	Information Technology		FILES			MOTION	
	Rice University	C-x C-f	read a file into Emacs				
	July 11, 2002	C-x C-s	save a file back to disk	Cursor Mot	ion:		
	•	C-x i	insert contents of another file into this buffer				
	Document No. UNIX 5.01 GNU Emacs Reference Card	C-x C-v C-x C-w	replace this file with the file you really want write buffer to a specified file	backward	forward	entity to move over	
	Give Emacs Reference Card	C-x C-w C-x d	run Dired, the directory editor	C-b	C-f	character	
		C-x u	run Dired, the directory editor				
-	ENTEDING AND EVITING CNULE		DDINITING	M-b	M-f	word	
1	ENTERING AND EXITING GNU Emacs		PRINTING	C-p	C-n	line	
CNULE				C-a	C-e	go to beginning (or end) of sentence	
GNU Emacs	start GNU Emacs	· ·	at an entire file (buffer), or you can print a particular region	M-[	M-]	paragraph	
~		defined by n	nark and point.	C-x [	C-x]	page	
C-z	temporarily suspend GNU			M-C-b	M-C-f	sexp (for programming languages)	
	Emacs	lpr region		M-C-a	M-C-e	function	
a a		lpr buffer		M-<	M->	go to buffer beginning (or end)	
C-x C-c quit GNU Emacs			GETTING HELP		KILLING AND DELETING		
	KEYS AND THE KEYBOARD						
There are a nur	nber of special keys that are used with GNU Emacs.		stem is simple. Type C-h and follow the directions. If you ne user, type C-h t for a tutorial (This card assumes you	backward	forward	entity to kill	
	ds require a combination of strokes. These are the basic	know the tut		DEL	C-d	character (delete, not kill)	
key strikes that		kilow life tu	iona).	M-DEL	M-d	word	
key strikes that	are required.	C-x 1	get rid of Help (or any other) window	M-0 C-k	C-k	line (to end of)	
CTRL or C-x	Simultaneously press CONTROL and x. This is used	a.bd ESC C-		C-x DEL	С-к M-k	sentence	
CIKL OI C-X	to begin many different commands.	C-h a	apropos: show commands matching a string	MM-C-k	M-C-k		
	to begin many unrerent commands.	C-li a C-h a		ММ-С-К	IVI-C-K	sexp	
META or M-	Special Emerge tray used to begin many commands	C-n a C-h f	show the function a key runs describe a function	C-w	Irill marian		
META OF M-	Special Emacs key used to begin many commands.				kill region		
	This key is pressed. and then released before typing	C-h m	get current mode-specific information	M-z char		t occurrence of char	
	the next character. On most systems, this is the ESC			C-y		last thing killed	
	key, but it can be changed.		ERROR RECOVERY	M-y	replace las	t yank with previous kill	
M-x	Press META and then hit x	C-g	abort partially typed or executing command			MARKING	
		M-x recover					
C-u <i>n</i>	The prefix used to designate the number of times you	C-x or C	undo an unwanted change				
	want the command executed (over one), where $n$ is the		puffer restores a buffer to its original contents			e point. The mark remains there until you reset	
	number of times. This is known as the argument of a	C-1	redraw screen with cursor line in the center	it, but GNU	Emacs cann	ot show you where it is.	
	command. The argument comes before the command.		of buffer				
				C-@ or C-S		t mark here	
Mn command	This sequence is also used to repeat a command, by		INCREMENTAL SEARCH	C-x C-x		change point and mark	
	typing META and then <i>n</i> , where <i>n</i> is the number of			M-@		t mark arg words away	
	times you want the command that follows to be exe-		earch forward	M-h		ark paragraph	
	cuted.	C-r s	earch backward	C-x C-p	m	ark page	
		M-C-s r	egular expression match	M-C-@	m	ark sexp	
A buffer is som	newhat analogous to a file, but it refers more specifically			M-C-h	m	ark function	
to a particular editing session. Using GNU Emacs, you can open many		Use C-s or C	C-r again to repeat the searching either direction	C-x h	m	ark entire buffer	
buffers because	e they are separated from the files from which they came.	FRG				DUFFER	
			xit incremental search			BUFFERS	
	TRANSPOSING		indo effect of last character		1	1 1 66	
C .		C-g a	bort current search (also the general abort command)	C-x b	select anot		
C-t ti	ranspose character			C-x C-b	list all buff		
	ranspose words	If GNU Ema	acs is still searching, C-g will cancel the part of the search	C-x k	kill a buffe	er	
	1						
M-x C-t t	ranspose lines ranspose sexp	not done, ot	herwise it aborts the entire search.				

# QUERY REPLACE

You should use this instead of REPLACE when you want to replace some occurrences of an expression but not all of them.

# M-x query replace word newword

M-% string newstring	interactively replace a lost string
M-x query-replace-regexp	using regular expressions

Valid responses in query-replace mode are

replace this one, go on to next and pause
replace this one, don't move
skip to next without replacing
replace all remaining matches
back up to the previous match
exit query-replace
enter recursive edit (C-M-c) to exit

## KEYBOARD MACROS

You can customize keyboard macros within a file to abbreviate a sequence of keys or commands that you use frequently. This is how you define them.

C-x (	start defining keyboard macro		
C-x )	end keyboard macro definition		
C-x e	execute last-defined keyboard macro		
C-u C-x (	( append to last keyboard macro		
M-x name	e-last-kbd-macro	name last keyboard macro	
M-x inser	t-kbd-macro	insert lisp definition buffer	
M-x name	е	to invoke a defined keyboard macro	
		-	

### THE MINIBUFFER

This is the bottom line in your GNU Emacs window. It echoes all commands.

The following keys are defined in the minibuffer.

TAB complete as much as possible SPACE complete up to one word RETURN complete and execute ? show possible completions C-g abort command

Type C-x ESC to edit and repeat the last command that used the minibuffer. The following keys are then defined.

M-p previous minibuffer command

M-n next minibuffer command

## MULTIPLE WINDOWS

C-x 1	delete all oth	er windows	
C-x 0	delete this window		
C-x 2	split window in two horizontally		
C-x 5			
C-x 5	spint window	v in two vertically	
M-C-v	scroll other y	window	
C-x o		to another window	
C-X 0	with cursor t		
M-x shrink v	vindow shorte	r	
C-x ^	grow window	w taller	
C-x {	shrink windo		
C-x	grow window		
C-X }	grow window	w widei	
C-x 4 b	select a buffe	er in other window	
C-x 4 f	find file in of	ther window	
C-x 4 m			
		il in other window	
C-x 4 d		other window	
C-x 4.	find tag in ot	her window	
	FORMATTING		
TAB	indant auroo	r lina (mada danandant)	
		r line (mode-dependent)	
M-C-∖	-	n (mode-dependent)	
M-C-q	-	(mode-dependent)	
C-x TAB	indent regior	n rigidly arg columns	
C-o	insert new li	ne after point	
M-C-o		line vertically down	
		•	
C-x C-o	delete blank	lines around point	
M-\	delete all wh	itespace around point	
M-SPC		one space at point	
in bi c	put chuchy o	space at point	
M-q	fill paragrapl	h	
M-g	fill-region		
C-x f	set fill colum	n	
C-x.		ch line starts with	
		SHELLS	
M-!		find tag	
C-u M tag		find next occurrence of tag	
M-x visit-tags-table		specify a new tags file	
191 A 1151 UE	,	speens a new tage me	
M-x tags-sea	urch	reg exp search on all files in tags table	
M-x tags-query-replace		query replace on all the files	
M-,	· 1	continue last tags search or query-replace	
,		TAGS	
M tag	find tag		

C-u M-. tag

find next

#### CASE CHANGE

last word	next word	case
last word	liext word	case
M M-u	M-u	uppercase
M M-l	M-1	lowercase
М М-с	M-c	capitalize
C-x C-u	uppercase regio	n
C-x C-l	lowercase region	n
M-x	capitalize region	1
	SPELLIN	G CHECK
M-\$ ch	neck spelling of curren	t word
M-x spell-reg	gion check spellin	g of all words in region
M-x spell-bu	ffer check spellin	g of entire buffer

If the word is incorrect, GNU Emacs will ask you to edit it, and will then do a query replace (so you must use the query replace commands to actually fix your mistakes).

## REGULAR EXPRESSIONS

The following have special meaning inside a regular expression.

. (dot)	any single character
*	zero or more repeats
+	one or more repeats
?	zero or one repeat
[]	any character in set
[^]	any character not in set
^	beginning of line
\$	end of line
\	quote a special character c
V	alternative or
\(\)	grouping
\n	nth group
\	beginning of buffer
\'	end of buffer
\b	word break
$\mathbf{B}$	not beginning or end of word
/<	beginning of word
>	end of word
$\mathbf{w}$	any word-syntax character
$\setminus W$	any non-word-syntax character
\s c	character with syntax c
\S c	character with syntax not c