

Package ‘mathpix’

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Title Support for the 'Mathpix' API (Image to 'LaTeX')

Version 0.6.0

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Description Given an image of a formula (typeset or handwritten) this package provides calls to the 'Mathpix' service to produce the 'LaTeX' code which should generate that image, and pastes it into a (e.g. an 'rmarkdown') document. See <<https://docs.mathpix.com/>> for full details. 'Mathpix' is an external service and use of the API is subject to their terms and conditions.

Depends R (>= 3.3.0)

License GPL (>= 3)

Encoding UTF-8

URL <https://github.com/jonocarroll/mathpix>

BugReports <https://github.com/jonocarroll/mathpix/issues>

Suggests testthat, covr

RoxygenNote 7.2.1

Imports purrr, base64enc, httr, rstudioapi, magick, utils

NeedsCompilation no

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credentials	<i>Detect mathpix credentials</i>
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Description

Checks environmental variables for MATHPIX_APP_ID and MATHPIX_APP_KEY values.

Usage

```
credentials()
```

Value

a list of detected credentials (or this package's credentials)

get_api_key	<i>Get a mathpix API key</i>
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Description

Get a mathpix API key

Usage

```
get_api_key()
```

Value

NULL (invisibly). Used for the side-effect of opening a browser.

mathpix	<i>Convert an image of an equation to a 'LaTeX' expression</i>
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Description

Given an image file location, mathpix performs the relevant transformations and send the data to the 'Mathpix' API, which returns a 'LaTeX' expression which should generate the typeset equation/expression in that image. When using 'RStudio', the resulting 'LaTeX' expression is automatically inserted into the current rmarkdown document.

Usage

```
mathpix(img, insert = TRUE, retry = FALSE)
```

Arguments

img	image to be converted to LaTeX
insert	Should the resulting LaTeX block be inserted into the document (default: TRUE)
retry	If Mathpix is not able to process the image, should we try again with a re-processed image?

Details

You must save your own API key in your environment (e.g. ~/.Renviron) with the identifiers MATHPIX_APP_ID and MATHPIX_APP_KEY. This can be tested with `mathpix::credentials()`.

Value

(invisibly) the rmarkdown LaTeX equation block

References

<https://mathpix.com/>

render_latex	<i>Convert a 'LaTeX' expression to an image (render)</i>
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Description

This calls `tex_preview` to render a 'LaTeX' expression into an image, either as a temporary file or saved to disk.

Usage

```
render_latex(latex, fileDir = NULL, ...)
```

Arguments

latex	'LaTeX' code to be evaluated. Surround in \$ or \$\$.
fileDir	directory in which to save the image to (defaults to <code>'tmp/tempfile()'</code>).
...	other options to pass to <code>tex_preview</code> .

Value

NULL (invisibly)

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