

Mines GP Workshop

14 December 2023

- Navigating:
 - cd /your/directory takes you to that location
 - Using ~/folder is the same as /home/username/folder
 - pwd shows your current location
 - cd ... goes back one folder and cd .../.. goes back two
 - cd is like a 'back' button on a browser
 - pushd /new/folder goes to the new location AND:
 - pushd again goes to the folder before using pushd
 - popd does is a second pushd but removes previous location

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- Exploring:
 - Ls lists all files in the folder
 - ls -l lists the long form of file information (creation date, size, owner, permissions)
 - ls -t lists the files by time last touched, not alphabetic
 - All can be combined (e.g., ls -ltr lists long form organised by reverse time touched)

- More exploring:
 - 1s SCo* lists all files starting with SCo
 - Try using other search characters like ??, [abcde], etc
 - cat file.txt shows the file contents
 - Try using more, less, etc
 - Commands can be 'piped' using |
 - ls | wc is a word count and shows number of files
 - find ~/file *.sh will find all files with .sh extension in all sub-directories of ~/file (partial find ./ -iname "*name*")
 - grep -n Result SConstruct shows all instances of Result in file named SConstruct

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- Creating:
 - mkdir folder1 creates a folder in your current directory
 - touch file2 creates an empty file in your current directory
 - vim file3 creates the file and immediately allows editing

Using vim

- vim is a text editor!
- Open a file from command line: vim filename
- Arrow keys navigate the file
- Information is always at the bottom of the window:



Inputting text:

- i to start inserting text at the cursor location
- r to start replacing text
- a to start inserting text after the cursor
- A to start inserting text at the end of the current line
- Commands
 - A colon defines the beginning of a command
 - Write/save the file is :w, quit vim is :q
 - Can be combined like this → :wq

Using vim

- Finding a string
 - /text will find all instances of 'text' and highlight them
 - n will bring you to the next instance
- Replacing a string
 - :%s/old/new/g
- dd cuts the current line
 - 2dd cuts the current line and the next line (2 lines)
- yy yanks the current line (like copy)
 - 2yy yanks two lines
- p places the last cut or yanked line at the cursor
 - P places that line below the current line
- vim is very robust and has many commands and lots of online help (e.g., https://vim.rtorr.com/)



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