Package 'highr'

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Type Package

Title Syntax Highlighting for R Source Code

Version 0.12

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 7.3.3

NeedsCompilation no

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Repository CRAN

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hilight   *Syntax highlight an R code fragment*

Description

This function [parse](#)s the R code, fetches the tokens in it ([getParseData](#)), and attach syntax high-
lighting 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 [parse](#)d
...	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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