

Using Vi(m)

- This presentation on using the Vi(m) editor will cover:
 - A brief overview of vim's features
 - Several demos on using vim

Using Vi(m)

- References:
 - Vimdoc: <http://vimdoc.sourceforge.net/>
 - <http://www.vim.org/tips/index.php>
 - <http://www.vim.org/vimscriptlinks.php>
 - Joe 'Zonker' Brockmeier has written several articles at Linux.com
 - <http://www.linux.com/articles/#>
 - 54157, 54159, 54936, 114138

Using Vi(m)

- Vi is a pocket knife, vim is a Swiss Army knife
- Probably even Bram Moolenaar doesn't use all of vim's features
- If you haven't edited a `.vimrc` file, you're not really using vim

Using Vi(m) Basic Editing

- `vi <filename> | <filelist>`
- Two modes: command and input
 - Normal mode:
 - Move around file
 - Modify blocks of text
 - Manage file
 - Much, much more
 - Input mode
 - Enter text

Using Vi(m) Basic Editing

- A session starts in normal mode
- To start entering text, press:
 - a: Start entering text after cursor
 - i: Start entering text at cursor
 - o\O: Start entering text on next\previous line
- To exit input mode, press ESC
- To exit vim:
 - :wq: Exit and save changes
 - :q!: Exit and discard changes

Using Vi(m) Basic Editing

- Moving around
 - In Linux, arrows and page keys work as expected while standard keys are:
 - Ctrl-F\B: Scroll forward\backward 1 page
 - Ctrl-D\U: Scroll forward\backward 1/2 page
 - H\M\L: Top\middle\bottom of page
 - h\j\k\l: Move cursor left\down\up\right
 - w\b\e: Go to next\previous\end of word
 - #G: Go to line # (default = end of file)

Using Vi(m)

Basic Editing

- `^?<text>`: Find text after\before current position
 - `text` = A string or any valid regular expression
 - `^\$` = From start\end of line
 - `.` = Any character
 - `*` = All of previous character (ie. `a*` all a's)
 - `\` = Escape or treat special characters as regular characters
 - `[]` = Any character within brackets (ie. `m[ae]n` finds man or men)
 - `\<\>` = Target must be full word (ie. `\<men\>` will not find amen)

Using Vi(m) Basic Editing

- Manipulate blocks of text
 - #CMDd
 - # = optional number of items
 - d = optional destination
 - 0\\$: beginning\end of line
 - (\): beginning\end of sentence
 - {\}: beginning\end of paragraph
 - %: matching paren, bracket, or brace
 - w: word
 - CMD (general rule):
 - upper case = before current position
 - lower case = after current position

Using Vi(m) Basic Editing

- Commands
 - d: Delete
 - y: Yank or copy
 - p: Paste
 - c: Change
- Some commands do not use destination:
 - x: Delete character
 - s: Substitute character

Using Vi(m) Basic Editing

- Command line = `:<command>`
- Substitute
 - `:b,e s/<find text>/<replace text>/g`
 - b: Start substitution: line # or . (current line)
 - e: End substitution: line #, ., or \$ (last line)
 - /: May be any non-alphanumeric character
 - g: Change every instance, blank = change first instance
 - find text: A valid regular expression
 - `foo[bcj]ar` finds foobar, foocar, and foojar
 - `^$` finds blank lines

Using Vi(m)

Basic Editing

- Saving and exiting
 - `:w<filename>` = Save current or named file
 - `:q[!]` = Quit [without saving changes]
- Editing multiple files
 - `:#n` = Edit next file in list (skip to #th file)
- Options
 - `:set` = See the documentation for details on set
- External commands
 - `!:CMD` such as `!:ls -l *.c` to list source code files

Using Vi(m) Editing Code

- Vim scripts
 - Should be installed in system vim directory, but may be installed in \$HOME
 - Include scripts for vim tutoring, spell checking, color highlighting, syntax checking, even games
 - Most useful for editing code

Using Vi(m) Editing Code

- Enable syntax checking
 - `:syntax enable`
- Select alternate color scheme for syntax highlighting
 - `:color <color scheme>`
 - color schemes are in `colors` in vim system directory
- `:filetype indent on`
- `:set tabstop=#`

Using Vi(m) Editing Code

- Fold lines to hide them from view
 - #zf or zfd
 - d = same destination as other editing commands
 - May also enter v for visual block, move cursor to end of lines to fold and enter zf
 - Handy function key settings:
 - :map <F5> zf}
 - :map <F6> zf%
 - zo\c: Open\close fold
 - zE: Erase all folds

Using Vi(m)

Editing Shortcuts

- Macros
 - :map KEY CMD
 - <Enter>, <Esc>, etc. may be used so those keys can be included in complex macros
 - Available keys for mapping:
 - <Fn> = Function key
 - <S-Fn> = Shift + Function key
 - <xFn> = Alt + Function key
 - ,LETTER_COMBINATION such as ,hi for html italics (Note: multi-character macro keys must be typed quickly or not recognized)

Using Vi(m)

Editing Shortcuts

- Autocmd: Define actions for certain events
- :au EVENT FILE_SPEC CMD
 - Events:
 - BufWinEnter: When a file is displayed in a window
 - BufWinLeave: Before a file is exited
 - BufNewFile: When starting to edit a new file
 - Many, many more
 - Commands: Apply generally to all files defined
 - For *.html, enter HTML, HEAD, and BODY tags
 - For all files, load and save status

Using Vi(m) .vimrc

- Any command entered using “:” may be loaded automatically by entering it in `$HOME/.vimrc`
- Examples:
 - `set history=200`
 - `set viewdir=~/.vimsess`
 - `au BufWinEnter * silent loadview`
 - `au BufWinLeave * mkview`
 - `map <F5> zf}`
 - `map <F6> zf%`

Using Vi(m) Conclusion

- Vim is a very powerful editor
- Learn the basics and then add knowledge as needed
- Learn regular expressions!!
- Learn to navigate vimdoc
- Experiment
- Share your experience with others