

Vim Magic

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21st September, 2019

Introduction

Modes

- Normal

- Insert

- Visual

Tabs and Splits

- Manage your splits

- Manage your tabs

Auto-complete

Mappings

Registers

Show us some cool tricks!

- Expression Register

- Use external commands

References

READ THE FINE MANUAL.

A little bit of history

- ▶ `vi` was created by Bill Joy as a full-screen extension of `em` which was a modified version of `ed`.
- ▶ `ed` is one of first parts of the Unix system to be developed.
- ▶ Later, `vi` was re-written into a much improved version, called `vim`, by Bram Moonlear.
- ▶ The latest iteration, is called `neovim`, which is a refactoring of the original `vim`.
- ▶ There are other interesting projects such as `onivim`, which are bringing `neovim` to the desktop, but in a very appealing manner.

Install vim

Debian

```
sudo add-apt-repository ppa:jonathonf/vim  
sudo apt-get update
```

Fedora

```
sudo dnf install vim-enhanced gvim
```

Difference between vi and vim

1. vi has limited undo history.
2. vi has no syntax highlighting.
3. vim has Vimscrip support.

Command

```
:help vi-differences
```

Terminology

1. Commands - `:help`
2. Keystrokes - `<F1>`
3. Buffers
4. “Tab” page
5. Windows/Splits
6. Modes

What is a modal editor?

1. In a modal editor, the same keys have different meanings depending on the mode.
2. This means, that the same keys can achieve more tasks.
3. This also means, that you save keystrokes.

Is vim a language? Yes.

- ▶ vim treats text as *text-objects* and commands perform *actions* over these *text-objects*.
- ▶ A *text-object* may be a word, a paragraph, etc.
- ▶ An *action* may be delete, change, etc.
- ▶ The action maybe performed inside two text objects, or around one object, or surrounding a text-object.

Examples

d w
delete word

Normal Mode

```

VIM - Vi IMproved

version 8.1.1967
by Bram Moolenaar et al.
Modified by jonathon.fernyhough@york.ac.uk
Vim is open source and freely distributable

Help poor children in Uganda!
type :help iccf<Enter> for information

type :q<Enter> to exit
type :help<Enter> or <F1> for on-line help
type :help version8<Enter> for version info

Running in Vi compatible mode
type :set nocompatible<Enter> for Vim defaults
type :help cp-default<Enter> for info on this

```

terminal

1:nvim# 2:ranger# 3:irssi# 4:neomutt# 5:vim*

85% | 09/19/19 Thu 00:03 AM

Normal Mode

1. `vim` always opens up in this mode.
2. Normally, stay here.
3. This mode is used to:
 - i Navigate through files.
 - ii To copy and paste.
 - iii To delete.
4. Copy and paste in `vim` is known as:
 - 4.1 Copy - Yank (`y`)
 - 4.2 Paste - Put (`p`)

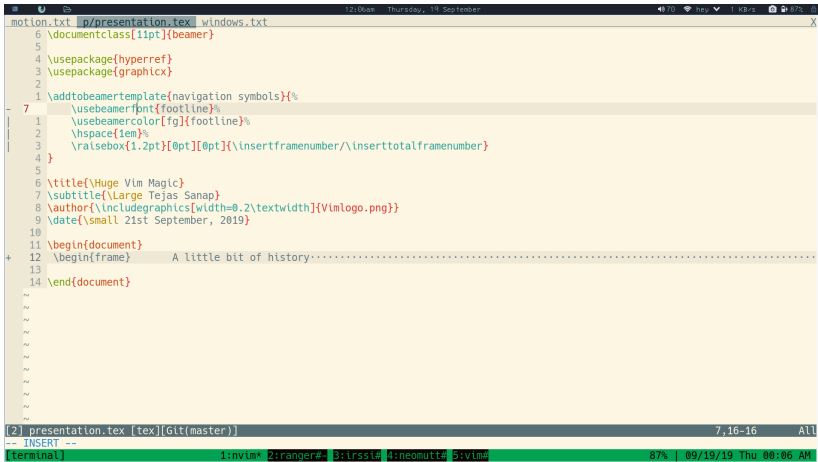
How to navigate through a file

1. **Move along words** - w, b, e, f, t, F, T
2. **Scroll** - <C-d>, <C-u>, <C-f>, <C-b>, <C-e>, <C-y>
3. **Move the current line** - zt, zb, zz
4. **Jump across the screen** - H, M, L

Command

:help usr_03.txt

Insert Mode



The screenshot shows a Vim editor window with a yellow background. The title bar indicates the file is 'p/presentation.tex' and the window title is 'windows.txt'. The status bar at the bottom shows the current mode is 'INSERT' and the file is 'presentation.tex [tex] [Git(master)]'. The editor content is a LaTeX Beamer presentation file. The first part of the file defines the document class, packages, and navigation symbols. The second part defines the title, subtitle, author, and date. The third part begins the document and a frame. The frame contains the text 'A little bit of history...'. The editor is in Insert mode, as indicated by the status bar and the '+' sign on the left margin.

```
motion.txt p/presentation.tex windows.txt
6 \documentclass[11pt]{beamer}
5
4 \usepackage{hyperref}
3 \usepackage{graphicx}
2
1 \addtobeamertemplate{navigation symbols}{%
7   \usebeamerfont{footline}%
1   \usebeamercolor{fg}{footline}%
2   \hspace{1em}%
3   \raisebox{1.2pt}[0pt][0pt]{\insertframenumber/\inserttotalframenumber}
4 }
5
6 \title{\Huge Vim Magic}
7 \subtitle{\Large Tejas Sanap}
8 \author{\includegraphics[width=0.2\textwidth]{Vimlogo.png}}
9 \date{\small 21st September, 2019}
10
11 \begin{document}
12 \begin{frame} A little bit of history.....
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14 \end{frame}
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```

Insert Mode

1. Only jump in here, when necessary.
2. Enter insert mode in short bursts.
3. vim offers text-completion from various sources.

Command

```
:help usr_24.txt
```

Visual Mode

1. Visual mode is a great help during yank/put operations.
2. Has **three** modes:
 - i visual mode per character - `v`
 - ii visual mode linewise - `<S-v>`
 - iii visual mode blockwise - `<C-v>`

Command

```
:help visual.txt
```

Splits

1. Divide the current window into splits, producing two viewports.
2. Splits can be vertical and horizontal.

The image shows a Vim editor window with two buffers. The top buffer contains a LaTeX document titled `things.md` with sections on Vim's history and goals. The bottom buffer shows the output of a LaTeX compilation, including the command `!nvim` and the resulting PDF file `things.md [markdown] [Git(master)]`.

Top Buffer (things.md):

```
14 \subsection{Normal}
13 \begin{frame} Normal Mode.....
12
11 \subsection{Insert}
10 \begin{frame} Insert Mode.....
9
8 \subsection{Visual}
7 \begin{frame} Visual Mode.....
6
5 \section{Tabs and Splits}
4
3 \begin{frame}{Splits}
2 \begin{enumerate}
1 \item Divide the current window into
splits, producing two viewpoints.
162 \item Splits can be vertical and horizontal.
1 \end{enumerate}
1 \end{frame}
4
3 \section{References}
2 \begin{frame}{Keybindings on a layout}
1
2
3 \includegraphics[width=\textwidth]{vimcheatsheet.png}
1 \end{frame}
7
8 \begin{frame}{References}
9 \begin{itemize}
10 \item \hyperlink{https://github.com/mhinz/
vim-galore}{vim-galore}
11
12 \item \hyperlink{http://vimcasts.org/
}{Vimcasts} \texttt{\code{wget -nd -np -r -erobots-off -N -c -
A *.m4v http://media.vimcasts.org/videos/}}
```

Bottom Buffer (terminal):

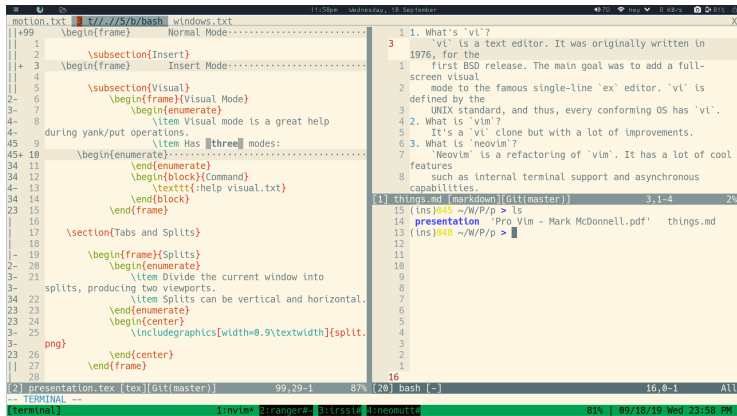
```
1 # Vim = Vi+Improved
2 1. What's 'vi'?
3 'vi' is a text editor. It was originally written in
4 1976, for the
5 first BSD release. The main goal was to add a full-
6 screen visual
7 mode to the famous single-line 'ex' editor. 'vi' is
8 defined by the
9 UNIX standard, and thus, every conforming OS has 'vi'.
10 2. What is 'vim'?
11 It's a 'vi' clone but with a lot of improvements.
12 3. What is 'neovim'?
13 'Neovim' is a refactoring of 'vim'. It has a lot of cool
14 features
15 such as internal terminal support and asynchronous
16 capabilities.
17
18 ## Goals of this talk
19 1. To not turn you into Vim Masters
20 2. To help you understand vim documentation.
21 3. To give introduce to basic vim concepts.
22
23 # 1. History of Vim
24 'vi' was originally written by Bill Joy. 'vim' was
25 created by
26 Bram Moonlear and first released in 1991. Bram remains
27 the project
28 lead to this day.
29
30 # 2. Terminology
31 1. Commands - 'help'
32 2. Keystrokes - <F1>
```

Status Bar:

1:~vim# 2:~range# 3:~rsst# 4:~neomutt# 77% | 09/18/19 wed 23:53 PM

Splits

1. Divide the current window into splits, producing two viewports.
2. Splits can be vertical and horizontal.



The screenshot shows a terminal window with a LaTeX document on the left and its rendered output on the right. The terminal window has a title bar with the text "motion.txt" and "t://5/b/bash windows.txt". The LaTeX document is a TeX file named "motion.txt" with line numbers 1 through 28. It contains a document structure with sections, subsections, and a list of items. The rendered output is a PDF document with a title "1. What's 'vi'?" and a list of items. The rendered output is a PDF document with a title "1. What's 'vi'?" and a list of items. The rendered output is a PDF document with a title "1. What's 'vi'?" and a list of items.

```
motion.txt t://5/b/bash windows.txt
+99 \begin{frame} Normal Mode.....
| 1
| 2
| 3 \subsection{Insert}
+ 3 \begin{frame} Insert Mode.....
| 4
| 5 \subsection{Visual}
2- 6 \begin{frame}{Visual Mode}
3- 7 \begin{enumerate}
4- 8 \item Visual mode is a great help
45 9 during yank/put operations.
| 10 \item Has three modes:
45+ 10 \begin{enumerate}
34 11 \end{enumerate}
34 12 \begin{block}{Command}
4- 13 \texttt{help visual.txt}
34 14 \end{block}
23 15 \end{frame}
| 16
| 17 \section{Tabs and Splits}
| 18
| 19 \begin{frame}{Splits}
2- 20 \begin{enumerate}
3- 21 \item Divide the current window into
3- 22 splits, producing two viewports.
34 23 \item Splits can be vertical and horizontal.
23 24 \end{enumerate}
3- 25 \begin{center}
3- 26 \includegraphics[width=0.9\textwidth]{split.
3- 27 png}
23 28 \end{center}
| 29 \end{frame}
| 30
| 31 \end{document}
```

1. What's 'vi'?

'vi' is a text editor. It was originally written in 1976, for the first BSD release. The main goal was to add a full-screen visual mode to the famous single-line 'ex' editor. 'vi' is defined by the UNIX standard, and thus, every conforming OS has 'vi'.

2. What is 'vim'?

It's a 'vi' clone but with a lot of improvements.

3. What is 'neovim'?

'Neovim' is a refactoring of 'vim'. It has a lot of cool features such as internal terminal support and asynchronous capabilities.

1 things.md [markdown][Git(master)] 3,1-4 2%

15 (lins)045 ~/W/P/p > ls

14 presentation 'Pro Vim - Mark McDonnell.pdf' things.md

13 (lins)048 ~/W/P/p > █

16

[2] presentation.tex [tex][Git(master)] 99,29-1 87% [20] bash [-] 16,0-1 All

-- TERMINAL --

1:nvim 2:ranger 3:ls 4:neovim 81% 09/18/19 Wed 23:58 PM

Manage your splits

Command

```
:help Q_wi
```

Manage your tabs

Command

```
:help tabpage.txt
```

Insert-completion mode

Command

```
:help ins-completion  
:help ins-completion-menu
```

Remapping? What is this?

It's magic!

Command

```
:help map.txt
```

Registers

Does your copy-paste thingy not work? Don't worry we have got you covered?

Command

```
:help registers
```

The in-built calculator

The = register.

Format emails

Command

```
!fmt -w 72
```


Keybindings on a layout

version 1.1
April 1st, 06

vi / vim graphical cheat sheet

Esc
normal mode

~ toggle case	! external filter	@ play macro	# prev ident	\$ eol	% goto match	^ "soft" bol	& repeat :s	* next ident	(begin sentence) end sentence	_ "soft" bol down	+ next line
. goto mark	1	2	3	4	5	6	7	8	9	0 "hard" bol	- prev line	= auto format
Q ex mode	W next word	E end word	R replace mode	T back 'till	Y yank line	U undo line	I insert at bol	O open above	P paste before	{ begin parag.	}	end parag.
q record macro	w next word	e end word	r replace char	t 'till	y yank	u undo	i insert mode	O open below	p paste after	[misc]	misc
A append at eol	S subst line	D delete to eol	F "back" find ch	G eof/ goto ln	H screen top	J join lines	K help	L screen bottom	. ex cmd line	" reg. spec	bol/ goto col	
a append	s subst char	d delete	f find char	g extra cmds	h ←	j ↓	k ↑	l →	. repeat t/T/t/F	' goto mk. bol	not used!	
Z quit	X back-space	C change to eol	V visual lines	B prev WORD	N prev (find)	M screen mid'l	< un-indent	> indent	? find (rev.)			
Z extra cmds	X delete char	c change	V visual mode	b prev word	n next (find)	m set mark	, reverse t/T/t/F	. repeat cmd	/ find			

motion	moves the cursor, or defines the range for an operator
command	direct action command, if red , it enters insert mode
operator	requires a motion afterwards, operates between cursor & destination
extra	special functions, requires extra input
Q	commands with a dot need a char argument afterwards

bol = beginning of line, eol = end of line,
mk = mark, yank = copy

words: quux(foo, bar, baz)
WORDS: quux(foo, bar, baz)

Main command line commands ('ex'):

:w (save), :q (quit), :q! (quit w/o saving)
:e f (open file f),
:%s/x/y/g (replace 'x' by 'y' filewide),
:h (help in vim), :new (new file in vim),

Other important commands:

CTRL-R: redo (vim),
CTRL-F/-B: page up/down,
CTRL-E/-Y: scroll line up/down,
CTRL-V: block-visual mode (vim only)

Visual mode:

Move around and type operator to act on selected region (vim only)

Notes:

- (1) use "x before a yank/paste/del command to use that register ('clipboard') (x=a..z,*) (e.g.: "ay\$ to copy rest of line to reg 'a')
- (2) type in a number before any action to repeat it that number of times (e.g.: 2p, d2w, 5i, d4j)
- (3) duplicate operator to act on current line (dd = delete line, >> = indent line)
- (4) ZZ to save & quit, ZQ to quit w/o saving
- (5) zt: scroll cursor to top, zb: bottom, zz: center
- (6) gg: top of file (vim only), gf: open file under cursor (vim only)

For a graphical vi/vim tutorial & more tips, go to www.viemu.com - home of ViEmu, vi/vim emulation for Microsoft Visual Studio

References

- ▶ vim-galore

- ▶ Vimcasts

```
wget -nd -np -r -erobots=off -N -c -A '*.m4v'  
http://media.vimcasts.org/videos/
```

- ▶ Thoughtbot on Youtube

Questions?

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