## Diff & Merge

<u>Operation</u>	Keystroke	Function	Note
Diff, Merge &			I-way merge operations. This nicely compares to what's available outside Emacs.
Patch Files within Emacs	<ul> <li>Emacs has two built-in packages that support comparing files: diff and ediff.</li> <li>ediff is more powerful than diff and more visual, using one buffer per file. ediff supports 3-way merge and supports diff of directory trees.</li> <li>For 3-way merge operations Emacs provides the built-in</li> <li>ediff</li> </ul>		
See also: <u><b>© Customize</b></u>	a cmorgo		
	The ztree external pa	ckage provides a tree-view directory diff.	EL activates it when <b>pel-use-ztree</b> is set to <b>t</b> .
Open this PDF file. See also: <u>∑ Help/Info</u>	<f11> d <f1> <f12> <f1></f1></f12></f1></f11>	(pel-help-pdf &optional OPEN-WEB-PAGE)	Open the <u>Notified Merge</u> local PDF. If the prefix argument (like <b>C-u</b> or <b>M</b> ) is used, then it opens the remote GitHub hosted raw PDF instead. If the <b>pel-flip-help-pdf-arg</b> user-option is set it's the other way around.
Customize PEL support for diff	<f11> d <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL support for diff: smerge, ztree • If OTHER-WINDOW is non-nil (use C-u), display in other window.
Customize Emacs for specify diff mode	<f12> <f3></f3></f12>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs support for currently active diff mode. For this & following: If OTHER-WINDOW non-nil (C-u), display in other window.
<ul> <li>Adjusted for the current diff mode</li> </ul>	<f11> d <f3></f3></f11>		Customize Emacs support for diff, ediff, emerge, smerge, ztree.
being used	<f11> d e <f3></f3></f11>		Customize Emacs ediff.
	<f11> d s <f3></f3></f11>		Customize Emacs smerge
<u>Diff</u>			This mode is used when the buffer holds a patch file created by various tools. liff-mode. See the commands provided by the diff-mode below.
Compare 2 files	<f11> d f</f11>	(diff OLD NEW &optional SWITCHES NO-ASYNC)	Find and display the differences between OLD and NEW files.  • Prompt for NEW, then OLD files.
Compare file with its backup	<f11> d k</f11>	(diff-backup FILE &optional SWITCHES)	Diff this file with its backup file or vice versa.  Uses the latest backup, if there are several numerical backups.  If this file is a backup, diff it with its original.  The backup file is the first file given to 'diff'.  With prefix arg, prompt for diff switches.
Compare buffer and associated file	<f11> d b</f11>	(diff-buffer-with-file &optional BUFFER)	View the differences between BUFFER and its associated file.
Compare current and other window	<f11> d w</f11>	(compare-windows IGNORE-WHITESPACE)	Compare text in current window with text in another window.
diff-mode commands	Use this for simple co. Split your frame in 2 wi Place point at the top co. Point will be moved to: Use the following comma	mparison between 2 windows just to see if they ndows, loaded with the buffer of the files you want feach buffer and issue the command. The first difference in both window. If there is no not in a buffer using the diff-mode major mode.	ant to compare.  difference point will be moved at the end of each window.  to manipulate the patch diff file and the diff hunks.
	-		menu-bar accessible via the <f10> key. See <u>Menus</u></f10>
diff-mode setup	<f12> <f4> ?</f4></f12>	(pel-ediff-show-status)	Display diff-mode status information.
Toggle Next-Error- Follow minor mode	C-c C-f	(next-error-follow-minor-mode &optional ARG)	Minor mode for compilation, occur and diff modes.  With a prefix argument ARG, enable mode if ARG is positive, and disable it otherwise. If called from Lisp, enable mode if ARG is omitted or nil.  When turned on, cursor motion in the compilation, grep, occur or diff buffer causes automatic display of the corresponding source code location.
Jump to source file  open source of current hunk in a new window	C-c C-c	(diff-goto-source &optional OTHER-FILE EVENT)	<ul> <li>Jump to the corresponding source line.</li> <li>'diff-jump-to-old-file' (or its opposite if the OTHER-FILE prefix arg is given) determines whether to jump to the old or the new file.</li> <li>If the prefix arg is bigger than 8 (for example with C-u C-u) then 'diff-jump-to-old file' is also set, for the next invocations.</li> </ul>
To next hunk	• M-n • C-M-i	(diff-hunk-next &optional COUNT)	Go to the next COUNT'th hunk.
To previous hunk	• M-p • <esc> <backtab></backtab></esc>	(diff-hunk-prev &optional COUNT)	Go to the previous COUNT'th hunk
To next file	• M-} • M-N • <f6> <down></down></f6>	(diff-file-next &optional COUNT)	Go to the next COUNT'th file.
To previous file	• M-{ • M-P • <f6> <up></up></f6>	(diff-file-prev &optional COUNT)	Go to the previous COUNT'th file
Show all files present in diff inside an <u>occur</u> buffer	<f6> o</f6>	(pel-diff-hunk-files-occur &optional NLINES)	Show hunk files of current path patch inside an occur buffer.  • Each line shown with NLINES before & after, or -NLINES before if NLINES < 0.  • NLINES defaults to 0, overriding list-matching-lines-default-context-lines.  • If a region is defined the search is restricted to the region. See occur search
Restrict view to current hunk or file See Narrowing	C-c C-n	(diff-restrict-view &optional ARG)	Restrict the view to the current hunk.  If the prefix ARG is given, restrict the view to the current file instead.  This is a buffer narrowing type of command.  Use C-x n w to widen the buffer back.
Apply current hunk to source file	C-c C-a	(diff-apply-hunk &optional REVERSE)	Apply current hunk (not all hunks for the file!) to the source file and go to the next.  • By default, the new source file is patched, but if the variable 'diff-jump-to-old-file is non-nil, then the old source file is patched instead (some commands, such as 'diff-goto-source' can change the value of this variable when given an appropriate prefix argument). With a prefix argument, REVERSE the hunk.
Apply diff with Ediff	C-c C-e	(diff-ediff-patch)	Call 'ediff-patch-file' on the current buffer:     Query for a file name, and then run Ediff by patching that file.     If optional PATCH-BUF is given, use the patch in that buffer & don't ask user.     If prefix argument ARG, then: if even argument, assume that the patch is in a buffer. If odd assume it is in a file.

Content content off   Content content definition   Content content defin	<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>
Convert curried all file of Co		C-c C-b	(diff-refine-hunk)	Highlight changes of hunk at point at a finer granularity.
Content collection of Collection of Collection of Collection Staff END   Collection of the office Collection Staff END   Collection of the office Collection Staff END   Collection S		C-c C-t	(diff-test-hunk &optional REVERSE)	
Spit hunk C=c C=s   diff-genitation   Spit hunk C=c C=s   diff-genitation   Spit hunk   Spit his counted pathway and spit perit or come the whole application from the age of the perit or pathway in Spit his counted pathway and post into the marks of the counted pathway and post into the marks of the counted pathway and post into the marks of the counted pathway and post into the marks of the counted pathway and post into the marks of the counted pathway and post into the marks of the counted pathway and post into the pathway and pos		C-c C-d	(diff-unified->context START END)	START and END are either taken from the region (if a prefix arg is given) or else
Compare 2 buffers   Compare 2 buffers   Compare 2 buffers   Compare 3 buffers   Compare 4 buffers   Comp		C-c C-r	(diff-reverse-direction START END)	START and END are either taken from the region (if a prefix arg is given) or else
Second   Compare   Compa	Split hunk	C-c C-s	(diff-split-hunk)	Split the current (unified diff) hunk at point into two hunks.
Compare 2   Display Earth Manual   CFS   W   Cpd - defit ilgonore-withstageane-in-hunks    Red did all hunces in buffer, ignoring withstageane differences.		C-c C-u		START and END are either taken from the region (when it is highlighted) or else cover the whole buffer.
Ediff   Seasions have several corrorands, shown in the Ediff Cucik Help hufe.	· ·	C-c C-w	(diff-ignore-whitespace-hunk)	Re-diff the current hunk, ignoring whitespace differences.
- Type ? to taggle Earl Duck Help from 1 line to multiple that shows all available commands.  For more in flood and command (peace and the provides that shows all available commands.  For more in flood and command (peace and the provides that "Yell's for continue yell peace the provides that "Yell's for continue yell peace that the provides that "Yell's for continue yell peace that the provides that "Yell's for continue yell peace that the yell peace that the yell peace that yell peace that yell peace that yell yell peace that yell yell yell yell yell yell yell yel	· ·	<f6> w</f6>	(pel-diff-ignore-whitespace-in-hunks)	Re-diff all hunks in buffer, ignoring whitespace differences.
Pet. portions of the content of the process and process between the windows. See the 4.11   commands in table.		Type ? to toggle Ed     For more info about a	iff Quick Help from 1 line to multiple that shows a command, place point on the command chara-	all available commands. cter and type <b>RET</b> : Emacs will open the <u>Ediff Quick Help Commands</u> Info buffer.
### Celliff Eaglist  ### Compare 2 Differ  ### Compare 3 Differ  ### Compare 4 Differ  ### Differ  #	See also: <u>Scrolling</u>			
** Select the current file and the other file without prompted.  ** Select the current file and the other file without prompted.  ** Select the current file and the other file without premised with interest file and the other file without premised.  ** With numeric argument file in the purpose.  ** Select the current file and the other file without previous in a numeric keypadd.  ** Select file assistons  ** Ediff seasions  **	Display Ediff Manual	<f11> d e ?</f11>	(ediff-documentation &optional NODE)	
active Editif seasions    * (adff-show-registry)   **   * (adff-sh		<f11> d 2</f11>	(pel-ediff-2files &optional N)	<ul> <li>Select the current file and the other file without prompting.</li> <li>With numeric argument if N is in [2,8] range, select other window identified by the direction corresponding to the cursor in a numeric keypad: <ul> <li>8 := 'up</li> <li>4 := 'left 5 := 'current 6 := 'right</li> </ul> </li> </ul>
Ediff flee spainest previous revision   Compare Staff previous revision   Prompts for revisions, default to current ordox   Prompts for revisions, default to current ropy and last commit.		<f11> d e R</f11>		Display registry of all active Ediff sessions.
Compare 2 buffers   Compare 2 buffers   Compare 2 buffers   Compare 3 buffers   Compare 3 buffers   Compare 3 buffers   Compare 4 buffers   Compare 5 buffers   Compare 6 buffers   Compare 7 buffers 4 buffer 8 buffers   Compare 6 buffers   Compa		<f11> d r</f11>		
Apptional STARTUP-HOOKS JOB-NAME    Compare 3 buffers		<f11> d e b f</f11>	(ediff-current-file)	Compare the buffer with its file on disk. This function can be used as a safe version of revert-buffer.
BUFFER-C & Coptional STARTUP-HOOKS   Prompts for buffer A, buffer B and buffer C.	Compare 2 buffers	<f11> d e b b</f11>		
Latest:   Late	Compare 3 buffers	<f11> d e b 3</f11>	BUFFER-C &optional STARTUP-HOOKS	· ·
HOOKS)    cediff-files FILE-A FILE-B soptional STARTUP-HOOKS)   cediff-files FILE-A FILE-B FILE-C & optional STARTUP-HOOKS)   cediff-files FILE-A FILE-B FILE-C & optional STARTUP-HOOKS)   cediff-files FILE-A FILE-B FILE-C & optional STARTUP-HOOKS]   cediff-files FILE-B FILE-C & optional STARTUP-HOOKS]   cediff-files FILE-A FILE-B FILE-C & optional STARTUP-HOOKS]   cediff-directory-revision Start FILE-B & optional STARTUP-HOOKS]   cediff-directory-revision Start FILE-B & optional STARTUP-HOOKS]   cediff-files FILE-A FILE-B & optional STARTUP-HOOKS]   cediff-files FILE-C & optional STARTUP-HOOKS]   cediff-files FILE-B & optional STARTUP-HOOKS]   cediff-files FILE	backup	<f11> d e f k</f11>	(ediff-backup FILE)	
STARTUP-HOOKS) (-ediff-relises FILE-A FILE-B FILE-C & optional STARTUP-HOOKS)  Compare revision of buffer with file revision  Compare versions of file and each of its revisions.  - PEL provide a shortcut function pel-ediff-revision mapped to <f11> d e d r - (ediff-revisions DIR1 REGEXP) - (ediff-directory-revisions DIR1 REGEXP) - (ediff-directory-revisions DIR1 REGEXP) - (ediff-windows-wordwise DUMB-MODE &amp; optional WIND-A WIND-B STARTUP-HOOKS)  Compare text in 2 windows word-by-word  - Sompare text in 2 windows word-by-word  - Sompare 2 regions word-by-word  - Sompare 2 regions word-by-word  - Sompare 2 regions word-by-word  - Side-by-Side Diff  During that mode:  - Side-by-Side Diff  - Current buffer  - Current buffer  - Current buffer  - Current buffer  - Compare  - Compare text visible in 2 windows word-by-word.  - Compare text visible in 2 windows word-by-word.  - Compare text visible in 2 windows word-by-word.  - Compare text visible in 2 windows line-by-line.  - Uses current and other (next) window.  - Prompts for the 2 buffers and regions.  - Prompts for the 2 buffers and regions.</f11>	Compare 2 files	<f11> d e f f</f11>	HOOKS) • (ediff-files FILE-A FILE-B &optional	<ul> <li>Prompts for file A and B.</li> <li>PEL provide a shortcut function pel-ediff-2files mapped to <f11> d 2 which</f11></li> </ul>
Prompts for the file name and each of its revisions.	Compare 3 files	<f11> d e f 3</f11>	STARTUP-HOOKS) • (ediff-files3 FILE-A FILE-B FILE-C	
• (ediff-directory-revisions DIR1 REGEXP)   • Ediff selects only the files that are under version control.   • Prompts for directory and regexp to identify files: if empty: selects all files.   • Compare text in 2 windows word-by-word   • Compare text in 2 windows word-by-word   • Compare text in 2 windows line-by-line   • Compare text in 2 windows line-by-line   • Compare text in 2 windows line-by-line   • Compare 2 regions word-by-word   • Compare 2 regions word-by-word   • Compare 2 regions line-by-line   • Frenylous file   • Frenyl	buffer with file	<f11> d e f r</f11>		Compare versions of the current buffer, if the buffer is visiting a file under VCS.  • Prompts for the file name and each of its revisions.  • PEL provide a shortcut function <b>pel-ediff-revision</b> mapped to <b><f11> d r</f11></b> .
Soptional WIND-A WIND-B STARTUP-HOKS    Compare text in 2 windows line-by-line windows line-by-line word	files in a given	<f11> d e d r</f11>	,	Ediff selects only the files that are under version control.
Lose current and other (next) window.	windows word-by-	<f11> d e w w</f11>	&optional WIND-A WIND-B STARTUP-	
BUFFER-B & Soptional STARTUP-HOOKS  Prompts for the 2 buffers and regions.		<f11> d e w l</f11>	&optional WIND-A WIND-B STARTUP-	
Side-by-Side Diff		<f11> d e r w</f11>		
Side-by-Side Diff    During that mode:   Since the package   Pelicologic Peli		<f11> d e r 1</f11>		
## Compare Directories    • { : Previous file   mapped to <f11>   to scroll both   with PEL.   • See   Windows   • See</f11>	Side-by-Side Diff	Using <b>diffview-mode</b>	package 🛂 PEL activates it when <b>pel-use-diffv</b>	riew-mode is set to t.
current region <f11> d M−         (diffview-region)       Show current diff region in a side-by-side view.         Compare Directories       The built-in Ediff can compare 2 or 3 directories.         The ztree external package provides a tree-view directory diff.       PEL activates it when pel-use-ztree is set to t.         Compare common       <f11> d e d d       • (edirs DIR1 DIR2 REGEXP)         Compare files common to two directories.</f11></f11>		• { : Previous file • 1 : Align windows • q : Quit	mapped to <f11>   to scroll both windows.  • See <u>∑ Scrolling</u></f11>	• See <u>V Windows</u>
Compare       The built-in Ediff can compare 2 or 3 directories.         Directories       The ztree external package provides a tree-view directory diff.       ☑ PEL activates it when pel-use-ztree is set to t.         Compare common <f11> d e d d       • (edirs DIR1 DIR2 REGEXP)       Compare files common to two directories.</f11>		<f11> d  </f11>	,	·
Directories	current region		,	Show current diff region in a side-by-side view.
(*************************************	Compare common files in 2 directories	<f11> d e d d</f11>	(edirs DIR1 DIR2 REGEXP)     (ediff-directories DIR1 DIR2 REGEXP)	Compare files common to two directories.  • Prompts for directory A & B and a regexp to identify files. If empty: select all files.
Compare common <f11> d e d 3 • (edirs3 DIR1 DIR2 DIR3 REGEXP) Compare files common to three directories.</f11>	Compare common	<f11> d e d 3</f11>	(edirs3 DIR1 DIR2 DIR3 REGEXP)     (ediff-directories3 DIR1 DIR2 DIR3	Compare files common to three directories.  • Prompts for directory A, B and C and a regexp to identify files: if empty: selects

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>
Compare 2 directories with ztree- diff	<f11> d z</f11>	(ztree-diff DIR1 DIR2)	Open an interactive buffer with the directory tree of the path given, and highlight of file differences between the directories. DIR1 := left directory. DIR2:=right directory Interactively: prompts for the 2 directories.  PEL activates it if pel-use-ztree is t.
Ztree Diff buffer keys:		e directory	c : copy current file/directory to the directory shown in the other side (prompts)
• Ediff 2 files ₩	• <tab> : switch bet • <ret> : Open/clos • x : Toggle ex • Use x a long tim during tha</ret></tab>	ween panels the directory   Ediff 2 files /open orphan file to band/collapse of all nodes of the subtree.  with care! On large directory trees it may take the. I have see Emacs hang when typing x again	<ul> <li>D: delete current file/directory (prompts)</li> <li>h: toggle display of identical files/directories.</li> <li>H: toggle display of filtered files.</li> <li>r: rescan/refresh current file/directory</li> <li>v: visit current file in view-mode. In view-mode the following keys are available (see Buffers for a complete list): <ul> <li>q: quit view-mode and return to Ztree Diff</li> </ul> </li> </ul>
	window size).		e: leave view-mode, edit/visit the file normally.
Ediff Merge	Use the following comma	nds to perform <u>3-way merges</u> within Emacs usi	ng the merge capability of the ediff built-in package.
Merge 2 files	<f11> d e m f</f11>	(ediff-merge FILE-A FILE-B &optional STARTUP-HOOKS MERGE-BUFFER-FILE)     (ediff-merge-files FILE-A FILE-B &optional STARTUP-HOOKS MERGE-BUFFER-FILE)	Merge two files without ancestor.  Prompt for FILE-A and FILE-B, the names of the files to be merged.  The result is stored into an *ediff-merge* buffer, not a file.  Save it into a file with C-x C-s. See screenshot example in PEL manual.
Merge 2 files with ancestor	<f11> d e m F</f11>	(ediff-merge-with-ancestor FILE-A FILE-B FILE-ANCESTOR &optional STARTUP-HOOKS MERGE-BUFFER-FILE)     (ediff-merge-files-with-ancestor FILE-A FILE-B FILE-ANCESTOR &optional STARTUP-HOOKS MERGE-BUFFER-FILE)	Merge two files with ancestor.  Prompt for FILE-A and FILE-B, the names of the files to be merged, and FILE-ANCESTOR, the name of the ancestor file.  The result is stored into an *ediff-merge* buffer, not a file.  Save it into a file with C-x C-s. See screenshot example in PEL manual.
Merge 2 buffers	<f11> d e m b</f11>	(ediff-merge-buffers BUFFER-A BUFFER-B &optional STARTUP-HOOKS JOB-NAME MERGE-BUFFER-FILE)	Merge buffers without ancestor.  • Prompt for BUFFER-A and BUFFER-B, the buffers to be merged.
Merge 2 buffers with ancestor	<f11> d e m B</f11>	(ediff-merge-buffers-with-ancestor BUFFER-A BUFFER-B BUFFER-ANCESTOR &optional STARTUP-HOOKS JOB-NAME MERGE- BUFFER-FILE)	Merge buffers with ancestor.  • Prompts for BUFFER-A and BUFFER-B, the buffers to be merged, and BUFFER-ANCESTOR, their ancestor.
Merge versions of files in a directory	<f11> d e m d</f11>	(edir-merge-revisions DIR1 REGEXP & optional MERGE-AUTOSTORE-DIR)     (ediff-merge-directory-revisions DIR1 REGEXP & optional MERGE-AUTOSTORE-DIR)	Merge versions of files in a given directory.  Ediff selects only the files that are under version control.  Prompts for directory and regexp to identify files: if empty: selects all files.
Merge versions of files in a directory using other versions as their ancestors	<f11> d e m D</f11>	(edir-merge-revisions-with-ancestor     DIR1 REGEXP & optional MERGE- AUTOSTORE-DIR)     (ediff-merge-directory-revisions-with-ancestor DIR1 REGEXP & optional     MERGE-AUTOSTORE-DIR)	Merge versions of files in a given directory using other versions as ancestors.  • Ediff selects only the files that are under version control.  • Prompts for directory and regexp to identify files: if empty: selects all files.
Merge file commons to 2 directories	<f11> d e m c</f11>	(edirs-merge DIR1 DIR2 REGEXP & optional MERGE-AUTOSTORE-DIR)     (ediff-merge-directories DIR1 DIR2 REGEXP & optional MERGE-AUTOSTORE-DIR)	Merge files common to two directories.  Run Ediff on a pair of directories, DIR1 and DIR2, merging files that have the same name in both.  The third argument, REGEXP, is nil or a regular expression; only file names that match the regexp are considered.  MERGE-AUTOSTORE-DIR is the directory in which to store merged files.
Merge file commons to 2 directories with ancestors	<f11> d e m C</f11>	(edirs-merge-with-ancestor DIR1 DIR2 ANCESTOR-DIR REGEXP &optional MERGE-AUTOSTORE-DIR)     (ediff-merge-directories-with-ancestor DIR1 DIR2 ANCESTOR-DIR REGEXP &optional MERGE-AUTOSTORE-DIR)	Merge files in directories DIR1 and DIR2 using files in ANCESTOR-DIR as ancestors.  Ediff merges files that have identical names in DIR1, DIR2.  If a pair of files in DIR1 and DIR2 doesn't have an ancestor in ANCESTOR-DIR, Ediff will merge without ancestor.  The fourth argument, REGEXP, is nil or a regular expression; only file names that match the regexp are considered.
Merge 2 versions of visited file	<f11> d e m r</f11>	(ediff-merge-revisions &optional FILE STARTUP-HOOKS MERGE-BUFFER-FILE)	Merge two versions of the file visited by the current buffer.
Merge 2 versions of visited file with ancestor	<f11> d e m R</f11>	(ediff-merge-revisions-with-ancestor &optional FILE STARTUP-HOOKS MERGE-BUFFER-FILE)	Merge two versions of the file visited by the current buffer with ancestor.
Specialized Ediff	Some packages provide s	specialization of Ediff-based comparisons.	
ParInfer EDiff Diff current code before/.after ParInfer modifications  \$\$\frac{2}{2}\$\$\$\$\$ - Emacs Lisp\$	• <f12> a D • <f11> SPC l a D</f11></f12>	(parinfer-diff)	Diff current code and the code after applying Indent Mode in Ediff. Use this to browse and apply the changes.  Requires the <u>parinfer</u> package. This is an obsolete package.  PEL activates this when the <u>pel-use-parinfer</u> user option is set to t.
Smerge	Use the built-in smerge package to edit files that contain 3-way merge conflict annotations placed by a 3-way merge operation that requires your input. Start the merge session by executing the smerge-start-session or have it start  If you want to automatically launch a smerge session on files that contain diff conflict annotations, set pel-use-smerge to auto.  Conflict annotation string is a string like "<<<<<" that starts at the beginning of a line.  When a merge session is active:  the merge menu is available. See Menus  with PEL, the <f6>s key acts as a prefix to the smerge commands.</f6>		
Start a smerge session	<f11> d s</f11>	(smerge-start-session)	Turn on 'smerge-mode' and move point to first conflict marker.  If no conflict maker is found, turn off 'smerge-mode'.
Move to next conflict	• C-c ^ n • <f6> s n</f6>	(smerge-next &optional COUNT)	Go to the next COUNT'th conflict.
Move to previous conflict	• C-c ^ p • <f6> s p</f6>	(smerge-prev &optional COUNT)	Go to the previous COUNT'th conflict
Keep all	• C-c ^ a • <f6> s a</f6>	(smerge-keep-all)	Concatenate all versions.
Revert to base	• C-c ^ b • <f6> s b</f6>	(smerge-keep-base)	Revert to the base version.
Keep current	• C-c ^ RET • <f6> s RET</f6>	(smerge-keep-current)	Use the current (under the cursor) version.

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>
Keep lower	• C-c ^ 1 • <f6> s 1</f6>	(smerge-keep-lower)	Keep the "lower" version of a merge conflict.  In a conflict that looks like:  <<<<<<  UUU  =====  LLL  >>>>>>  this keeps "LLL".
Keep upper	• C-c ^ u • <f6> s u • C-c ^ m</f6>	(smerge-keep-upper)	Keep the "upper" version of a merge conflict.  In a conflict that looks like:  <<<<<<  UUU  ======  LLL  >>>>>> this keeps "UUU".
Auto-combine	<f6> s M-c</f6>	(smerge-auto-combine)	Automatically combine conflicts that are near each other.
Combine with next	• C-c ^ C • <f6> s C</f6>	(smerge-combine-with-next)	Combine the current conflict with the next one.
Diff base & lower	• C-c ^ = > • <f6> s &gt;</f6>	(smerge-diff-base-lower)	Diff 'base' and 'lower' version in current conflict region.
Diff base & upper	• C-c ^ = < • <f6> s &lt;</f6>	(smerge-diff-base-upper)	Diff 'base' and 'upper' version in current conflict region.
Diff upper & lower	• C-c ^ = = • <f6> s =</f6>	(smerge-diff-upper-lower)	Diff 'upper' and 'lower' version in current conflict region.
Invoke ediff	• C-c ^ E • <f6> s e</f6>	(smerge-ediff &optional NAME-UPPER NAME-LOWER NAME-BASE)	Invoke ediff to resolve the conflicts.  NAME-UPPER, NAME-LOWER, and NAME-BASE, if non-nil, are used for the buffer names.
Remove current	<f6> s M-k</f6>	(smerge-kill-current)	Remove the current (under the cursor) version.
Insert diff3 conflict markers	<f6> s M-C</f6>	(smerge-makeup-conflict PT1 PT2 PT3 &optional PT4)	Insert diff3 markers to make a new conflict.     Uses point and mark for two of the relevant positions and previous marks for the other ones.     By default, makes up a 2-way conflict, with a C-u prefix, makes up a 3-way conflict.
Refine highlight	• C-c ^ R • <f6> s R</f6>	(smerge-refine &optional PART)	Highlight the words of the conflict that are different.  For 3-way conflicts, highlights only two of the three parts.  A numeric argument PART can be used to specify which two parts;  repeating the command will highlight other two parts.
Resolve conflict at point	• C-c ^ r • <f6> s r</f6>	(smerge-resolve &optional SAFE)	Resolve the conflict at point intelligently.  This relies on mode-specific knowledge and thus only works in some major modes.  Uses 'smerge-resolve-function' to do the actual work.
Resolve all conflicts	<f6> s M-r</f6>	(smerge-resolve-all)	Perform automatic resolution on all conflicts.
Swap upper and lower	<f6> s M-s</f6>	(smerge-swap)	Swap the "Upper" and the "Lower" chunks.  Can be used before things like 'smerge-keep-all' or 'smerge-resolve' where the ordering can have some subtle influence on the result, such as preferring the spacing of the "Lower" chunk.
Patch files	<ul> <li>Emacs supports merging a patch into a local file or a buffer.</li> <li>Patch files can be created by Emacs using diff and other tools. Patch are normally using the unified diff format. See the above sections for commands that can create patch files.</li> <li>The Emacs manual section on Sending Patches on GNU Emacs provides the following useful bit of information:</li> <li>Use 'diff -u -F' '[-a-zA-Z0-9\$]\+ *('') when making diffs of C code. This shows the name of the function that each change occurs in.</li> <li>Use 'diff -u' to make your diffs. Diffs without context are hard to install reliably.</li> <li>The Emacs commands you can use to apply a patch to a file are described below.</li> </ul>		
Patch file(s) and compare	<f11> d e p f <f11> d p f</f11></f11>	(epatch & optional ARG PATCH-BUF)     (ediff-patch-file & optional ARG PATCH-BUF)  BUF)	Query for a file name, and then run Ediff by patching that file.  If optional PATCH-BUF is given, use the patch in that buffer and don't ask the user.  If prefix argument ARG, then: if even argument, assume that the patch is in a buffer. If odd assume it is in a file.  If a hunk cannot be applied, describe the problem inside the *ediff-message* buffer.  It also creates a reject file that describes the hunk that could not be applied. The file is stored inside the same directory as the target file, uses the same file name with '.rej' appended to the file name. This may happen if a hunk describes an addition that is already present inside the target file.
Patch a buffer then compare	<f11> d e p b <f11> d p b</f11></f11>	(epatch-buffer & optional ARG PATCH-BUF)     (ediff-patch-buffer & optional ARG PATCH-BUF)	Run Ediff by patching the buffer specified at prompt.  Without the optional prefix ARG, asks if the patch is in some buffer and prompts for the buffer or a file, depending on the answer.  With ARG=1, assumes the patch is in a file and prompts for the file.  With ARG=2, assumes the patch is in a buffer and prompts for the buffer.  PATCH-BUF is an optional argument, which specifies the buffer that contains the patch. If not given, the user is prompted according to the prefix argument.

## DIff & Merge — References

emacs vdiff github project	
Using Emacs as a merge program @ Mercurial Wiki	
GNU Emacs Ediff Manual	Describes built-in Ediff: file diff of 2 or 3 files, 3-way merge, diff with backup, directory level diffs, version control aware
<u>vdiff.el</u>	Github home of vdiff.el, a package that implements a diff tool similar to vimdiff.
Diff Patch	patch @ Wikipedia provides a good and concise introduction to the concept of diff and patch
Handling Patch Rejects	