NAME

commitlog2cvsweb – convert FreeBSD commitlog files to HTML

SYNOPSIS

. commitlog2cvsweb [−−cvsweb=*URL*] [−−urlsuffix=*SFX*] [−−branch=*TAG*] [−−showallbranches] [−−outfile=*FILE*] [−−committer=*PATTERN*] [−−and] [−−insensitive] [−−logmessage=*PATTERN*]... [−−link−committers] [−−queryprcgi=*URL*] [−−number−commits] [−−maximum=*NUM*] [−−sort−arguments] *commitlog-file*...

. commitlog2cvsweb −−version

DESCRIPTION

The commitlog2cvsweb program takes one ore more commitlog files and converts them into HTML. The commitlog files are usually stored under */home/ncvs/CVSROOT/commitlogs/* and can be retrieved by cvsuping the cvsroot-common and cvsroot-src collections in CVS mode. (See cvsup, http://www.FreeBSD.org/doc/en/books/handbook/cvsup.html and "EXAMPLES".)

The generated HTML has hyperlinks to the `cvsweb.cgi` script. This means you can click on any of the changed files and see the CVS log (change history) and have access to all the revisions and deltas.

(The CGI script `cvsweb.cgi` was originally written by Bill Fenner <fenner@freebsd.org> for the FreeBSD project. It allows browsing of CVS-repositories with a HTML−browser. CVS is a popular version control system. `cvsup` is written by John Polstra <jdp@polstra.com>. It is a network distribution package for CVS repositories.)

Options may be abbreviated to a unique prefix. The options are as follows:

−−cvsweb=*URL*
Specify URL of cvsweb.cgi script. Default: http://cvsweb.FreeBSD.org/

−−urlsuffix=*SFX*
Specify some extra information for appending to generated URLs. (You should not type a leading `?` or `&` character because it will be added automatically.)

−−branch=*TAG*
Output only commit messages from branch *TAG*.

−−showallbranches
Tell `cvsweb.cgi` that you want to see file revisions on all branches. The default behaviour is to show only revisions on the branch selected with `--branch`.

−−outfile=*FILENAME*
Specify the output file. If no output file is specified standard output is used.

−−committer=*PATTERN*
Output only commit messages from committer *PATTERN*. More than one committer is requested by separating the committer names with a bar. Committer names in *PATTERN* are case insensitive and must match the full committer name.

−−filename=*PATTERN*
Output only commits affecting file *PATTERN*. (Note that the pattern is in Perl syntax and not in Shell syntax!)

−−logmessage=*PATTERN*
Output only commits with matching commit log messages. This option may be be specified multiple times.

−−and
Output only commits matching all logmessage patterns (AND). The default is to output commits matching any pattern (OR).

−−insensitive
Ignore case when matching logmessage patterns.

−−link−committers
Add hyperlinks to committers previous/next commit.

−−number−commits
Sequentially number all commits. (Numbering is done on a per file basis.)

−−queryprcgi=*URL*
Use *URL* to query problem reports. Default: http://www.FreeBSD.org/cgi/query−pr.cgi

−−maximum=*NUM*
Output at most *NUM* commits per input file.

−−body−attributes=*ATTRIBUTES*
Specify attributes for the html BODY tag.

−−noheadfoot
Suppress output of HTML, HEAD and BODY tags. This is for including the output into another HTML file.

−−from=*DATE*
Output only commit messages made after *DATE*. Options `--after` and `--since` are aliases for `--from`.

−−to=*DATE*
Output only commit messages made before *DATE*. Options `--before` and `--upto` are aliases for `--to`. If *DATE* does not contain a timezone then the date is interpreted according to the local timezone. Check Time::ParseDate for supported date/time formats.

−−nofileheaders
Do not emit H1 tags for each input file.

−−commitlogdir=*DIR*
Look for commitlogfiles in *DIR*. (May contain shell wildcard characters.)

−−sort−arguments
Arguments (input files) are processed in order of their modification times. This is useful to process several commitlog files in chronological order.

−−version
Print version information and exit.

Input file names may contain shell wildcard characters ('`*`', '`?`'). The `---commitlogdir` is prepended if given. Input files may have been compressed with `gzip`.

FILES

`commitlog2cvsweb` looks for a configuration file in three places.

- If the variable `CVSWEB_CONVERTERS_CONF` is set in the environment its content is interpreted as the name of the configuration file, otherwise
- the file *~/.cvsweb−converters.conf* is examined, and finally
- */tmp/etc/cvsweb−converters.conf* is tried.

Only the first existing file is used.

EXAMPLES

Step1: Retrieving the commitlog files

As a first step you need to get commitlog files. Retrieve them with *cvsup* (1). An example supfile is:

```
# Change the next line to use your nearest CVSup mirror site, check
# out http://www.FreeBSD.org/doc/en/books/handbook/cvsup.html
*default host=cvsup2.FreeBSD.org base=/usr prefix=/home/ncvs
*default release=cvs delete use-rel-suffix
# If you have a slow network link, uncomment the following line!
#*default compress
# Next two lines will fetch/sync the commitlogs of /usr/src only.
# If you are interested in doc/ports/projects too then you will
# need "cvsroot-all" instead of only -common and -src.
#cvsroot-all
cvsroot-common
cvsroot-src
```

Store this as file *cvsroot-supfile* and run cvsup:

```
cvsup -i CVSROOT\*/commitlogs cvsroot-supfile
```

This will retrieve all commitlog files. That is some 32 MiB as of June 2006. If you are not interested in old logs use a refuse file as described in cvsup or a more selective `-i` option in the above command line example.

Step2: HTMLizing with commitlog2cvsweb

To check what was going on in the area of FreeBSD kernel development since last monday run this command:

```
commitlog2cvsweb --since "monday 0:00" -o sys.html
    /home/ncvs/CVSROOT/commitlogs/sys
```

and open *sys.html*.

To see all kernel commits mentioning `sound` or `pcm` dating from the year 2006 run:

```
commitlog2cvsweb --since 2006-01-01 --before 2007-01-01 -o
sound2006.html -i --log sound --log '\bpcm\b' --sort /home/ncvs/CVS-
ROOT/commitlogs/sys*
```

Note how `\b` (word boundary) was used to avoid matching `pcmcia`!

BUGS

This implementation is too slow.

Commit messages pasted into logs of other commits may confuse the parser.

Timestamps in commitlog files without a timezone are interpreted according to the local timezone. (These timestamps occur only in very old FreeBSD commit logs.)

Option `--link-commiters` always adds a link to the next commit made by the same committer. This is wrong for the last one. (This bug is a consequence of single pass processing.)

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