

Package: connectwidgets (via r-universe)

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Title Organize and Curate Your Content Within 'Posit Connect'

Version 0.2.1.9000

Description A collection of helper functions and 'htmlwidgets' to help publishers curate content collections on 'Posit Connect'. The components, Card, Grid, Table, Search, and Filter can be used to produce a showcase page or gallery contained within a static or interactive R Markdown page.

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<https://github.com/rstudio/connectwidgets>

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by_owners	<i>Filter content by owner(s)</i>
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Description

Returns content items owned by the specified user(s) (by username)

Usage

```
by_owners(content, usernames)

by_owner(content, usernames)
```

Arguments

content	Content data frame from content(...)
usernames	The username of the owner, or a list of usernames if multiple

Value

The filtered content data frame

by_tags	<i>Filter content by tag(s)</i>
---------	---------------------------------

Description

Returns content items that have the specified tag(s) (by tag name)

Usage

```
by_tags(content, tagnames)

by_tag(content, tagnames)
```

Arguments

- content Content data frame from content(...)
- tagnames The name of the tag, or a list of names if multiple

Value

The filtered content data frame

Client	<i>Class representing a Connect API client</i>
--------	--

Description

- Class representing a Connect API client
- Class representing a Connect API client

Details

This class allows a user to interact with a Connect server via the Connect API. Authentication is done by providing an API key.

Methods

Public methods:

- `Client$new()`
- `Client$print()`
- `Client$GET()`
- `Client$content()`
- `Client$server_settings()`
- `Client$clone()`

Method `new()`:

Usage:

```
Client$new(server, api_key)
```

Method `print()`:

Usage:

```
Client$print(...)
```

Method `GET()`:

Usage:

```
Client$GET(path, ..., writer = httr::write_memory(), parser = "text")
```

Method `content()`:

Usage:

```
Client$content()
```

Method `server_settings()`:

Usage:

```
Client$server_settings()
```

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

```
Client$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

connect	Create a connection to Posit Connect
---------	--------------------------------------

Description

Creates a connection to Posit Connect using the server URL and an api key.

Usage

```
connect(  
  server = Sys.getenv("CONNECT_SERVER", NA_character_),  
  api_key = Sys.getenv("CONNECT_API_KEY", NA_character_)  
)
```

Arguments

server	The server URL for accessing Posit Connect. Defaults to environment variable CONNECT_SERVER
api_key	The API key to authenticate with Posit Connect. Defaults to environment variable CONNECT_API_KEY

Value

An Client object

connectwidgets	connectwidgets: Curate your content on Posit Connect
----------------	--

Description

connectwidgets provides UI components to help publishers provide curated organization of content on Posit Connect.

Connection

Set CONNECT_SERVER and CONNECT_API_KEY environment variables and [connect\(\)](#). Fetch a tibble listing server content with [content\(\)](#). Use the [by_owner\(\)](#) and [by_tags\(\)](#) filter helpers to narrow your search.

Components

Present your content with different components:

- [rsc_card\(\)](#) for highlighting individual content items
- [rsc_grid\(\)](#) for groups of cards
- [rsc_table\(\)](#) for a tabular view
- [rsc_search\(\)](#) a text input for searching grids and tables
- [rsc_filter\(\)](#) an input to filter grids or tables by owner, type, or tag

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- Posit [copyright holder]

See Also

Useful links:

- <https://rstudio.github.io/connectwidgets/>
- <https://github.com/rstudio/connectwidgets>
- Report bugs at <https://github.com/rstudio/connectwidgets/issues>

content

Get Content Items

Description

Returns content items as a data frame from the Connect server. It will only return content that is visible to the API key's user account.

Usage

```
content(client, unpublished = FALSE)
```

Arguments

client	A Client object (see connect)
unpublished	A boolean value specifying whether to return content that has not successfully published

Value

A data frame (tibble) of content items

- id - Auto-incrementing identifier for each content item (legacy)
- guid - Unique identifier for each content item (preferred)
- app_mode - The type of the content item (examples: shiny, rmd-static, static, python-dash, etc.)

- content_category - For static app modes, the specific category of content (examples: site, plot, pin, etc.)
- name - The name of the content item as set at initial publishing
- title - The user-provided title of the content item
- description - The user-provided description of the content item
- url - The URL to the content item
- owner_guid - Unique identifier of the owner of the content item
- owner_username - Username of the owner of the content item
- owner_first_name - First name of the owner of the content item
- owner_last_name - Last name of the owner of the content item
- tags - A data frame of the tags associated with the content item, with format: (id, name, parent_id, created_time, updated_time)
- created_time - The timestamp at which the content item was created
- updated_time - The timestamp at which the content item was last updated

 default_theme

Principal (most used) theming variables

Description

bg fg primary secondary success info warning danger base_font code_font heading_font font_scale

Usage

```
default_theme()
```

Details

Visit <https://rstudio.github.io/bslib/articles/bs4-variables.html> to see the full list of theming variables available

`evaluate_widget_input` *Evaluates required columns for widget's input*

Description

Evaluates required columns for widget's input

Usage

```
evaluate_widget_input(widget, colnames, required)
```

Arguments

<code>widget</code>	Widget's name to identify errors thrown
<code>colnames</code>	Column names provided from the widget content input
<code>required</code>	List of required columns to look for in the widget's input

`gen_theme_dependency` *Generate the theme's bslib::bs_dependency to be used by a widget.*

Description

Generate the theme's bslib::bs_dependency to be used by a widget.

Usage

```
gen_theme_dependency(widget_name, theme, default_base = FALSE)
```

Arguments

<code>widget_name</code>	The name of the widget (e.g: rsc_grid)
<code>theme</code>	The bslib theme to generate the CSS dependency
<code>default_base</code>	Using the default theme or not

`get_bootswatch_theme_name`
Get docmeta theme name (output: html_document: theme)

Description

Get docmeta theme name (output: html_document: theme)

Usage

```
get_bootswatch_theme_name()
```

`get_current_bootswatch_theme`*Get the current bootswatch theme if any*

Description

Get the current bootswatch theme if any

Usage`get_current_bootswatch_theme()`

`get_user_provided_theme`*Get the current user provided bslib theme if any*

Description

Get the current user provided bslib theme if any

Usage`get_user_provided_theme()`

`resolve_theme_dependency`*Resolve and get theme to be used by a widget. It could be the default connectwidgets styling theme or one provided by the user.*

Description

Resolve and get theme to be used by a widget. It could be the default connectwidgets styling theme or one provided by the user.

Usage`resolve_theme_dependency(widget_name)`**Arguments**

`widget_name` The name of the widget (e.g: `rsc_grid`)

rsc_card	Card view for content
Description	
Renders a card view for the provided content	
Usage	
rsc_card(content)	
Arguments	
content	A data frame from Connect's content. Requires the following columns "guid," "url", "title". And, although optional, expects an "owner_username", "description" and "updated_time" columns.
rsc_card-shiny	Shiny bindings for rsc_card

Description	
Output and render functions for using rsc_card within Shiny applications and interactive Rmd documents.	
Usage	
rsc_cardOutput(outputId, width = "100%", height = "400px")	
renderRsc_card(expr, env = parent.frame(), quoted = FALSE)	
Arguments	
outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a rsc_card
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

rsc_cols

*Arrange HTML elements or widgets in Bootstrap columns***Description**

This helper function makes it easy to put HTML elements side by side. It can be called directly from the console but is especially designed to work in an R Markdown document. Note that this is ripped directly from <https://github.com/rstudio/crosstalk> without the additional bootstrap dependency (since it is already expected in connectwidgets)

Usage

```
rsc_cols(..., widths = NA, device = c("xs", "sm", "md", "lg"))
```

Arguments

...	htmltools tag objects, lists, text, HTML widgets, or NULL. These arguments should be unnamed.
widths	The number of columns that should be assigned to each of the ... elements (the total number of columns available is always 12). The width vector will be recycled if there are more ... arguments. NA columns will evenly split the remaining columns that are left after the widths are recycled and non-NA values are subtracted.
device	The class of device which is targeted by these widths; with smaller screen sizes the layout will collapse to a one-column, top-to-bottom display instead. xs: never collapse, sm: collapse below 768px, md: 992px, lg: 1200px.

Value

A [browsable](#) HTML element.

Examples

```
library(htmltools)

# If width is unspecified, equal widths will be used
rsc_cols(
  div(style = css(width="100%", height="400px", background_color="red")),
  div(style = css(width="100%", height="400px", background_color="blue"))
)

# Use NA to absorb remaining width
rsc_cols(widths = c(2, NA, NA),
  div(style = css(width="100%", height="400px", background_color="red")),
  div(style = css(width="100%", height="400px", background_color="blue")),
  div(style = css(width="100%", height="400px", background_color="green"))
)
```

```
# Recycling widths
rsc_cols(widths = c(2, 4),
  div(style = css(width="100%", height="400px", background_color="red")),
  div(style = css(width="100%", height="400px", background_color="blue")),
  div(style = css(width="100%", height="400px", background_color="red")),
  div(style = css(width="100%", height="400px", background_color="blue"))
)
```

rsc_filter

Filter widget

Description

Filter content rows with owner, content type and tags, expects the exact same frame passed to the view widget being filtered.

Usage

```
rsc_filter(content)
```

Arguments

content	A data frame from Connect's content. Although optional, expects an "owner_username", "app_mode" and "tags" columns.
---------	---

rsc_filter-shiny

Shiny bindings for rsc_filter

Description

Output and render functions for using rsc_filter within Shiny applications and interactive Rmd documents.

Usage

```
rscfilterOutput(outputId, width = "100%", height = "400px")
```

```
renderRscfilter(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a rsc_filter
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

rsc_grid

*Grid view for content***Description**

Renders a grid view of the provided content items

Usage

```
rsc_grid(content)
```

Arguments

content	A data frame from Connect's content. Requires the following columns "guid", "url", "title", "app_mode", "owner_username". And, although optional, expects an "updated_time" column.
---------	---

rsc_grid-shiny

*Shiny bindings for rsc_grid***Description**

Output and render functions for using rsc_grid within Shiny applications and interactive Rmd documents.

Usage

```
rscgridOutput(outputId, width = "100%", height = "400px")
```

```
renderRscgrid(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a rsc_grid
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

rsc_search	<i>Search widget</i>
------------	----------------------

Description

Search for matching content name/title within the shared data object passed. Expects the exact same frame passed to the view widget being filtered.

Usage

```
rsc_search(content)
```

Arguments

content	A shared object from Connect's content
---------	--

rsc_search-shiny	<i>Shiny bindings for rsc_search</i>
------------------	--------------------------------------

Description

Output and render functions for using rsc_search within Shiny applications and interactive Rmd documents.

Usage

```
rscsearchOutput(outputId, width = "100%", height = "400px")

renderRscsearch(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a rsc_search
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

rsc_table	<i>Reactable table of the content</i>
-----------	---------------------------------------

Description

Renders a reactable table of the provided content items

Usage

```
rsc_table(content)
```

Arguments

content	The tibble of content provided by connectwidgets::content() Requires the columns "guid", "url", "title", "app_mode", "owner_username" and "updated_time".
---------	---

rsc_table_sync_theme	<i>Resolve reactable theme for rsc_table</i>
----------------------	--

Description

Resolve reactable theme for rsc_table

Usage

```
rsc_table_sync_theme()
```

warning_large_content	<i>Show warnings for large content</i>
-----------------------	--

Description

Show warnings for large content

Usage

warning_large_content(content, max_rows = 500)

Arguments

- | | |
|----------|---|
| content | Content data frame or Crosstalk SharedData object |
| max_rows | Maximum number of rows before warning (default 500) |

warning_widget_input	<i>Show warnings of expected columns for widget's input</i>
----------------------	---

Description

Show warnings of expected columns for widget's input

Usage

warning_widget_input(widget, colnames, expected)

Arguments

- | | |
|----------|--|
| widget | Widget's name to identify warnings thrown |
| colnames | Column names provided from the widget content input |
| expected | List of expected columns to look for in the widget's input |

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