

Package: inflateR (via r-universe)

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Title Inflation Adjustment for Historical Currency Values

Version 0.2.0

Description Convert historical monetary values into their present-day equivalents using bundled CPI (Consumer Price Index) and GDP deflator data sourced from the World Bank Development Indicators. Supports British pounds (GBP), Australian dollars (AUD), US dollars (USD), Euro (EUR), Canadian dollars (CAD), Japanese yen (JPY), Chinese yuan (CNY), Swiss francs (CHF), New Zealand dollars (NZD), Indian rupees (INR), South Korean won (KRW), Brazilian reais (BRL), and Norwegian krone (NOK). Currency codes and country names are both accepted as input.

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Encoding UTF-8

Language en-US

URL <https://charlescoverdale.github.io/inflateR/>,
<https://github.com/charlescoverdale/inflateR>

BugReports <https://github.com/charlescoverdale/inflateR/issues>

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Contents

adjust_inflation	2
adjust_real	3
aud_cpi	5
aud_gdp_def	5
brl_cpi	6
brl_gdp_def	6
cad_cpi	7
cad_gdp_def	7
chf_cpi	8
chf_gdp_def	8
cny_cpi	9
cny_gdp_def	9
eur_cpi	10
eur_gdp_def	10
historical_real	11
historical_value	12
inflation_rate	13
inr_cpi	13
inr_gdp_def	14
jpy_cpi	14
jpy_gdp_def	15
krw_cpi	15
krw_gdp_def	16
list_currencies	16
nok_cpi	17
nok_gdp_def	18
nzd_cpi	18
nzd_gdp_def	19
uk_cpi	19
uk_gdp_def	20
usd_cpi	20
usd_gdp_def	21
Index	22

adjust_inflation	<i>Adjust a historical monetary value for inflation</i>
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Description

Converts an amount from a historical year into its equivalent value in a target year, using bundled CPI data sourced from the World Bank Development Indicators. Supports GBP, AUD, USD, EUR, CAD, JPY, CNY, CHF, NZD, INR, KRW, BRL, and NOK.

Usage

```
adjust_inflation(amount, from_year, currency, to_year = NULL, round = 2)
```

Arguments

amount	Numeric (scalar or vector). The original monetary amount(s).
from_year	Integer. The year the amount is from.
currency	Character. A currency code or country name. Accepted codes: "GBP", "AUD", "USD", "EUR", "CAD", "JPY", "CNY", "CHF", "NZD", "INR", "KRW", "BRL", "NOK". Country names are also accepted, e.g. "Australia", "United States", "Japan", "New Zealand", "India", "Norway" (case-insensitive).
to_year	Integer. The target year to adjust to. Defaults to the latest available year in the data.
round	Integer or NULL. Number of decimal places to round to (default 2). Use NULL for full precision.

Value

A numeric value (or vector) representing the inflation-adjusted amount.

See Also

Other CPI adjustment: [historical_value\(\)](#)

Examples

```
# What is £12 from 1963 worth today?
adjust_inflation(12, 1963, "GBP")

# What is AUD 50 from 1980 worth in 2000?
adjust_inflation(50, 1980, "AUD", to_year = 2000)

# Full precision
adjust_inflation(100, 2000, "USD", to_year = 2020, round = NULL)
```

adjust_real

Adjust a monetary value using a GDP deflator

Description

Converts an amount between two years using GDP deflator data sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Suitable for adjusting GDP figures, government expenditure, and other macroeconomic aggregates. For adjusting personal or consumer values (wages, prices of goods), use [adjust_inflation](#) which uses CPI instead.

Usage

```
adjust_real(amount, from_year, currency, to_year = NULL, round = 2)
```

Arguments

amount	Numeric (scalar or vector). The original monetary amount(s).
from_year	Integer. The year the amount is from.
currency	Character. A currency code or country name. Accepted codes: "GBP", "AUD", "USD", "EUR", "CAD", "JPY", "CNY", "CHF", "NZD", "INR", "KRW", "BRL", "NOK". Country names are also accepted, e.g. "Australia", "United States", "Japan", "Switzerland" (case-insensitive).
to_year	Integer. The target year to adjust to. Defaults to the latest available year in the deflator series.
round	Integer or NULL. Number of decimal places to round to (default 2). Use NULL for full precision.

Details

The GDP deflator measures price changes across all goods and services produced in an economy, unlike CPI which tracks a fixed consumer basket. Key differences from CPI:

- Covers all domestic production, not just consumer goods
- Excludes imported goods (CPI includes them)
- Updates its basket automatically (CPI uses a fixed basket)
- Published annually/quarterly (CPI is monthly)

Use the GDP deflator when comparing macroeconomic aggregates (GDP, government spending, investment) across time. Use [adjust_inflation](#) for personal or consumer values.

Value

A numeric value (or vector) representing the deflator-adjusted amount.

See Also

Other GDP deflator adjustment: [historical_real\(\)](#)

Examples

```
# Adjust UK GDP from 1990 to today using GDP deflator
adjust_real(500000, 1990, "GBP")
```

```
# Compare US government spending in 2000 vs 2020 terms
adjust_real(1000000, 2000, "USD", to_year = 2020)
```

aud_cpi	<i>Australian CPI Data (1960-2024)</i>
---------	--

Description

Annual Consumer Price Index for Australia, sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100.

Usage

aud_cpi

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

aud_gdp_def	<i>Australian GDP Deflator Data (1960-2024)</i>
-------------	---

Description

Annual GDP deflator for Australia, sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100.

Usage

aud_gdp_def

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

brl_cpi	<i>Brazilian CPI Data (1980-2024)</i>
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Description

Annual Consumer Price Index for Brazil, sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100. Data availability begins in 1980.

Usage

brl_cpi

Format

A data frame with 45 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

brl_gdp_def	<i>Brazilian GDP Deflator Data (1960-2024)</i>
-------------	--

Description

Annual GDP deflator for Brazil, sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100.

Usage

brl_gdp_def

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

cad_cpi	<i>Canadian CPI Data (1960-2024)</i>
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Description

Annual Consumer Price Index for Canada, sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100.

Usage

cad_cpi

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

cad_gdp_def	<i>Canadian GDP Deflator Data (1960-2024)</i>
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Description

Annual GDP deflator for Canada, sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100.

Usage

cad_gdp_def

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

chf_cpi	<i>Swiss CPI Data (1960-2024)</i>
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Description

Annual Consumer Price Index for Switzerland, sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100.

Usage

chf_cpi

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

chf_gdp_def	<i>Swiss GDP Deflator Data (1960-2024)</i>
-------------	--

Description

Annual GDP deflator for Switzerland, sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100.

Usage

chf_gdp_def

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

cny_cpi	<i>Chinese CPI Data (1986-2024)</i>
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Description

Annual Consumer Price Index for China, sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100. Data availability begins in 1986.

Usage

cny_cpi

Format

A data frame with 39 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

cny_gdp_def	<i>Chinese GDP Deflator Data (1960-2024)</i>
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Description

Annual GDP deflator for China, sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100.

Usage

cny_gdp_def

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

eur_cpi	<i>Euro Area CPI Data (1960-2024)</i>
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Description

Annual Consumer Price Index for Germany, used as a proxy for the Euro (EUR). Sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100.

Usage

eur_cpi

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Details

Note: The Euro area aggregate is not available in WDI. Germany is used as a proxy as it is the largest Eurozone economy and was the monetary anchor (Deutsche Mark) prior to the Euro's introduction in 1999.

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

eur_gdp_def	<i>Euro Area GDP Deflator Data (1960-2024)</i>
-------------	--

Description

Annual GDP deflator for Germany, used as a proxy for the Euro (EUR). Sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100.

Usage

eur_gdp_def

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

historical_real	<i>Convert a value to its historical equivalent using a GDP deflator</i>
-----------------	--

Description

Takes a monetary amount from a recent year and returns what it would have been worth in a specified historical year, using GDP deflator data sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). This is the inverse of [adjust_real](#).

Usage

```
historical_real(amount, to_year, currency, from_year = NULL, round = 2)
```

Arguments

amount	Numeric (scalar or vector). The monetary amount(s) in the reference year.
to_year	Integer. The historical year to convert back to.
currency	Character. Currency code ("GBP", "AUD", "USD", "EUR", "CAD", "JPY", "CNY", "CHF", "NZD", "INR", "KRW", "BRL", "NOK") or country name ("Australia", "United States", etc.) — case-insensitive.
from_year	Integer. The year the amount is from. Defaults to the latest year available in the deflator series.
round	Integer or NULL. Number of decimal places to round to (default 2). Use NULL for full precision.

Details

For converting consumer or personal values, use [historical_value](#) which uses CPI instead.

Value

A numeric value (or vector) representing the historical equivalent amount.

See Also

Other GDP deflator adjustment: [adjust_real\(\)](#)

Examples

```
# What would UK GDP of £2 trillion today have been in 1990 terms?
historical_real(2e12, 1990, "GBP")

# What would USD 1 trillion in 2020 have been worth in 2000?
historical_real(1e12, 2000, "USD", from_year = 2020)
```

historical_value *Convert a present-day value to its historical equivalent*

Description

Takes a monetary amount from a recent year and returns what it would have been worth in a specified historical year, using bundled CPI data sourced from the World Bank Development Indicators. Supports GBP, AUD, USD, EUR, CAD, JPY, CNY, CHF, NZD, INR, KRW, BRL, and NOK.

Usage

```
historical_value(amount, to_year, currency, from_year = NULL, round = 2)
```

Arguments

amount	Numeric (scalar or vector). The monetary amount(s) in the reference year.
to_year	Integer. The historical year to convert back to.
currency	Character. Currency code ("GBP", "AUD", "USD", "EUR", "CAD", "JPY", "CNY", "CHF", "NZD", "INR", "KRW", "BRL", "NOK") or country name ("Australia", "United States", etc.) — case-insensitive.
from_year	Integer. The year the amount is from. Defaults to the latest year available in the data.
round	Integer or NULL. Number of decimal places to round to (default 2). Use NULL for full precision.

Value

A numeric value (or vector) representing the historical equivalent amount.

See Also

Other CPI adjustment: [adjust_inflation\(\)](#)

Examples

```
# What would £100 today have been worth in 1963?
historical_value(100, 1963, "GBP")

# What would USD 500 in 2020 have been worth in 1980?
historical_value(500, 1980, "USD", from_year = 2020)
```

inflation_rate	<i>Calculate the inflation rate between two years</i>
----------------	---

Description

Returns the cumulative or annualised inflation rate between two years, using bundled CPI data sourced from the World Bank Development Indicators.

Usage

```
inflation_rate(from_year, to_year = NULL, currency, annualise = FALSE)
```

Arguments

from_year	Integer. The starting year.
to_year	Integer. The ending year. Defaults to the latest available year in the data.
currency	Character. A currency code or country name (case-insensitive). See adjust_inflation for accepted values.
annualise	Logical. If TRUE, returns the annualised (compound annual) rate. If FALSE (default), returns the cumulative rate.

Value

A numeric value representing the inflation rate as a proportion (e.g. 0.35 means 35\

Examples

```
# Cumulative US inflation from 2000 to 2020
inflation_rate(2000, 2020, "USD")

# Annualised UK inflation from 1990 to 2020
inflation_rate(1990, 2020, "GBP", annualise = TRUE)
```

inr_cpi	<i>Indian CPI Data (1960-2024)</i>
---------	------------------------------------

Description

Annual Consumer Price Index for India, sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100.

Usage

```
inr_cpi
```

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

inr_gdp_def	<i>Indian GDP Deflator Data (1960-2024)</i>
-------------	---

Description

Annual GDP deflator for India, sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100.

Usage

inr_gdp_def

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

jpy_cpi	<i>Japanese CPI Data (1960-2024)</i>
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Description

Annual Consumer Price Index for Japan, sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100.

Usage

jpy_cpi

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

jpy_gdp_def	<i>Japanese GDP Deflator Data (1960-2024)</i>
-------------	---

Description

Annual GDP deflator for Japan, sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100.

Usage

jpy_gdp_def

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

krw_cpi	<i>South Korean CPI Data (1960-2024)</i>
---------	--

Description

Annual Consumer Price Index for South Korea, sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100.

Usage

krw_cpi

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

krw_gdp_def	<i>South Korean GDP Deflator Data (1960-2024)</i>
-------------	---

Description

Annual GDP deflator for South Korea, sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100.

Usage

```
krw_gdp_def
```

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

list_currencies	<i>List supported currencies and data coverage</i>
-----------------	--

Description

Returns a data frame showing all supported currencies, the country they represent, and the year range available for both CPI and GDP deflator data.

Usage

```
list_currencies()
```

Value

A data frame with columns:

currency ISO currency code (character)

country Country or area name (character)

cpi_start First year of CPI data (integer)

cpi_end Last year of CPI data (integer)

deflator_start First year of GDP deflator data (integer)

deflator_end Last year of GDP deflator data (integer)

Examples

```
list_currencies()
```

nok_cpi	<i>Norwegian CPI Data (1960-2024)</i>
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Description

Annual Consumer Price Index for Norway, sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100.

Usage

```
nok_cpi
```

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

nok_gdp_def	<i>Norwegian GDP Deflator Data (1960-2024)</i>
-------------	--

Description

Annual GDP deflator for Norway, sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100.

Usage

nok_gdp_def

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

nzd_cpi	<i>New Zealand CPI Data (1960-2024)</i>
---------	---

Description

Annual Consumer Price Index for New Zealand, sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100.

Usage

nzd_cpi

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

nzd_gdp_def	<i>New Zealand GDP Deflator Data (1960-2024)</i>
-------------	--

Description

Annual GDP deflator for New Zealand, sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100.

Usage

nzd_gdp_def

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

uk_cpi	<i>UK CPI Data (1960-2024)</i>
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Description

Annual Consumer Price Index for the United Kingdom, sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100.

Usage

uk_cpi

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

uk_gdp_def	<i>UK GDP Deflator Data (1960-2024)</i>
------------	---

Description

Annual GDP deflator for the United Kingdom, sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100. Use for adjusting macroeconomic aggregates (GDP, government spending, investment). For consumer values, use uk_cpi instead.

Usage

uk_gdp_def

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

usd_cpi	<i>US CPI Data (1960-2024)</i>
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Description

Annual Consumer Price Index for the United States, sourced from the World Bank Development Indicators (indicator: FP.CPI.TOTL). Rescaled so that 2020 = 100.

Usage

usd_cpi

Format

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index CPI index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/FP.CPI.TOTL>

`usd_gdp_def`*US GDP Deflator Data (1960-2024)*

Description

Annual GDP deflator for the United States, sourced from the World Bank Development Indicators (indicator: NY.GDP.DEFL.ZS). Rescaled so that 2020 = 100.

Usage`usd_gdp_def`**Format**

A data frame with 65 rows and 2 columns:

year Calendar year (integer)

index GDP deflator index value (numeric, base 2020 = 100)

Source

World Bank Open Data <https://data.worldbank.org/indicator/NY.GDP.DEFL.ZS>

Index

* CPI adjustment

adjust_inflation, 2
historical_value, 12

* GDP deflator adjustment

adjust_real, 3
historical_real, 11

* datasets

aud_cpi, 5
aud_gdp_def, 5
brl_cpi, 6
brl_gdp_def, 6
cad_cpi, 7
cad_gdp_def, 7
chf_cpi, 8
chf_gdp_def, 8
cny_cpi, 9
cny_gdp_def, 9
eur_cpi, 10
eur_gdp_def, 10
inr_cpi, 13
inr_gdp_def, 14
jpy_cpi, 14
jpy_gdp_def, 15
krw_cpi, 15
krw_gdp_def, 16
nok_cpi, 17
nok_gdp_def, 18
nzd_cpi, 18
nzd_gdp_def, 19
uk_cpi, 19
uk_gdp_def, 20
usd_cpi, 20
usd_gdp_def, 21

adjust_inflation, 2, 3, 4, 12, 13

adjust_real, 3, 11

aud_cpi, 5

aud_gdp_def, 5

brl_cpi, 6

brl_gdp_def, 6

cad_cpi, 7

cad_gdp_def, 7

chf_cpi, 8

chf_gdp_def, 8

cny_cpi, 9

cny_gdp_def, 9

eur_cpi, 10

eur_gdp_def, 10

historical_real, 4, 11

historical_value, 3, 11, 12

inflation_rate, 13

inr_cpi, 13

inr_gdp_def, 14

jpy_cpi, 14

jpy_gdp_def, 15

krw_cpi, 15

krw_gdp_def, 16

list_currencies, 16

nok_cpi, 17

nok_gdp_def, 18

nzd_cpi, 18

nzd_gdp_def, 19

uk_cpi, 19

uk_gdp_def, 20

usd_cpi, 20

usd_gdp_def, 21