

# Ediff Mode

Because [Ediff](#) is a very useful *Emacs* mode (in particular for VC) i wrote a shell script to start it from the command line.

```
1. #!/bin/bash
2. #
3. # Copyright (C) 2013-2020 Ralf Hoppe <ralf@dfcgen.de>
4. #
5. # ediff.sh
6. #
7. # Usage: ediff.sh [--client] LOCAL REMOTE [MERGED [BASE]]
8. #
9.
10. function abspath()
11. {
12.     [[ $1 = /* ]] && echo "$1" || echo "$PWD/${1#./}"
13. }
14.
15.
16. MERGE=1 # if this is a MERGE
17.
18. if [ $# -gt 0 ] && [ "$1" = "--client" ] ; then
19.     LOCAL=$(abspath "$2")
20.     REMOTE=$(abspath "$3")
21.     MERGED=$(abspath "$4")
22.     BASE=$(abspath "$5")
23.     EMACS_CMD="emacsclient --create-frame"
24.     # NOTE: Empty list `vc-handled-backends' is a workaround for Emacs
25.     #         bug #18788, regarding vc-git mode-line.
26.     ELISP_COMMON=\
27. "(setq rho/vc-handled-backends-backup vc-handled-backends
28. \
29.     rho/ediff-frame (selected-frame)
30. \
31.     cscope-initial-directory nil
32. \
33.     vc-handled-backends ())
34. (defun rho/ediff-quit-hook-external ()
35. \
36.     (setq vc-handled-backends rho/vc-handled-backends-backup)
37. \
38.     (remove-hook 'ediff-quit-hook 'rho/ediff-quit-hook-external)
39. \
40.     (delete-frame rho/ediff-frame))
41. \
42. )"
```

```
35. (add-hook 'ediff-quit-hook 'rho/ediff-quit-hook-external t)"
36.
37.   if [ -z "$(lsof -u $USER -a -c emacs 2>/dev/null | grep -w server)"
    ] ; then
38.       emacs --rho-minimal --no-site-file &
39.       sleep 3
40.   fi
41.
42.   sleep 1
43.   shift
44. else
45.     LOCAL=$(abspath "$1")
46.     REMOTE=$(abspath "$2")
47.     MERGED=$(abspath "$3")
48.     BASE=$(abspath "$4")
49.     EMACS_CMD="emacs --rho-minimal --no-site-file"
50.     ELISP_COMMON=\
51. "(setq ediff-quit-hook 'kill-emacs \
52.   vc-handled-backends ())"
53. fi
54.
55. if [ $# -lt 2 ] ; then
56.     echo "Usage: $(basename $0) [--client] LOCAL REMOTE [MERGED
    [BASE]]"
57.     echo "          (see also GIT-DIFFTOOL(1) and GIT-MERGETOOL(1))"
58.     exit 1
59. fi
60.
61. echo -e "$# files:\nLOCAL=$LOCAL\nREMOTE=$REMOTE"
62.
63. if [ $# -eq 4 ] ; then
64.     echo -e "MERGED=$MERGED\nBASE=$BASE"
65.     $EMACS_CMD --eval \
66. "(progn $ELISP_COMMON
67.   (setq-default ediff-show-clashes-only t)
68.   (ediff-merge-files-with-ancestor \"${LOCAL}\" \"${REMOTE}\"
    \"${BASE}\" nil \"${MERGED}\"))" > /dev/null
69. elif [ $# -eq 2 -o \"${REMOTE}\" = \"${MERGED}\" ] ; then
70.     $EMACS_CMD --eval \
71. "(progn $ELISP_COMMON
72.   (ediff-files \"${LOCAL}\" \"${REMOTE}\"))" > /dev/null
73.     MERGE=0
74. else
75.     echo "MERGED=$MERGED"
76.     $EMACS_CMD --eval \
77. "(progn $ELISP_COMMON
78.   (setq-default ediff-show-clashes-only t)
79.   (ediff-merge-files \"${LOCAL}\" \"${REMOTE}\" nil
    \"${MERGED}\"))" > /dev/null
80. fi
81.
```

```
82. if [ $MERGE -ne 0 ]; then
83.     EGREPHITS="$(egrep -c '^(<<<<<<|>>>>>>)' $MERGED)"
84.
85.     if [ $EGREPHITS -ne 0 ]; then
86.         TMPFILE="$(mktemp --tmpdir $(basename $MERGED).XXXXXXXXXX)"
87.         cp -p "$MERGED" "$TMPFILE"
88.         echo "Conflicts -> see file $TMPFILE"
89.         exit 1
90.     fi
91. fi
92.
93. exit 0
```

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