

**User's Guide
to
pcl-cvs - the Emacs Front-End to CVS**

release 1.02

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```
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```

```
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```
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```

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```
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```

```
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Ty Coon, President of Vice
```

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1 Installation

This section describes the installation of `pcl-cvs`, the GNU Emacs CVS front-end. You should install not only the elisp files themselves, but also the on-line documentation so that your users will know how to use it. You can create typeset documentation from the file `pcl-cvs.texinfo` as well as an on-line info file. The following steps are also described in the file `INSTALL` in the source directory.

1.1 Installation of the `pcl-cvs` program

1. Edit the file `Makefile` to reflect the situation at your site. The only things you have to change is the definition of `lispdir` and `infodir`. The elisp files will be copied to `lispdir`, and the info file to `infodir`.
2. Configure `pcl-cvs.el`

There are a couple of paths that you have to check to make sure that they match you system. They appear early in the file `pcl-cvs.el`.

NOTE: If your system is running emacs 18.57 or earlier you **MUST** uncomment the line that says:

```
(setq delete-exited-processes nil)
```

Setting `delete-exited-processes` to `nil` works around a bug in emacs that causes it to dump core. The bug was fixed in emacs 18.58.

3. Type `'make install'` in the source directory. This will byte-compile all `.el` files and copy both the `.el` and the `.elc` into the directory you specified in step 1.

If you don't want to install the `.el` files but only the `.elc` files (the byte-compiled files), you can type `"make install_elc"` instead of `"make install"`.

If you only want to create the compiled elisp files, but don't want to install them, you can type `'make elcfiles'` instead. This is what happens if you only type `'make'` without parameters.

4. Edit the file `default.el` in your emacs lisp directory (usually `/usr/gnu/emacs/lisp` or something similar) and enter the contents of the file `pcl-cvs-startup.el` into it. It contains a couple of `auto-loads` that facilitates the use of `pcl-cvs`.

1.2 Installation of the on-line manual.

1. Create the info file `pcl-cvs` from `pcl-cvs.texinfo` by typing `'make info'`. If you don't have the program `'makeinfo'` you can get it by anonymous ftp from e.g. `'ftp.gnu.ai.mit.edu'` as `pub/gnu/texinfo-2.14.tar.Z` (there might be a newer version there when you read this), or you could use the preformatted info file `pcl-cvs.info` that is included in the distribution (type `'cp pcl-cvs.info pcl-cvs'`).
2. Move the info file `pcl-cvs` to your standard info directory. This might be called something like `/usr/gnu/emacs/info`.
3. Edit the file `dir` in the info directory and enter one line to contain a pointer to the info file `pcl-cvs`. The line can, for instance, look like this:

```
* Pcl-cvs: (pcl-cvs).      An Emacs front-end to CVS.
```

1.3 How to make typeset documentation from `pcl-cvs.texinfo`

If you have `TEX` installed at your site, you can make a typeset manual from `pcl-cvs.texinfo`.

1. Run `TEX` by typing “`make pcl-cvs.dvi`”. You will not get the indices unless you have the `texindex` program.
2. Convert the resulting device independent file `pcl-cvs.dvi` to a form which your printer can output and print it. If you have a postscript printer there is a program, `dvi2ps`, which does. There is also a program which comes together with `TEX`, `dvips`, which you can use.

2 About `pcl-cvs`

`Pcl-cvs` is a front-end to CVS version 1.3. It integrates the most frequently used CVS commands into emacs.

2.1 Contributors to `pcl-cvs`

Contributions to the package are welcome. I have limited time to work on this project, but I will gladly add any code that you contribute to me to this package (see Chapter 8 [Reporting bugs and ideas], page 19).

The following persons have made contributions to `pcl-cvs`.

- Brian Berliner wrote CVS, together with some other contributors. Without his work on CVS this package would be useless. . .
- Per Cederqvist wrote most of the otherwise unattributed functions in `pcl-cvs` as well as all documentation.
- Inge Wallin (`inge@lysator.liu.se`) wrote the skeleton to `pcl-cvs.texinfo`, and gave useful comments on it. He also wrote the files `elib-node.el` and `compile-all.el`. The file `cookie.el` was inspired by Inge.
- Linus Tolke (`linus@lysator.liu.se`) contributed useful comments on both the functionality and the documentation.

2.2 Where can I get `pcl-cvs`?

This release of `pcl-cvs` is included in the CVS 1.3 distribution. However, since `pcl-cvs` has had less time to mature (the first line of code was written less than a year ago) it is likely that there will be a new release of `pcl-cvs` before the next release of CVS.

The latest release of `pcl-cvs` can be fetched via anonymous ftp from `ftp.lysator.liu.se`, (IP no. 130.236.254.1) in the directory `pub/emacs`. If you don't live in Scandinavia you should probably check with `archie` to see if there is a site closer to you that archives `pcl-cvs`.

New releases will be announced to appropriate newsgroups. If you send your email address to me I will add you to my list of people to mail when I make a new release.

3 Getting started

This document assumes that you know what CVS is, and that you at least knows the fundamental concepts of CVS. If that is not the case you should read the man page for CVS.

Pcl-cvs is only useful once you have checked out a module. So before you invoke it you must have a copy of a module somewhere in the file system.

You invoke `pcl-cvs` by typing `M-x pcl-cvs RET`. If your emacs responds with `[No match]` your system administrator has not installed `pcl-cvs` properly. Try `M-x load-library RET pcl-cvs RET`. If that also fails - talk to your root. If it succeeds you might put this line in your `.emacs` file so that you don't have to type the `'load-library'` command every time you wish to use `pcl-cvs`:

```
(autoload 'cvs-update "pcl-cvs" nil t)
```

The function `cvs-update` will ask for a directory. The command `'cvs update'` will be run in that directory. (It should contain files that have been checked out from a CVS archive.) The output from `cvs` will be parsed and presented in a table in a buffer called `'*cvs*`. It might look something like this:

```
PCL-CVS release 1.02.
```

```
In directory /users/ceder/F00/test:
```

```
Updated      bar
Updated      file.txt
Modified ci  namechange
Updated      newer
```

```
In directory /users/ceder/F00/test/sub:
```

```
Modified ci  ChangeLog
----- End -----
```

In this example the three files (`bar`, `file.txt` and `newer`) that are marked with `'Updated'` have been copied from the CVS repository to `/users/ceder/F00/test/` since someone else have checked in newer versions of them. Two files (`namechange` and `sub/ChangeLog`) have been modified locally, and needs to be checked in.

You can move the cursor up and down in the buffer with `C-n` and `C-p` or `n` and `p`. If you press `c` on one of the `'Modified'` files that file will be checked in to the CVS repository. See Section 5.4 [Committing changes], page 14. You can press `x` to get rid of the "uninteresting" files that have only been `'Updated'` (and don't require any further action from you).

You can also easily get a `'diff'` between your modified file and the base version that you started from, and you can get the output from `'cvs log'` and `'cvs status'` on the listed files simply by pressing a key (see Section 5.6 [Getting info about files], page 14).

4 Buffer contents

The display contains four columns. They contain, from left to right:

- An asterisk when the file is *marked* (see Section 4.2 [Selected files], page 12).
- The status of the file. See Section 4.1 [File status], page 11, for more information.
- A "need to be checked in"-marker ('ci').
- The file name.

4.1 File status

The 'file status' field can have the following values:

- 'Updated' The file was brought up to date with respect to the repository. This is done for any file that exists in the repository but not in your source, and for files that you haven't changed but are not the most recent versions available in the repository.
- 'Modified' The file is modified in your working directory, and there was no modification to the same file in the repository.
- 'Merged' The file is modified in your working directory, and there were modifications in the repository as well as in your copy, but they were merged successfully, without conflict, in your working directory.
- 'Conflict' A conflict was detected while trying to merge your changes to *file* with changes from the source repository. *file* (the copy in your working directory) is now the output of the 'rcsmerge' command on the two versions; an unmodified copy of your file is also in your working directory, with the name *.#file.version*, where *version* is the RCS revision that your modified file started from. See Section 5.10 [Viewing differences], page 15, for more details.
- 'Added' The file has been added by you, but it still needs to be checked in to the repository.
- 'Removed' The file has been removed by you, but it needs to be checked in to the repository. You can resurrect it by typing *a* (see Section 5.7 [Adding and removing files], page 14).
- 'Unknown' A file that was detected in your directory, but that neither appears in the repository, nor is present on the list of files that CVS should ignore.

There are also a few special cases, that rarely occur, which have longer strings in the fields:

- 'Removed from repository' The file has been removed from your directory since someone has removed it from the repository. (It is still present in the Attic directory, so no permanent loss has occurred). This, unlike the other entries in this table, is not an error condition.

‘Removed from repository, changed by you’

You have modified a file that someone have removed from the repository. You can correct this situation by removing the file manually (see see Section 5.7 [Adding and removing files], page 14).

‘Removed by you, changed in repository’

You have removed a file, and before you committed the removal someone committed a change to that file. You could use `a` to resurrect the file (see see Section 5.7 [Adding and removing files], page 14).

‘Move away *file* - it is in the way’

For some reason CVS does not like the file *file*. Rename or remove it.

‘This repository is missing! Remove this dir manually.’

It is impossible to remove a directory in the CVS repository in a clean way. Someone have tried to remove one, and CVS gets confused. Remove your copy of the directory.

4.2 Selected files

Many of the commands works on the current set of *selected* files.

- If there are any files that are marked they constitute the set of selected files.
- Otherwise, if the cursor points to a file, that file is the selected file.
- Otherwise, if the cursor points to a directory, all the files in that directory that appears in the buffer are the selected files.

This scheme might seem a little complicated, but once one get used to it, it is quite powerful.

See Section 5.3 [Marking files], page 13, tells how you mark and unmark files.

5 Commands

This chapter describes all the commands that you can use in pcl-cvs.

5.1 Updating the directory

M-x cvs-update

Run a ‘`cvs update`’ command. You will be asked for the directory in which the ‘`cvs update`’ will be run. The output will be parsed by pcl-cvs, and the result printed in the ‘`*cvs*`’ buffer (see see Chapter 4 [Buffer contents], page 11, for a description of the contents).

By default, ‘`cvs-update`’ will descend recursively into subdirectories. You can avoid that behavior by giving a prefix argument to it (e.g., by typing `C-u M-x cvs-update RET`).

All other commands in pcl-cvs requires that you have a ‘`*cvs*`’ buffer. This is the command that you use to get one.

g This will run ‘`cvs update`’ again. It will always use the same buffer that was used with the previous ‘`cvs update`’. Give a prefix argument to avoid descending into subdirectories. This runs the command ‘`cvs-update-no-prompt`’.

5.2 Movement Commands

You can use most normal Emacs commands to move forward and backward in the buffer. Some keys are rebound to functions that take advantage of the fact that the buffer is a pcl-cvs buffer:

SPC

C-n

n These keys move the cursor one file forward, towards the end of the buffer (`cookie-next-cookie`).

C-p

p These keys move one file backward, towards the beginning of the buffer (`cookie-previous-cookie`).

5.3 Marking files

Pcl-cvs works on a set of *selected files* (see Section 4.2 [Selected files], page 12). You can mark and unmark files with these commands:

m This marks the file that the cursor is positioned on. If the cursor is positioned on a directory all files in that directory will be marked. (`cvs-mark`).

u Unmark the file that the cursor is positioned on. If the cursor is on a directory, all files in that directory will be unmarked. (`cvs-unmark`).

M Mark *all* files in the buffer (`cvs-mark-all-files`).

U Unmark *all* files (`cvs-unmark-all-files`).

DEL Unmark the file on the previous line, and move point to that line (`cvs-unmark-up`).

5.4 Committing changes

- c** All files that have a "need to be checked in"-marker (see Chapter 4 [Buffer contents], page 11) can be checked in with the `c` command. It checks in all selected files (see Section 4.2 [Selected files], page 12) (except those who lack the "ci"-marker - they are ignored). Pressing `c` causes `cvs-commit` to be run. When you press `c` you will get a buffer called `'*cvs-commit-message*`'. Enter the log message for the file(s) in it. When you are ready you should press `C-c C-c` to actually commit the files (using `cvs-edit-done`). Normally the `'*cvs-commit-message*`' buffer will retain the log message from the previous commit, but if the variable `cvs-erase-input-buffer` is set to a non-nil value the buffer will be erased. Point and mark will always be located around the entire buffer so that you can easily erase it with `C-w` (`'kill-region'`).

5.5 Editing files

There are currently three commands that can be used to find a file (that is, load it into a buffer and start editing it there). These commands work on the line that the cursor is situated at. They ignore any marked files.

- f** Find the file that the cursor points to. Run `'dired'` if the cursor points to a directory (`cvs-find-file`).
- o** Like `f`, but use another window (`cvs-find-file-other-window`).
- A** Invoke `'add-change-log-entry-other-window'` to edit a `'ChangeLog'` file. The `'ChangeLog'` will be found in the directory of the file the cursor points to. (`cvs-add-change-log-entry-other-window`).

5.6 Getting info about files

Both of the following commands can be customized. See Chapter 6 [Customization], page 17.

- l** Run `'cvs log'` on all selected files, and show the result in a temporary buffer (`cvs-log`).
- s** Run `'cvs status'` on all selected files, and show the result in a temporary buffer (`cvs-status`).

5.7 Adding and removing files

The following commands are available to make it easy to add and remove files from the CVS repository.

- a** Add all selected files. This command can be used on `'Unknown'` files (see see Section 4.1 [File status], page 11). The status of the file will change to `'Added'`, and you will have to use `c` (`'cvs-commit'`, see see Section 5.4 [Committing changes], page 14) to really add the file to the repository. This command can also be used on `'Removed'` files (before you commit them) to resurrect them.

Selected files that are neither ‘Unknown’ nor ‘Removed’ will be ignored by this command.

The command that is run is `cvs-add`.

- r** This command removes the selected files (after prompting for confirmation). The files are ‘rm’ed from your directory and (unless the status was ‘Unknown’; see Section 4.1 [File status], page 11) they will also be ‘`cvs remove`’d. If the files were ‘Unknown’ they will disappear from the buffer. Otherwise their status will change to ‘Removed’, and you must use `c` (‘`cvs-commit`’, see Section 5.4 [Committing changes], page 14) to commit the removal.

The command that is run is `cvs-remove-file`.

5.8 Removing handled entries

- x** This command allows you to remove all entries that you have processed. More specifically, the lines for ‘Updated’ files (see Section 4.1 [File status], page 11, and files that have been checked in (see Section 5.4 [Committing changes], page 14) are removed from the buffer. If a directory becomes empty the heading for that directory is also removed. This makes it easier to get an overview of what needs to be done.

The command is called `cvs-remove-handled`. If ‘`cvs-auto-remove-handled`’ is set to non-‘nil’ this will automatically be performed after every commit.

- C-k** This command can be used for lines that ‘`cvs-remove-handled`’ would not delete, but that you want to delete (`cvs-acknowledge`).

5.9 Ignoring files

- i** Arrange so that CVS will ignore the selected files. The file names are added to the `.cvsignore` file in the corresponding directory. If the `.cvsignore` doesn’t exist it will be created.

The `.cvsignore` file should normally be added to the repository, but you could ignore it also if you like it better that way.

This runs `cvs-ignore`.

5.10 Viewing differences

- d** Display a ‘`cvs diff`’ between the selected files and the RCS version that they are based on. See Chapter 6 [Customization], page 17, describes how you can send flags to ‘`cvs diff`’. (The function that does the job is `cvs-diff-cvs`).

- b** If CVS finds a conflict while merging two versions of a file (during a ‘`cvs update`’, see Section 5.1 [Updating the directory], page 13) it will save the original file in a file called `.#FILE.VERSION` where `FILE` is the name of the file, and `VERSION` is the RCS version number that your file was based on.

With the `b` command you can run a ‘diff’ on the files `.#FILE.VERSION` and `FILE`. You can get a context- or Unidiff by setting ‘`cvs-diff-flags`’ - see Chapter 6 [Customization], page 17. This command only works on files that

have status 'Conflict' or 'Merged'. The name of the command is `cvs-diff-backup`.

6 Customization

If you have an idea about any customization that would be handy but isn't present in this list, please tell me! See Chapter 8 [Reporting bugs and ideas], page 19, for info on how to reach me.

'cvs-erase-input-buffer'

If set to anything else than 'nil' the edit buffer will be erased before you write the log message (see Section 5.4 [Committing changes], page 14).

'cvs-inhibit-copyright-message'

The copyright message that is displayed on startup can be annoying after a while. Set this variable to 't' if you want to get rid of it. (But don't set this to 't' in the system defaults file - new users should see this message at least once).

'cvs-cvs-diff-flags'

A list of strings to pass as arguments to the 'cvs diff' program. This is used by 'cvs-diff-cvs' (key *d*, see Section 5.10 [Viewing differences], page 15). If you prefer the Unidiff format you could add this line to your .emacs file:

```
(setq cvs-cvs-diff-flags '("-u"))
```

'cvs-diff-flags'

Like 'cvs-cvs-diff-flags', but passed to 'diff'. This is used by 'cvs-diff-backup' (key *b*, see Section 5.10 [Viewing differences], page 15).

'cvs-log-flags'

List of strings to send to 'cvs log'. Used by 'cvs-log' (key *l*, see Section 5.6 [Getting info about files], page 14).

'cvs-status-flags'

List of strings to send to 'cvs status'. Used by 'cvs-status' (key *s*, see Section 5.6 [Getting info about files], page 14).

'cvs-auto-remove-handled'

If this variable is set to any non-'nil' value 'cvs-remove-handled' will be called every time you check in files, after the check-in is ready. See Section 5.8 [Removing handled entries], page 15.

7 Future enhancements

Pcl-cvs is still under development and needs a number of enhancements to be called complete. Here is my current wish-list for future releases of pcl-cvs:

- Dired support. I have an experimental `dired-cvs.el` that works together with CVS 1.2. Unfortunately I wrote it on top of a non-standard `dired.el`, so it must be rewritten.
- It should be possible to run commands such as ‘`cvs log`’, ‘`cvs status`’ and ‘`cvs commit`’ directly from a buffer containing a file, instead of having to ‘`cvs-update`’. If the directory contains many files the ‘`cvs-update`’ can take quite some time, especially on a slow machine.

If you miss something in this wish-list, let me know! I don’t promise that I will write it, but I will at least try to coordinate the efforts of making a good Emacs front end to CVS. See See Chapter 8 [Reporting bugs and ideas], page 19, for information about how to reach me.

8 Reporting bugs and ideas

If you find a bug or misfeature, don't hesitate to tell me! Send email to 'ceder@lysator.liu.se'.

If you have ideas for improvements, or if you have written some extensions to this package, I would like to hear from you. I hope that you find this package useful!

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