

# Package: Rigma (via r-universe)

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**Type** Package

**Title** Access to the 'Figma' API

**Version** 0.3.9000

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**Description** The goal of Rigma is to provide a user friendly client to the 'Figma' API <<https://www.figma.com/developers/api>>. It uses the latest `httr2` for a stable interface with the REST API. More than 20 methods are provided to interact with 'Figma' files, and teams. Get design data into R by reading published components and styles, converting and downloading images, getting access to the full 'Figma' file as a hierarchical data structure, and much more. Enhance your creativity and streamline the application development by automating the extraction, transformation, and loading of design data to your applications and 'HTML' documents.

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**Encoding** UTF-8

**LazyData** true

**URL** <https://github.com/AleKoure/Rigma>

**RoxygenNote** 7.2.1

**Imports** bslib, checkmate, dplyr, fs, glue, httr2, lubridate, magrittr, png, purrr, rlang, tibble, tidyr, withr, xml2

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**Config/testthat/edition** 3

**VignetteBuilder** knitr

**Config/pak/sysreqs** make libicu-dev libpng-dev libxml2-dev libssl-dev

**Repository** <https://alekoure.r-universe.dev>

**RemoteUrl** <https://github.com/alekoure/rima>

**RemoteRef** HEAD

**RemoteSha** eeab4e378feb0d8f0a011ba4e08bfe1974f4c598

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---

add_color	<i>Add color to design table data</i>
-----------	---------------------------------------

---

### Description

Extracts color for design data collected from the Figma API. Can convert to hex. Inferred color data are added in a new column named as 'color'.

### Usage

```
add_color(design_tibble, hex = TRUE)
```

**Arguments**

design\_tibble Tabular data to be augmented with color column.  
hex logical. If 'TRUE' hex data are added to 'color' column else nested data for 'RGBA' channels.

**Value**

Adds color column to 'design\_tibble' data

**Examples**

```
## Not run:  
file_key <- "sFHgQh9dL6369o5wrZHmdR"  
resp <- get_file_styles(file_key) %>%  
  as_design_tibble() %>%  
  add_color()  
  
## End(Not run)
```

---

as\_design\_tibble      *Transform data to tabular format*

---

**Description**

Transforms data returned from a Figma API request to tabular format.

**Usage**

```
as_design_tibble(rigma_resp, message = TRUE)
```

**Arguments**

rigma\_resp A response object from Figma API.  
message logical. Control printing of messages.

**Value**

tibble data extracted from Figma response objects. Subclasses of type 'design\_tibble' are added to the resulting tibbles.

**Examples**

```
## Not run:  
file_key <- "sFHgQh9dL6369o5wrZHmdR"  
resp <- get_file_styles(file_key = file_key)  
as_design_tibble(resp)  
  
## End(Not run)
```

---

delete_comment	<i>DELETE comments</i>
----------------	------------------------

---

### Description

Deletes a specific comment. Only the person who made the comment is allowed to delete it.

### Usage

```
delete_comment(file_key, comment_id)
```

### Arguments

file_key	string. The key that a Figma file is referred by.
comment_id	string. The comment id.

### Value

S3 object of class 'rigma\_delete\_comment'. Contains the parsed JSON response with fields 'error', 'status', and 'id'.

### Examples

```
## Not run:
#navigate to file and get key from url
file_key <- "sFHgQh9dL6369o5wrZHmdR"
first_comment_id <- get_comments(file_key)$comments[[1]]$id
delete_comment(file_key, first_comment_id)

## End(Not run)
```

---

delete_comment_reactions	<i>DELETE comment reactions</i>
--------------------------	---------------------------------

---

### Description

Removes a particular comment reaction. The only person with the ability to delete a comment reaction is the original poster.

### Usage

```
delete_comment_reactions(file_key, comment_id, emoji)
```

**Arguments**

file\_key string. The key that a Figma file is referred by.

comment\_id string. Comment id of comment to delete reaction from.

emoji string. The emoji type of reaction to delete as a string enum :eyes:, :heart\_eyes:, :heavy\_plus\_sign:, :+1:, :-1:, :joy: and :fire:

**Value**

S3 object of class 'rigma\_delete\_comment\_reactions'. Contains the parsed JSON response with fields 'error', 'status', and 'il8n'.

**Examples**

```
## Not run:
#navigate to file and get key from url
file_key <- "sFHgQh9dL6369o5wrZHmdR"
first_comment_id <- get_comments(file_key)$comments[[1]]$id
delete_comment_reactions(file_key, first_comment_id, ":eyes:")

## End(Not run)
```

---

extract\_bslib\_palette *Extract bslib palette*

---

**Description**

Extract bslib palette

**Usage**

```
extract_bslib_palette(design_tibble, version = 5)
```

**Arguments**

design\_tibble A design\_tibble returned by the 'add\_color()' function

version Bootstrap version to use for extracting color variables

**Details**

This function filters for bslib high level color variables published as styles of a Figma file and/or team. The color should be extracted and added as a variable to the retrieved data.

**Value**

List with colors used in high level variables of 'bs\_theme()'.

## Examples

```
## Not run:
file_key <- "sFHgQh9dL6369o5wrZHmdR"
file_key %>%
  get_file_styles() %>%
  as_design_tibble() %>%
  add_color() %>%
  extract_bslib_palette()

## End(Not run)
```

---

get_comments	<i>GET comments</i>
--------------	---------------------

---

## Description

Gets a list of comments left on the file.

## Usage

```
get_comments(file_key)
```

## Arguments

file\_key            string. The key that a Figma file is referred by.

## Value

S3 object of class 'rigma\_get\_comments'. Contains the parsed JSON response.

## Examples

```
## Not run:
#navigate to file and get key from url
file_key <- "sFHgQh9dL6369o5wrZHmdR"
get_comments(file_key)

## End(Not run)
```

---

get\_comments\_reactions  
*GET comments reactions*

---

### Description

Obtains a paginated list of the comments' reactions.

### Usage

```
get_comments_reactions(file_key, comment_id, cursor = NULL)
```

### Arguments

file\_key            string. The key that a Figma file is referred by.  
comment\_id        string. The comment id.  
cursor             string obtained from the result of the previous request, a cursor for pagination.

### Value

S3 object of class 'rigma\_get\_comments\_reactions'. Contains the parsed JSON response with fields 'reactions', and 'pagination'.

### Examples

```
## Not run:  
#navigate to file and get key from url  
file_key <- "sFHgQh9dL6369o5wrZHmdR"  
resp <- get_comments(file_key)  
resp_reactions <- get_comments_reactions(file_key, resp$comments[[1]]$id)  
  
## End(Not run)
```

---

get\_component            *GET component*

---

### Description

Get metadata on a component by key. To publish components join a Figma team and subscribe for professional account.

### Usage

```
get_component(key)
```

**Arguments**

key                    string. The unique identifier of the component.

**Value**

S3 object of class 'rigma\_get\_component'.

**Examples**

```
## Not run:  
component_key <- "my_key"  
get_component(component_key)  
  
## End(Not run)
```

---

get\_component\_sets     *GET component set*

---

**Description**

Get metadata on a component\_set by key. To publish components join a Figma team and subscribe for professional account.

**Usage**

```
get_component_sets(key)
```

**Arguments**

key                    string. The unique identifier of the component.

**Value**

S3 object of class 'rigma\_get\_component\_set'.

**Examples**

```
## Not run:  
component_key <- "my_key"  
get_component_sets(component_key)  
  
## End(Not run)
```



---

get\_file

*GET file*


---

### Description

Direct access to the desired file is made available using the GET file API endpoint. It returns a JSON object representing the file pointed to by:key. Any Figma file url, such as <https://www.figma.com/file/:key/:title>, can be used to parse the file key.

### Usage

```
get_file(
  file_key,
  version = NULL,
  ids = NULL,
  depth = NULL,
  geometry = NULL,
  plugin_data = NULL,
  branch_data = NULL
)
```

### Arguments

file_key	string. The key that a Figma file is referred by.
version	string. A certain version ID to obtain. By omitting this, you'll obtain the file's most recent version.
ids	string. list the document's nodes that are important to you, separated by commas. If supplied, only the nodes listed, their children, and everything between the root node and the listed nodes will be returned as part of the document.
depth	integer. A positive number indicating the depth of the traversal across the document tree. For instance, changing this to 2 returns both Pages and all top level objects on each page instead of just returning Pages. All nodes are returned if this argument is not set.
geometry	string. To export vector data, set equal to "paths".
plugin_data	string. A list of plugin IDs separated by commas or the word "shared." The result's 'pluginData' and 'sharedPluginData' attributes will contain any data existing in the document created by those plugins.
branch_data	boolean. The requested file's branch metadata is returned. If the file is a branch, the returned response will also provide the key for the main file. If the file has branches, the response will also contain the metadata for those branches. Standard: false.

**Value**

S3 object of class 'figma\_file\_resp'. Contains the parsed content, the path, and the API response compatible with 'httr2' methods. The retrieved file's metadata includes the 'name', 'lastModified', 'thumbnailUrl', 'editorType', 'linkAccess', and 'version attributes'. A Node with the DOCUMENT type is present in the document attribute.

**Examples**

```
## Not run:  
#navigate to file and get key from url  
file_key <- "sFHgQh9dL6369o5wrZHmdR"  
get_file(file_key)  
  
## End(Not run)
```

---

get\_file\_components     *GET file components*

---

**Description**

Get a list of published components within a file library. Note that published components are only available via the professional plan.

**Usage**

```
get_file_components(file_key)
```

**Arguments**

file\_key                string. The key that a Figma file is referred by.

**Value**

S3 object of class 'figma\_get\_file\_components'. Components are stored in the 'meta' field.

**Examples**

```
## Not run:  
#navigate to team page and get id from url  
file_key <- "gYRjH0y8ZM0VtEf08kf6ch"  
get_file_components(file_key)  
  
## End(Not run)
```

---

get\_file\_component\_sets      *GET file component sets*

---

### Description

Get a list of published component\_sets within a file library. Note that published components are only available via the professional plan.

### Usage

```
get_file_component_sets(file_key)
```

### Arguments

file\_key      string. Id of the team to list components from.

### Value

S3 object of class 'rigma\_get\_file\_component\_sets'. Components are stored in the 'meta' field.

### Examples

```
## Not run:  
#navigate to team page and get id from url  
file_key <- "gYRjH0y8ZM0VtEf08kf6ch"  
get_file_component_sets(file_key)  
  
## End(Not run)
```

---

get\_file\_nodes      *GET file nodes*

---

### Description

Returns a JSON object containing the nodes referenced by 'ids'. The Figma file referred to by ':key' is where the nodes are located. The node Id and file key can be parsed from any Figma node url: <https://www.figma.com/file/:key/:title?node-id=:id>.

**Usage**

```
get_file_nodes(
  file_key,
  ids = NULL,
  version = NULL,
  depth = NULL,
  geometry = NULL,
  plugin_data = NULL
)
```

**Arguments**

<code>file_key</code>	string. The key that a Figma file is referred by.
<code>ids</code>	character. Vector with the document's node ids that are important to you. If supplied, only the nodes listed, their children, and everything between the root node and the listed nodes will be returned as part of the document.
<code>version</code>	string. A certain version ID to obtain. By omitting this, you'll obtain the file's most recent version.
<code>depth</code>	integer. A positive number indicating the depth of the traversal across the document tree. For instance, changing this to 2 returns both Pages and all top level objects on each page instead of just returning Pages. All nodes are returned if this argument is not set.
<code>geometry</code>	string. To export vector data, set equal to "paths".
<code>plugin_data</code>	string. A list of plugin IDs separated by commas or the word "shared." The result's 'pluginData' and 'sharedPluginData' attributes will contain any data existing in the document created by those plugins.

**Value**

S3 object of the type 'rigma\_get\_file\_nodes'.

The supplied file's metadata includes the 'name', 'lastModified', 'thumbnailUrl', 'editorType', and 'version' attributes.

The file link share permission level is described in the 'linkAccess' field. A shared link may have one of five different permissions: "inherit," "view," "edit," "org view," and "org edit." The default permission for files produced in a team project is "inherit," and those files will take on the project's rights by default. "org view" and "org edit" only allow org users to access the link.

Each node has the ability to inherit properties from applicable styles. A mapping from style IDs to style metadata is contained in the 'styles' key.

It's important to note that the nodes field is a list that can include null values. This can be because the provided file does not contain a node with the specified id.

**Examples**

```
## Not run:
#navigate to file and get key from url
file_key <- "sFHgQh9dL6369o5wrZHmdR"
```

```
get_file_nodes(file_key, ids = "0:0")  
## End(Not run)
```

---

get\_file\_styles      *GET file styles*

---

### Description

Get published styles in a file library by name.

### Usage

```
get_file_styles(file_key)
```

### Arguments

file\_key      string. The key that a Figma file is referred by.

### Value

S3 object of class 'rigma\_get\_file\_styles'. Styles are stored in the 'meta' field.

### Examples

```
## Not run:  
#navigate to team page and get id from url  
file_key <- "gYRjH0y8ZM0VtEf08kf6ch"  
get_file_styles(file_key)  
## End(Not run)
```

---

get\_file\_versions      *GET file versions*

---

### Description

A list of the versions of a file.

### Usage

```
get_file_versions(file_key)
```

### Arguments

file\_key      string. The key that a Figma file is referred by.

**Value**

S3 object of class 'rigma\_get\_file\_versions'. Contains the parsed JSON response with fields 'versions', and 'pagination'.

**Examples**

```
## Not run:
#navigate to file and get key from url
file_key <- "sFHgQh9dL6369o5wrZHmdR"
get_file_versions(file_key)

## End(Not run)
```

---

get\_image

*GET image*


---

**Description**

If there are no errors, "images" will be filled with a list of node IDs and their corresponding URLs for the displayed images, and "status" will be left empty. After 30 days, the picture assets will stop working.

It's important to note that the picture map could include null values. This suggests that the node's attempt to render has failed. The lack of a node id or other factors, such as the absence of renderable components, may be responsible. Whether or not the render was successful, it is assured that any node that was requested for rendering will be represented in this map.

**Usage**

```
get_image(
  file_key,
  ids,
  scale = NULL,
  format = NULL,
  svg_include_id = NULL,
  svg_simplify_stroke = NULL,
  use_absolute_bounds = NULL,
  version = NULL
)
```

**Arguments**

file_key	string. The key that a Figma file is referred by.
ids	string. A comma separated list of node IDs to render
scale	numeric. The image scaling factor is a number between 0.01 and 4

format	string. A string enum for the image output format, can be "jpg", "png", "svg", or "pdf"
svg_include_id	logical. Whether or not to give each SVG element an id attribute. Standard: 'FALSE'
svg_simplify_stroke	logical. Whether to simplify inside/outside strokes and use stroke attribute if possible instead of <mask>. Default: 'TRUE'.
use_absolute_bounds	logical. Whether the node is cropped or the area around it is vacant, use the node's full dimensions. To export text nodes without cropping, use this method. Standard: false.
version	string. A specific version ID to use. Omitting this will use the current version of the file

**Value**

S3 object of class 'rigma\_get\_image'. Contains the parsed JSON response with fields 'err', and 'images'.

**Examples**

```
## Not run:
#navigate to file and get key from url
file_key <- "sFHgQh9dL6369o5wrZHmdR"
get_image(file_key, ids = "0:1", format = "svg")

## End(Not run)
```

---

get_image_fills	<i>GET image fills</i>
-----------------	------------------------

---

**Description**

This API endpoint provides download URLs for all of the images that are present in a document's image fills. Figma represents any user-supplied images using image fills. When you drag a picture into Figma, it builds a rectangle with a single fill to represent it. The user can then modify the attributes of the fill and change the rectangle as they see fit.

**Usage**

```
get_image_fills(file_key)
```

**Arguments**

file\_key            string. The key that a Figma file is referred by.

**Value**

This API provides a mapping from image references to download URLs for the images. Image URLs have a 14-day maximum lifespan. Image references are located in the output of the GET files endpoint under the 'imageRef' attribute in a Paint.

**Examples**

```
## Not run:
#navigate to file and get key from url
file_key <- "sFHgQh9dL6369o5wrZHmdR"
get_image_fills(file_key)

## End(Not run)
```

---

get_project_files	<i>GET project files</i>
-------------------	--------------------------

---

**Description**

List the files in a given project.

**Usage**

```
get_project_files(project_id, branch_data = "false")
```

**Arguments**

project_id	string. Id of the project to list files from.
branch_data	string. Returns branch metadata in the response for each main file with a branch inside the project. Default: "false"

**Value**

S3 object of class 'rigma\_get\_project\_files'. Contains the parsed JSON response with fields 'name', and 'files'.

**Examples**

```
## Not run:
#navigate to file and get key from url
project_id <- "71686204"
get_project_files(project_id)

## End(Not run)
```



---

get\_team\_components     *GET team components*

---

### Description

Get a paginated list of published components within a team library. Note that team components are only available via the professional plan.

### Usage

```
get_team_components(team_id, page_size = 30, after = NULL, before = NULL)
```

### Arguments

team_id	string. The team's ID, with a list of its components.
page_size	number. Number of items in a paged list of results. Defaults to 30.
after	number. Cursor providing the id for which to begin component retrieval. Exclusive with 'before' parameter. The cursor value is a tracked integer that is kept internally but has no Ids.
before	number. The id before which to begin obtaining components is shown by the cursor. Exclusive with after. The cursor value is a tracked integer that is kept internally but has no Ids.

### Value

S3 object of class 'rigma\_get\_team\_components'. Components are stored in the 'meta' field.

### Examples

```
## Not run:  
#navigate to team page and get id from url  
get_team_components(team_id = "1168610438838663284")  
  
## End(Not run)
```

---

get\_team\_component\_sets     *GET team component sets*

---

### Description

Get a paginated list of published 'component\_sets' within a team library. Note that published components are only available via the professional plan.

**Usage**

```
get_team_component_sets(team_id, page_size = 30, after = NULL, before = NULL)
```

**Arguments**

<code>team_id</code>	string. The team's ID, with a list of its components.
<code>page_size</code>	number Number of items in a paged list of results. Defaults to 30.
<code>after</code>	number. Cursor providing the id for which to begin component retrieval. Exclusive with 'before' parameter. The cursor value is a tracked integer that is kept internally but has no Ids.
<code>before</code>	number. The id before which to begin obtaining components is shown by the cursor. Exclusive with after The cursor value is a tracked integer that is kept internally but has no Ids.

**Value**

S3 object of class 'rigma\_get\_team\_component\_sets'. Components are stored in the 'meta' field.

**Examples**

```
## Not run:
#navigate to team page and get id from url
get_team_component_sets(team_id = "1168610438838663284")

## End(Not run)
```

---

<code>get_team_projects</code>	<i>GET team projects</i>
--------------------------------	--------------------------

---

**Description**

Get a list of all the Projects inside the specified team using this Endpoint. Only projects visible to the authorized user or the holder of the developer token will be returned. It should be noted that a user's team ID cannot yet be determined from a token. Go to the team page of the team you are a part of to get your team ID. After the term "team" and before your team name, the team id will appear in the URL.

**Usage**

```
get_team_projects(team_id)
```

**Arguments**

<code>team_id</code>	string. Id of the team to list projects from.
----------------------	---

**Value**

S3 object of class 'rigma\_get\_team\_projects'. Contains the parsed JSON response with fields 'name', and 'projects'.

**Examples**

```
## Not run:
#navigate to file and get key from url
team_id <- "1168610438838663284"
get_team_projects(team_id)

## End(Not run)
```

---

get_team_styles	<i>GET team styles</i>
-----------------	------------------------

---

**Description**

Get a list of published styles in a team library that is paginated.

**Usage**

```
get_team_styles(team_id, page_size = 30, after = NULL, before = NULL)
```

**Arguments**

team_id	string. The team's ID, with a list of its styles.
page_size	number. Number of items in a paged list of results. Defaults to 30.
after	number. Cursor providing the id for which to begin component retrieval. Exclusive with 'before' parameter. The cursor value is a tracked integer that is kept internally but has no Ids.
before	number. The id before which to begin obtaining components is shown by the cursor. Exclusive with after. The cursor value is a tracked integer that is kept internally but has no Ids.

**Value**

S3 object of class 'rigma\_get\_team\_styles'. Styles are stored in the 'meta' field.

**Examples**

```
## Not run:
#navigate to team page and get id from url
get_team_styles(team_id = "1168610438838663284")

## End(Not run)
```

---

possibly\_thumbnail\_color  
*Possibly extract thumbnail color*

---

**Description**

Possibly extract thumbnail color

**Usage**

```
possibly_thumbnail_color(...)
```

**Arguments**

... Variables passed to wrapped function

**Value**

thumbnail\_color function that handles errors

---

post\_comment *POST comment*

---

**Description**

Posts a new comment on the file.

**Usage**

```
post_comment(file_key, message, comment_id = NULL, client_meta)
```

**Arguments**

file_key	string. The key that a Figma file is referred by.
message	string. The comment's textual content to post.
comment_id	string. If there is one, the comment to respond to. You cannot reply to a remark that is a reply to itself (a reply has a parent id), thus this must be a root comment.
client_meta	string. The position of where to place the comment.

**Value**

S3 object of class 'rigma\_post\_comment'. Contains the parsed JSON response with fields 'id', 'file\_key', 'status', 'i18n', 'parent\_id', 'user', 'created\_at', 'resolved\_at', 'message', 'reactions', 'client\_meta', and 'order\_id'.

**Examples**

```
## Not run:
#navigate to file and get key from url
file_key <- "sFHgQh9dL6369o5wrZHmdR"
get_comments(file_key)

## End(Not run)
```

---

```
post_comment_reactions
```

```
POST comment reactions
```

---

**Description**

Posts a new comment reaction on a file comment.

**Usage**

```
post_comment_reactions(file_key, comment_id, emoji)
```

**Arguments**

file_key	string. The key that a Figma file is referred by.
comment_id	string. If there is one, the comment to respond to. You cannot reply to a remark that is a reply to itself (a reply has a parent id), thus this must be a root comment.
emoji	string. The emoji type of reaction as a string enum :eyes:, :heart_eyes:, :heavy_plus_sign:, :+1:, :-1:, :joy: and :fire:

**Value**

S3 object of class 'rigma\_post\_comment\_reactions'. Contains the parsed JSON response with fields 'error', 'status', and 'i18n'.

**Examples**

```
## Not run:
#navigate to file and get key from url
file_key <- "sFHgQh9dL6369o5wrZHmdR"
first_comment_id <- get_comments(file_key)$comments[[1]]$id
post_comment_reactions(file_key, first_comment_id, ":eyes:")

## End(Not run)
```

---

req_rigma_agent	<i>Add metadata to Rigma request</i>
-----------------	--------------------------------------

---

**Description**

Extra metadata attached to htr2 request object before performing the request.

**Usage**

```
req_rigma_agent(req, user_agent = "Rigma https://github.com/AleKoure/Rigma")
```

**Arguments**

req	htr2_request object
user_agent	string with user agent

**Value**

htr2\_request object with Figma token heater, user agent and retry specifications.

---

safe_download	<i>Safe download files</i>
---------------	----------------------------

---

**Description**

Safe download files

**Usage**

```
safe_download(...)
```

**Arguments**

...	Variables passed to wrapped function
-----	--------------------------------------

**Value**

download function that safely handles errors

---

text\_data\_from\_styles *Get text data from styles*

---

### Description

Get text data from styles

### Usage

```
text_data_from_styles(design_tibble)
```

### Arguments

`design_tibble` S3 object of class 'design\_tibble\_style' returned by queering the 'Figma' API for the published styles. Its design tibble should contain a unique 'file\_key' (map for each 'file\_key' if more than one exist.)

### Details

Given a design\_tibble with exported styles this function retrieves all TEXT style type metadata. It uses the GET file nodes API endpoint and collects all style data.

### Value

tibble with text metadata of exported TEXT styles

### Examples

```
## Not run:  
file_key <- "sFHgQh9dL6369o5wrZHmdR"  
file_key %>%  
  get_file_styles() %>%  
  as_design_tibble() %>%  
  text_data_from_styles()  
  
## End(Not run)
```

---

thumbnail\_color *Find thumbnail color*

---

### Description

Find thumbnail color

### Usage

```
thumbnail_color(path, hex = TRUE)
```

**Arguments**

path	string. Path to the thumbnail PNG
hex	logical. If 'TRUE' then the RGBA values are converted to hex

**Details**

Given a mono-colored thumbnail this function extracts the RGBA channels and returns a vector scaled from [0, 1] or a hex color code.

**Value**

The color of the thumbnail in hex or rgba

**Examples**

```
path <- system.file("extdata", "test_thumbnail.png", package = "Rigma")
thumbnail_color(path)
```



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