

The Linux Command Line Interface (CLI)

- Different from Graphical User Interfaces (GUI)
- **command Line** – Text based interface that lets you interact with computer
- **shell** – program that presents the command-line interface
- **terminal** – program that runs a shell
- **prompt** – beginning of command line which prompts you for action
- Shells come in different flavors (tcsh, bash, zsh, ksh, fish, etc.)

Some Useful Commands

- `ssh`
- `echo $0`
- `pwd`
- `ls`
- `ls -ll`
- `ls -lh`
- `mkdir tmp`
- `cd tmp`
- `tree`
- `tree >> tree_out.txt`
- `cd ..`
- `cd -`
- `cd ~`
- `cat tree_out.txt`
- `more tree_out.txt`
- `less tree_out.txt`
- `vim tree_out.txt`
- `grep "nvidia" ./ -r`
- `cat tree_out.txt | grep -v tool`
- `du -h --max-depth=0`
- `du -h --max-depth=2`
- `which python`
- `which gcc`
- `sed 's/tool/HELLO/' tree_out.txt > test.txt`
- `vimdiff test.txt tree_out.txt`
- `bash run_whpc.sh`
- `./run_whpc.sh`
- `ls -l run_whpc.sh`
- `chmod 700 run_whpc.sh`
- `mv tree_out.txt ..`
- `history`
- `source`
- `ctrl+R: Reverse search`