

Package: priceR (via r-universe)

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Imports dplyr, gsubfn, stringr, purrr, jsonlite, stats, lubridate,
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BugReports <https://github.com/stevecondylios/priceR/issues>

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URL <https://github.com/stevecondylios/priceR>

Description Functions to aid in micro and macro economic analysis and handling of price and currency data. Includes extraction of relevant inflation and exchange rate data from World Bank API, data cleaning/parsing, and standardisation. Inflation adjustment calculations as found in Principles of Macroeconomics by Gregory Mankiw et al (2014). Current and historical end of day exchange rates for 171 currencies from the European Central Bank Statistical Data Warehouse (2020) <<https://sdw.ecb.europa.eu/curConverter.do>>.

Encoding UTF-8

RoxygenNote 7.2.3

Suggests testthat

LazyData true

Repository <https://stevecondylios.r-universe.dev>

RemoteUrl <https://github.com/stevecondylios/pricer>

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adjust_for_inflation *Convert nominal prices into real prices*

Description

Inflate/deflate prices from any year to any year, using World Bank inflation data and assumptions only where necessary. Typically used for converting past (nominal) values into current (real) values. This uses World Bank inflation data where available, but allows for both historical and future assumptions in extrapolation.

Usage

```
adjust_for_inflation(price, from_date, country, to_date, inflation_dataframe,
                    countries_dataframe, extrapolate_future_method, future_averaging_period, future_rate,
                    extrapolate_past_method, past_averaging_period, past_rate)
```

```
afi(
    price,
```

```

    from_date,
    country,
    to_date,
    inflation_dataframe,
    countries_dataframe,
    extrapolate_future_method,
    future_averaging_period,
    future_rate,
    extrapolate_past_method,
    past_averaging_period,
    past_rate
  )

```

Arguments

| | |
|---------------------------|---|
| price | A price (or prices). |
| from_date | A date(s) from which the prices will be converted. |
| country | A country or region in whose currency the prices are denominated. |
| to_date | A date(s) to which the prices will be converted. |
| inflation_dataframe | The R object (list) representing the JSON retrieved by calling <code>retrieve_inflation_data()</code> . |
| countries_dataframe | The R object (data.frame) representing the JSON retrieved by calling <code>show_countries()</code> . |
| extrapolate_future_method | The extrapolation method that shall be used if extrapolation into the future is required. Options are 'average' or 'rate'. |
| future_averaging_period | The number of recent periods to average in order to extrapolate forward (if 'average' is method being used). |
| future_rate | An assumed rate of inflation to use for extrapolating forward (if 'rate' is method being used). |
| extrapolate_past_method | The extrapolation method that shall be used if extrapolation from the earliest available data to some even earlier period is required. |
| past_averaging_period | The number of periods back from the earliest available inflation data for a given country to average in order to extrapolate into the past (if 'average' is method being used). |
| past_rate | An assumed rate of inflation to use for extrapolating from the earliest available data to some even earlier period (if 'rate' is method being used). |

Value

A vector of inflation-adjusted prices

Examples

```
## Not run:
# Assign these variables once
country <- "AU"
inflation_dataframe <- retrieve_inflation_data(country)
countries_dataframe <- show_countries()

# Convert $100 from 2005 into 2017 dollars

adjust_for_inflation(100, 2005, country, to_date = 2017,
inflation_dataframe = inflation_dataframe,
countries_dataframe = countries_dataframe)

# [1] 133.9861 # i.e. $100 in 2005 had the same purchasing power as $133.99 in 2017

## End(Not run)
```

```
append_exchangeratehost_access_key
```

Retrieves exchangerate.host (forex) API key from R environment variables and appends to API call

Description

Retrieves exchangerate.host (forex) API key from R environment variables and appends to API call

Usage

```
append_exchangeratehost_access_key(url)
```

Arguments

url A URL representing an API endpoint

Value

The input URL with API access key appended as a URL parameter

Examples

```
## Not run:
base_url <- "https://api.exchangerate.host/latest?base=USD"
base_url %>% append_exchangeratehost_access_key

# [1] "https://api.exchangerate.host/latest?base=USD&access_key=7e5e3140140bd8e4f4650cc41fc772c0"

## End(Not run)
```

convert_currencies *Convert Currencies*

Description

Vectorized approach to converting prices across potentially different dates and between different currencies.

Usage

```
convert_currencies(  
  price_start,  
  from,  
  to,  
  date = lubridate::today(),  
  floor_unit = "day"  
)
```

Arguments

| | |
|-------------|--|
| price_start | Numeric vector of prices in terms of 'from' currenc(ies). |
| from | Character vector of currenc(ies) of 'price_start'. |
| to | Character vector of currenc(ies) to convert 'price_start' to. |
| date | Date vector specifying date of exchange rate to use. |
| floor_unit | Character string. Default is "day" meaning that 'date' will be converted based on daily conversion rates. Changing to "week" will change conversions to be based on the start of the week of 'date'. |

Value

Numeric vector of 'price_start' now in the 'to' currenc(ies).

Examples

```
## Not run:  
library(dplyr)  
  
sales_transactions <- tibble(  
  local_price = c(100, 80, 9200, 90),  
  local_currency = c("USD", "EUR", "JPY", "USD"),  
  final_currency = c("EUR", "USD", "USD", "JPY"),  
  date_transaction = lubridate::ymd(c(20200601, 20200609, 20200614, 20200623))  
)  
# Some made-up sales transactions of different values and currencies
```

```

sales_transactions %>%
  mutate(
    converted_price = convert_currencies(
      price_start = local_price,
      from = local_currency,
      to = final_currency,
      date = date_transaction
    )
  )

## End(Not run)

```

convert_to_iso2Code *Convert any country input into its iso2Code*

Description

'convert_to_iso2Code' accepts the type of country input and the country, and returns the relevant iso2Code

Usage

```
convert_to_iso2Code(country_input_type_string, country, countries_dataframe)
```

Arguments

country_input_type_string Either "country_name" or "iso2Code" - use country_input_type(country, countries_dataframe) to determine or assign manually.

country A country/region name or iso2Code.

countries_dataframe The output of show_countries()

Value

A character vector containing a valid iso2Code

Examples

```

## Not run:

# Assign so as to save on API calls (recommended)
countries_dataframe <- show_countries()
country <- "Australia"
country_input_type_string <- country_input_type(country, countries_dataframe)
convert_to_iso2Code(country_input_type_string, country, countries_dataframe)
# [1] "AU"

country <- "AU"

```

```
country_input_type_string <- country_input_type(country, countries_dataframe)
convert_to_iso2Code(country_input_type_string, country, countries_dataframe)
# [1] "AU"
```

```
## End(Not run)
```

| | |
|--------------------|---|
| country_input_type | <i>Determines whether country input is a country name or iso2Code</i> |
|--------------------|---|

Description

Determines whether a string is a country name, an iso2Code, or invalid (not a World Bank API country/region)

Usage

```
country_input_type(country_input, countries_dataframe)
```

Arguments

`country_input` A country/region the user wishes to validate (string) E.g. "Australia".
`countries_dataframe` A dataframe containing available iso2Code and country_name (see `show_countries()`).

Value

A character vector

Examples

```
## Not run:
# Assign so as to save on API calls - recommended
countries_dataframe <- show_countries()

country <- "Australia"
country_input_type(country, countries_dataframe)
# [1] "country_name"

country <- "AU"
country_input_type(country, countries_dataframe)
# [1] "iso2Code"

country <- "something other than a valid country name or iso2Code"
country_input_type(country, countries_dataframe)
# [1] "invalid"

## End(Not run)
```

| | |
|------------|---|
| currencies | <i>Retrieve available currencies and their respective symbols/codes</i> |
|------------|---|

Description

Retrieve available currencies and their respective symbols/codes

Usage

```
currencies()
```

Value

A data.frame of available currencies and their respective symbols/codes

Examples

```
## Not run:
# Display available currencies and their respective symbols/codes
currencies()
#           description code
# 1 United Arab Emirates Dirham AED
# 2   Afghan Afghani AFN
# 3   Albanian Lek ALL
# 4   Armenian Dram AMD
# 5 Netherlands Antillean Guilder ANG
# 6   Angolan Kwanza AOA
# 7   Argentine Peso ARS

## End(Not run)
```

| | |
|---------------------|------------------------------------|
| currency_characters | <i>Provide currency characters</i> |
|---------------------|------------------------------------|

Description

Provide currency characters

Usage

```
currency_characters()
```

Value

A character vector of currency symbols

Examples

```
currency_characters()
```

| | |
|---------------|---|
| currency_info | <i>Information for each of 191 currencies</i> |
|---------------|---|

Description

Information for each of 191 currencies

Usage

```
currency_info
```

Format

An object of class `data.frame` with 191 rows and 15 columns.

Value

A `data.frame` containing currency information for 191 currencies. Currency information includes: name, iso code, currency symbol (and alternative symbols if applicable), subunit, number of subunits per major unit, whether the currency symbol ought to appear before or after the number of units, display format, html entity, decimal mark, thousands separator, iso numeric, and smallest denomination.

Examples

```
head(currency_info)
```

| | |
|---------------------|--|
| currency_to_numeric | <i>Convert human readable currencies into numeric data</i> |
|---------------------|--|

Description

Convert human readable currencies into numeric data

Usage

```
currency_to_numeric(currency_text)
```

Arguments

`currency_text` Price or vector of prices

Value

A numeric vector

Examples

```
library(dplyr)
c("$134,345.05", "£22", "¥30000") %>% currency_to_numeric()
# [1] 134345    22  30000
```

display_api_info *Display link to further information*

Description

Display link to further information

Usage

```
display_api_info()
```

Examples

```
## Not run:
# Display a message indicating where further documentation can be found

## End(Not run)
```

exchange_rate_latest *Retrieve the latest exchange rates between the provided currency code*

Description

Retrieve the latest exchange rates between the provided currency code

Usage

```
exchange_rate_latest(currency)
```

Arguments

currency A currency code (see `currencies()` for supported codes)

Value

A data.frame containing the latest exchange rates between the provided currency code and each other available currency

Examples

```
## Not run:

exchange_rate_latest("AUD")
# Daily AUD exchange rate as at end of day 2020-07-27 GMT
#   currency one_aud_is_equivalent_to
# 1      AED                2.61894
# 2      AFN                54.47724
# 3      ALL                75.51799
# 4      AMD               343.40193
# 5      ANG                1.26829
# 6      AOA               400.54604

# Defaults to USD
exchange_rate_latest()
#   currency one_USD_is_equivalent_to
# 1      AED                3.6730
# 2      AFN                76.4035
# 3      ALL               105.9129
# 4      AMD               481.6162
# 5      ANG                1.7788
# 6      AOA               561.7599

# It can also accept other base rates
exchange_rate_latest("AUD")
#   currency one_AUD_is_equivalent_to
# 1      AED                2.31619
# 2      AFN                48.69229
# 3      ALL                63.87806
# 4      AMD               260.72150
# 5      ANG                1.13675
# 6      AOA               522.76772

## End(Not run)
```

extract_salary *Extract numeric salary from text data*

Description

Extract numeric salary from text data. ‘extract_salary’ automatically converts weekly and hourly rates to amounts per annum.

Usage

```
extract_salary(salary_text, exclude_below, exclude_above, salary_range_handling,
include_periodicity, hours_per_workday, days_per_workweek, working_weeks_per_year)
```

Arguments

- `salary_text` A character string, or vector of character strings.
- `exclude_below` A lower bound. Anything lower than this number will be replaced with NA.
- `exclude_above` An upper bound. Anything above this number will be replaced with NA.
- `salary_range_handling`
A method of handling salary ranges. Defaults to returning an average of the range; can also be set to "max" or "min".
- `include_periodicity`
Set to TRUE to return an additional column stating the detected periodicity in the character string. Periodicity is assumed to be 'Annual' unless evidence is found to the contrary.
- `hours_per_workday`
Set assumed number of hours in the workday. Only affects annualisation of rates identified as Daily. Default is 8 hours.
- `days_per_workweek`
Set assumed number of days per workweek. Only affects annualisation of rates identified as Daily. Default is 5 days.
- `working_weeks_per_year`
Set assumed number of working weeks in the year. Only affects annualisation of rates identified as Daily or Weekly. Default is 50 weeks.

Value

A data.frame of 1 column, or 2 columns if `include_periodicity` is set to TRUE

Examples

```
# Provide a salary string and 'extract_salary' and will extract the salary and return it
extract_salary("$160,000 per annum")
# 160000

# If a range is present, the average will be taken by default
extract_salary("$160,000 - $180000.00 per annum")
# 170000

# Take the 'min' or 'max' of a salary range by setting salary_range_handling parameter accordingly
extract_salary("$160,000 - $180000.00 per annum", salary_range_handling = "min")
# 160000

# Extract salaries from character string(s)
annual_salaries <- c("$160,000 - $180000.00 per annum",
  "$160000.00 - $180000.00 per annum",
  "$145000 - $155000.00 per annum",
  "$70000.00 - $90000 per annum",
  "$70000.00 - $90000.00 per annum plus 15.4% super",
  "$80000.00 per annum plus 15.4% super",
```

```

"60,000 - 80,000",
"$78,686 to $89,463 pa, plus 15.4% superannuation",
"80k - 100k")

extract_salary(annual_salaries)
# 170000 170000 150000 80000 53338 40008 70000 56055 90000
# Note the fifth, sixth, and eighth elements are averages including '15' (undesirable)
# Using exclude_below parameter avoids this (see below)

# Automatically detect, extract, and annualise daily rates
daily_rates <- c("$200 daily", "$400 - $600 per day", "Day rate negotiable dependent on experience")
extract_salary(daily_rates)
# 48000 120000      NA

# Automatically detect, extract, and annualise hourly rates
hourly_rates <- c("$80 - $100+ per hour", "APS6/EL1 hourly rate contract")
extract_salary(hourly_rates)
# 172800 6720
# Note 6720 is undesirable. Setting the exclude_below and exclude_above sensibly avoids this

salaries <- c(annual_salaries, daily_rates, hourly_rates)

# Setting lower and upper bounds provides a catch-all to remove unrealistic results
# Out of bounds values will be converted to NA
extract_salary(salaries, exclude_below = 20000, exclude_above = 600000)
# 170000 170000 150000 80000 80000 80000 70000 84074 90000 48000 120000      NA 172800      NA

# extract_salary automatically annualises hourly and daily rates
# It does so by making assumptions about the number of working weeks in a year,
# days per workweek, and hours per workday
# And the assumed number of hours per workday can be changed from the default (8)
# The assumed number of workdays per workweek can be changed from the default (5)
# The assumed number of working weeks in year can be changed from the default (50)
# E.g.
extract_salary(salaries, hours_per_workday = 7, days_per_workweek = 4,
              working_weeks_per_year = 46, exclude_below = 20000)
# 170000 170000 150000 80000 53338 40008 70000 56055 90000 36800 92000      NA 115920      NA

# To see which salaries were detected as hourly or weekly, set include_periodicity to TRUE
extract_salary(salaries, include_periodicity = TRUE, exclude_below = 20000)

# salary periodicity
# 1 170000      Annual
# 2 170000      Annual
# 3 150000      Annual
# 4 80000       Annual
# 5 80000       Annual
# 6 80000       Annual

```

```
# 7 70000 Annual
# 8 84074 Annual
# 9 90000 Annual
# 10 48000 Daily
# 11 120000 Daily
# 12 NA Daily
# 13 172800 Hourly
# 14 NA Hourly
```

format_currency *Make numeric currency values human readable*

Description

Make numeric currency values human readable

Usage

```
format_currency(amount, symbol, digits)
```

Arguments

| | |
|--------|---|
| amount | Price or vector of prices (character, numeric, or integer) |
| symbol | Symbol to prepend to amount (e.g. \$) see: <code>currency_characters()</code> |
| digits | The number of decimal places. Set equal to 2 to include cents (defaults to 0 i.e. whole major currency units) |

Value

A character vector

Examples

```
# format_currency("2423562534234", "$")
# "$2,423,562,534,234"

# format_currency("2423562534234.876", "$", 0)
# "$2,423,562,534,234"

# format_currency("2423562534234.876", "$", 2)
# "$2,423,562,534,234.88"

# format_currency("2423562534234", "¥", 2)
# "¥2,423,562,534,234.00"

# format_currency() is vectorized and can accept vector arguments
format_currency(c("2423562534234", "20"), c("¥", "$"), c(1, 2))
```

```
# "¥2,423,562,534,234.0" "$20.00"
```

| | |
|----------------|--|
| format_dollars | <i>Make numeric currency values human readable</i> |
|----------------|--|

Description

Make numeric currency values human readable

Usage

```
format_dollars(amount, digits)
```

Arguments

| | |
|--------|--|
| amount | Price or vector of prices (character, numeric, or integer) |
| digits | The number of decimal places. Set equal to 2 to include cents (defaults to 0 i.e. whole dollars) |

Value

A character vector

Examples

```
# format_dollars("2423562534234")
# "$2,423,562,534,234"

# format_dollars("2423562534234.876", 0)
# "$2,423,562,534,234"

# format_dollars("2423562534234.876", 2)
# "$2,423,562,534,234.88"

# format_dollars("2423562534234", 2)
# "$2,423,562,534,234.00"
```

from_to_dates_rates *Wrapper around 'priceR::historical_exchange_rates()' with slight modifications to structure of inputs and output*

Description

Wrapper around 'priceR::historical_exchange_rates()' with slight modifications to structure of inputs and output

Usage

```
from_to_dates_rates(from, to, dates)
```

Arguments

| | |
|-------|--|
| from | A currency code (see currencies() for supported codes) |
| to | A currency code |
| dates | A list of date ranges |

Value

A data.frame with two columns: date (of class Date), and rate (of class numeric).

Examples

```
## Not run:  
library(lubridate)  
from_to_dates_rates("AUD", "USD", dates = list(today()-10, today()))  
  
## End(Not run)
```

historical_exchange_rates
Retrieve historical exchange rates

Description

Retrieves historical exchange rates between a currency pair

Usage

```
historical_exchange_rates(from, to, start_date, end_date)
```


Arguments

| | |
|------------|--|
| from | A currency code (see currencies() for supported codes) |
| to | A currency code |
| start_date | A start date (of the form "2010-01-01") |
| end_date | An end date |

Value

A data.frame containing exchange rate data for select currency pair

Examples

```
## Not run:
Retrieve AUD to USD exchange rates
au <- historical_exchange_rates(from = "AUD", to = "USD",
                               start_date = "2010-01-01", end_date = "2020-06-30")

# Retrieve AUD to EUR exchange rates
ae <- historical_exchange_rates(from = "AUD", to = "EUR",
                               start_date = "2010-01-01", end_date = "2020-06-30")

# Combine
cur <- au %>% left_join(ae, by = "date")

head(cur)

## End(Not run)
```

| | |
|------------|---|
| make_dates | <i>Creates date ranges so as to batch up large API calls into many smaller ones</i> |
|------------|---|

Description

Creates date ranges so as to batch up large API calls into many smaller ones

Usage

```
make_dates(start_date, end_date, n_days)
```

Arguments

| | |
|------------|---|
| start_date | A start date (of the form "2010-01-01") |
| end_date | An end date |
| n_days | The maximum number of days in each period |

Value

A data.frame containing start and end dates for periods of length no longer than n_days

Examples

```
# Simple test
start_date = "2010-01-01"
end_date = "2020-06-30"
n_days = 365
priceR::make_dates(start_date, end_date, n_days)

# With lots of periods
start_date = "2010-01-01"
end_date = "2020-06-30"
n_days = 20
priceR::make_dates(start_date, end_date, n_days)

# Less than one period
start_date = "2020-01-01"
end_date = "2020-06-30"
n_days = 365
priceR::make_dates(start_date, end_date, n_days)

# 366 days (note 2020 was a leap year)
start_date = "2019-07-30"
end_date = "2020-07-29"
n_days = 365
priceR::make_dates(start_date, end_date, n_days)

# 365 days
start_date = "2019-07-30"
end_date = "2020-07-28"
n_days = 365
priceR::make_dates(start_date, end_date, n_days)

# 1095 days (3 years)
start_date = "2019-07-30"
end_date = "2022-07-28"
n_days = 365
priceR::make_dates(start_date, end_date, n_days)
```

pminmax

Removes redundant API calls of currency pairs. That is, revmoes the need to for separate calls for both 'from = EUR, to = USD' and 'from = USD, to = EUR'

Description

Removes redundant API calls of currency pairs. That is, revmoes the need to for separate calls for both 'from = EUR, to = USD' and 'from = USD, to = EUR'

Usage

```
pminmax(x, y)
```

Arguments

| | |
|---|--|
| x | A currency code (see currencies() for supported codes) |
| y | A currency code |

Value

A character vector

Examples

```
# See: https://stackoverflow.com/a/73254014/9059865
```

```
retrieve_historical_rates  
      Retrieve historical exchange rates
```

Description

Retrieves historical exchange rates between a currency pair - retrieves max. 365 days' data

Usage

```
retrieve_historical_rates(from, to, start_date, end_date)
```

Arguments

| | |
|------------|--|
| from | A currency code (see currencies() for supported codes) |
| to | A currency code |
| start_date | A start date (of the form "2010-01-01") |
| end_date | An end date |

Value

A data.frame containing exchange rate data for select currency pair

Examples

```
## Not run:
# Note date range >365 days', yet only 365 days' returned.
# Use historical_exchange_rates() for > 365 days'.
priceR::retrieve_historical_rates("USD", to = "AUD",
                                start_date = "2018-01-01",
                                end_date = "2020-06-30")

## End(Not run)
```

retrieve_inflation_data

Retrieve historical inflation data

Description

Retrieve inflation data for any country/region (using iso2Code or country_name)

Usage

```
retrieve_inflation_data(country, countries_dataframe)
```

Arguments

country A country_name or iso2code (see show_countries() for complete list of available inputs).

countries_dataframe The output from show_countries(). It is optional, but if not provided, it will be retrieved via the API.

Value

A data.frame containing inflation data from World Bank API for specified country

Examples

```
## Not run:
# Retrieve inflation data for any country (or iso2Code)
country <- "AU"
inflation_dataframe <- retrieve_inflation_data(country)

country <- "Australia"
countries_dataframe <- show_countries()
inflation_dataframe <- retrieve_inflation_data(country, countries_dataframe)

## End(Not run)
```

```
# inflation_dataframe
#   indicator.id           indicator.value country.id country.value   value
# FP.CPI.TOTL.ZG Inflation, consumer prices (annual %)    AU   Australia   <NA>
# FP.CPI.TOTL.ZG Inflation, consumer prices (annual %)    AU   Australia   1.94864
# FP.CPI.TOTL.ZG Inflation, consumer prices (annual %)    AU   Australia   1.27699
# FP.CPI.TOTL.ZG Inflation, consumer prices (annual %)    AU   Australia   1.50836
# Etc
```

round_down_to_nearest *Round prices down to the nearest specified increment*

Description

Round prices down to the nearest specified increment

Usage

```
round_down_to_nearest(amount, to_nearest)
```

Arguments

| | |
|------------|---|
| amount | Price to be rounded |
| to_nearest | Increment to which price is to be rounded down to |

Examples

```
# Round down to nearest 0.05 (5c)
library(dplyr)
prices <- c(4.45, 5.22, 0.16, 27.88, 112.19)
prices %>% round_down_to_nearest(0.05)
```

```
# Round down to nearest $10
prices <- c(4.45, 5.22, 0.16, 27.88, 112.19)
prices %>% round_down_to_nearest(10)
```

round_to_nearest *Round prices to the nearest specified increment*

Description

Round prices to the nearest specified increment

Usage

```
round_to_nearest(amount, to_nearest)
```

Arguments

| | |
|------------|--|
| amount | Price to be rounded |
| to_nearest | Increment to which price is to be rounded to |

Examples

```
# Round to nearest 0.05 (5c)
library(dplyr)
prices <- c(4.45, 5.22, 0.16, 27.88, 112.19)
prices %>% round_to_nearest(0.05)
```

```
# Round to nearest $10
prices <- c(4.45, 5.22, 0.16, 27.88, 112.19)
prices %>% round_to_nearest(10)
```

round_up_to_nearest *Round prices up to the nearest specified increment*

Description

Round prices up to the nearest specified increment

Usage

```
round_up_to_nearest(amount, to_nearest)
```

Arguments

| | |
|------------|---|
| amount | Price to be rounded |
| to_nearest | Increment to which price is to be rounded up to |

Examples

```
# Round up to nearest 0.05 (5c)
library(dplyr)
prices <- c(4.45, 5.22, 0.16, 27.88, 112.19)
prices %>% round_up_to_nearest(0.05)

# Round up to nearest $10
prices <- c(4.45, 5.22, 0.16, 27.88, 112.19)
prices %>% round_up_to_nearest(10)
```

| | |
|----------------|-------------------------------------|
| show_countries | <i>Show available country codes</i> |
|----------------|-------------------------------------|

Description

'show_countries' calls the World Bank API and retrieves a list of available countries and regions

Usage

```
show_countries()
```

Value

A data.frame of countries available to query using the World Bank API

Examples

```
# Simply call show_countries() to receive a dataframe of all countries (and regions) and their
# iso2Code

# show_countries()
#   iso2Code   country_name
# 1      AW      Aruba
# 2      AF  Afghanistan
# 3      A9      Africa
# 4      AO      Angola
#   Etc
```

| | |
|-----------------|--|
| url_all_results | <i>Generate a World Bank API URL that will return all results for a given indicator in JSON format</i> |
|-----------------|--|

Description

results and returns JSON format

Usage

```
url_all_results(original_url)
```

Arguments

original_url A World Bank API URL. E.g. "https://api.worldbank.org/v2/country".

Value

A character vector

Examples

```
# Provide a World Bank API URL and `url_all_results` will convert it into one with all results
# for that indicator
## Not run:
  original_url <- "https://api.worldbank.org/v2/country" # Note: no ?format=json on url
  url_all_results(original_url)

## End(Not run)
# "https://api.worldbank.org/v2/country?format=json&per_page=304"
```


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