

Package ‘equatags’

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Type Package

Title Equations to 'XML'

Version 0.1.1

Description Provides function `transform_mathjax()` to transform equations defined using 'MathML', 'LaTeX' or 'ASCIIMathML' notation into format 'SVG' or 'Office Open XML Math'. The 'XML' result can then be included in 'HTML', 'Microsoft Word' documents or 'Microsoft PowerPoint' presentations by using a 'Markdown' document or the R package 'officer'.

BugReports <https://github.com/ardata-fr/equatags/issues>

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Encoding UTF-8

RoxygenNote 7.1.1

Depends R (>= 4.0.0)

Imports xml2, xslt, locatexexec, tools

SystemRequirements Node.js

NeedsCompilation no

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mathjax_available	<i>Is 'mathjax-node' available</i>
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Description

Checks if 'mathjax-node' is available.

'mathjax-node' can be installed with command `mathjax_install()` and can be removed with command `mathjax_uninstall()`.

Usage

```
mathjax_available()
```

Value

a single logical value.

See Also

Other tools for 'mathjax-node': `mathjax_install()`, `mathjax_uninstall()`

Examples

```
mathjax_available()
```

mathjax_install	<i>Install 'mathjax-node'</i>
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Description

Downloads and installs 'mathjax-node' (APIs to call MathJax from node.js programs) in the user-specific data directory managed with `R_user_dir()`.

Please note that the total size of the downloaded files is about 70 MB.

This data directory can be removed from the computer with command `mathjax_uninstall()`.

Usage

```
mathjax_install(force = FALSE, verbose = TRUE)
```

Arguments

force	Whether to force to install (override) 'mathjax-node'.
verbose	should a log be printed in the console, default to TRUE.

Value

a single logical value, FALSE if the operation failed, TRUE otherwise.

See Also

Other tools for 'mathjax-node': [mathjax_available\(\)](#), [mathjax_uninstall\(\)](#)

Examples

```
library(locatexec)
if(exec_available("node") && !mathjax_available()){
  mathjax_install()
  mathjax_uninstall()
}
```

mathjax_uninstall	<i>Uninstall 'mathjax-node'</i>
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Description

Removes 'mathjax-node'.

Usage

```
mathjax_uninstall()
```

Value

a single logical value, FALSE if the operation failed, TRUE otherwise.

See Also

Other tools for 'mathjax-node': [mathjax_available\(\)](#), [mathjax_install\(\)](#)

Other tools for 'mathjax-node': [mathjax_available\(\)](#), [mathjax_install\(\)](#)

Examples

```
library(locatexec)

if(exec_available("npm") &&
  mathjax_available()) {
  mathjax_uninstall()
  mathjax_install()
}
```

transform_mathjax *'MathJax' equation as 'SVG' or 'MathML'.*

Description

Get 'SVG' or 'MathML' XML codes corresponding to the rendering of 'MathJax' equations.

This function can only be used if the command `mathjax_install()` has been executed once (it installs a set of "npm" packages on your machine).

Usage

```
transform_mathjax(x, to = "svg")
```

Arguments

x	MathJax equations
to	output format, one of 'svg' or 'mml'

Value

a character vector that contains 'svg' or 'mml' codes corresponding to the equations.

Examples

```
library(locatexec)
if(exec_available("node") && mathjax_available()){
  x <- c("(ax^2 + bx + c = 0)",
        "x = {-b \pm \sqrt{b^2-4ac} \over 2a}.")
  z <- transform_mathjax(x = x, to = "svg")
  cat(z, sep = "\n\n")
  z <- transform_mathjax(x = x, to = "mml")
  cat(z, sep = "\n\n")
}
```

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