








## Diff & Merge

Operation	Keystroke	Function	Note
<b>Diff &amp; Merge Files within Emacs</b>  See also: <a href="#">🔗 Customize</a>	Emacs has complete support to perform <a href="#">text file diff</a> , 2-way merge and <a href="#">3-way merge</a> operations. This nicely compares to <a href="#">what's available outside Emacs</a> . <ul style="list-style-type: none"> <li>Emacs has two built-in packages that support comparing files: <a href="#">diff</a> and <a href="#">ediff</a>.               <ul style="list-style-type: none"> <li><a href="#">ediff</a> is more powerful than diff and more visual, using one buffer per file. <a href="#">ediff</a> supports <a href="#">3-way merge</a> and supports diff of directory trees.</li> </ul> </li> <li>For <a href="#">3-way merge</a> operations Emacs provides the built-in               <ul style="list-style-type: none"> <li><a href="#">ediff</a></li> <li><a href="#">smerge</a>.                   <ul style="list-style-type: none"> <li>The <a href="#">smerge</a> system is quite useful: if activated by <a href="#">pel-use-smerge</a> set to auto, Emacs will automatically launch <a href="#">smerge</a> when it detects a (D)VCS merge markup inside a file, similar to what Git or Mercurial will do when they cannot automatically complete a merge operation themselves.</li> <li><a href="#">smerge</a> provides all the commands to perform the merge. If you prefer to use 3 buffers you can invoke <a href="#">ediff</a> directly from <a href="#">smerge</a>.</li> <li><a href="#">smerge</a> inherit from the older but still supported <a href="#">Emerge</a> built-in package.</li> <li>PEL does not provide key bindings for <a href="#">Emerge</a> as <a href="#">ediff</a> commands are easier to use and more powerful.</li> </ul> </li> </ul> </li> </ul> <p>PEL also provides support for the following extra external packages:</p> <p> The <a href="#">ztree external package</a> provides a tree-view directory diff.  PEL activates it when <a href="#">pel-use-ztree</a> is set to t.</p>		
<b>Open this PDF file.</b> See also: <a href="#">🔗 Help/Info</a>	<b>&lt;f11&gt; d &lt;f1&gt;</b>	<a href="#">(pel-help-pdf</a> &optional OPEN-WEB-PAGE)	Open the <a href="#">🔗 Diff &amp; Merge</a> 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 <a href="#">pel-flip-help-pdf-arg</a> user-option is set it's the other way around.
<b>Customize PEL support for diff</b>	<b>&lt;f11&gt; d &lt;f2&gt;</b>	<a href="#">(pel-customize-pel</a> &optional OTHER-WINDOW)	Customize PEL support for diff: <a href="#">smerge</a> , <a href="#">ztree</a> <ul style="list-style-type: none"> <li>If OTHER-WINDOW is non-nil (use <b>C-u</b>) , display in other window.</li> </ul>
<b>Customize Emacs support for diff &amp; ediff</b>	<b>&lt;f11&gt; d &lt;f3&gt;</b>	<a href="#">(pel-customize-library</a> &optional OTHER-WINDOW)	Customize Emacs support for diff, <a href="#">ediff</a> , <a href="#">emerge</a> , <a href="#">smerge</a> , <a href="#">ztree</a> . <ul style="list-style-type: none"> <li>If OTHER-WINDOW is non-nil (use <b>C-u</b>) , display in other window.</li> </ul>
<b>Customize Emacs support for ediff</b>	<b>&lt;f11&gt; d e &lt;f3&gt;</b>	<a href="#">(pel-customize-library</a> &optional OTHER-WINDOW)	Customize Emacs <a href="#">ediff</a> . <ul style="list-style-type: none"> <li>If OTHER-WINDOW is non-nil (use <b>C-u</b>) , display in other window.</li> </ul>
<b>Customize Emacs support for smerge</b>	<b>&lt;f11&gt; d s &lt;f3&gt;</b>	<a href="#">(pel-customize-library</a> &optional OTHER-WINDOW)	Customize Emacs <a href="#">smerge</a> <ul style="list-style-type: none"> <li>If OTHER-WINDOW is non-nil (use <b>C-u</b>) , display in other window.</li> </ul>
<a href="#">Diff</a>	The diff mode provides a set of commands to compare files and buffers using the simple <a href="#">diff-mode</a> .		
<b>Compare 2 files</b>	<b>&lt;f11&gt; d f</b>	<a href="#">(diff</a> OLD NEW &optional SWITCHES NO-ASYNC)	Find and display the differences between OLD and NEW files. <ul style="list-style-type: none"> <li>Prompt for NEW, then OLD files.</li> </ul>
<b>Compare file with its backup</b>	<b>&lt;f11&gt; d k</b>	<a href="#">(diff-backup</a> FILE &optional SWITCHES)	Diff this file with its backup file or vice versa. <ul style="list-style-type: none"> <li>Uses the latest backup, if there are several numerical backups.</li> <li>If this file is a backup, diff it with its original.</li> <li>The backup file is the first file given to 'diff'.</li> <li>With prefix arg, prompt for diff switches.</li> </ul>
<b>Compare buffer and associated file</b>	<b>&lt;f11&gt; d b</b>	<a href="#">(diff-buffer-with-file</a> &optional BUFFER)	View the differences between BUFFER and its associated file.
<b>Compare current and other window</b>	<b>&lt;f11&gt; d w</b>	<a href="#">(compare-windows</a> IGNORE-WHITESPACE)	Compare text in current window with text in another window. <ul style="list-style-type: none"> <li>The <a href="#">compare-windows-get-window-function</a> user option defines how to get another window. By default it is set to <a href="#">compare-windows-get-recent-window</a>.</li> <li>Compares the text starting at point in each window, moving over text in each one as far as they match.</li> <li>This command pushes the mark in each window at the prior location of point in that window.</li> <li>If both windows display the same buffer, the mark is pushed twice in that buffer: first in the other window, then in the selected window.</li> <li>👉 Use this for simple comparison between 2 windows just to see if they have the same content.</li> <li>Split your frame in 2 windows, loaded with the buffer of the files you want to compare.</li> <li>Place point at the top of each buffer and issue the command.</li> <li>Point will be moved to the first difference in both window. If there is no difference point will be moved at the end of each window.</li> </ul>
<b>Ediff</b>  See also: <a href="#">🔗 Scrolling</a>	<p><a href="#">Ediff sessions</a> have several commands, shown in the <a href="#">Ediff Quick Help</a> buffer.</p> <ul style="list-style-type: none"> <li>Type <b>?</b> to toggle <a href="#">Ediff Quick Help</a> from 1 line to multiple that shows all available commands.</li> <li>For more info about a command, place point on the command character and type <b>RET</b>: Emacs will open the <a href="#">Ediff Quick Help Commands</a> Info buffer.</li> </ul> <p>👉 While showing 2 or 3 buffer/files in windows <a href="#">Ediff</a> provides the <b>▼/▼</b> keys for scrolling up/down.</p> <p>PEL scroll sync commands can also be used to provide single line scroll synced between the windows. See the <a href="#">&lt;f11&gt;   commands in</a> table.</p>		
<b>Display Ediff Manual</b>	<b>&lt;f11&gt; d e ?</b>	<a href="#">(ediff-documentation</a> &optional NODE)	Display Ediff's manual. <ul style="list-style-type: none"> <li>With optional NODE, goes to that node.</li> </ul>
<b>Display registry of active Ediff sessions</b>	<b>&lt;f11&gt; d e R</b>	<ul style="list-style-type: none"> <li><a href="#">(eregistry)</a></li> <li><a href="#">(ediff-show-registry)</a></li> </ul>	Display registry of all active Ediff sessions.
<b>Ediff file against previous revision</b>	<b>&lt;f11&gt; d r</b>	<a href="#">(pel-ediff-revisions)</a>	Run <a href="#">ediff-revision</a> on the file in the current window. <ul style="list-style-type: none"> <li>Prompts for revisions, default to current copy and last commit.</li> </ul>
<b>Ediff 2 files</b>	<b>&lt;f11&gt; d 2</b>	<a href="#">(pel-ediff-2files</a> &optional N)	Run <a href="#">ediff-files</a> on the files of current and the other window. <ul style="list-style-type: none"> <li>Select the current file and the other file without prompting.</li> <li>If a numeric argument is specified, and if N is in [2,8] range, select the other window identified by the direction corresponding to the cursor in a numeric keypad:               <div> <div>8</div> <div>:= 'up</div> </div> <div> <div>4</div> <div>:= 'left</div> </div> <div> <div>5</div> <div>:= 'current</div> </div> <div> <div>6</div> <div>:= 'right</div> </div> <div> <div>2</div> <div>:= 'down</div> </div> </li> </ul>
<b>Compare buffer with its file on disk</b>	<b>&lt;f11&gt; d e b f</b>	<a href="#">(ediff-current-file)</a>	Compare the buffer with its file on disk. This function can be used as a safe version of <a href="#">revert-buffer</a> .
<b>Compare 2 buffers</b>	<b>&lt;f11&gt; d e b b</b>	<a href="#">(ediff-buffers</a> BUFFER-A BUFFER-B &optional STARTUP-HOOKS JOB-NAME)	Compare 2 buffers. <ul style="list-style-type: none"> <li>Prompts for buffer A and buffer B</li> </ul>
<b>Compare 3 buffers</b>	<b>&lt;f11&gt; d e b 3</b>	<a href="#">(ediff-buffers3</a> BUFFER-A BUFFER-B BUFFER-C &optional STARTUP-HOOKS JOB-NAME)	Compare 3 buffers. <ul style="list-style-type: none"> <li>Prompts for buffer A, buffer B and buffer C.</li> </ul>
<b>Compare file with its backup</b> <a href="#">🔗 Autosave/backup</a>	<b>&lt;f11&gt; d e f k</b>	<a href="#">(ediff-backup</a> FILE)	Compare a file with its backup. If there are several numerical backups, use the latest. <ul style="list-style-type: none"> <li>If the file is itself a backup, then compare it with its original.</li> </ul>
<b>Compare 2 files</b>	<b>&lt;f11&gt; d e f f</b>	<ul style="list-style-type: none"> <li><a href="#">(ediff</a> FILE-A FILE-B &amp;optional STARTUP-HOOKS)</li> <li><a href="#">(ediff-files</a> FILE-A FILE-B &amp;optional STARTUP-HOOKS)</li> </ul>	Compare 2 files. <ul style="list-style-type: none"> <li>Prompts for file A and B.</li> <li>PEL provide a shortcut function <a href="#">pel-ediff-2files</a> mapped to <b>&lt;f11&gt; d 2</b> which does not prompt. See above.</li> </ul>
<b>Compare 3 files</b>	<b>&lt;f11&gt; d e f 3</b>	<ul style="list-style-type: none"> <li><a href="#">(ediff3</a> FILE-A FILE-B FILE-C &amp;optional STARTUP-HOOKS)</li> <li><a href="#">(ediff-files3</a> FILE-A FILE-B FILE-C &amp;optional STARTUP-HOOKS)</li> </ul>	Compare 3 files. <ul style="list-style-type: none"> <li>Prompts for file A, B and C.</li> </ul>
<b>Compare revision of buffer with file revision</b>	<b>&lt;f11&gt; d e f r</b>	<a href="#">(ediff-revision</a> &optional FILE STARTUP-HOOKS)	Compare versions of the current buffer, if the buffer is visiting a file under version control. <ul style="list-style-type: none"> <li>Prompts for the file name and each of its revisions.</li> <li>PEL provide a shortcut function <a href="#">pel-ediff-revision</a> mapped to <b>&lt;f11&gt; d r</b>.</li> </ul>

Operation	Keystroke	Function	Note
Compare versions of files in a given directory	<f11> d e d r	<ul style="list-style-type: none"> <li>(edir-revisions DIR1 REGEXP)</li> <li>(ediff-directory-revisions DIR1 REGEXP)</li> </ul>	Compare versions of files in a given directory. <ul style="list-style-type: none"> <li>Ediff selects only the files that are under version control.</li> <li>Prompts for directory and regexp to identify files: if empty: selects all files.</li> </ul>
Compare text in 2 windows word-by-word	<f11> d e w w	(ediff-windows-wordwise DUMB-MODE &optional WIND-A WIND-B STARTUP-HOOKS)	Compare text visible in 2 windows word-by-word. <ul style="list-style-type: none"> <li>Uses current and other (next) window.</li> </ul>
Compare text in 2 windows line-by-line	<f11> d e w l	(ediff-windows-linewise DUMB-MODE &optional WIND-A WIND-B STARTUP-HOOKS)	Compare text visible in 2 windows line-by-line. <ul style="list-style-type: none"> <li>Uses current and other (next) window.</li> </ul>
Compare 2 regions word-by-word	<f11> d e r w	(ediff-regions-wordwise BUFFER-A BUFFER-B &optional STARTUP-HOOKS)	Compare text visible in 2 regions word-by-word. <ul style="list-style-type: none"> <li>Prompts for the 2 buffers and regions.</li> </ul>
Compare 2 regions line-by-line	<f11> d e r l	(ediff-regions-linewise BUFFER-A BUFFER-B &optional STARTUP-HOOKS)	Compare text visible in 2 regions line-by-line. <ul style="list-style-type: none"> <li>Prompts for the 2 buffers and regions.</li> </ul>
Patch file(s) and compare	<f11> d e p f	<ul style="list-style-type: none"> <li>(epatch &amp;optional ARG PATCH-BUF)</li> <li>(ediff-patch-file &amp;optional ARG PATCH-BUF)</li> </ul>	Query for a file name, and then run Ediff by patching that file. <ul style="list-style-type: none"> <li>If optional PATCH-BUF is given, use the patch in that buffer and don't ask the user.</li> <li>If prefix argument ARG, then: if even argument, assume that the patch is in a buffer. If odd -- assume it is in a file.</li> </ul>
Patch a buffer then compare	<f11> d e p b	<ul style="list-style-type: none"> <li>(epatch-buffer &amp;optional ARG PATCH-BUF)</li> <li>(ediff-patch-buffer &amp;optional ARG PATCH-BUF)</li> </ul>	Run Ediff by patching the buffer specified at prompt. <ul style="list-style-type: none"> <li>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.</li> <li>With ARG=1, assumes the patch is in a file and prompts for the file.</li> <li>With ARG=2, assumes the patch is in a buffer and prompts for the buffer.</li> <li>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.</li> </ul>
Compare Directories	The built-in Ediff can compare 2 or 3 directories.  The <a href="#">ztree external package</a> provides a tree-view directory diff.  PEL activates it when <a href="#">pel-use-ztree</a> is set to <a href="#">t</a> .		
Compare common files in 2 directories	<f11> d e d d	<ul style="list-style-type: none"> <li>(edirs DIR1 DIR2 REGEXP)</li> <li>(ediff-directories DIR1 DIR2 REGEXP)</li> </ul>	Compare files common to two directories. <ul style="list-style-type: none"> <li>Prompts for directory A and B and a regexp to identify files. If empty: select all files.</li> </ul>
Compare common files in 3 directories	<f11> d e d 3	<ul style="list-style-type: none"> <li>(edirs3 DIR1 DIR2 DIR3 REGEXP)</li> <li>(ediff-directories3 DIR1 DIR2 DIR3 REGEXP)</li> </ul>	Compare files common to three directories. <ul style="list-style-type: none"> <li>Prompts for directory A, B and C and a regexp to identify files: if empty: selects all files.</li> </ul>
Compare 2 directories with ztree-diff	<f11> d z	(ztree-diff DIR1 DIR2)	Open an interactive buffer with the directory tree of the path given, and highlight of file differences between the directories. <ul style="list-style-type: none"> <li>Argument DIR1 left directory. Interactively: prompts.</li> <li>Argument DIR2 right directory. Interactively: prompts.</li> </ul>  Requires the <a href="#">ztree external package</a> .  PEL activates it if <a href="#">pel-use-ztree</a> is <a href="#">t</a> .
• Ediff 2 files ➡	In the Ztree Diff buffer the following keys are available: <ul style="list-style-type: none"> <li>&lt;SPACE&gt; : Open/close directory</li> <li>&lt;RET&gt; : Open/close directory   <a href="#">Ediff 2 files</a> /open orphan file</li> <li>&lt;TAB&gt; : switch between panels</li> <li>C : copy current file/directory to the directory shown in the other side (prompts)</li> <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 <a href="#">view-mode</a> .               <ul style="list-style-type: none"> <li>In view-mode the following keys are available (see <a href="#">Z Buffers</a> for a complete list):                   <ul style="list-style-type: none"> <li>q: quit view-mode and return to Ztree Diff</li> <li>e: leave view-mode, edit/visit the file normally.</li> </ul> </li> </ul> </li> <li>x : Toggle expand/collapse of all nodes of the subtree.               <ul style="list-style-type: none"> <li> Use <b>x</b> with care! On large directory trees it may take a long time. I have see Emacs hang when typing <b>x</b> again during that time.</li> </ul> </li> <li>&lt;f5&gt; : force full rescan, re-write buffer (useful when changing window size).</li> </ul>		
Ediff Merge	Use the following commands to perform <b>3-way merges</b> within Emacs using the merge capability of the ediff built-in package.		
Merge 2 files	<f11> d e m f	<ul style="list-style-type: none"> <li>(ediff-merge FILE-A FILE-B &amp;optional STARTUP-HOOKS MERGE-BUFFER-FILE)</li> <li>(ediff-merge-files FILE-A FILE-B &amp;optional STARTUP-HOOKS MERGE-BUFFER-FILE)</li> </ul>	Merge two files without ancestor. <ul style="list-style-type: none"> <li>Prompt for FILE-A and FILE-B, the names of the files to be merged.</li> <li>The result is stored into an "ediff-merge" buffer, not a file.               <ul style="list-style-type: none"> <li>Save it into a file with <b>C-x C-s</b>. See <a href="#">screenshot example in PEL manual</a>.</li> </ul> </li> </ul>
Merge 2 files with ancestor	<f11> d e m F	<ul style="list-style-type: none"> <li>(ediff-merge-with-ancestor FILE-A FILE-B FILE-ANCESTOR &amp;optional STARTUP-HOOKS MERGE-BUFFER-FILE)</li> <li>(ediff-merge-files-with-ancestor FILE-A FILE-B FILE-ANCESTOR &amp;optional STARTUP-HOOKS MERGE-BUFFER-FILE)</li> </ul>	Merge two files with ancestor. <ul style="list-style-type: none"> <li>Prompt for FILE-A and FILE-B, the names of the files to be merged, and FILE-ANCESTOR, the name of the ancestor file.</li> <li>The result is stored into an "ediff-merge" buffer, not a file.               <ul style="list-style-type: none"> <li>Save it into a file with <b>C-x C-s</b>. See <a href="#">screenshot example in PEL manual</a>.</li> </ul> </li> </ul>
Merge 2 buffers	<f11> d e m b	(ediff-merge-buffers BUFFER-A BUFFER-B &optional STARTUP-HOOKS JOB-NAME MERGE-BUFFER-FILE)	Merge buffers without ancestor. <ul style="list-style-type: none"> <li>Prompt for BUFFER-A and BUFFER-B, the buffers to be merged.</li> </ul>
Merge 2 buffers with ancestor	<f11> d e m B	(ediff-merge-buffers-with-ancestor BUFFER-A BUFFER-B BUFFER-ANCESTOR &optional STARTUP-HOOKS JOB-NAME MERGE-BUFFER-FILE)	Merge buffers with ancestor. <ul style="list-style-type: none"> <li>Prompts for BUFFER-A and BUFFER-B, the buffers to be merged, and BUFFER-ANCESTOR, their ancestor.</li> </ul>
Merge versions of files in a directory	<f11> d e m d	<ul style="list-style-type: none"> <li>(edir-merge-revisions DIR1 REGEXP &amp;optional MERGE-AUTOSTORE-DIR)</li> <li>(ediff-merge-directory-revisions DIR1 REGEXP &amp;optional MERGE-AUTOSTORE-DIR)</li> </ul>	Merge versions of files in a given directory. <ul style="list-style-type: none"> <li>Ediff selects only the files that are under version control.</li> <li>Prompts for directory and regexp to identify files: if empty: selects all files.</li> </ul>
Merge versions of files in a directory using other versions as their ancestors	<f11> d e m D	<ul style="list-style-type: none"> <li>(edir-merge-revisions-with-ancestor DIR1 REGEXP &amp;optional MERGE-AUTOSTORE-DIR)</li> <li>(ediff-merge-directory-revisions-with-ancestor DIR1 REGEXP &amp;optional MERGE-AUTOSTORE-DIR)</li> </ul>	Merge versions of files in a given directory using other versions as ancestors. <ul style="list-style-type: none"> <li>Ediff selects only the files that are under version control.</li> <li>Prompts for directory and regexp to identify files: if empty: selects all files.</li> </ul>
Merge file commons to 2 directories	<f11> d e m c	<ul style="list-style-type: none"> <li>(edirs-merge DIR1 DIR2 REGEXP &amp;optional MERGE-AUTOSTORE-DIR)</li> <li>(ediff-merge-directories DIR1 DIR2 REGEXP &amp;optional MERGE-AUTOSTORE-DIR)</li> </ul>	Merge files common to two directories. <ul style="list-style-type: none"> <li>Run Ediff on a pair of directories, DIR1 and DIR2, merging files that have the same name in both.</li> <li>The third argument, REGEXP, is nil or a regular expression; only file names that match the regexp are considered.</li> <li>MERGE-AUTOSTORE-DIR is the directory in which to store merged files.</li> </ul>

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Merge file commons to 2 directories with ancestors	<f11> d e m C	<ul style="list-style-type: none"> <li>(edirs-merge-with-ancestor DIR1 DIR2 ANCESTOR-DIR REGEXP &amp;optional MERGE-AUTOSTORE-DIR)</li> <li>(ediff-merge-directories-with-ancestor DIR1 DIR2 ANCESTOR-DIR REGEXP &amp;optional MERGE-AUTOSTORE-DIR)</li> </ul>	Merge files in directories DIR1 and DIR2 using files in ANCESTOR-DIR as ancestors. <ul style="list-style-type: none"> <li>Ediff merges files that have identical names in DIR1, DIR2.</li> <li>If a pair of files in DIR1 and DIR2 doesn't have an ancestor in ANCESTOR-DIR, Ediff will merge without ancestor.</li> <li>The fourth argument, REGEXP, is nil or a regular expression; only file names that match the regexp are considered.</li> </ul>
Merge 2 versions of visited file	<f11> d e m r	(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	(ediff-merge-revisions-with-ancestor DIR1 DIR2 ANCESTOR-DIR REGEXP &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 specialization of Ediff-based comparisons.		
ParInfer EDiff Diff current code before/.after ParInfer modifications 𐀀𐀁 - Emacs Lisp	<ul style="list-style-type: none"> <li>&lt;f12&gt; a D</li> <li>&lt;f11&gt; SPC l a D</li> </ul>	(parinfer-diff)	Diff current code and the code after applying Indent Mode in Ediff. Use this to browse and apply the changes. ➡📦 Requires the <a href="#">parinfer</a> package. ⚠️ This is an obsolete package. ➡🔧 PEL activates this when the <b>pel-use-parinfer</b> user option is set to <b>t</b> .
Smerge	The built-in smerge package provides commands to help performing a 3-way merge. <ul style="list-style-type: none"> <li>If you want to automatically launch a smerge session on files that contain diff conflict annotations, set <b>pel-use-smerge</b> to <b>auto</b>. <ul style="list-style-type: none"> <li>Conflict annotation string is a string like "&lt;-----" that starts at the beginning of a line.</li> </ul> </li> </ul>		
Start a smerge session	<f11> d s s	(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	<f11> d s n	(smerge-next &optional COUNT)	Go to the next COUNT'th conflict.
Move to previous conflict	<f11> d s p	(smerge-prev &optional COUNT)	Go to the previous COUNT'th conflict
Keep all	<f11> d s a	(smerge-keep-all)	Concatenate all versions.
Revert to base	<f11> d s b	(smerge-keep-base)	Revert to the base version.
Keep current	<f11> d s RET	(smerge-keep-current)	Use the current (under the cursor) version.
Keep lower	<f11> d s l	(smerge-keep-lower)	Keep the "lower" version of a merge conflict. In a conflict that looks like: <----- UUU ===== LLL >>>>>> this keeps "LLL" .
Keep upper	<f11> d s u	(smerge-keep-upper)	Keep the "upper" version of a merge conflict. In a conflict that looks like: <----- UUU ===== LLL >>>>>> this keeps "UUU" .
Auto-combine	<f11> d s M-c	(smerge-auto-combine)	Automatically combine conflicts that are near each other.
Combine with next	<f11> d s C	(smerge-combine-with-next)	Combine the current conflict with the next one.
Diff base & lower	<f11> d s >	(smerge-diff-base-lower)	Diff 'base' and 'lower' version in current conflict region.
Diff base & upper	<f11> d s <	(smerge-diff-base-upper)	Diff 'base' and 'upper' version in current conflict region.
Diff upper & lower	<f11> d s =	(smerge-diff-upper-lower)	Diff 'upper' and 'lower' version in current conflict region.
Invoke ediff	<f11> d s e	(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	<f11> d s M-k	(smerge-kill-current)	Remove the current (under the cursor) version.
Insert diff3 conflict markers	<f11> d s M-C	(smerge-makeup-conflict PT1 PT2 PT3 &optional PT4)	Insert diff3 markers to make a new conflict. <ul style="list-style-type: none"> <li>Uses point and mark for two of the relevant positions and previous marks for the other ones.</li> <li>By default, makes up a 2-way conflict, with a C-u prefix, makes up a 3-way conflict.</li> </ul>
Pop-up smerge menu	<f11> d s m	(smerge-popup-context-menu EVENT)	Pop up the Smerge mode context menu under mouse.
Refine highlight	<f11> d s R	(smerge-refine &optional PART)	Highlight the words of the conflict that are different. <ul style="list-style-type: none"> <li>For 3-way conflicts, highlights only two of the three parts.</li> <li>A numeric argument PART can be used to specify which two parts;</li> <li>repeating the command will highlight other two parts.</li> </ul>
Resolve conflict at point	<f11> d s r	(smerge-resolve &optional SAFE)	Resolve the conflict at point intelligently. <ul style="list-style-type: none"> <li>This relies on mode-specific knowledge and thus only works in some major modes.</li> <li>Uses 'smerge-resolve-function' to do the actual work.</li> </ul>
Resolve all conflicts	<f11> d s M-r	(smerge-resolve-all)	Perform automatic resolution on all conflicts.
Swap upper and lower	<f11> d s M-s	(smerge-swap)	Swap the "Upper" and the "Lower" chunks. <ul style="list-style-type: none"> <li>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.</li> </ul>

## Diff & Merge — References

<a href="#">emacs vdiff github project</a>	
<a href="#">Using Emacs as a merge program @ Mercurial Wiki</a>	
<a href="#">GNU Emacs Ediff Manual</a>	Describes built-in Ediff: file diff of 2 or 3 files, 3-way merge, diff with backup, directory level diffs, version control aware...
<a href="#">vdiff.el</a>	Github home of vdiff.el, a package that implements a diff tool similar to vimdiff.