

Package ‘typr’

September 2, 2025

Title Write and Render 'Typst' Documents

Version 0.0.4

Description Compile 'Typst' files using the 'typst-cli' (<<https://typst.app>>) command line tool. Automatically falls back to rendering via embedded 'Typst' from 'Quarto' (<<https://quarto.org>>) if 'Typst' is not installed. Includes utilities to check for 'typst-cli' availability and run 'Typst' commands.

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Encoding UTF-8

RoxygenNote 7.3.2

Imports cli, fs, processx, rlang

Depends R (>= 4.1.0)

Suggests jsonlite, rstudioapi, testthat (>= 3.0.0)

SystemRequirements Typst command line tool
(<<https://github.com/typst/typst>>) or Quarto command line tool
(<<https://github.com/quarto-dev/quarto-cli>>).

Config/testthat/edition 3

URL <http://christophertkenny.com/typr/>,
<https://github.com/christopherkenny/typr>

NeedsCompilation no

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has_any_typst	<i>Find if Typst is available</i>
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Description

Find if Typst is available

Usage

- has_any_typst()
- has_typst_cli()
- has_quarto_typst()
- has_quarto_cli()
- typr_has_typst()
- typr_has_quarto()
- typr_has_quarto_typst()

Value

a logical if Typst or Quarto are found

Examples

- has_any_typst()
- has_typst_cli()
- has_quarto_cli()
- has_quarto_typst()

typr_compile	<i>Compile a Typst document</i>
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Description

Compile a Typst document

Usage

```
typr_compile(  
  input = NULL,  
  output_file = NULL,  
  output_format = c("pdf", "png", "svg", "html"),  
  typst_args = NULL  
)
```

Arguments

input	either a path to a .typ file or text to use as the file
output_file	file to output to
output_format	format to use. One of c('pdf', 'png', 'svg', 'html'),
typst_args	Additional arguments to pass to Typst. Can be listed with typr_help('compile')

Value

a path to the created file

Examples

```
typr_compile('hello world')  
typr_compile(  
  input = 'Hello world', output_format = 'png',  
  typst_args = c('--ppi', '300')  
)
```

typr_fonts	<i>List Available Typst Fonts</i>
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Description

List Available Typst Fonts

Usage

```
typr_fonts()
```

Value

a character vector of font names

Examples

```
typr_fonts()
```

typr_help*Get Help Information for a Typst command*

Description

Prints a message to the terminal with help information. Silently returns the content as character which can be printed with `cat()`.

Usage

```
typr_help(command = NULL)
```

Arguments

`command` name of a command to get help for, e.g. 'compile'

Value

a character vector of information, invisibly

Examples

```
typr_help('compile')
```

typr_init*Create a project from a template*

Description

Create a project from a template

Usage

```
typr_init(template = NULL, version = NULL, dir = NULL, typst_args = NULL)
```

Arguments

template	a template to use, can be local or on Typst Universe. If the string does not specify @preview or @local, '@preview' will be prepended.
version	a version string, e.g. 0.1.0
dir	The project directory
typst_args	Additional arguments to pass to Typst. Can be listed with typr_help('init')

Value

a directory, invisibly

Examples

```
typr_init('charged-ieee', dir = paste0(tempdir(), '/typr_example'))
```

typr_query	<i>Query within a Typst file</i>
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Description

Query within a Typst file

Usage

```
typr_query(
  input = NULL,
  selector = NULL,
  typst_args = NULL,
  as_json = rlang::is_installed("jsonlite")
)
```

Arguments

input	a path to a .typ file
selector	a string to search for, e.g. a "<label>"
typst_args	Additional arguments to pass to Typst. Can be listed with typr_help('query')
as_json	if TRUE, return a list, otherwise a character string

Value

a length one character with json syntax if !as_json, otherwise a list

Examples

```
tf <- fs::file_temp(ext = 'typ')
writeLines(text = '= test <lbl>\n', con = tf)
typr_query(input = tf, selector = '<lbl>')
```

typr_version	Get installed Typst version
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Description

Get installed Typst version

Usage

```
typr_version(keep_hash = FALSE)
```

Arguments

keep_hash description

Value

a version, numeric if !keep_hash

Examples

```
typr_version()
```

typr_watch	Watch a Typst document
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Description

Watch a Typst document

Usage

```
typr_watch(
  input = NULL,
  output_file = NULL,
  output_format = c("pdf", "png", "svg", "html"),
  typst_args = NULL
)

typr_watch_stop()
```

Arguments

`input` either a path to a .typ file or text to use as the file
`output_file` file to output to
`output_format` format to use. One of c('pdf', 'png', 'svg', 'html'),
`typst_args` Additional arguments to pass to Typst. Can be listed with `typr_help('watch')`

Value

a path to the created file

Examples

```
tf <- fs::file_temp(ext = 'typ')
writeLines(text = '= test', con = tf)
typr_watch(tf)
writeLines(text = c('= test', 'hello'), con = tf)
```

typr_which_typst	<i>Identify Install Typst to Use</i>
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Description

Identify Install Typst to Use

Usage

```
typr_which_typst()
```

Value

a character vector or NULL if no Typst is found

Examples

```
typr_which_typst()
```

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