Package 'fpp3'

June 7, 2020

Title Data for ``Forecasting: Principles and Practice" (3rd Edition)

Version 0.3

Description All data sets required for the examples and exercises in the book ``Forecasting: principles and practice" by Rob J Hyndman and George Athanasopoulos <http://OTexts.org/fpp3/>. All packages required to run the examples are also loaded.

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URL https://github.com/robjhyndman/fpp3-package, https://OTexts.org/fpp3/

BugReports https://github.com/robjhyndman/fpp3-package

Depends R (>= 3.2)

Imports cli (>= 1.0.0), crayon (>= 1.3.4), dplyr (>= 0.7.4), fable (>= 0.1.0), fabletools (>= 0.1.0), feasts (>= 0.0.0.9001), ggplot2 (>= 3.1.1), lubridate (>= 1.7.4), magrittr (>= 1.5), purrr (>= 0.2.4), rstudioapi (>= 0.7), tibble (>= 1.4.2), tidyr (>= 0.8.3), tsibble (>= 0.8.9.9000), tsibbledata (>= 0.1.0), urca (>= 1.3-0)

Encoding UTF-8

LazyData true

RoxygenNote 7.1.0

NeedsCompilation no

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R topics documented:

`aus_airpassengers` *Air Transport Passengers Australia*

Description

Total annual air passengers (in millions) including domestic and international aircraft passengers of air carriers registered in Australia. 1970-2016.

Format

Annual time series of class ‘tsibble‘.

Source

World Bank.

Examples

```
aus_airpassengers
```

aus_arrivals *International Arrivals to Australia*

Description

Quarterly international arrivals to Australia from Japan, New Zealand, UK and the US. 1981Q1 - 2012Q3.

Format

Quarterly time series of class 'tsibble'.

Source

Tourism Research Australia.

Examples

```
aus_arrivals
```

boston_marathon *Boston marathon winning times since 1897*

Description

Winning times for events at the Boston Marathon. 1897-2019.

Format

Annual time series of class 'tsibble'.

Source

Boston Athletic Association. https://www.baa.org/races/boston-marathon/results/champions

Examples

```
boston_marathon
```

canadian_gas *Monthly Canadian gas production*

Description

Monthly Canadian gas production, billions of cubic metres, January 1960 - February 2005

Format

Monthly time series of class 'tsibble'.

Source

Hyndman, R.J., Koehler, A.B., Ord, J.K., and Snyder, R.D., (2008) *Forecasting with exponential smoothing: the state space approach*, Springer.

References

http://www.exponentialsmoothing.net

Examples

```
canadian_gas
```

fpp3_conflicts *Conflicts between fpp3 packages and other packages*

Description

This function lists all the conflicts between packages in the fpp3 collection and other packages that you have loaded.

Usage

```
fpp3_conflicts()
```

Details

Some conflicts are deliberately ignored: `intersect`, `union`, `setequal`, and `setdiff` from dplyr; and `intersect`, `union`, `setdiff`, and `as.difftime` from lubridate. These functions make the base equivalents generic, so shouldn't negatively affect any existing code.

Value

A list object of class `fpp3_conflicts`.

Examples

```
fpp3_conflicts()
```

`fpp3_packages` *List all packages loaded by fpp3*

Description

List all packages loaded by fpp3

Usage

```
fpp3_packages(include_self = FALSE)
```

Arguments

`include_self`	Include fpp3 in the list?

Value

A character vector of package names.

Examples

```
fpp3_packages()
```

`guinea_rice` *Rice production (Guinea)*

Description

Total annual rice production (million metric tons) for Guinea. 1970-2011.

Format

Annual time series of class ‘tsibble‘.

Source

World Bank.

Examples

```
guinea_rice
```

us_change *Percentage changes in economic variables in the USA.*

Description

us_change is a quarterly 'tsibble' containing percentage changes in quarterly personal consumption expenditure, personal disposable income, production, savings and the unemployment rate for the US, 1970 to 2016. Original $ values were in chained 2012 US dollars.

Format

Time series of class 'tsibble'

Source

Federal Reserve Bank of St Louis.

Examples

```
us_change
```

us_employment *US monthly employment data*

Description

us_employment is a monthly 'tsibble' containing US employment data from January 1939 to June 2019. Each 'Series_ID' represents different sectors of the economy.

Format

Time series of class 'tsibble'

Source

U.S. Bureau of Labor Statistics

Examples

```
us_employment
```

us_gasoline *US finished motor gasoline product supplied.*

Description

Weekly data beginning Week 6, 1991, ending Week 3, 2017. Units are "million barrels per day".

Format

Time series object of class ‘tsibble‘.

Source

US Energy Information Administration.

Examples

```
us_gasoline
```

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