

Package ‘nomnoml’

June 13, 2019

Type Package

Title Sassy 'UML' Diagrams

Version 0.1.0

Maintainer Javier Luraschi <javier@rstudio.com>

Description A tool for drawing sassy 'UML' diagrams based on a simple syntax, see <<http://www.nomnoml.com>>. Supports styling, R Markdown and exporting diagrams in the PNG format.

License MIT + file LICENSE

Encoding UTF-8

LazyData true

Depends R (>= 3.1.2)

Imports htmlwidgets, png, webshot

RoxygenNote 6.1.1

Suggests knitr, rmarkdown

NeedsCompilation no

Author Javier Luraschi [aut, cre],
Daniel Kallin [ctb] (nomnoml.js library, <http://nomnoml.com>)

Repository CRAN

Date/Publication 2019-06-13 16:20:07 UTC

R topics documented:

nomnoml	2
nomnoml-shiny	5

Index	7
--------------	----------

 nomnoml

Render Diagram

Description

Renders a 'nomnoml' diagram as an 'htmlwidget' or saves it as a 'png' image.

Usage

```
nomnoml(code = "[Hello]-[World!]", png = NULL, width = NULL,
         height = NULL, ...)
```

Arguments

code	The nomnoml diagram code.
png	Optional file name to export diagram as 'png'.
width	Optional width in pixels for the exported 'png'.
height	Optional height in pixels for the exported 'png'.
...	Additional parameters.

Details

The 'nomnoml' syntax is simple and intuitive, a "Hello World" example can be rendered as an 'htmlwidget' as follows:

```
nomnoml::nomnoml("[Hello]-[World!]", "orange")
```

You can also render as a 'png' file with specific dimensions:

```
nomnoml::nomnoml("[Hello]-[World!]", "hello.png", 600, 100)
```

Still, complex diagrams can be defined by combining multiple association types, classifier types, directives and custom classifier styles.

You can also use of the nomnoml 'knitr' chunk to render inline diagrams in R Markdown documents.

Association Types

```
association -
association ->
association <->
dependency -->
dependency <-->
generalization -:>
generalization <:-
implementation -->
implementation <:--
```

composition +-
composition ++->
aggregation o-
aggregation o->
note --
hidden -/-

Classifier Types

[name]
[<abstract> name]
[<instance> name]
[<note> name]
[<reference> name]
[<package> name]
[<frame> name]
[<database> name]
[<start> name]
[<end> name]
[<state> name]
[<choice> name]
[<input> name]
[<sender> name]
[<receiver> name]
[<transceiver> name]
[<actor> name]
[<usecase> name]
[<label> name]
[<hidden> name]

Directives

#arrowSize: 1
#bendSize: 0.3
#direction: down | right
#gutter: 5
#edgeMargin: 0
#edges: hard | rounded
#fill: #eee8d5; #fdf6e3

```
#fillArrows: false
#font: Calibri
#fontSize: 12
#leading: 1.25
#lineWidth: 3
#padding: 8
#spacing: 40
#stroke: #33322E
#title: filename
#zoom: 1
```

Custom Classifier Styles

A directive that starts with `.` define a classifier style. The style is written as a space separated list of modifiers and key/value pairs.

```
#.box: fill=#8f8 dashed
#.blob: visual=ellipse
[<box> GreenBox]
[<blob> HideousBlob]
```

Available key/value pairs are:

```
fill=(any css color)
stroke=(any css color)
align=center
align=left
direction=right
direction=down
visual=actor
visual=class
visual=database
visual=ellipse
visual=end
visual=frame
visual=hidden
visual=input
visual=none
visual=note
visual=package
visual=receiver
```

```
visual=rhomb
visual=roundrect
visual=sender
visual=start
visual=transceiver
Available modifiers are:
bold
underline
italic
dashed
empty
```

Examples

```
# Render simple diagram:
nomnoml::nomnoml("[Hello]-[World!]")

# Render complex diagram:
nomnoml::nomnoml("
#stroke: #a86128
[<frame>Decorator pattern|
  [<abstract>Component| |+ operation()]
  [Client] depends --> [Component]
  [Decorator|- next: Component]
  [Decorator] decorates -- [ConcreteComponent]
  [Component] <:- [Decorator]
  [Component] <:- [ConcreteComponent]
]")
```

nomnoml-shiny

Shiny bindings for nomnoml

Description

Output and render functions for using nomnoml within Shiny applications and interactive Rmd documents.

Usage

```
nomnomlOutput(outputId, width = "100%", height = "400px")
```

```
renderNomnoml(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a nomnoml
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

Index

`nomnoml`, [2](#)
`nomnoml-shiny`, [5](#)
`nomnomlOutput` (`nomnoml-shiny`), [5](#)
`renderNomnoml` (`nomnoml-shiny`), [5](#)