Introduction to emacs

Emacs is a powerful program which provides many useful tools that can be accessed directly from the terminal window of a local or remote machine. This tutorial will focus on the basics of the program, including how to open, edit and close a document using it via the command-line.

Step 1: If you wish to use the program on your own computer, you can easily do so after following the installation steps shown here:

https://www.gnu.org/software/emacs/download.html

Since emacs is already installed on the storm server, for the following examples I have remained logged on to it as described in the previous tutorials How To: remote login using MobaXterm (Windows) and begin at the command-line prompt.

Step 2: To start, let's display some basic information about the program by typing **emacs** into the terminal and pressing **enter**. After reading, this screen can be exited by pressing **[ctrl-x] [ctrl-c]** as shown in the guide.

```
🧶 🌑 🁚 courtneyking — cking74@storm:~ — ssh cking74@storm.cis.fordham.edu — 8...
ile Edit Options Buffers Tools Help
elcome to GNU Emacs, one component of the GNU/Linux operating system.
                   C-h (Hold down CTRL and press h)
Get help
                  C-h r
                                Browse manuals
                                                   C-h i
Emacs manual
Emacs tutorial
                  C-h t
                                Undo changes
                                                   C-x u
                   C-h RET
                               Exit Emacs
                                                   C-x C-c
Buy manuals
Activate menubar
('C-' means use the CTRL key. 'M-' means use the Meta (or Alt) key.
If you have no Meta key, you may instead type ESC followed by the character.)
Useful tasks:
Visit New File
                                Open Home Directory
Customize Startup
GNU Emacs 27.2 (build 1, x86_64-redhat-linux-gnu, GTK+ Version 3.24.30, cairo v∖
ersion 1.17.4)
of 2021-08-07
Copyright (C) 2021 Free Software Foundation, Inc.
GNU Emacs comes with ABSOLUTELY NO WARRANTY; type C-h C-w for full details.
Emacs is Free Software--Free as in Freedom--so you can redistribute copies
of Emacs and modify it; type C-h C-c to see the conditions.
-UUU:%%--F1 *GNU Emacs*
                            Top L1
                                       (Fundamental) ----
For information about GNU Emacs and the GNU system, type C-h C-a.
```

Step 3: First **locate the file** you wish to open with emacs.

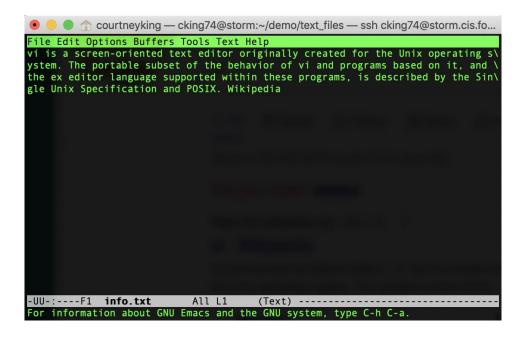
It may be helpful to know the **cd** (change directory), **pwd** (print working directory) and **ls** (list contents) commands for this step or to be familiar with the concept of absolute and relative paths. They are explained in the tutorial Introduction to Linux.

Here, I begin in the directory of my account on the remote machine /home/students/cking74 and navigate to a folder I previously created named "text_files" which holds the file I wish to open with emacs, "info.txt"

Of course if you already know the full location of the file and don't want to go through the navigation steps, you could just prepend it to the file name. This means I could reference the file from a different location on the machine as "/home/students/cking74/demo/text_files/info.txt" rather than just "info.txt" in the following steps.

Step 4: You can **open the file** by simply typing **emacs** followed by the file name into the terminal and pressing **enter.** Here I open the file "info.txt" with the following command:

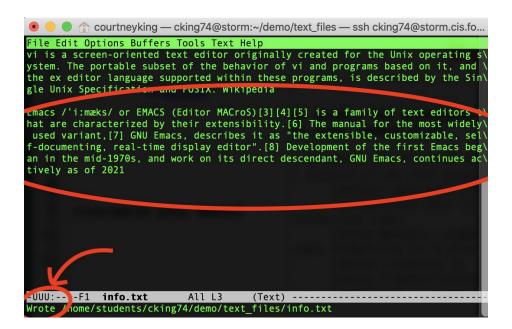
emacs info.txt



After running this command, we can see the contents of "info.txt" displayed in the window, which contains the information about another popular text-editing tool, vi.

Step 4: If you only want to view the file, you can simply **close the document** by pressing **[ctrl-x] [ctrl-c]** although the example will continue on to write some information to "info.txt" in the following step.

Step 5: When you open a file with emacs, you already have the ability to **edit the document** using the keyboard. Here, I've copied some information about emacs from Wikipedia to "info.txt" and have **saved** it by pressing [ctrl-x] [ctrl-s]. After this, the system lets me know that the changes have been written to the document in the bottom left corner of the window as shown below.



And then the document can simply be **closed** with **[ctrl-x] [ctrl-c]** as previously shown, returning you to the command-line prompt.

If you write to the document and don't wish to save change the changes, just close it with [ctrl-x] [ctrl-c]. Emacs may prompt you with a similar message to the one shown below to confirm your choice before discarding the changes.

Step 6: Emacs is an extensive program with much to learn. For more information about the program and its capabilities, please review the following guides:

- https://www2.hawaii.edu/~walbritt/ics211/materials/emacs.htm (basic)
- https://www.gnu.org/software/emacs/tour/ (extended)