

Package: connectViz (via r-universe)

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Title Visualize Your 'RStudio Connect' Server Usage Data

Version 0.0.0.9146

Description A collection of helper functions and 'htmlwidgets' to help admins or user better understand how 'RStudio Connect' is used in their organization. The package provides plug and play visualizations that can be customized depending on needs.

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Suggests testthat (>= 3.0.0), shinydashboard

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URL <https://github.com/RintErface/connectViz>

BugReports <https://github.com/RintErface/connectViz/issues>

Imports magrittr, lubridate, dplyr (>= 1.0.0), data.table, purrr, tibble, apexcharter (>= 0.3.0.9100), scales, toastui, connectapi (>= 0.1.0.9031), shiny, echarts4r, tidyr, rlang (>= 1.0.0), visNetwork, htmlwidgets

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create_app_daily_session_chart
<i>Generic calendar chart generator</i>

Description

Generic calendar chart generator

Usage

```
create_app_daily_session_chart(
  calendar_data,
  title = "Cumulated daily usage",
  subtitle = "time units: minutes",
  start_date = NULL,
  end_date = NULL,
  callback = NULL
)
```

Arguments

calendar_data	Calendar chart data.
title	Chart title.
subtitle	Chart subtitle.
start_date	Default to minimum calendar_data date. Could also be an input value with Shiny.
end_date	Default to maximum calendar_data date. Could also be an input value with Shiny.
callback	JS function to pass to onRender . This is useful to access the widget API on the R side at render time and add events on the fly.

Value

An echarts4r line chart

```
create_app_daily_usage_chart
```

Daily app usage chart

Description

Leverages echarts4r. See https://echarts4r.john-coene.com/articles/chart_types.html#calendar-1.

Usage

```
create_app_daily_usage_chart(app_usage, ...)
```

Arguments

app_usage	Returned by get_app_daily_usage .
...	Pass down any param to create_calendar_chart .

Value

A calendar chart displaying daily app usage.

create_app_ranking	<i>Process app data for ranking table</i>
--------------------	---

Description

See [create_app_ranking_table](#).

Usage

```
create_app_ranking(content, users, apps, start_date = NULL, end_date = NULL)
```

Arguments

content	Get from get_content . Can be reactive.
users	Get from get_users . Can be reactive.
apps	Get from get_usage_shiny . Can be reactive.
start_date	Default to minimum calendar_data date. Could also be an input value with Shiny.
end_date	Default to maximum calendar_data date. Could also be an input value with Shiny.

Value

A list containing: `[[1]]` merged data between app usage and users data. `[[2]]`: data to be digested by [create_app_ranking_table](#).

create_app_ranking_table	<i>Create app ranking table</i>
--------------------------	---------------------------------

Description

Leverages the toastui htmlwidget. See <https://dreamrs.github.io/toastui/articles/extras/grid.html>.

Usage

```
create_app_ranking_table(ranking, pagination = 10, height = NULL)
```

Arguments

ranking	Ranked data from create_app_ranking .
pagination	Control number of lines to display per page. If NULL, all data are displayed.
height	Table height. CSS units.

Value

An htmlwidget table containing app ranking, owner sorted by usage.

`create_apps_consumer_ranking`*Create Shiny apps consumer ranking*

Description

Sort consumers by number of views.

Usage

```
create_apps_consumer_ranking(apps, users)
```

Arguments

<code>apps</code>	Get from get_usage_shiny . Can be reactive or not.
<code>users</code>	Get from get_users . Can be reactive or not.

Value

A 3 columns tibble with apps consumer sorted by number of view. The role columns allows further analysis.

`create_apps_consumer_ranking_chart`*Create apps consumer ranking bar chart*

Description

Create apps consumer ranking bar chart

Usage

```
create_apps_consumer_ranking_chart(ranking, threshold)
```

Arguments

<code>ranking</code>	Data obtained from create_apps_consumer_ranking .
<code>threshold</code>	Minimum number of app threshold. You'll need a <code>numericInput</code> wrapped by reactive .

Value

A bar chart with consumer sorted by descending number of total views.

create_calendar_chart *Generic calendar chart generator*

Description

Generic calendar chart generator

Usage

```
create_calendar_chart(  
  calendar_data,  
  title,  
  subtitle = NULL,  
  start_date = NULL,  
  end_date = NULL,  
  callback = NULL  
)
```

Arguments

calendar_data	Calendar chart data.
title	Chart title.
subtitle	Chart subtitle.
start_date	Default to minimum calendar_data date. Could also be an input value with Shiny.
end_date	Default to maximum calendar_data date. Could also be an input value with Shiny.
callback	JS function to pass to onRender . This is useful to access the widget API on the R side at render time and add events on the fly.

Value

An echarts4r calendar chart

create_cumulated_duration_per_user
 Create cumulated app duration/user

Description

Bar chart

Usage

```
create_cumulated_duration_per_user(
  apps_usage,
  start_date = NULL,
  end_date = NULL,
  selected_app
)
```

Arguments

apps_usage	First element returned by create_app_ranking . Can be reactive.
start_date	Default to minimum calendar_data date. Could also be an input value with Shiny.
end_date	Default to maximum calendar_data date. Could also be an input value with Shiny.
selected_app	Selected app name (string). You'll need a selectInput for instance wrapped by reactive .

Value

An echarts4r barchart.

```
create_cumulated_hits_per_user
```

Create cumulated app hits/user

Description

Bar chart

Usage

```
create_cumulated_hits_per_user(
  apps_usage,
  start_date = NULL,
  end_date = NULL,
  selected_app
)
```

Arguments

apps_usage	First element returned by create_app_ranking . Can be reactive.
start_date	Default to minimum calendar_data date. Could also be an input value with Shiny.
end_date	Default to maximum calendar_data date. Could also be an input value with Shiny.

selected_app Selected app name (string). You'll need a selectInput for instance wrapped by [reactive](#).

Value

An echarts4r barchart.

create_dev_project_overview	<i>Create developer project network overview</i>
-----------------------------	--

Description

Leverages visNetwork.

Usage

create_dev_project_overview(client, apps_usage, selected_dev)

Arguments

client RSC client. See [create_rsc_client](#).
apps_usage First element returned by [create_app_ranking](#). Can be reactive.
selected_dev Developer to select. You'll need a selectInput wrapped by [reactive](#).

Value

A visNetwork htmlwidget with developer projects.

create_dev_ranking	<i>Create a developer ranking</i>
--------------------	-----------------------------------

Description

Rank developers by number of published apps

Usage

create_dev_ranking(users, content)

Arguments

users Get from [get_users](#).
content Get from [get_content](#).

Value

A tibble with developer ranked by decreasing number of apps.

`create_dev_ranking_chart`*Create developers ranking bar chart*

Description

Devs are ranked by number of developed apps. See [create_dev_ranking](#).

Usage

```
create_dev_ranking_chart(ranking, threshold)
```

Arguments

ranking	Obtained after calling create_dev_ranking . Can be reactive.
threshold	Minimum number of app threshold. You'll need a numericInput wrapped by reactive .

Value

An echarts4r bar chart.

`create_pie_chart`*Create standard pie chart*

Description

Pie chart with percentage data

Usage

```
create_pie_chart(data, x_axis)
```

Arguments

data	Get from sort_users_by_role .
x_axis	x variable.

Value

A pie chart.

create_rsc_client	Create a connection to RStudio Connect server
-------------------	---

Description

Leverages connectapi toolkit. Expect to have Sys.getenv("CONNECT_SERVER") and Sys.getenv("CONNECT_API_KEY") properly setup.

Usage

```
create_rsc_client()
```

create_user_daily_consumption_chart	Daily app consumption for selected user
-------------------------------------	---

Description

Daily app consumption for selected user

Usage

```
create_user_daily_consumption_chart(usage)
```

Arguments

usage Get from [get_user_daily_consumption](#).

Value

An echarts4r calendar chart

generate_table	Generate htmlWidgets table
----------------	----------------------------

Description

Leverage toastui API.

Usage

```
generate_table(logs, sparkline = FALSE, pagination = 10, height = NULL)
```

Arguments

logs	Obtained with get_rsc_apps_usage.
sparkline	Whether to draw a sparkline.
pagination	Control number of lines to display per page. If NULL, all data are displayed.
height	Table height. CSS units.

Value

An htmlwidget table.

get_app_daily_usage	<i>Daily app usage</i>
---------------------	------------------------

Description

Used by [create_app_daily_usage_chart](#).

Usage

```
get_app_daily_usage(apps_usage, selected_app)
```

Arguments

apps_usage	Second element returned by create_app_ranking . Can also be reactive.
selected_app	Selected app name (string). You'll need a selectInput for instance. wrapped by reactive .

Value

Calendar data for daily app usage.

get_max_rsc_apps_usage	<i>Get most used app</i>
------------------------	--------------------------

Description

Get most used app

Usage

```
get_max_rsc_apps_usage(logs)
```

Arguments

logs Obtained after calling get_rsc_apps_usage.

Value

A numeric value.

get_rsc_app_dates	<i>Extract app usage dates</i>
-------------------	--------------------------------

Description

Extract app usage dates

Usage

get_rsc_app_dates(app, logs)

Arguments

app app_name to filter.
logs Given by RSC database.

Value

A tibble containing dates of usage for the given app as well as the correponding session duration.

get_rsc_apps_usage	<i>Get RSC apps usage</i>
--------------------	---------------------------

Description

Called on apps_usage data

Usage

get_rsc_apps_usage(logs)

Arguments

logs Given by RSC database.

Value

A 3 columns tibble with app name, usage and date of usage (nested tibble).

get_rsc_developer_apps_count
Get app count for each developer

Description

Get app count for each developer

Usage

```
get_rsc_developer_apps_count(developer, logs)
```

Arguments

developer	Developer unique id.
logs	All data logs.

Value

A number with all apps

get_rsc_developer_apps_list
Get app list for each developer + usage

Description

Get app list for each developer + usage

Usage

```
get_rsc_developer_apps_list(developer, logs)
```

Arguments

developer	Unique user id. Typically app_developer_id key.
logs	RSC logs.

Value

Tibble containing app name + count

```
get_user_daily_consumption
```

Get daily shiny app usage for a given user

Description

Get daily shiny app usage for a given user

Usage

```
get_user_daily_consumption(content, users, apps, selected_user)
```

Arguments

content	Get from get_content . Can be reactive.
users	Get from get_users . Can be reactive.
apps	Get from get_usage_shiny . Can be reactive.
selected_user	User to select. You'll need a selectInput wrapped by reactive .

Value

A list. `[[1]]` contains the row events filtered for the given user. `[[2]]` is 2 columns tibble containing daily app consumption for given user (grouped by dates).

```
merge_rsc_data
```

Merge RStudio Connect data together

Description

See [create_app_ranking](#).

Usage

```
merge_rsc_data(content, users, apps)
```

Arguments

content	Get from get_content . Can be reactive.
users	Get from get_users . Can be reactive.
apps	Get from get_usage_shiny . Can be reactive.

Value

A list of 3 tibbles. `[[1]]`: light RSC content data (less columns); `[[2]]`: light RSC users data (less columns); `[[3]]`: merged apps_usage data.

process_rsc_content	<i>Process RSC content</i>
---------------------	----------------------------

Description

Select relevant information for RSC content data. See [merge_rsc_data](#).

Usage

```
process_rsc_content(content)
```

Arguments

content	Get from get_content .
---------	--

Value

A 3 columns tibble with content guid, app_name and owner guid. Owner guid is the same returned in [process_rsc_user](#).

process_rsc_user	<i>Process RSC user</i>
------------------	-------------------------

Description

Select relevant information for RSC users data. See [merge_rsc_data](#).

Usage

```
process_rsc_user(users)
```

Arguments

users	Get from get_users .
-------	--------------------------------------

Value

A 2 columns tibble with user guid and username.

`sort_content_by_access`*Sort RStudio Connect content by access type*

Description

Sort RStudio Connect content by access type

Usage

```
sort_content_by_access(content, start_date = NULL, end_date = NULL)
```

Arguments

<code>content</code>	Get from get_content .
<code>start_date</code>	Date filter.
<code>end_date</code>	Date filter.

Value

A tibble with content grouped by access type.

`sort_content_by_appmode`*Sort RStudio Connect content by app mode*

Description

Sort RStudio Connect content by app mode

Usage

```
sort_content_by_appmode(content, start_date = NULL, end_date = NULL)
```

Arguments

<code>content</code>	Get from get_content .
<code>start_date</code>	Date filter.
<code>end_date</code>	Date filter.

Value

A tibble with content grouped by app mode.

`sort_content_by_pyversion`*Sort RStudio Connect content by python version*

Description

Sort RStudio Connect content by python version

Usage

```
sort_content_by_pyversion(content)
```

Arguments

content Get from [get_content](#).

Value

A tibble with content grouped by python version.

`sort_content_by_rversion`*Sort RStudio Connect content by R version*

Description

Sort RStudio Connect content by R version

Usage

```
sort_content_by_rversion(content, start_date = NULL, end_date = NULL)
```

Arguments

content Get from [get_content](#).
start_date Date filter.
end_date Date filter.

Value

A tibble with content grouped by R version.

sort_users_by_role	<i>Sort RStudio Connect users by role</i>
--------------------	---

Description

Users are grouped by user_role to check the server role repartition. Using start_date and end_date allows to filter data given a specific time range.

Usage

```
sort_users_by_role(users, start_date = NULL, end_date = NULL)
```

Arguments

users	Get from get_users .
start_date	Date filter.
end_date	Date filter.

Value

A tibble with user grouped by role.

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