Package: highr (via r-universe)

August 23, 2024

Type Package

Title Syntax Highlighting for R Source Code

Version 0.11.1

Description Provides syntax highlighting for R source code. Currently it supports LaTeX and HTML output. Source code of other languages is supported via Andre Simon's highlight package (<https://gitlab.com/saalen/highlight>).

Depends R (>= 3.3.0)

Imports xfun (>= 0.18)

Suggests knitr, markdown, testit

License GPL

URL https://github.com/yihui/highr

BugReports https://github.com/yihui/highr/issues

VignetteBuilder knitr

Encoding UTF-8

RoxygenNote 7.3.1

Repository https://yihui.r-universe.dev

RemoteUrl https://github.com/yihui/highr

RemoteRef HEAD

RemoteSha 967162bfeec97611de81a5125f1af69680495077

Contents

hilight *Syntax highlight an R code fragment*

Description

This function parses the R code, fetches the tokens in it (getParseData), and attach syntax highlighting commands onto them. With proper style definitions for these commands (such as colors or font styles), the R code will be syntax highlighted in the LaTeX/HTML output. The two functions hi_latex and hi_html are wrappers of hilight for LaTeX and HTML output, respectively.

Usage

```
hilight(
  code,
  format = c("latex", "html"),
  markup,
  prompt = FALSE,
  fallback = FALSE
)

hi_latex(code, ...)

hi_html(code, ...)
```

Arguments

code	a character string (the R source code)
format	the output format
markup	a data frame of two columns containing the markup commands
prompt	whether to add prompts to the code
fallback	whether to use the fallback method, i.e. the regular expression based method; this method is not precise and only highlights a few types of symbols such as comments, strings and functions; fallback will be set to TRUE when the input code fails to be parsed
...	arguments to be passed to hilight()

Details

For the markup data frame, the first column is put before the R tokens, and the second column is behind; the row names of the data frame must be the R token names; a special row is named DEFAULT, which contains the markup for the standard tokens (i.e. those that do not need to be highlighted); if missing, the built-in data frames highr:::cmd_latex and highr:::cmd_html will be used.

This function only binds markups onto R tokens, and the real syntax highlighting must be done with style definitions, which is out of the scope of this package. It was designed to be used as the syntax highlighting infrastructure of other packages such as **knitr**, where the colors and font styles are properly defined in the LaTeX preamble and HTML header.

Value

A character vector for the syntax highlighted code.

Author(s)

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See Also

See the package vignettes `browseVignettes('highr')` for how this function works internally.

Examples

```
library(highr)
hilight("x=1 # assignment")

txt = c("a <- 1 # something", "c(y=\"world\", z=\"hello\")", "b=function(x=5) {",
    "for(i in 1:10) {
  if (i < x) print(i) else break}}", "z@child # S4 slot",
    "'special chars <>#$%&_{}'")
cat(hi_latex(txt), sep = "\n")
cat(hi_html(txt), sep = "\n")

# the markup data frames
highr:::cmd_latex
highr:::cmd_html
```

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hi_andre — *A wrapper to Andre Simon's Highlight*

Description

This function calls Highlight to syntax highlight a code fragment.

Usage

```
hi_andre(code, language, format = "html")
```

Arguments

`code`	a character string of the source code
`language`	the input language (c, cpp, python, r, ...); see `system('highlight -p')`
`format`	the output format (html, latex, ...)

Value

A character string for the syntax highlighted code.

References

Andre Simon's Highlight package https://gitlab.com/saalen/highlight.

Examples

```
## Not run:
hi_andre("1+1", language = "R")
hi_andre("void main() {\nreturn(0)\n}", language = "c", format = "latex")

## End(Not run)
```

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