### **NAME**

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

### **SYNOPSIS**

</typog-inspect>
whose IDs match REGEXP in LOG-FILE.

LOG-DATA

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** <a href="https://www.cs.helsinki.fi/u/jjaakkol/sgrep.html">https://www.cs.helsinki.fi/u/jjaakkol/sgrep.html</a>> than with POSIX **grep** <a href="https://pubs.opengroup.org/onlinepubs/9699919799/utilities/grep.html">https://pubs.opengroup.org/onlinepubs/9699919799/utilities/grep.html</a>>.

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** <a href="https://pubs.opengroup.org/onlinepubs/9699919799/utilities/iconv.html">https://pubs.opengroup.org/onlinepubs/9699919799/utilities/iconv.html</a> (POSIX) or **recode** <a href="https://github.com/rrthomas/recode/">https://github.com/rrthomas/recode/</a> (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.

## $\verb|id-max-length| = MAXIMUM-LENGTH|$

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)