

# 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.

**License** GPL-3

**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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aus_airpassengers	<i>Air Transport Passengers Australia</i>
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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
```

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canadian_gas	<i>Monthly Canadian gas production</i>
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**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
```

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fpp3_conflicts	<i>Conflicts between fpp3 packages and other packages</i>
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**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	<i>List all packages loaded by fpp3</i>
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**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	<i>Rice production (Guinea)</i>
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**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	<i>Percentage changes in economic variables in the USA.</i>
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**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

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us_employment	<i>US monthly employment data</i>
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**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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