

**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 <typog-inspect id="ID" ...>elements in LOG-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 synonymous 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 *IDs* 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. If 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)`