NAME

typog-grep - specialized grep for typog-inspect elements in LaTeX log files

SYNOPSIS

The second form shows the contents, *LOG-DATA*, of the elements

```
<typog-inspect id="ID" ...>
LOG-DATA
</typog-inspect>
```

whose IDs match REGEXP in LOG-FILE.

If no *LOG-FILE* is given read from *stdin*. The filename– is synonymous to *stdin*.

DESCRIPTION

typog-grep is a tailored post-processor for LaTeX *log* files and the typoginspect environment as provided by the LaTeX package typog. It shares more with the venerable **sgrep** https://www.cs.helsinki.fi/u/jjaakkol/sgrep.html> than with POSIX **grep** https://pubs.opengroup.org/onlinepubs/9699919799/utilities/grep.html.

In the LaTeX source file the user brackets her text or code in a typoginspect environment:

```
\begin{typoginspect}{ID}
TEXT-OR-CODE-TO-INVESTIGATE
\end{typoginspect}
```

where *ID* is used to identify one or more bracketed snippets. *ID* does not have to be unique. The *REGEXP* mechanism makes it easy to select groups of related *ID*s if they are named accordingly.

where all the capital-letter sequences are meta-variables and in particular *JOB-NAME* is the expansion of \jobname, *LINE-NUMBER* is the LaTeX source file line number of the beginning of the typoginspect environment, and *PAGE-NUMBER* is the page where the output of TEXT-OR-CODE-TO-INVESTIGATE occurs.

typog-grep reveals the contents of *LOG-FILE* between <typog-inspect id="*ID*" ...> and </typog-inspect> excluding the XML-tags themselves. Access the *JOB-NAME*, *LINE-NUMBER*, and *PAGE-NUMBER* with the commandline options **--job-name**, **--line-number**, and **--page-number**, respectively. Use--id to show the name of the IDs that matched *REGEXP*.

typoginspect environments can be nested. **typog-grep** respects the nesting, i.e., if the *ID* of the nested environment does not match *REGEXP* it will not be included in the program's output.

OPTIONS

The list of options is sorted by the names of the long options.

```
-a, --all, --any
```

ID-discovery mode: Discover all typog-inspect elements independent of any matching patterns and print their *IDs*. The results are printed in their order of occurrence in the respective *LOG-FILEs*. Pipe the output into**sort** to get alphabetically or dered *IDs*.

Augment with options — job—name, ——line—number, ——log—line—number, or ——page—number for more information.

--color, colour WHEN

Colorize specific log contents for the matching *IDs*. The argument *WHEN* determines when to apply color: always, never, or auto. The settingauto checks whether standard output has been redirected. This is the default.

-C, --config KEY=VALUE[:KEY=VALUE[:...]]

Set one or more configuration *KEY* to *VALUE* pairs. See section "CONFIGURATION" for a description of all available configuration items. Use option **—-show–config** to display the default configuration.

--debug

Turn on debug output on stderr.

-E, --encoding ENCODING

Set the ENCODING of LOG-FILE for the translation to UTF-8. The default is unset.

Use this option to get rid of pesky "<*HEX-DIGITS>" escapes on UTF-8 terminals. See option --show-encodings for the known encodings and Encode::Supported for a summary of all encodings. See also section "Some Common Encodings".

Apply **iconv** https://pubs.opengroup.org/onlinepubs/9699919799/utilities/iconv.html (POSIX) or **recode** https://github.com/rrthomas/recode/ (GNU) on LOG-FILE before this tool to avoid having to use option —**encoding**.

-h, --help

Display brief help then exit.

-i, --[no-]id

Print the actual ID-name that matched *REGEXP*. Control the appearance of the matching *ID* with configuration item id-heading.

-y, --[no-]ignore-case

Match *IDs* while ignoring case distinctions in patterns and data.

-j, --[no-]job-name

Print the \jobname that **latex** associated with the input file.

-n, --[no-]line-number

Print the line number where the typoginspect environment was encountered in the LaTeX source file.

-N, --[no-]log-line-number

Print the line number of the *log*-file where the current line was encountered.

-p, --[no-]page-number

Print page number where the contents of the typoginspect environment starts in the typeset document.

-P, --[no-]pager

Redirect output from stdout to the configured pager.

––show–config

Show the default configuration and exit.

--show-encodings

Show all known encodings and exit.

-V, --version

Show version information and exit.

-w, --[no-]word-regexp

Match only whole words.

CONFIGURATION

id-format=FORMAT

Control the *FORMAT* for printing matching ids in inline-mode, where *FORMAT* is passed to Perl's printf. Default:%s:.

id-heading=0 | 1

Choose between printing the matching *IDs* with option —id: Inline (0) or heading before the matching data (1). Default:0.

id-heading-format=FORMAT

Control the *FORMAT* for printing matching *IDs* in heading-mode, where *FORMAT* is passed to Perl's printf. Default:--> %s <--.

id-indent=INDENT

Indentation of nested typog-inspect tags. Only used in "discovery mode" (first form), i.e., if **—all** is active. Default: 8.

id-max-length=MAXIMUM-LENGTH

Set the maximum length of a matching *ID* for printing. It a matching *ID* exceeds this length it will be truncated and the last three characters (short of *MAXIMUM-LENGTH*) will be replaced by dots. Default: 40.

line-number-format=FORMAT

Control the *FORMAT* for printing TeX source line numbers, where *FORMAT* is passed to Perl's printf. Default:%5d.

log-line-number-format=FORMAT

Control the *FORMAT* for printing log line numbers, where *FORMAT* is passed to Perl's printf. Default:%6d.

page-number-format=FORMAT

Control the *FORMAT* for printing page numbers, where *FORMAT* is passed to Perl's printf. Default:[%3d].

pager=PAGER

Name of pager application to pipe output into if run with option **--pager**. Default: less.

pager-flags=FLAGS

Pass FLAGS to PAGER. Default:--quit-if-one-screen.

Color Configuration

For the syntax of the color specifications consult the manual page of Term::ANSI-Color(pm).

file-header-color

Color of the filename header.

fill-state-color

Color of the messages that report "Underfull hbox" or "Overfull hbox".

first-vbox-color

Color of the first vbox on a page.

font-spec-color

Color of font specifications.

horizontal-break-candidate-color

Color of lines with horizontal-breakpoint candidates @.

horizontal-breakpoint-color

Color of lines with horizontal breakpoints @@.

id-color

Color of matching *IDs* when printed inline.

id-heading-color

Color of matching *IDs* when printed in heading form.

line-break-pass-color

Color of the lines showing which pass (e.g., @firstpass) of the line-breaking algorithm is active.

line-number-color

```
Color of TeX-source-file line numbers.
        log-line-number-color
            Color of log-file line numbers.
        math-color
            Color used for math expressions including their font specs.
        page-number-color
            Color of page numbers of the final output.
        tightness-color
            Color of lines with Tight/Loose hbox reports.
        vertical-breakpoint-color
            Color of possible vertical breakpoints.
Brief summary of colors and attributes
    Foreground Color
        black, red, green, yellow, blue, magenta, cyan, white,
        Prefix with bright_ for high-intensity or bold foreground.
    Foreground Grey
        grey0, ..., grey23
    Background Color
        on_black, on_red, on_green, on_yellow, on_blue, on_magenta, on_cyan,
        on_white
        Replace on_with on_bright_ for high-intensity or bold background.
    Background Grey
        on_grey0, ..., on_grey23
    Text Attribute
        bold, dark, italic, underline, reverse
Some Common Encodings
    The following list shows some encodings that are suitable for option --encoding.
    Latin-1, Western European
        iso-8859-1, cp850, cp860, cp1252
    Latin-2, Central European
        iso-8859-2, cp852, cp1250
    Latin-3, South European (Esperanto, Maltese)
        iso-8859-3
    Latin-4, North European (Baltics)
        iso-8859-4
    Cyrillics
        iso-8859-5, cp855, cp866 (Ukrainian), cp1251
    Arabic
        iso-8859-6, cp864, cp1006 (Farsi), cp1256
    Greek
        iso-8859-7, cp737, cp1253
        iso-8859-8, cp862, cp1255
    Turkish
        iso-8859-9, cp857, cp1254
    Nordic
        iso-8859-10, cp865, cp861 (Icelandic)
```

EXIT STATUS

The exit status is 0 if at least one *ID* matched *REGEXP*, 1 if no *ID* matched *REGEXP*, and 2 if an error occurred.

CAVEATS

The end tag </typog-inspect> sometimes gets placed too early in the output and the trace *seems* truncated. However, LaTeX reliably logs the requested the trace information, but the write operations for trace data and the code which is used to print the end tag are not synchronized.

SEE ALSO

grep(1), printf(3), Encode::Supported(pm), Term::ANSIColor(pm)