# Package: pacta.data.scraping (via r-universe)

September 9, 2024

**Title** Scrapes data from various web sources needed for PACTA

**Version** 0.1.0.9000

**Description** This package provides tools to scrape data from various web sources needed for PACTA.

**License** MIT + file LICENSE

**Encoding** UTF-8

**Language** en-US

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.1

**Imports** cli (>= 3.5.0), countrycode, curl, dplyr (>= 1.1.0), httr2, jsonlite, lubridate, rlang, rvest, stats, tibble, tidyr, stringr, V8, logger

**Depends** R (>= 3.4.0)

**LazyData** true

**Suggests** devtools, knitr, pkgdown, rmarkdown, testthat (>= 3.0.0)

**Config/testthat/edition** 3

**Config/Needs/website** rmi-pacta/pacta.pkgdown.rmitemplate

**URL** `https://github.com/RMI-PACTA/pacta.data.scraping`

**BugReports** `https://github.com/RMI-PACTA/pacta.data.scraping/issues`

**Repository** https://rmi-pacta.r-universe.dev

**RemoteUrl** https://github.com/rmi-pacta/pacta.data.scraping

**RemoteRef** HEAD

**RemoteSha** 2136f37027c88aa2ee9d067a98c7e358647eeb2b

## Contents

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`get_currency_exchange_rates` *Get currency exchange rates for a given quarter from the IMF API*

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## Description

Get currency exchange rates for a given quarter from the IMF API

## Usage

```
get_currency_exchange_rates(quarter, max_seconds = 60L)
```

## Arguments

| | |
|---|---|
| `quarter` | A single string containing the desired quarter of data in the form "2022-Q4". |
| `max_seconds` | A single numeric containing the max number of seconds it should wait for a response |

## Value

A dataframe containing columns `currency` and `exchange_rate`

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`get_index_regions` *Get the definition of MSCI regions (in terms of member countries)*

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## Description

Get the definition of MSCI regions (in terms of member countries)

## Usage

```
get_index_regions()
```

## Value

A dataframe containing columns `equity_market`, `country`, and `country_iso` get_ishares_index_data

*Scrape index data from the iShares website*

## Description

This function will scrape and process holdings data from the iShares website.

## Usage

```
get_ishares_index_data(url, name, as_of_date)
```

## Arguments

| | |
|---|---|
| url | A string containing the url of the desired iShares index data. |
| name | A string containing the name of the index. |
| as_of_date | A string indicating the desired date, by year, month and date, "YYYYMMDD" (e.g. "20201231"). Data will be scraped for date specified. |

## Value

A data.frame, containing the un-processed iShares data.

## Examples

```
## Not run:
url <-
  paste0(
    "https://www.ishares.com/uk/individual/en/products/",
    "251813/ishares-global-corporate-bond-ucits-etf/"
  )
name <- "iShares Global Corporate Bond UCITS ETF <USD (Distributing)>"
as_of_date <- "20211231"

get_ishares_index_data(url, name, as_of_date)

## End(Not run)
```

process_ishares_index_data
*Process raw iShares data into PACTA readable format*

## Description

Process raw iShares data into PACTA readable format

## Usage

```
process_ishares_index_data(data)
```

## Arguments

| | |
|---|---|
| `data` | An iShares index dataset, like the output of `get_ishares_index_data()`. |

## Value

A processed dataset, formatted for input into `pacta.portfolio.analysis`.

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