	GNU Emacs	C-d	Delete character at cursor.			
	Quick Reference Guide	M-d	Delete word at and after cursor and add to			
for CS61B		ii u	kill buffer.			
		C-k	Delete to end of line and add to kill buffer.			
Pulleta (a)	mayle a suggested starting set of commands	M-W	Delete current region, and add to kill			
* *	mark a suggested starting set of commands.	1·1 W	buffer.†•			
	denote key bindings that are not standard in	M _\	•			
	s. ARG denotes the prefix numeric argument	M-∖ M-SPC	Delete surrounding blanks and tabs.			
(entered wit	h C-u or M-digit).		Delete all but one surrounding blank.			
		C-x C-o C-M-w	Delete all but one surrounding blank line.			
Cursor	motion.	C-M-W	Cause next command, if a kill, to append to previous kill buffer, instead of new one.			
Carsor			previous kin buner, instead of new one.			
C-f	Forward character. ●	С-у	Insert text from kill buffer at point. ●			
M-f	Forward word.	С-и С-у	Insert text from kill buffer at point without			
С-е	Forward to end of line. ●	очоу	moving point.			
C-b	Backward character. ●	М-у	Replace preceding C-y text with next most			
M-b	Backward word.	11 <i>y</i>	recent kill buffer.			
C-a	Backward to start of line. ●	M-w	Copy region to kill buffer, no deletion.			
M-e	Forward sentence.	11 W	copy region to kin buner, no detection.			
M-[Forward paragraph.					
M-a	Backward sentence.		Indentation			
M-]	Backward paragraph.					
		TAB	Indent according to mode. \bullet			
C-n	Next line. •	LF	Same as RET TAB.			
C-p	Previous line. •	M-;	Indent and start comment.			
M-<	Beginning of buffer.	M-LF	Continue comment on next line.			
M->	End of buffer.	C-x TAB	Indent region rigidly by ARG .			
C-v	Scroll text up one screen (or ARG lines).•	C-M-\	Indent region according to mode.			
M-v	Scroll text down (or ARG lines).					
M-g Go to line number $ARG.\dagger$		Coonah				
M-x what-li	ine Display line number.	Search				
C-M-v	Scroll other window up one screen (or ARG	C-s	Search forward. •			
	lines).	C-s C-s C-s	Same as C-s with last string.			
		C-s C-s C-r	Search backward.			
Markin	g regions of text	C-r C-r	Same as C-r with last string.			
	-88	C-u C-s	Search forward for regular expression.			
C-@	Set mark at point. •		Display lines matching a regular expression.			
C-x C-x	Exchange mark and point.	M-x grep	Display results of UNIX grep utility.			
C-SPC	Same as C-Q.	M-x count-				
M-@	Set mark after end of next word.	II A COUNT !	maderies			
M-h	Set mark and point around current	The following	ng subcommands are valid during a search.			
	paragraph.					
C-x h	Set mark and point around current buffer.	RET	End search.			
		DEL C-~	Undo effect of last search character typed. About search			
D.1.4		C-g	Abort search. Search for pout motely forward.			
Deletio	n and yanking	C-s	Search for next match forward. Search for next match backward. ■			
D. 17		C-r	Quote next character.			
DEL	Delete character before cursor.	C-q C-w	Extend search string with next word.			
M-DEL	Delete word before cursor and add to kill	C-w	Extend search string with rest of line			

LFD

buffer. \bullet

Extend search string with rest of line.

Replacement

M-Q Query replace regular expression.†

M-x delete-matching-lines
M-x delete-non-matching-lines

During a query-replacement, the following are valid responses to prompts.

SPC	Make replacement and go to next. •
DEL	Skip replacement and go to next.

RET End replacement.●

! Replace all remaining instances without

asking. \bullet

C-r Enter recursive edit; return with C-M-c.

Regular expressions

è	Match any character.●
^	Match at start of line. ●
\$	Match at end of line.
[]	Match any character in the '…'.●
[^]	Match any character except those in '…'.●
*	Match 0 or more of pattern to left.
+	Match 1 or more of pattern to left.
?	Match 0 or 1 of pattern to left.
$\setminus c$	Quotes c , except for the following.
\b	Match at beginning or end of word.
\B	Match except at beginning or end of word.
\	Match either pattern to left or right.
\(\)	Grouping.
$\setminus n$	Match copy of whatever matched n^{th} group.

Miscellaneous editing

C-o	Insert newline after cursor.
C-t	Transpose characters.
M-t	Transpose words.
C-x C-t	Transpose lines.
M-u	Convert whole word to upper case.
M-1	Convert whole word to lower case.
M-c	Capitalize word.

Files

C-x	C-f	Find file; load if needed.
C-x	4 C-f	Find file in other window.●
C-x	C-s	Save file. •
C-x	C-w	Write to explicitly-named file.
C-x	i	Insert file at cursor.
M-x	recover	-file Recover file after disaster from auto-
		save file.
M-x	revert-	buffer Throw away changes to buffer and re-

Buffers and windows

store from file.

C-x	0	Put cursor in other window.
C-x	1	Grow current window to full screen.
C-x	2	Split current window vertically.●
C-x	b	Put named buffer in window.
C-x	0	Remove current window.
C-x	3	Split current window horizontally.
C-x	C-b	List all buffers.
C-x	k	Delete buffer.

Shells				
M-x shell M-	Run UNIX shell in a buffer. $ullet$ Execute single shell command on region. With ARG , replaces region.			
Commands active in shell buffers:				
RET	Send current line to shell.			
TAB	Complete preceding file name.			
C-c C-c	Send interrupt to shell. ●			
C-c C-u	Erase current input line. ●			
C-c C-z	Send stop signal to shell.			
C-c C-d	Send EOF to shell.			

Compilation, debugging, and tags

I	M-x	compile	Execute	command	i (by	default,	$\mathtt{make})$
			asynchronou	ısly.∙			
(C-x	(Position to	next error	or nex	t line fou	nd by
			M-x grep co	$_{ m mmand.}ullet$			
I	M-x kill-compiler Stop active compile.						
I	M-x	visit-ta	ags-table	Specify fil	e cont	aining tag	gs pro-
duced by etags.•							

Display source for given tag.•

C-u M-. Find next alternate definition for last tag.

C-x 4 . Display source for tag in other window.

M-x tags-search

M-x tags-query-replace Look for pattern in all files

named in tags table.

M-x tags-apropos Display matching tags.

M-x gdb Run GNU debugger on file. Run Java debugger on class. M-x gjdb

Commands valid in gdb and gjdb modes.

C-c C-s Step.●

C-c C-n Next.•

C-c < Up stack.●

Down stack. C-c >

 $Finish. \bullet$ C-c C-r

C-x SPC In any source file, sets a break point.

C-c C-i Stepi (gdb only).

Help and documentation

M-x manual-entry UNIX man page for given topic.

C-h a Look up names of matching commands.

C-h b Display key bindings.

C-h f Help for M-x function. ●

C-h C-h Help for C-h.●

C-h i Run info browser.

C-h k Help for key.●

C-h m Help for current mode.

C-h t Tutorial.

C-h w Key containing function.

Inside an *info* buffer (result of C-h i), the following are defined.

Select menu item.

Go to last-visited node. 1

? Get help for browser.

Go to node's parent. u

Go to next node in sequence. n

Leave browser. q

Go to top of node.

d Go to top-level node.

Mouse commands

Left, middle, and right buttons are LB, MB, and RB.

Put cursor at mouse. Dragging marks region. MB

Paste text from window-system cut buffer at

RB Extend region to pointer and copy into cut

and kill buffers. Clicking twice deletes region.

Select a buffer. C-LB