

INTRO TO THE TERMINAL

UML ASSOCIATION FOR COMPUTING MACHINERY

UPDATES

ACM IS NOW AN OFFICIAL CLUB!

- Engage Page: <https://umasslowellclubs.campuslabs.com/engage/organization/acm>
- We will be posting future events here!



MEMBERSHIP

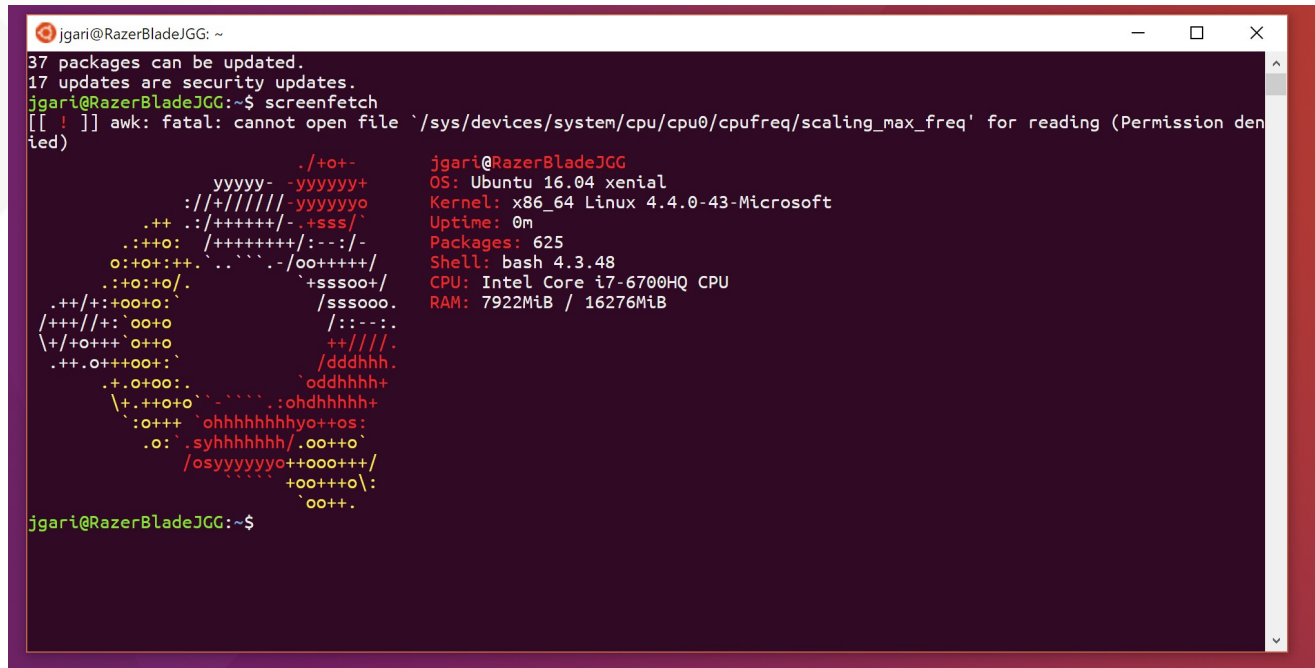
- You can sign-up for a free ACM account if you're interested: <https://accounts.acm.org/>
 - We will notify you about future events and opportunities through this list
- For future meetings, we will be collecting attendance:
 - Download the Corq app: <https://corq.app/>



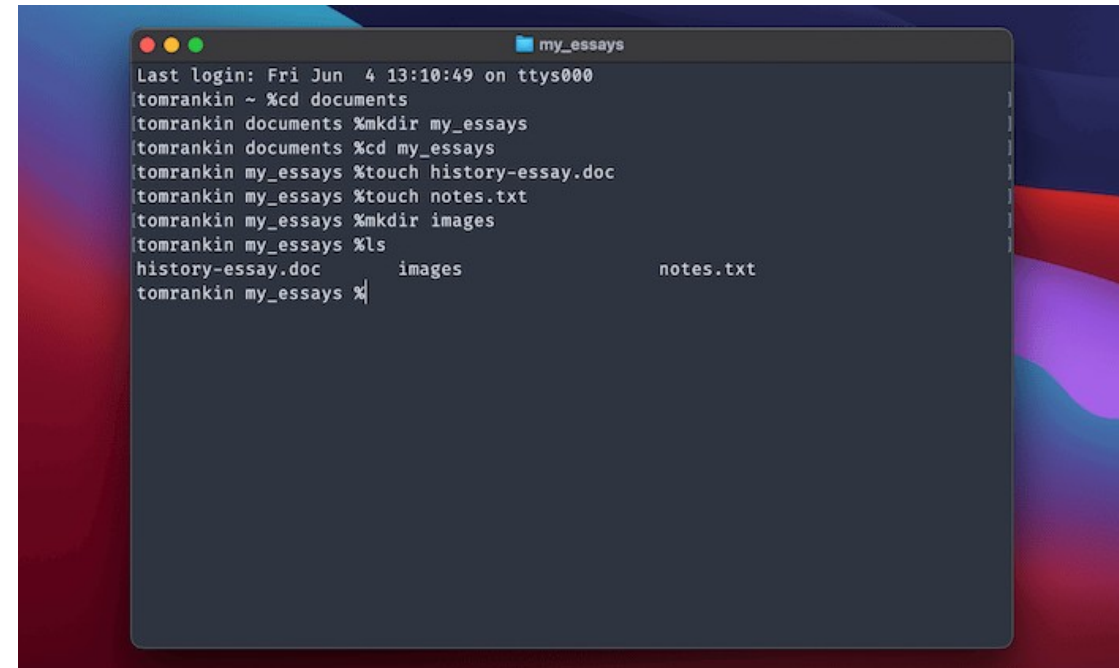
TERMINAL BASICS

WHAT IS THE TERMINAL

- A program that allows users to interact with the internal operating system through a command-line interface (CLI)
- Originated from the Unix operating system developed in the 1960s
- Examples include the Linux Terminal and the Terminal on macOS



```
jgari@RazerBladeJGG: ~  
37 packages can be updated.  
17 updates are security updates.  
jgari@RazerBladeJGG:~$ screenfetch  
[[ ! ]] awk: fatal: cannot open file '/sys/devices/system/cpu/cpu0/cpufreq/scaling_max_freq' for reading (Permission denied)  
  
          ./+o+-          jgari@RazerBladeJGG  
        yyyyy- -yyyyyy+  
      ://+////////-yyyyyyo  
    .++ .:/++++++/- .+sss/  
  .:++o: /+++++++/:-:-/-  
o:+o:++..''''-./oo++++/  
.:+o:+o/.      +sssoo+/  
./++/+:+oo+o:  /sssooo.  
/++//+:`oo+o  /:--:..  
\\+/+o+++`o+o+ ++//+..  
..+.o+++oo+:`  /dddhhh.  
+.o+oo:..      'oddhhhh+  
\\+.++o+o`-''''-:ohdhhhh+  
:o+++ `ohhhhhhhhyo++os:  
:o: .syhhhhhhh/.oo++o`  
/osyyyyyyo+ooo+++/  
      +oo++o\:  
      'oo++.  
  
jgari@RazerBladeJGG:~$
```



```
my_essays  
Last login: Fri Jun  4 13:10:49 on ttys000  
tomrankin ~ %cd documents  
tomrankin documents %mkdir my_essays  
tomrankin documents %cd my_essays  
tomrankin my_essays %touch history-essay.doc  
tomrankin my_essays %touch notes.txt  
tomrankin my_essays %mkdir images  
tomrankin my_essays %ls  
history-essay.doc      images                  notes.txt  
tomrankin my_essays %
```

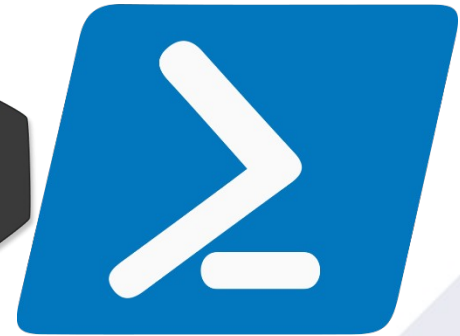
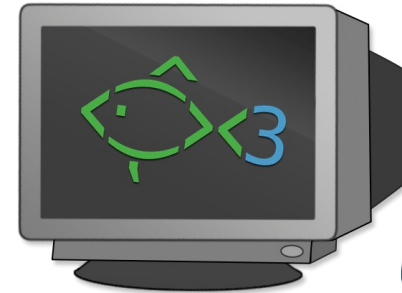
TERMINAL VS THE SHELL

- Terminal:

- Runs the shell
- Handles I/O
- Originally physical device, now emulated in software

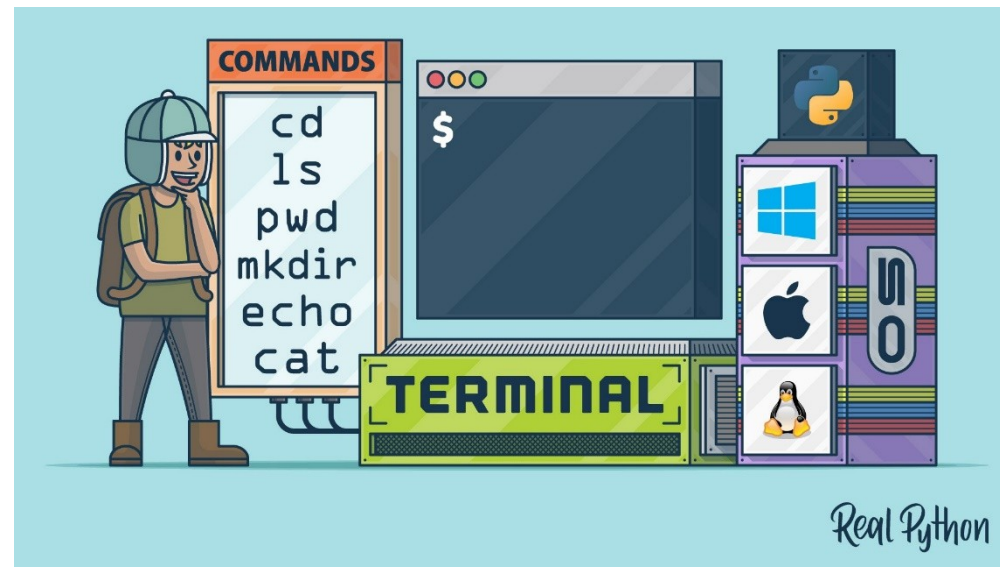
- Shell:

- Process commands and returns output
- Many modern shells also handle background and foreground processes, command history, and command line editing



WHY USE THE TERMINAL?

- Programmatic way to tell the computer to do something rather than having you, the user, manually do it.
- Examples: make a file, move a file, remove a file, and make a directory.
- You can also list files and folders in a directory.



OVERTHEWIRE

- Games designed to help new users learn cybersecurity concepts
- For this meeting, we will be focusing on the first game, Bandit, since it deals with learning basic terminal commands
- Link: <https://overthewire.org/wargames/bandit/>



CONTACT INFO

Our Linktree!

