## 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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**Repository** CRAN

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credentials

#### 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

Get a mathpix API key

#### Description

Get a mathpix API key

#### Usage

get\_api\_key()

#### Value

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

mathpix

Convert an image of an equation to a 'LaTeX' expression

#### 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)

#### render\_latex

#### 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

Convert a 'LaTeX' expression to an image (render)

#### 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 '/tmp/tempfile()').
	other options to pass to tex_preview.

#### Value

NULL (invisibly)

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