Package ‘fpp3’

February 6, 2021

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

Version 0.4.0

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

License GPL-3

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

https://OTexts.com/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 (>= 0.3.0), fabletools (>= 0.3.0), feasts (>= 0.1.7), 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 (>= 0.9.3), tsibbledata (>= 0.2.0), urca (>= 1.3-0)

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

NeedsCompilation no

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Aus_accommodation: Australian accommodation data

Description

Aus_accommodation is a quarterly 'tsibble' containing data on Australian tourist accommodation from short-term non-residential accommodation with 15 or more rooms, 1998 Q1 - 2016 Q2. The data set also contains the Australian Consumer Price Index (CPI) for the same period. Takings are in millions of Australian dollars, Occupancy is a percentage of rooms occupied, CPI is an index with value 100 in 2012 Q1.

Format

Time series of class 'tsibble'

Source

Australian Bureau of Statistics, Cat No 8635.0, Table 10, and Cat No 6401.0, Table 1.

Examples

Aus_accommodation
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
bank_calls                      Call volume for a large North American bank

Description

Five-minute call volume handled on weekdays between 7:00am and 9:05pm, beginning 3 March 2003 for 164 days.

Format

Time series of class ‘tsibble’ at 5 minute intervals.

Source

Rob Hyndman

Examples

bank_calls

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


Examples

boston_marathon
canadian_gas

**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**


**References**

[http://www.exponentialsmoothing.net](http://www.exponentialsmoothing.net)

**Examples**

```r
canadian_gas
```

---

fpp3_conflicts

**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**

```r
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
insurance

---

**insurance**

*Insurance quotations and advertising expenditure*

**Description**


**Format**

Monthly time series of class ‘tsibble’.

**Source**

Kindly provided by Dave Reilly, Automatic Forecasting Systems.

**Examples**

```r
insurance %>%
  ggplot(aes(x=TVadverts, y=Quotes)) + geom_point()
```

prices

---

**prices**

*Price series for various commodities*

**Description**

Annual prices for eggs, chicken, copper, nails, oil and wheat. Eggs, chicken, nails, oil and copper in $US; wheat in British pounds. All prices adjusted for inflation.

**Format**

Annual time series of class ‘tsibble’.

**Source**


**Examples**

```r
prices %>% autoplot(wheat)
```
### souvenirs

**Sales for a souvenir shop**

**Description**

Monthly sales for a souvenir shop on the wharf at a beach resort town in Queensland, Australia.

**Format**

Monthly time series of class ‘tsibble’.

**Source**


**Examples**

```r
souvenirs %>% autoplot(Sales)
```

### 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**

```r
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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