## **Emacs support for Make Files**

Description	Keystroke	Function	Note	
Make	This table describes Emacs su	pport for editing make files.		
support				
Select Make dialect mode	Emacs supports several dialects of <a href="make">make</a> . It automatically selects the dialect when a file is visited using the mode and file specification association identified in the <a href="make-auto-mode-alist">automatically selects the dialect when a file is visited using the mode and file specification association identified in the <a href="make-auto-mode-alist">automatically selects the dialect when a file is visited using the mode and file specification association association identified in the </a></a>			

Description	Keystroke	Function	<u>Note</u>		
Indent expression	C-M-q	(prog-indent-sexp &optional DEFUN)	Indent the expression after point.  • When interactively called with prefix, indent the enclosing defun instead.  • This command does not work well in makefiles.		
Comment control	Although the make file modes provide the comment-region command, it's best to use comment-dwim as it works much better.				
Comment/un- comment  See also:∑ Comments	M-;	(comment-dwim ARG)	Comment or un-comment line or region.  When no marked region and no comment:  On empty line: insert comment starter at the proper indentation level. Typed again: move it toward end of line.  On line with code: insert comment starter after the code for an end-of-line comment  With marked un-commented region:  Comment region (each line is commented)  With marked commented region:  removes the comment.  Call the comment command you want (Do What I Mean).  If the region is active and 'transient-mark-mode' is on, call 'comment-region' (unless it only consists of comments, in which case it calls 'uncomment-region'). Else, if the current line is empty, call 'comment-insert-comment-function' if it is defined, otherwise insert a comment and indent it. Else if a prefix ARG is specified, call 'comment-kill'.		
	C-c C-c	(comment-region BEG END &optional ARG)	Comment or uncomment each line in the region.  • With just C-u prefix arg, uncomment each line in region BEG END.  • Numeric prefix ARG means use ARG comment characters.  • If ARG is negative, delete that many comment characters instead.  • The strings used as comment starts are built from 'comment-start' and 'comment-padding'; the strings used as comment ends are built from 'comment-end' and 'comment-padding'.  • By default, the 'comment-start' markers are inserted at the current indentation of the region, and comments are terminated on each line (even for syntaxes in which newline does not end the comment and blank lines do not get comments). This can be changed with 'comment-style'.		
Analyze	The following commands analyze the content of the make file or the file system.				
Scan current directory files, checking for targets	C-c C-f	(makefile-pickup-filenames-as-targets)	Scan the current directory for filenames to use as targets.  • Checks each filename against 'makefile-ignored-files-in-pickup-regex' and adds all qualifying names to the list of known targets.		
Scan current buffer for makefile content	C-c C-p	(makefile-pickup-everything ARG)	Notice names of all macros and targets in Makefile.  • Prefix arg means force pickups to be redone. Use this to refresh the list of macros and targets located in the makefile before executing another action on those.		
Update scan with latest makefile buffer content	С-с С-и	(makefile-create-up-to-date-overview)	Create a buffer containing an overview of the state of all known targets.  Known targets are targets that are explicitly defined in that makefile; in other words, all targets that appear on the left hand side of a dependency in the makefile.		
List macros and targets in dedicated buffer	С-с С-ь	(makefile-switch-to-browser)	Open a *Macros and Target* buffer that only lists them.  It operates in Fundamental mode and aside listing the macros and targets provides nothing more.		

## Emacs & Makefile - References

Document	Notes
Make tools	
GNU Make Manuals	List all GNU Make manual files.
Makepp home page	Makepp, also called make++ is a GNU Make replacement, written in Perl. It addresses the recursive make problem.
Make generic information	
Recursive Make Considered Harmful - Steve Miller	PDF paper (from the wayback machine archive) written by Steve Miller in 1997 describing the concept of recursive make technique showing why it causes several problems and what can be done to avoid them.