

Package ‘metathis’

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Title HTML Metadata Tags for 'R Markdown' and 'Shiny'

Version 1.0.2

Description Create meta tags for 'R Markdown' HTML documents and 'Shiny' apps for customized social media cards, for accessibility, and quality search engine indexing. 'metathis' currently supports HTML documents created with 'rmarkdown', 'shiny', 'xaringan', 'pagedown', 'bookdown', and 'flexdashboard'.

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URL <https://github.com/gadenbuie/metathis>

BugReports <https://github.com/gadenbuie/metathis/issues>

Imports htmltools, knitr, magrittr, purrr

Suggests rmarkdown, shiny, testthat (>= 2.1.0)

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include_meta	<i>Include Metadata Tags in HTML Document</i>
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Description

Use `include_meta()` to explicitly declare the `meta()` tags as an HTML dependency. In general, this is not required when knitting to an HTML document. This function explicitly attaches an `htmltools::htmlDependency()` and may work in some unusual cases.

Usage

```
include_meta(.meta)
```

Arguments

<code>.meta</code>	A meta object created by <code>meta()</code> or <code>as_meta()</code> , or returned by a <code>meta_*</code> () object.
--------------------	--

Value

An `htmltools::htmlDependency()` containing the metadata tags to be included in the `<head>` of the HTML document.

See Also

Other meta_actions: `write_meta()`

Examples

```
meta() %>%
  meta_name("github-repo" = "gadenbuie/metathis") %>%
  include_meta()
```

meta

Initialize a List of HTML Metadata Tags

Description

Initialize a *metathis* object (i.e. a list of HTML metadata tags), test if an object is a *metathis* object, or coerce a list of meta tags to be a *metathis* object.

Usage

```
meta()
```

```
is_meta(x)
```

```
as_meta(x)
```

Arguments

x A list or metathis object

Value

A meta object, or a set of <meta> HTML tags inside an HTML <head> tag. For use in `rmarkdown::html_document()`, `shiny::runApp()`, or other HTML locations.

Functions

- `is_meta`: Test if an objects is a *metathis* object
- `as_meta`: Convert a list of meta tags into a *metathis* object.

See Also

Other meta: `meta_apple_itunes_app()`, `meta_apple_web_app()`, `meta_general()`, `meta_geo()`, `meta_name()`, `meta_social()`, `meta_tag()`, `meta_viewport()`

Examples

```
meta() %>%
  meta_viewport() %>%
  is_meta()

list_of_meta_tags <- list(
  htmltools::tags$meta(github = "gadenbuie"),
  htmltools::tags$meta(twitter = "grrrck")
)

as_meta(list_of_meta_tags)
```

meta_apple_itunes_app *Apple Smart Banner Meta Tag*

Description

Apple Smart Banner Meta Tag

Usage

```
meta_apple_itunes_app(.meta = meta(), app_id = NULL, affiliate_id = NULL, ...)
```

Arguments

.meta	A meta object created by meta() or as_meta() , or returned by a <code>meta_*</code> () object.
app_id	Apple app ID
affiliate_id	Apple affiliate ID
...	Additional name=value pairs.

Value

A meta object, or a set of <meta> HTML tags inside an HTML <head> tag. For use in [rmarkdown::html_document\(\)](#), [shiny::runApp\(\)](#), or other HTML locations.

Example

```
# <!-- Smart App Banner -->
<meta name="apple-itunes-app" content="app-id=APP_ID,affiliate-data=AFFILIATE_ID,app-argument=SOME_T
```

See Also

Other meta: [meta_apple_web_app\(\)](#), [meta_general\(\)](#), [meta_geo\(\)](#), [meta_name\(\)](#), [meta_social\(\)](#), [meta_tag\(\)](#), [meta_viewport\(\)](#), [meta\(\)](#)

meta_apple_web_app *Apple Web App Meta Tags*

Description

Apple Web App Meta Tags

Usage

```
meta_apple_web_app(
  .meta = meta(),
  title = NULL,
  capable = NULL,
  status_bar_style = c("default", "black", "black-translucent")
)
```

Arguments

<code>.meta</code>	A meta object created by <code>meta()</code> or <code>as_meta()</code> , or returned by a <code>meta_*</code> () object.
<code>title</code>	Launch Icon Title
<code>capable</code>	Enables standalone (full-screen) mode if TRUE
<code>status_bar_style</code>	Status bar appearance. has no effect unless standalone more is enabled (see <code>capable</code>). "If content is set to default, the status bar appears normal. If set to black, the status bar has a black background. If set to black-translucent, the status bar is black and translucent. If set to default or black, the web content is displayed below the status bar. If set to black-translucent, the web content is displayed on the entire screen, partially obscured by the status bar. The default value is default."

Value

A meta object, or a set of <meta> HTML tags inside an HTML <head> tag. For use in `rmarkdown::html_document()`, `shiny::runApp()`, or other HTML locations.

References

<https://developer.apple.com/library/archive/documentation/AppleApplications/Reference/SafariHTMLRef/Articles/MetaTags.html>

See Also

Other meta: `meta_apple_itunes_app()`, `meta_general()`, `meta_geo()`, `meta_name()`, `meta_social()`, `meta_tag()`, `meta_viewport()`, `meta()`

Examples

```
meta() %>%
  meta_apple_web_app(
    title = "My Fancy App",
    capable = TRUE,
    status_bar_style = "black-translucent"
  )
```

 meta_general

 General Metadata Tags

Description

Generate metadata tags for general website properties.

Usage

```

meta_general(
    .meta = meta(),
    application_name = NULL,
    theme_color = NULL,
    description = NULL,
    robots = NULL,
    generator = NULL,
    subject = NULL,
    rating = NULL,
    referrer = NULL
)

meta_description(.meta = meta(), description)

meta_subject(.meta = meta(), subject)

meta_referrer(.meta = meta(), referrer)

meta_robots(.meta = meta(), robots)

meta_theme_color(.meta = meta(), theme_color)

```

Arguments

.meta	A meta object created by <code>meta()</code> or <code>as_meta()</code> , or returned by a <code>meta_*</code> () object.
application_name	Name of web application (only should be used if the website is used as an app).
theme_color	Theme Color for Chrome, Firefox OS and Opera, e.g. "#00589a".
description	Short description of the document (limit to 150 characters), This content <i>may</i> be used as a part of search engine results.
robots	Control the behavior of search engine crawling and indexing, e.g. "index, follow". Valid names are "index", "noindex", "follow", "nofollow". May be a vector or a single string with comma-separated values. See https://www.robotstxt.org/meta.html for more information.
generator	Identify the software used to build the document (i.e. - WordPress, Dreamweaver).

subject	Short description of your document's subject.
rating	Gives a general age rating based on the document's content, e.g. "General".
referrer	Allows control over how referrer information is passed, e.g. "no-referrer". Valid values include "no-referrer", "no-referrer-when-downgrade", "same-origin", "origin", "strict-origin", "origin-when-cross-origin", "strict-origin-when-cross-origin" or "unsafe-url".

Value

A meta object, or a set of <meta> HTML tags inside an HTML <head> tag. For use in `rmarkdown::html_document()`, `shiny::runApp()`, or other HTML locations.

See Also

Other meta: `meta_apple_itunes_app()`, `meta_apple_web_app()`, `meta_geo()`, `meta_name()`, `meta_social()`, `meta_tag()`, `meta_viewport()`, `meta()`

Examples

```
meta() %>%
  meta_general(
    application_name = "Application Name",
    theme_color = "#4285f4",
    description = "A description of this page",
    robots = "index, follow",
    generator = "R-Shiny",
    subject = "Awesome R projects",
    rating = "General",
    referrer = "no-referrer"
  )
```

 meta_geo

Geotagging Metadata Tags

Description

Geotagging Metadata Tags

Usage

```
meta_geo(
  .meta = meta(),
  icbm = NULL,
  geo_position = NULL,
  geo_region = NULL,
  geo_placename = NULL,
  ...
)
```

Arguments

<code>.meta</code>	A meta object created by <code>meta()</code> or <code>as_meta()</code> , or returned by a <code>meta_*</code> () object.
<code>icbm</code>	Latitude and longitude of geographic positions specified as "lat, long". Can optionally be a length-two vector, i.e. <code>c(lat, long)</code> .
<code>geo_position</code>	Latitude and longitude of geographic positions specified as "lat; long". Can optionally be a length-two vector, i.e. <code>c(lat, long)</code> .
<code>geo_region</code>	Name of the geographic region related to the page content, specified using ISO-3166 2-character country code and 2-character national subdivision. Example: "US-NY".
<code>geo_placename</code>	Name of the geographic place related to the page content. Example: "Atlanta, Georgia".
<code>...</code>	Additional geotagging metadata keyword and value pairs, such as <code>geo.country</code> , <code>geo.a1</code> , ..., <code>geo.a3</code> , etc. Underscores in the keyword will be converted to periods, so you can also specify <code>geo_country</code> in place of <code>geo.country</code> .

Value

A meta object, or a set of `<meta>` HTML tags inside an HTML `<head>` tag. For use in `rmarkdown::html_document()`, `shiny::runApp()`, or other HTML locations.

References

[ICBM on Wikipedia](#), [Geotagging on Wikipedia](#)

See Also

Other meta: `meta_apple_itunes_app()`, `meta_apple_web_app()`, `meta_general()`, `meta_name()`, `meta_social()`, `meta_tag()`, `meta_viewport()`, `meta()`

Examples

```
meta() %>%
  meta_geo(
    icbm = c(50.167958, -97.133185),
    geo_position = c(50.167958, -97.133185),
    geo_placename = "Manitoba, Canada",
    geo_region = "ca-mb"
  )
```

meta_name	<i>Create name/content metadata tag pairs</i>
-----------	---

Description

Creates metadata tag pairs where the arguments are the name values and their values are content values.

Usage

```
meta_name(.meta = meta(), ...)
```

Arguments

.meta	A meta object created by meta() or as_meta() , or returned by a <code>meta_*</code> () object.
...	Name (argument names) and content (argument value) pairs.

Value

A meta object, or a set of `<meta>` HTML tags inside an HTML `<head>` tag. For use in [rmarkdown::html_document\(\)](#), [shiny::runApp\(\)](#), or other HTML locations.

See Also

Other meta: [meta_apple_itunes_app\(\)](#), [meta_apple_web_app\(\)](#), [meta_general\(\)](#), [meta_geo\(\)](#), [meta_social\(\)](#), [meta_tag\(\)](#), [meta_viewport\(\)](#), [meta\(\)](#)

Examples

```
meta() %>%
  meta_name("github-repo" = "hadley/r4ds")
```

meta_social	<i>Social Media Metadata</i>
-------------	------------------------------

Description

Generate metadata tags for social media cards.

Usage

```

meta_social(
  .meta = meta(),
  title = NULL,
  url = NULL,
  image = NULL,
  image_alt = NULL,
  image_width = NULL,
  image_height = NULL,
  description = NULL,
  twitter_card_type = c("summary", "summary_large_image", "app", "player"),
  twitter_creator = NULL,
  twitter_site = twitter_creator,
  og_type = "website",
  og_locale = "en_US",
  og_author = NULL,
  og_site_name = NULL,
  facebook_app_id = NULL,
  disable_pinterest = FALSE
)

```

Arguments

<code>.meta</code>	A meta object created by <code>meta()</code> or <code>as_meta()</code> , or returned by a <code>meta_*</code> () object.
<code>title</code>	Content title
<code>url</code>	Content URL
<code>image</code>	Image url for card.
<code>image_alt</code>	A description of what's in the image (not a caption)
<code>image_width</code>	The width of the image in pixels
<code>image_height</code>	The height of the image in pixels
<code>description</code>	Content description. If you have already used <code>meta_general()</code> to set the content's description, that description will automatically be used.
<code>twitter_card_type</code>	One of "summary", "summary_large_image", "app", or "player".
<code>twitter_creator</code>	@username for the content creator / author.
<code>twitter_site</code>	@username for the website used in the card footer. <code>twitter_creator</code> is used by default.
<code>og_type</code>	Open Graph card type, default is "website". Other common options include "article", "book", or "profile". The full list of valid options can be referenced at https://ogp.me/
<code>og_locale</code>	The locale these tags are marked up in. Of the format language_TERRITORY. Default is "en_US".

og_author	Writers of the article. Multiple authors may be specified in a vector of character strings.
og_site_name	The name of the site hosting the content
facebook_app_id	The Facebook app ID. See the Facebook Open Graph Markup page for more information.
disable_pinterest	If TRUE, adds a metadata tag disabling pins from your website. See the Pinterest help center for more information.

Value

A meta object, or a set of <meta> HTML tags inside an HTML <head> tag. For use in `rmarkdown::html_document()`, `shiny::runApp()`, or other HTML locations.

References

- [Open Graph](#)
- [Google Structured Data Testing Tool](#)
- [Facebook Sharing Debugger](#)
- [Twitter Card Documentation](#)
- [Twitter Card Validator](#)

See Also

Other meta: `meta_apple_itunes_app()`, `meta_apple_web_app()`, `meta_general()`, `meta_geo()`, `meta_name()`, `meta_tag()`, `meta_viewport()`, `meta()`

Examples

```
meta() %>%
  meta_social(
    title = "R for Data Science",
    description = "This book with teach you how to do data science with R",
    url = "https://r4ds.had.co.nz",
    image = "https://r4ds.had.co.nz/cover.png",
    image_alt = "The cover of the R4DS book",
    og_type = "book",
    og_author = c("Garrett Golemund", "Hadley Wickham"),
    twitter_card_type = "summary",
    twitter_creator = "@hadley"
  )
```

meta_tag	<i>Create a metadata tag for attribute/value pairs</i>
----------	--

Description

Creates a <meta> tag for attribute value pairs, where argument names correspond to attribute names.

Usage

```
meta_tag(.meta = meta(), ...)
```

Arguments

.meta	A meta object created by meta() or as_meta() , or returned by a meta_*(<i>)</i> object.
...	Attribute names and values as attribute = value. Values must be a single character string.

Value

A meta object, or a set of <meta> HTML tags inside an HTML <head> tag. For use in [rmarkdown::html_document\(\)](#), [shiny::runApp\(\)](#), or other HTML locations.

See Also

Other meta: [meta_apple_itunes_app\(\)](#), [meta_apple_web_app\(\)](#), [meta_general\(\)](#), [meta_geo\(\)](#), [meta_name\(\)](#), [meta_social\(\)](#), [meta_viewport\(\)](#), [meta\(\)](#)

Examples

```
meta() %>%
  meta_tag(
    "http-equiv" = "Content-Security-Policy",
    content = "default-src 'self'"
  )
```

meta_viewport	<i>Viewport Meta Tag</i>
---------------	--------------------------

Description

Create or add a viewport meta tag.

Usage

```
meta_viewport(
  .meta = meta(),
  width = "device-width",
  initial_scale = "1",
  orientation = c("auto", "portrait", "landscape"),
  min_width = NULL,
  max_width = NULL,
  height = NULL,
  min_height = NULL,
  max_height = NULL,
  minimum_scale = NULL,
  maximum_scale = NULL,
  user_scalable = NULL,
  ...
)
```

Arguments

<code>.meta</code>	A meta object created by <code>meta()</code> or <code>as_meta()</code> , or returned by a <code>meta_*</code> () object.
<code>width</code>	Sets the width of initial viewport. <code>width</code> sets <code>min_width</code> and <code>max_width</code> and may contain two values; for example, the following are equivalent: <code>"300px 500px"</code> or <code>c("300px", "500px")</code> . The values may be a number with units, a percentage, or <code>"device-width"</code> . Pixels are assumed if no units are provided.
<code>initial_scale</code>	Initial scale
<code>orientation</code>	One of <code>"auto"</code> , <code>"portrait"</code> , <code>"landscape"</code> .
<code>min_width</code> , <code>max_width</code>	Minimum and maximum initial viewport width. See <code>width</code> for more information. <code>width</code> is ignored if <code>min_width</code> or <code>max_width</code> are set.
<code>height</code> , <code>min_height</code> , <code>max_height</code>	Sets height of initial viewport. Follows the same conventions as <code>width</code> , <code>min_width</code> , and <code>max_width</code> .
<code>minimum_scale</code>	Minimum scale
<code>maximum_scale</code>	Maximum scale
<code>user_scalable</code>	User scalable
<code>...</code>	Additional name/value pairs

Value

A meta object, or a set of `<meta>` HTML tags inside an HTML `<head>` tag. For use in `rmarkdown::html_document()`, `shiny::runApp()`, or other HTML locations.

References

[MDN: Viewport Meta Tag, W3C Viewport Meta Element Specification](#)

See Also

Other meta: [meta_apple_itunes_app\(\)](#), [meta_apple_web_app\(\)](#), [meta_general\(\)](#), [meta_geo\(\)](#), [meta_name\(\)](#), [meta_social\(\)](#), [meta_tag\(\)](#), [meta\(\)](#)

Examples

```
meta() %>%
  meta_viewport()

meta() %>%
  meta_viewport(orientation = NULL)

meta() %>%
  meta_viewport(maximum_scale = 1)
```

 write_meta

Write Metadata Tags to a File

Description

Write your metadata tags to an HTML file that can be manually included in your page.

Usage

```
write_meta(.meta, path = "meta.html", append = FALSE)
```

Arguments

.meta	A meta object created by meta() or as_meta() , or returned by a meta_*(<i>)</i> object.
path	The file to write into, defaults to "meta.html".
append	logical. Only used if the argument file is the name of file (and not a connection or " cmd"). If TRUE output will be appended to file; otherwise, it will overwrite the contents of file.

Value

Returns .meta invisibly.

See Also

Other meta_actions: [include_meta\(\)](#)

Examples

```
meta_html_snippet <- tempfile("metathis_example", fileext = ".html")

meta() %>%
  meta_name("package" = "metathis") %>%
  write_meta(meta_html_snippet)

readLines(meta_html_snippet, warn = FALSE)
```

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