

Editing with vi

vi is ubiquitous: you will find it even in the smallest distributions. It is much easier to use than its original forms, ed and ex.



Modes

`vi` has two main modes: move and insert. A variety of commands in `vi` will put you into insert mode, but `ESC` is the way to get out!



Spell checking

As mentioned in on page 168 of your text, `spell` (or `ispell`, an interactive version) are usually used outside of `vi`.



Summary of vi commands

A summary of vi commands is here.



Editing with emacs

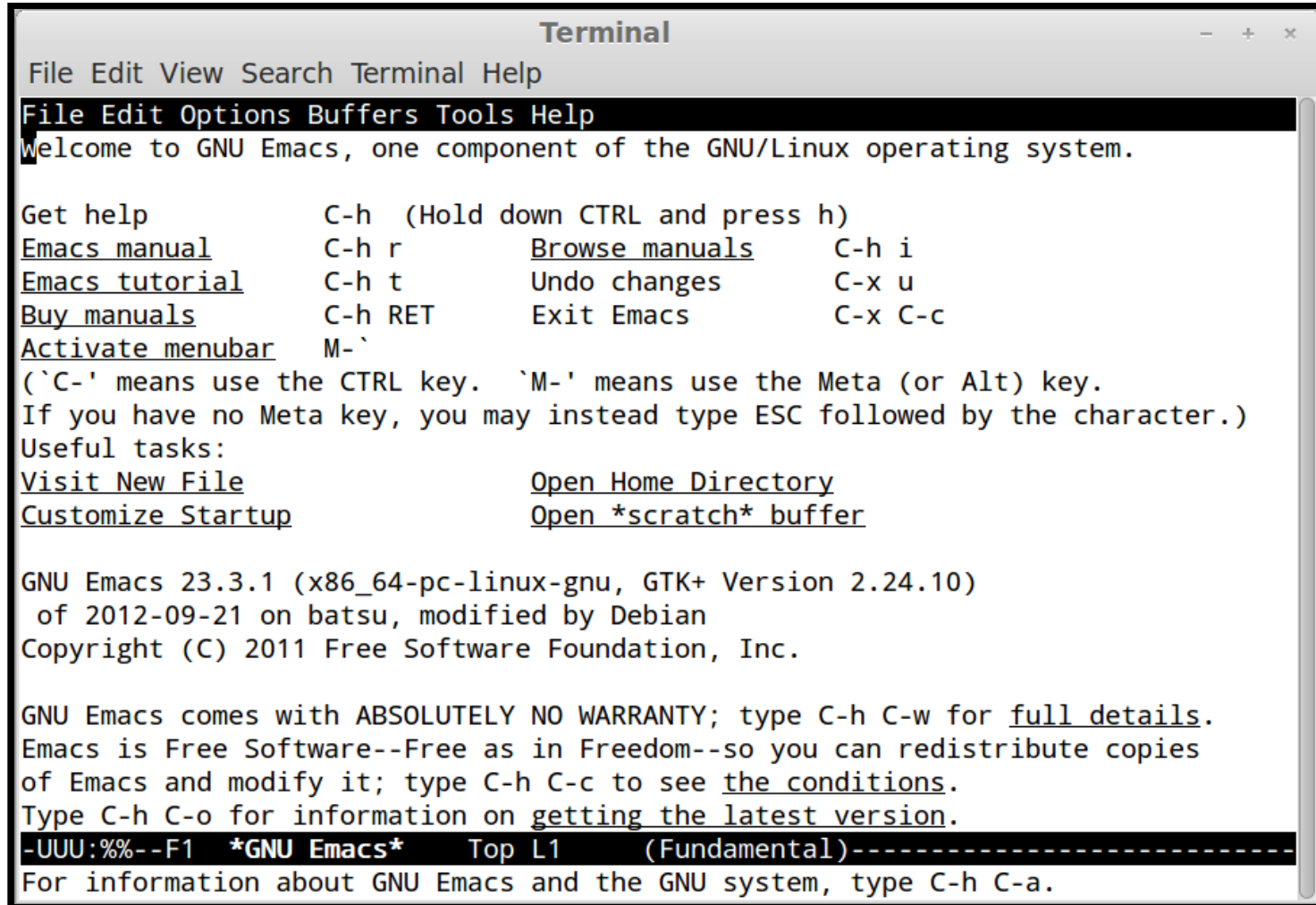
emacs is a far more ambitious program than vi.

emacs is derived from teco, an even more cryptic editor than ed; the history of emacs is far more detailed than that of ed.



emacs in action

emacs has a distinctive look:



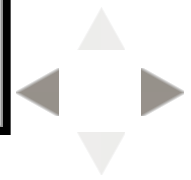
```
Terminal
File Edit View Search Terminal Help
File Edit Options Buffers Tools Help
Welcome to GNU Emacs, one component of the GNU/Linux operating system.

Get help          C-h (Hold down CTRL and press h)
Emacs manual      C-h r          Browse manuals    C-h i
Emacs tutorial    C-h t          Undo changes      C-x u
Buy manuals       C-h RET       Exit Emacs        C-x C-c
Activate menubar  M-`

(`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        Open *scratch* buffer

GNU Emacs 23.3.1 (x86_64-pc-linux-gnu, GTK+ Version 2.24.10)
of 2012-09-21 on batsu, modified by Debian
Copyright (C) 2011 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.
Type C-h C-o for information on getting the latest version.
-UUU:%%--F1 *GNU Emacs* Top L1 (Fundamental)-----
For information about GNU Emacs and the GNU system, type C-h C-a.
```



emacs summary

A summary of emacs commands is here.



emacs and ispell

Unlike vi, it is very easy and convenient to run ispell interactively within emacs.



Editing, files, and exiting

vi

Keystroke(s)	Meaning
ZZ	Save and quit
Q	Quit vi and go into ex (bad idea!)
:w	Write file
:w!	Force write, even if "protected"
:w somefile	Write to a new file somefile
:q	Quit
:q!	Quit, losing all changes
:e somefile	Start editing a new file called somefile
:e!	Start editing over, forgetting all changes since last save
:n	Go to the next file (such as one named on the command line)

Movement

Keystroke(s)	Meaning
h, j, k, l	The big four: left, down, up, right (←, ↓, ↑, →)
w, W, b, B	Forward one word, back one word
e, E	end of current word
(,)	Beginning of previous sentence; end of next sentence (doesn't always work correctly!)
{, }	Beginning of previous paragraph; end of next paragraph
0, ^	First position, first character

\$	End of line
+, -	First character of next or previous line
H, M, L	Top line of screen, middle line, last line
^F, ^B	Forward one screen, back one screen
^D, ^U	Down half a screen, up half a screen
z RET	Position current line at top of screen
/something	Search forward for <i>something</i>
?something	Reverse search for <i>something</i>
/ RET	Repeat last search forward
? RET	Position current line in middle of screen
^G	Reports status line (including the current line's number)
^G	Reports status line (including the current line's number)
G n RET, :n RET	Go to absolute line <i>n</i>
G	Go to last line
mX	Mark current as <i>x</i>
'x	Go to mark <i>x</i>

Editing

Keystroke(s)	Meaning
i	Insert text
a	Append text (very useful at the end of line!)
o, O	"Open" a new line immediately below current, "open" a new line immediately above current
r	Change one character
cw	Change a word from the current point

cc	Reinitialize the current line
C	Change from current point to end of line
R	Overwrite mode
x	Delete the current character
dw	Delete word
dd	Delete current line
D	Delete from current character to end of line
p	Put back at current
P	Put back at previous (much more useful!)
"np	Go back in delete history <i>n</i> items for P
yw	Copy word (use p,P to retrieve)
yy	Copy line (use p,P to retrieve)
"ayy	Copy line into buffer <i>a</i>
"aP	Paste line from buffer <i>a</i>
:%s/ <i>something</i> / <i>otherthing</i> /g	Replace <i>something</i> with <i>otherthing</i> throughout the current file
u, U	Undo; restore line (very useful!)

Note: in `emacs` terminology, "META" may refer to either "ESC" (which I tend to use), or some combination of ALT/CTRL/??? keys — if you do most of your typing on one keyboard, it may be worth figuring out which combination works for "META".

Editing, files, and exiting emacs

Default Keystroke(s)	Meaning
<code>^X^C</code>	Save and quit
<code>^X^S</code> , <code>^Xs</code>	Write file, write all files
<code>^X^W somefile</code>	Write to a new file <code>somefile</code>
<code>^X^F somefile</code> , <code>^X^V</code>	Start editing a new file called <code>somefile</code>
<code>ESC X revert-buffer</code>	Start editing over, forgetting all changes since last save

Manipulating emacs windows

Default Keystroke(s)	Meaning
<code>^X2</code> , <code>^X3</code>	Split windows
<code>^Xo</code>	Switch windows
<code>^X^</code>	Make a window larger vertically
<code>^Xb</code>	Switch the current window's buffer

Movement

Default Keystroke(s)	Meaning
^F, ^B, ^N, ^P	The big four: left, down, up, right (←, ↓, ↑, →)
ESC F, ESC B	Forward one word, back one word
^A, ^E	Beginning of current line, end of current line
^V, ESC V	Forward one screen, back one screen
^S <i>something</i>	Incremental search forward for <i>something</i>
ESC x <i>isearch-forward-regexp</i> <i>regexp</i>	Incrementally search forward for <i>regexp</i> (very powerful!)
^R <i>something</i>	Incrementally reverse search for <i>something</i>
ESC >	Go to last line
ESC <	Go to first line
^SPACE	Set mark (start creating a region)
^X^X	Go to mark

Macros

Default Keystroke(s)	Meaning
^X(Start learning a macro
^X)	End learning a macro
^Xe	Execute a macro

Editing

Default Keystroke(s)	Meaning
^K	"Kill" from this point up to the end of line (saved in "kill" ring)
^O	"Open" a new line immediately below current, "open" a new line immediately above current
^T	"Transpose" the current character and the next one
^W	Cut the current region (saved in "kill" ring)
ESC W	Copy the current region (saved in "kill" ring)
^Y	Paste from latest item in "kill" ring
ESC x query-replace <i>something</i> RET <i>otherthing</i>	Replace <i>something</i> with <i>otherthing</i>
ESC x query-replace-regexp <i>regexp</i> RET <i>otherthing</i>	Replace <i>regexp</i> with <i>otherthing</i> (powerful!)
^Y	Paste from latest item in "kill" ring
ESC x undo	Undo