minimum requirements with PC specs







Continue Install/Sign-up for the following:

- 1. Google Chrome Browser Install using standalone method
- 2. Git for Windows Install using standalone method
- 3. Visual Studio Code Install using app store method
- 4. Github -signup
- 5. CodePen -signup
- * All links are located on curriculum website

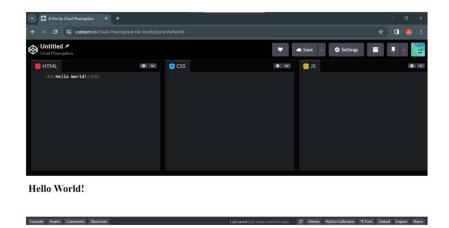
"Hello World!"

- 1. Navigate & login to: CodePen.io
- 2. Click on: Pen



- 3. HTML Section
 - Type:

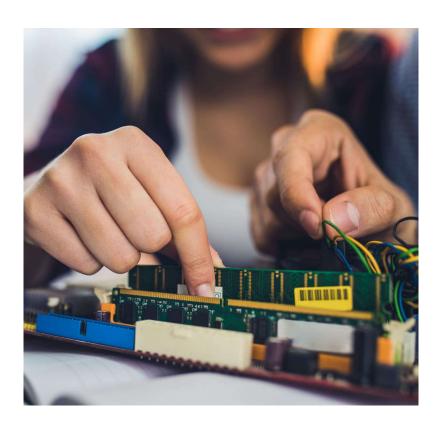
<h1> Hello World! </h1>





Warehouse Activity

- 1:30-3:00pm
- Parting/recycling



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