## Package: renderthis (via r-universe)

August 31, 2024

**Title** Render Slides to Different Formats

Version 0.2.1

**Description** Render slides to different formats, including 'html', 'pdf', 'png', 'gif', 'pptx', and 'mp4', as well as a 'social' output, a 'png' of the first slide re-sized for sharing on social media.

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URL https://jhelvy.github.io/renderthis/,
 https://github.com/jhelvy/renderthis

BugReports https://github.com/jhelvy/renderthis/issues

**Depends** R (>= 3.4.0)

**Imports** cli (>= 3.0.0), digest, fs, jsonlite, magick (>= 2.7.1), pagedown, progress, quarto, rmarkdown, withr, xaringan, zip

**Suggests** av, chromote, knitr, lifecycle, officer, pdftools, testthat (>= 3.0.0), webshot2

Config/testthat/edition 3

Config/Needs/website xaringanExtra

**Encoding UTF-8** 

RoxygenNote 7.2.1

**Roxygen** list(markdown = TRUE)

VignetteBuilder knitr

Repository https://gadenbuie.r-universe.dev

**RemoteUrl** https://github.com/jhelvy/renderthis

RemoteRef main

RemoteSha b7223e165b7bb11f074922c86bf6563164b4f169

2 build\_all

## **Contents**

build_all	•	•	•	•	•	•	•	•	•	٠	٠	•	•	٠	٠	٠	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•		•	٠
to_gif .																																					
to_html																																					
to_mp4																																					
to_pdf .																																					
to_png .																																					
to_pptx																																					
to_social																													 								

12

build\_all

Index

Build slides to multiple outputs.

## Description

## [Deprecated]

Build slides to multiple outputs. Options are "html", "social" "pdf", "png", "gif", "mp4", and "pptx". See each individual build\_\*() function for details about each output type.

## Usage

```
build_all(
  input,
  include = c("html", "social", "pdf", "png", "gif", "mp4", "pptx"),
  exclude = NULL,
  complex_slides = FALSE,
  partial_slides = FALSE,
  delay = 1,
  density = 100,
  slides = "all",
  fps = 1
)
```

#### **Arguments**

```
    input Path to an .Rmd or .qmd file of slides.
    include A vector of the different output types to build. Options are "html", "social", "pdf", "png", "gif", "mp4", and "pptx". Defaults to c("html", "social", "pdf", "png", "gif", "mp4", "pptx").
    exclude A vector of the different output types to NOT build. Options are "html", "social", "pdf", "png", "gif", "mp4", and "pptx". Defaults to NULL, in which case all all output types are built.
```

to\_gif

complex_slides	For "complex" slides (e.g. slides with panelsets or other html widgets or advanced features), set complex_slides = TRUE. Defaults to FALSE. This will use the chromote package to iterate through the slides at a pace set by the delay argument. Requires a local installation of Chrome.
partial_slides	Should partial (continuation) slides be included in the output? If FALSE, the default, only the complete slide is included in the PDF.
delay	Seconds of delay between advancing to and printing a new slide. Only used if complex_slides = TRUE or partial_slides = TRUE.
density	Resolution of the resulting PNGs in each slide file. Defaults to 100.
slides	A numeric or integer vector of the slide number(s) to render as PNG files , or one of "all", "first", or "last". Negative integers select which slides <i>not</i> to include. If more than one slide are included, PNGs will be returned as a ZIP file. Defaults to "all", in which case all slides are included.
fps	Frames per second of the resulting .mp4 file.

## Value

Builds slides to multiple output formats.

## **Examples**

```
if (interactive()) {
    # Both of these build html and pdf outputs
    # (PDF outputs require Google Chrome for {pagedown})
    with_example("slides.Rmd", requires_chrome = TRUE, {
        build_all("slides.Rmd", include = c("html", "pdf"))
    })
}
```

 $to\_gif$ 

Render slides as a GIF file.

## Description

Render slides as a GIF video file. The function renders to the PDF, converts each slide in the PDF to a PNG, and then converts the deck of PNG files to a GIF file.

## Usage

```
to_gif(
  from,
  to = NULL,
  density = 100,
  slides = "all",
  fps = 1,
  complex_slides = FALSE,
```

4 to\_html

```
partial_slides = FALSE,
  delay = 1,
  keep_intermediates = FALSE
)
```

#### **Arguments**

from Path to an .Rmd, .qmd, .html, .pdf file, or a URL. If from is a URL to slides on

a website, you must provide the full URL ending in ".html".

to Name of the output .gif file.

density Resolution of the resulting PNGs in each slide file. Defaults to 100.

slides A numeric or integer vector of the slide number(s) to include in the GIF, or

one of "all", "first", or "last". Negative integers select which slides not to

include. Defaults to "all", in which case all slides are included.

fps Frames per second in the animated GIF.

complex\_slides For "complex" slides (e.g. slides with panelsets or other html widgets or ad-

vanced features), set complex\_slides = TRUE. Defaults to FALSE. This will use the chromote package to iterate through the slides at a pace set by the delay

argument. Requires a local installation of Chrome.

partial\_slides Should partial (continuation) slides be included in the output? If FALSE, the

default, only the complete slide is included in the PDF.

delay Seconds of delay between advancing to and printing a new slide. Only used if

complex\_slides = TRUE or partial\_slides = TRUE.

keep\_intermediates

Should we keep the intermediate files used to render the final output? The de-

fault is FALSE.

#### Value

Slides are rendered as a .gif file.

#### **Examples**

```
with_example("slides.Rmd", requires_chrome = TRUE, {
    # Render gif from Rmd, html, pdf, or direct URL
    to_gif("slides.Rmd")
})
```

to\_html

Render slides as html file.

#### **Description**

Render xaringan or Quarto slides as an html file. In generally, it is the same thing as rmarkdown::render() or quarto::quarto\_render() except that the self\_contained option is forced to TRUE if the HTML file is built into a directory other than the one containing from.

to\_mp4 5

#### Usage

```
to_html(from, to = NULL, self_contained = FALSE, render_args = NULL)
```

#### **Arguments**

from Path to an . Rmd or . gmd file.

to The name of the output file. If using NULL then the output file name will be based

on file name for the from file. If a file name is provided, a path to the output file

can also be provided.

self\_contained Should the output file be a self-contained HTML file where all images, CSS

and JavaScript are included directly in the output file? This option, when TRUE, provides you with a single HTML file that you can share with others, but it may be very large. This feature is enabled by default when the to file is written in a

directory other than the one containing the from R Markdown file.

render\_args A list of arguments passed to rmarkdown::render() or quarto::quarto\_render().

#### Value

Slides are rendered as an .html file.

#### **Examples**

```
with_example("slides.Rmd", {
    # Render html from Rmd file
    to_html("slides.Rmd")
})
```

to\_mp4

Render slides as an MP4 video file.

#### Description

Render slides as an MP4 video file. The function renders to the pdf, converts each slide in the pdf to a png, and then converts the deck of png files to a MP4 video file.

## Usage

```
to_mp4(
  from,
  to = NULL,
  density = 100,
  slides = "all",
  fps = 1,
  complex_slides = FALSE,
  partial_slides = FALSE,
  delay = 1,
  keep_intermediates = FALSE
)
```

to\_pdf

#### **Arguments**

from Path to an .Rmd, .qmd, .html, .pdf file, or a URL. If from is a URL to slides on a website, you must provide the full URL ending in ".html". to Name of the output .mp4 file. density Resolution of the resulting PNGs in each slide file. Defaults to 100. slides A numeric or integer vector of the slide number(s) to include in the mp4, or one of "all", "first", or "last". Negative integers select which slides not to include. Defaults to "all", in which case all slides are included. Frames per second of the resulting .mp4 file. fps complex\_slides For "complex" slides (e.g. slides with panelsets or other html widgets or advanced features), set complex\_slides = TRUE. Defaults to FALSE. This will use the chromote package to iterate through the slides at a pace set by the delay argument. Requires a local installation of Chrome. partial\_slides Should partial (continuation) slides be included in the output? If FALSE, the default, only the complete slide is included in the PDF. delay Seconds of delay between advancing to and printing a new slide. Only used if complex\_slides = TRUE or partial\_slides = TRUE.

keep\_intermediates

Should we keep the intermediate files used to render the final output? The default is FALSE.

#### Value

Slides are rendered as an .mp4 file.

## **Examples**

```
with_example("slides.Rmd", requires_chrome = TRUE, requires_packages = "av", {
    # Render mp4 from Rmd, html, pdf, or direct URL
    to_mp4("slides.Rmd")
})
```

to\_pdf

Render slides as PDF file.

#### **Description**

Render slides as a PDF file. Requires a local installation of Chrome. If you set complex\_slides = TRUE or partial\_slides = TRUE, you will also need to install the chromote and pdftools packages.

to\_pdf

#### Usage

```
to_pdf(
  from,
  to = NULL,
  complex_slides = FALSE,
  partial_slides = FALSE,
  delay = 1,
  keep_intermediates = NULL
)
```

#### **Arguments**

from Path to an .Rmd, .qmd, .html file, or a URL. If from is a URL to slides on a

website, you must provide the full URL ending in ".html".

to The name of the output .pdf file. If NULL (the default) then the output filename

will be based on filename for the from file. If a filename is provided, a path to  $% \left\{ 1\right\} =\left\{ 1\right\} =$ 

the output file can also be provided.

complex\_slides For "complex" slides (e.g. slides with panelsets or other html widgets or ad-

vanced features), set complex\_slides = TRUE. Defaults to FALSE. This will use the chromote package to iterate through the slides at a pace set by the delay

argument. Requires a local installation of Chrome.

partial\_slides Should partial (continuation) slides be included in the output? If FALSE, the

default, only the complete slide is included in the PDF.

delay Seconds of delay between advancing to and printing a new slide. Only used if

complex\_slides = TRUE or partial\_slides = TRUE.

keep\_intermediates

Should we keep the intermediate HTML file? Only relevant if the from file is an .Rmd file. Default is TRUE if the to file is written into the same directory as the

from argument, otherwise the intermediate file isn't kept.

## Value

Slides are rendered as a .pdf file.

## **Examples**

```
with_example("slides.Rmd", requires_chrome = TRUE, {
    # Render pdf from Rmd, html, or direct URL
    to_pdf("slides.Rmd")
})
```

8 to\_png

to\_png

Render slides as PNG file(s).

## **Description**

Render PNG image(s) of slides. The function renders to the PDF and then converts it into PNG files of each slide. The slide numbers defined by the slides argument are saved (defaults to 1, returning only the title slide). If length(slides) > 1, it will return the PNG files in a ZIP file. You can also get a ZIP file of all the slides as PNGs by setting slides = "all").

## Usage

```
to_png(
  from,
  to = NULL,
  density = 100,
  slides = 1,
  complex_slides = FALSE,
  partial_slides = FALSE,
  delay = 1,
  keep_intermediates = FALSE)
```

## Arguments

from	Path to an .Rmd, .qmd, .html, .pdf file, or a URL. If from is a URL to slides on
------	--

a website, you must provide the full URL ending in ".html".

to Name of the output .png or .zip file.

density Resolution of the resulting PNGs in each slide file. Defaults to 100.

slides A numeric or integer vector of the slide number(s) to render as PNG files , or

one of "all", "first", or "last". Negative integers select which slides *not* to include. If more than one slide are included, PNGs will be returned as a ZIP file.

Defaults to "all", in which case all slides are included.

complex\_slides For "complex" slides (e.g. slides with panelsets or other html widgets or ad-

vanced features), set complex\_slides = TRUE. Defaults to FALSE. This will use the chromote package to iterate through the slides at a pace set by the delay

argument. Requires a local installation of Chrome.

partial\_slides Should partial (continuation) slides be included in the output? If FALSE, the

default, only the complete slide is included in the PDF.

delay Seconds of delay between advancing to and printing a new slide. Only used if

complex\_slides = TRUE or partial\_slides = TRUE.

keep\_intermediates

Should we keep the intermediate files used to render the final output? The default is FALSE.

to\_pptx 9

## Value

Slides are rendered as a .png file (single) or .zip file of multiple .png files.

## **Examples**

```
with_example("slides.Rmd", requires_chrome = TRUE, {
    # By default a png of only the first slide is built
    to_png("slides.Rmd", keep_intermediates = TRUE)

# or render a zip file of multiple or all slides (`slides = "all"`)
    to_png("slides.pdf", slides = c(1, 3, 5))
})
```

to\_pptx

Render slides as a PowerPoint file.

## Description

Render slides as a .pptx file. The function renders to the PDF and then converts it into PNG images that are inserted on each slide in the PowerPoint file.

## Usage

```
to_pptx(
  from,
  to = NULL,
  density = 100,
  slides = "all",
  complex_slides = FALSE,
  partial_slides = FALSE,
  delay = 1,
  keep_intermediates = FALSE,
  ratio = NULL
)
```

## **Arguments**

from	Path to an .Rmd, .qmd, .html, .pdf file, or a URL. If from is a URL to slides on a website, you must provide the full URL ending in ".html".
to	Name of the output .pptx file.
density	Resolution of the resulting PNGs in each slide file. Defaults to 100.
slides	A numeric or integer vector of the slide number(s) to include in the pptx, or one of "all", "first", or "last". Negative integers select which slides <i>not</i> to include. Defaults to "all", in which case all slides are included.

to\_social

complex\_slides For "complex" slides (e.g. slides with panelsets or other html widgets or advanced features), set complex\_slides = TRUE. Defaults to FALSE. This will use the chromote package to iterate through the slides at a pace set by the delay argument. Requires a local installation of Chrome.

partial\_slides Should partial (continuation) slides be included in the output? If FALSE, the default, only the complete slide is included in the PDF.

delay Seconds of delay between advancing to and printing a new slide. Only used if complex\_slides = TRUE or partial\_slides = TRUE.

keep\_intermediates

Should we keep the intermediate files used to render the final output? The de-

fault is FALSE.

ratio PowerPoint slides ratio. Possible values are "4:3", "16:9". Default to NULL,

meaning it will be guessed frm the slides.

#### Value

Slides are rendered as a pptx file.

## **Examples**

```
with_example("slides.Rmd", requires_chrome = TRUE, requires_packages = "officer", {
    # Render pptx from Rmd, html, pdf, or direct URL
    to_pptx("slides.Rmd")
})
```

to\_social

Render png image of first slide sized for social media sharing.

## **Description**

Render png image of first slide for sharing on social media. Requires a local installation of Chrome as well as the webshot2 package: remotes::install\_github("rstudio/webshot2").

#### Usage

```
to_social(from, to = NULL)
```

#### **Arguments**

from Path to Rmd file of input media (e.g., xaringan slides).

The name of the output file. If using NULL then the output filename will be

based on filename for the from file. If a filename is provided, a path to the

output file can also be provided.

#### Value

Slides are rendered as a png file.

to\_social 11

## **Examples**

```
if (interactive()) {
    with_example("slides.Rmd", requires_chrome = TRUE, requires_packages = "webshot2", {
        # Render png image of first slide from Rmd file
        # sized for sharing on social media
        to_social("slides.Rmd")
    })
}
```

# **Index**

```
build_all, 2
quarto::quarto_render(), 4, 5
rmarkdown::render(), 4, 5

to_gif, 3
to_html, 4
to_mp4, 5
to_pdf, 6
to_png, 8
to_pptx, 9
to_social, 10
```