NAME

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

SYNOPSIS

```
typog-grep –a | —all | —any [OPTION...] LOG-FILE...
typog-grep [OPTION...] REGEXP LOG-FILE...
```

The first form shows all <typoq-inspect id="ID" ...>elements in L OG-FILE.

The second form shows the contents of <typog-inspect id="ID" ...>elements whose IDs match REGEXP in LOG-FILE.

If no LOG-FILE is given read from stdin. The filename– is synon ymous to stdin.

DESCRIPTION

typog-grep is a tailored post-processor for LaTeX log files and the typoginspect environment as provided by 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.

The LaTeX user brackets her text in

```
\begin{typoginspect}{ID}
  Text and 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.

In LOG-FILE the environment shows up, packed with tracing information, as

```
<typog-inspect id="ID" job="JOB-NAME" line="LINE-NUMBER" page="PAGE-NUMBER">
   Trace Data
</typog-inspect>
```

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 and code to investigate occurs.

typog-grep reveals the contents of *LOG-FILE* between <typog-inspect id="*ID*" ...> and </typog-inspect> excluding the XML-tags. 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: Show all typog-inspect elements independent of any matching patterns.

--color, colour WHEN

Colorize specific log contents for the matching ids. The argument *WHEN* determines when to apply color: always, never, or auto. The setting auto 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 Sec. CONFIGURATION below for a description of all available configuration items. Use option **—-show–config** to display the default configuration.

--debug

Turn on debug output on stderr.

-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 **tex** 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.

-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::ANSIColor(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

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.

SEE ALSO

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