

Package: pactr (via r-universe)

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Type Package

Title An Interface to the Pandemic PACT Database

Version 0.0.0.9009

Description The Pandemic PACT <<https://www.pandemicpact.org/>> monitors and analyses global funding and research evidence related to diseases with pandemic potential, as well as broader research preparedness efforts, and is equipped to pivot in response to outbreaks. It collects, curates, codes, and analyses data in alignment with WHO priority diseases and other selected illnesses, including pandemic influenza, mpox, and plague. Pandemic PACT aims to guide policy and decision-making for research funders, policymakers, researchers, multilateral agencies. The database is publicly available for download from its website and from Figshare. This package interfaces with the project's Figshare repository to provide programmatic access to the database along with other data products provided by the project.

License GPL (>= 3)

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pact_cite	<i>Cite an output/asset available from the Pandemic PACT Figshare repository</i>
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Description

Cite an output/asset available from the Pandemic PACT Figshare repository

Usage

pact_cite(pact_client, id)

Arguments

- | | |
|-------------|--|
| pact_client | An interface client to the Pandemic PACT Figshare repository. This is usually set/created through a call to pact_client_set(). |
| id | A unique integer value identifying a specific file in the repository. |

Value

A string for recommended bibliographic citation for specific Pandemic PACT output/asset in Date-Cite bibliographic style.

Examples

```
## Not run:
pact_client <- pact_client_set()
pact_cite(pact_client, id = 24763548)

## End(Not run)
```

pact_client_set	<i>Initiate a new Pandemic PACT Figshare client session</i>
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Description

Initiate a new Pandemic PACT Figshare client session

Usage

```
pact_client_set()
```

Value

A local client to the Figshare service.

Examples

```
## Not run:
pact_client_set()

## End(Not run)
```

pact_data_read_figshare	<i>Read Pandemic PACT tracker dataset from the Pandemic PACT Figshare repository</i>
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Description

Read Pandemic PACT tracker dataset from the Pandemic PACT Figshare repository

Usage

```
pact_data_read_figshare(pact_client, latest = TRUE, version = NULL)

pact_read_figshare_dictionary(pact_client)
```

Arguments

pact_client	An interface client to the Pandemic PACT Figshare repository. This is usually set/created through a call to <code>pact_client_set()</code> .
latest	Logical. If TRUE (default), the latest version of the Pandemic PACT dataset is read.
version	A character string specifying the version of the Pandemic PACT dataset to read. This should be in the format "YYYY-MM-DD". If latest is set to TRUE, this argument is ignored. If version is specified, it must match one of the available versions in the Pandemic PACT Figshare repository. If it does not match, a warning will be issued and the latest version will be read instead. If version is not specified and latest is set to FALSE, a warning will be issued and the latest version will be read instead.

Value

A data.frame of the requested dataset.

Examples

```
## Not run:
pact_client <- pact_client_set()
pact_read_figshare_dictionary(pact_client)

## End(Not run)
```

pact_download_figshare

Download outputs/assets from Pandemic PACT Figshare repository

Description

Download outputs/assets from Pandemic PACT Figshare repository

Usage

```
pact_download_figshare(pact_client, id, path, overwrite = FALSE, quiet = TRUE)

pact_download_figshare(pact_client, id, path, overwrite = FALSE, quiet = TRUE)

pact_download_website(path, overwrite = FALSE, quiet = TRUE)
```

Arguments

pact_client	An interface client to the Pandemic PACT Figshare repository. This is usually set/created through a call to <code>pact_client_set()</code> .
id	An integer value unique identifier for a specific file in the Pandemic PACT Figshare repository. A list of files available from the Pandemic PACT Figshare repository with their corresponding id can be retrieved via a call to <code>pact_figshare_list()</code> .
path	The local directory where file is to be downloaded.
overwrite	Logical. Should existing files be overwritten? If TRUE, existing files will be overwritten. Default is FALSE.
quiet	Logical. If TRUE (default), download progress is not displayed.

Value

The full path to the downloaded file.

Examples

```
## Not run:
## From Figshare
pact_client <- pact_client_set()
pact_download_figshare(pact_client, id = 25827649, path = tempdir())

## From website
pact_download_website(path = tempdir())

## End(Not run)
```

pact_figshare_list	<i>List all available outputs/assets from Pandemic PACT's Figshare repositories.</i>
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Description

List all available outputs/assets from Pandemic PACT's Figshare repositories.

Usage

```
pact_figshare_list(pact_client)
```

Arguments

pact_client	An interface client to the Pandemic PACT Figshare repository. This is usually set/created through a call to <code>pact_client_set()</code> .
-------------	--

Value

A `tibble::tibble()` of available outputs/assets from the Pandemic PACT Figshare repository.

Examples

```
## Not run:
  pact_figshare_list(pact_client = pact_client_set())

## End(Not run)
```

<code>pact_get_group_id</code>	<i>Get outputs/assets identifiers</i>
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Description

Get outputs/assets identifiers

Usage

```
pact_get_group_id(pact_client, id)

pact_get_filename(pact_client, id)

pact_get_url(pact_client, id)
```

Arguments

<code>pact_client</code>	An interface client to the Pandemic PACT Figshare repository. This is usually set/created through a call to <code>pact_client_set()</code> .
<code>id</code>	A unique integer value identifying a specific file in the repository.

Value

An integer or character value or vector of values for requested identifier or information.

Examples

```
## Not run:
  pact_client <- pact_client_set()
  pact_get_group_id(pact_client)
  pact_get_filename(pact_client, id = 24763548)

## End(Not run)
```

pact_mpox_priority *Pandemic PACT Mpox Priorities*

Description

Pandemic PACT Mpox Priorities

Usage

pact_mpox_priority

Format

A data.frame with 4 columns and 23 rows:

Variable	Description
<i>mpox_priority_code</i>	Two digit Mpox priority code
<i>mpox_priority</i>	Mpox priority name
<i>mpox_subpriority_code</i>	Four digit Mpox sub-priority code
<i>mpox_subpriority</i>	Mpox sub-priority name

Source

Pandemic PACT website <https://www.pandemicpact.org/>

Examples

pact_mpox_priority

pact_process_figshare *Process Pandemic PACT data*

Description

Process Pandemic PACT data

Usage

pact_process_figshare(df)

pact_process_figshare_category(df, category, other = NULL, nest = FALSE)

pact_process_figshare_category_pathogen(df)

pact_process_figshare_category_funder(df)

Arguments

df	A data.frame of the Pandemic PACT dataset from the Figshare repository or from the website.
category	A character value for the variable category to look for in the fields for df for collapsing multiple fields into one.
other	A character value for the name of the variable in df for values for other for fields that have an other option. Default to NULL to indicate that field category has no other option.
nest	Logical. Should variable/fields with multiple values be nested? Default to FALSE.

Value

A tibble of processed Pandemic PACT dataset.

Examples

```
## Not run:
pact_data <- pact_read_figshare(pact_client_set())
pact_process_figshare(df = pact_data)

## End(Not run)
```

pact_process_website *Process Pandemic PACT dataset retrieved from the website*

Description

Process Pandemic PACT dataset retrieved from the website

Usage

```
pact_process_website(pact_data, col_list = TRUE, fix = TRUE)
```

Arguments

pact_data	A data.frame for the Pandemic PACT dataset read from the Pandemic PACT website. This is usually obtained via a call to pact_read_website().
col_list	Logical. Should variable/fields with multiple values be made into column lists? Default to TRUE.
fix	Logical. Should fixes be applied to the dataset based on known issues? Default to TRUE.

Value

A tibble of the dataset from the website structured based on col_list and ‘fix’ specifications.

Examples

```
## Not run:
pact_data <- pact_read_website()
pact_process_website(pact_data)

## End(Not run)
```

pact_read_website	<i>Read datasets from the Pandemic PACT website</i>
-------------------	---

Description

Read datasets from the Pandemic PACT website

Usage

```
pact_read_website(.url = NULL)
```

Arguments

`.url` The URL for the website dataset.

Value

A tibble of the Pandemic PACT dataset from the website.

Examples

```
## Not run:
pact_read_website()

## End(Not run)
```

pact_research_category	<i>Pandemic PACT Research Categories</i>
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Description

Pandemic PACT Research Categories

Usage

```
pact_research_category
```

Format

A data.frame with 4 columns and 70 rows:

Variable	Description
<i>research_category_code</i>	Two digit research category code
<i>research_category</i>	Research category name
<i>research_subcategory_code</i>	Four digit research sub-category code
<i>research_subcategory</i>	Research sub-category name
<i>code</i>	Concatenated research category and sub-category code

Source

Pandemic PACT website <https://www.pandemicpact.org/>

Examples

```
pact_research_category
```

```
pact_table_topic_group
```

Process variable of interest from Pandemic PACT website data by a grouping variable

Description

Process variable of interest from Pandemic PACT website data by a grouping variable

Usage

```
pact_table_topic_group(
  pact_data_list_cols,
  topic,
  group = NULL,
  na_values = NULL
)

pact_table_disease(pact_data_list_cols, group = NULL, na_values = NULL)

pact_table_category(
  pact_data_list_cols,
  topic = c("ResearchCat", "ResearchSubcat"),
  na_values = NULL
)

pact_table_location_funder(
```

```

    pact_data_list_cols,
    topic = c("FunderRegion", "FunderCountry"),
    na_values = NULL
  )

  pact_table_location_institution(
    pact_data_list_cols,
    topic = c("ResearchInstitutionRegion", "ResearchInstitutionCountry"),
    na_values = NULL
  )

  pact_table_location_research(
    pact_data_list_cols,
    topic = c("ResearchLocationRegion", "ResearchLocationCountry"),
    na_values = NULL
  )

```

Arguments

pact_data_list_cols	A data.frame for the Pandemic PACT dataset read from the Pandemic PACT website that has already been pre-processed to have list columns for nested variables. This is usually obtained via a call to <code>pact_process_website()</code> with <code>col_list = TRUE</code> .
topic	A character value of the variable name in <code>pact_data</code> for the topic of interest.
group	A character value or vector of up to two values of the variable name/s in <code>pact_data_list_cols</code> to use as grouping variable/s. When specified as <code>NULL</code> (default), no grouping is applied to the tabulation based on the topic of interest and group specified.
na_values	A character value or vector of values for strings to be considered as NA for topic and group. If <code>NULL</code> (default), topic and group are kept as is.

Value

A data.frame structured based on specification. If `group` is `NULL`, the data.frame presents values for `topic` as first column and then either frequencies/counts of grants per topic value or sum of monetary amount of grants per topic. if `group` has one value, the data.frame presents values for `group` as first column followed by either frequencies/counts of grants per group or sum of monetary amount of grants per group then followed by the topics within each group followed by either frequencies/counts of grants per topic by group or sum of monetary amount of grants per topic by group.

Examples

```

## Not run:
df <- pact_read_website() |> pact_process_website()
pact_table_topic_group(df, topic = "Disease")

## End(Not run)

```

who_country_info	<i>World Health Organization (WHO) Country Information</i>
------------------	--

Description

World Health Organization (WHO) Country Information

Usage

who_country_info

Format

A data.frame with 5 columns and 194 rows:

Variable	Description
<i>country_iso3c</i>	ISO-3 country code
<i>who_short_name</i>	Country short name given by WHO
<i>formal_name</i>	Country formal name
<i>who_region</i>	WHO region name to which country belongs to
<i>un_region</i>	UN region name to which country belongs to

Source

Data are drawn from WHO's Data Country list found at <https://data.who.int/countries/>

Examples

who_country_info

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