NAME

prettyp − generate "pretty" PostScript source code listings using TeX

SYNOPSIS

prettyp [-chknw] [-l *lang*] [-H *header*] *filename* [*filename2* ...]

DESCRIPTION

prettyp formats source code listings using TeX. For a given language, comments are rendered in italics, keywords in bold, strings in Courier; along the right margin appear line-numbers, every 10 lines in a tiny font, and function/subroutine/procedure definitions, in a larger font.

Options also exist to print line numbers on every line (for example for a code review) or to create color output (**prettyp** assumes **dvips**(1) is installed). See **OPTIONS**, below.

This distribution supports the following languages: C, C++, FORTRAN77, ISP, Icon, Java, LDL, Emacs Mock Lisp, Model, Modula2, Pascal, Perl, Python, RATFOR, Russell, sh/csh, Tcl/Tk and yacc grammer. It also formats Makefiles and Imakefiles.

Support for additional languages can be easily added, see the **NOTES** section.

OPERATION

prettyp will format files by first converting tabs to 8 spaces (using **expand**(1)) and (if specified) wrapping long lines (using **fold**(1)). It uses **lang**(1) to detect the language (by filename extension or interpreter name) and grinds the file using **tfontedpr**(1) and finally runs **tex**(1) and **dvips**(1) to generate the PostScript file.

If the file type (i.e. the language contained therein) is unrecognized it will exit with an appropriate message.

OPTIONS

−c Uses the color options provided in **dvips**(1). Comments are rendered in red, keywords in blue and literal strings are rendered in orange. It is possible to change the colors in the intermediate files. Use the -k option to keep the temporary directory, and edit the generated .tex file. Define \colordef, \colorcomm, \colorstring and \colorkey to whatever color you like. You should be familiar with *TeX*(1) and *dvips*(1), and might want to read the *tgrindmac.tex* file.

−H "*header*"
Header text. Each page will have this text as a header. The default is no header text.

−h Print a short help message.

−k Keeps the temporary directory (/tmp/TGDIR.$$).

−l **lang** Specify the language explicitly. Useful when **lang**(1) can’t figure out what type of language the file is.

−n Prints line numbers on every line, along the left side of the page. Default is to print line numbers every 10 lines along the right side.

−w Wrap long lines.

filename [filename2 ...]
one or more source-code files to grind.

EXAMPLES

prettyp vgrindefs.c prettyp

will generate **vgrindefs.c.ps** and **prettyp.ps**.

prettyp -c -l C header.h

will generate **header.h.ps** in color.

prettyp -k bizarre.c

will generate bizarre.c.ps, and keep /tmp/TGDIR.$$.

FILES

The following files are used by prettyp (and the programs called by the shell script). Their locations vary. These paths are relative to the texmf directory of **TeX** (e.g. /tools/tex/texmf, or /usr/local/share/tex/texmf).

$TEXMF/tgrind/*vgrindefs*	language definitions database
$TEXMF/tgrind/*tgrindmac.tex*	TeX macros

These are absolute paths:

/tmp/TGDIR.$$	Temporary directory
/tmp/TGDIR.$$/*file*	The pre-TeX-ified file
/tmp/TGDIR.$$/*file*.tex	The TeX-ified file
/tmp/TGDIR.$$/*file*.log	The TeX runtime log file
/tmp/TGDIR.$$/*file*.dvi	The DeVice Indepent TeX output file
/tmp/TGDIR.$$/*file*.ps	The dvips output file.

SEE ALSO

tgrind(1), **tex**(1), **vgrind**(1), **lang**(1), **vgrindefs**(5), **ghostview**(1), **tfontdpr**(1)

NOTES

To add pretty print capabilities for other languages, add your language definition to the vgrindefs database file and then add a file-extension/interpreter-to-language mapping to the associative array called **%lang** in the **lang**(1) perl script.

The file format for *vgrindefs* is described in **vgrindefs**(5); for systems that lack this manpage, e.g. GNU/Linux, a PostScript version is provided with the distribution.

Piping the output of **expand**(1) and **fold**(1) into **tfontedpr**(1) prevents the name of the source file from appearing in the footer and thus requires temporary file storage. Therefore, **pretty** must make a temporary copy with the same file name. Prior versions of *prettyp* did not run when the current working directory was */tmp* because the file would be overwritten (thus being zeroed) and eventually deleted. **prettyp** now creates a temporary directory in */tmp* (*/tmp/TGDIR.$$*) and expands/wraps the file into that directory.

Keywords should not be rendered in bold when they appear in a comment (that's a bug in **tfontedpr**(1), though).

BUGS

When grinding Tcl/Tk files, some keywords are not embolded.

tfontedpr(1) is limited to grinding files containing ASCII characters only (0-128).

Chokes on Makefiles generated by imake(1).

Chokes on empty // C and C++ comments.

At least another one.

QUOTE

> *My life is one demd horrid grind.*
> *--Nicholas Nickleby*, Chap. lxiv.
> Charles Dickens, 1812-1870.

AUTHORS

Luis A. Fernandes <elf@ee.ryerson.ca> is the current maintainer of the prettyp suite.

Sean Kamath <kamath@cesa.opbu.xerox.com> modified **tfontedpr** and rewrote **prettyp** to handle alternate formats and color.

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