Chapter 6: The vim Editor

An Exercise in Memorizing Your Alphabet

In this chapter

- ed, ex, vi, vim
- vim basics
- Command Mode
- Input Mode
- Last Line Mode
- Buffers
- Yanking

In the beginning ...

- There was ed ... single line editor
- Then came ex ... had a nifty visual mode
- Visual mode lead to vi
- Written by Bill Joy (BSD, csh, Sun) in 1976
- vi a Unix utility so we need a free clone
 - -elvis, nvi, vile, and vim

vim

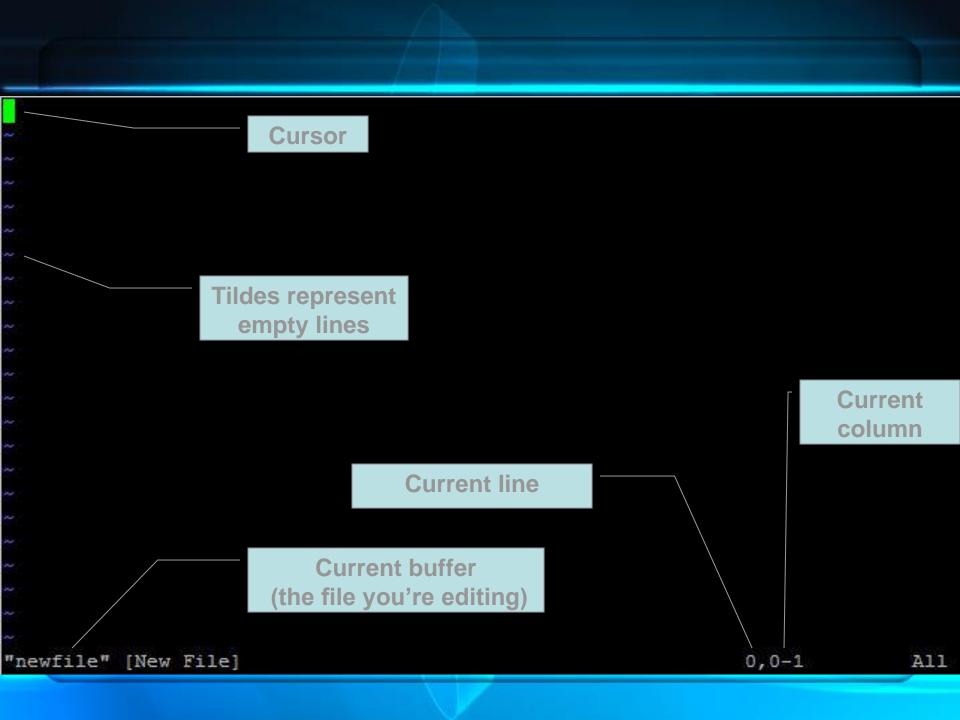
- We'll be using vim vi improved
- Written by Bram Moolenaar
- In our RedHat distro, we have /bin/vim
- vi is just an alias to vim
- Standard in just about all Linux distros
- Available from www.vim.org
 - gVim, multi-platform

vim con't

- Powerful, quick text editor
- Excellent for programming due to intelligent language detection
- NOT a formatting tool ... plain text only
- Nearly limitless options and commands
- Excellent tutorial vimtutor

Starting vim

- Syntax: vim [options] [filename]
- Filename is optional
 - With it, it opens that file for editing
 - Without, it opens a default screen
- Many options available, most commonly used ones are for file recovery



How it works

- vim copies the contents of the file you want to edit into memory
- This memory is referred to as the Work Buffer
- Changes are made to the buffer, not the file
- You must write changes to file when done editing the buffer

Modes

- vim has three modes
 - Command
 - Input
 - Last Line
- When you start vim, you begin in Command Mode by default
- Hitting ESCAPE will get you back to Command Mode from other modes

Command Mode

- Default mode
- Used to enter commands
 - Text manipulation
 - Change modes
 - Save/exit
- Most commands are just alpha characters, not control sequences
- Case sensitive!

Insert Mode

- The mode that lets you edit and enter text
- Several sub-modes
 - Insert
 - Append
 - Open
 - Replace
 - Change
- You'll spend most of your time here

Last Line Mode

- From command mode press :
- Cursor jumps to the last line on the screen
- Here you can manage files, issue shell commands, change editor settings
- Also where you go to exit

Getting into Input Mode

- i nsert before cursor
- I nsert before first nonblank character on line
- a fter cursor
- A t end of line
- o pen line below
- o pen line above
- r eplace current character
- R eplace characters

Command Mode - Essentials

- h move cursor left
- j move cursor down
- k move cursor up
- 1 move cursor right
- x delete character
- dw delete word
- dd delete line
- ZZ write and quit

Command Mode con't

- /regexpr search forward
- ?regexpr search backwards
- n repeat last search (ie, find next result)
- N repeat last search, in opposite direction
- nG Jump to line n (omit n to go to last line)

Last Line Mode Essentials

- w write file
- q quit
- w! write read-only file
- q! quit without saving changes
- e filename opens a file for editing

Last Line Mode con't

- sh open a shell
- ! command open a shell, run a command, then exit the shell
- ! command open a shell, run a command, exit the shell, placing the standard output into the work buffer
 - Can also do !!command from Command Mode

Buffers

- Work buffer
- General Purpose Buffer kind of like the clipboard in Windows
- Named buffers
- Numbered buffers

General Purpose Buffer

- Contains recently edited or deleted text
- It's where undo information is stored
- You can copy (yank) text to this buffer and then paste (put) it elsewhere

Named Buffers

- Similar to the General Purpose Buffer
- Does not contain undo info only contains text if you put it there
- Each of the 26 buffers is referenced by letter a-z

Numbered Buffers

- Numbered 1-9
- Read only
- Contain most recently deleted chunks of data greater than one line long
- You can paste (put) from these buffers and use them for undoing deletes

yank

- Copies lines of text
- To yank a line, use yy
- Or use Y it's shorter
- To yank multiple lines, place cursor on the first line and use nY, where n is the number of lines to yank

yank con't

- By default it yanks text to the General Purpose Buffer
- To place in a named buffer, precede the yank command with double quotes and the letter of the buffer you wish to use
- Use lowercase letter to overwrite, upper case to append
- Ex: "c5Y would yank 5 lines to buffer c

put

- Pastes text from a buffer into the Work Buffer
- Use p to put below current line
- Use P to put above current line
- Again, if using a named buffer, precede with double quotes and the letter

vim

- Just barely scratching the surface
- Hundreds of commands
- Command modifications
- We'll cover searching and substituting in Appendix A