Rob J Hyndman
George Athanasopoulos

# FORECASTING
## PRINCIPLES AND PRACTICE

A comprehensive introduction to the latest forecasting methods using R. Learn to improve your forecast accuracy using dozens of real data examples.

3RD EDITION

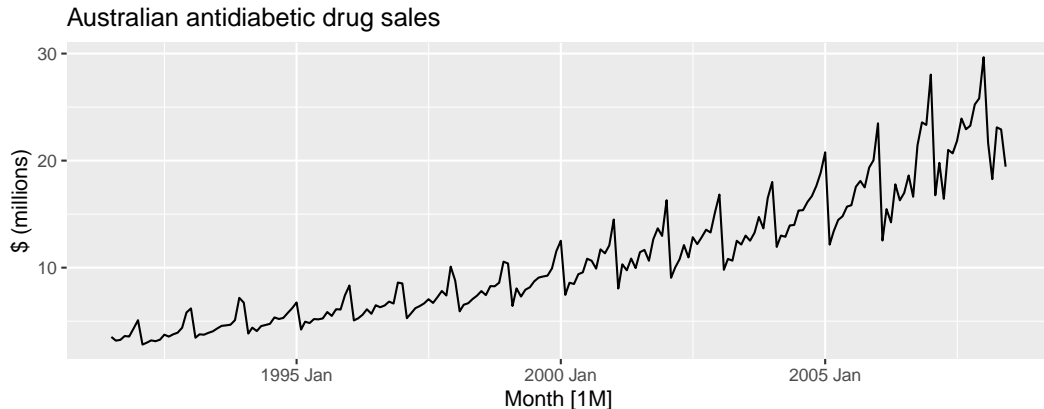OTexts

# 2. Time series graphics

2.2 Time plots

OTexts.org/fpp3/

# Graphics

- Plots allow us to identify:
  - Patterns;
  - Unusual observations;
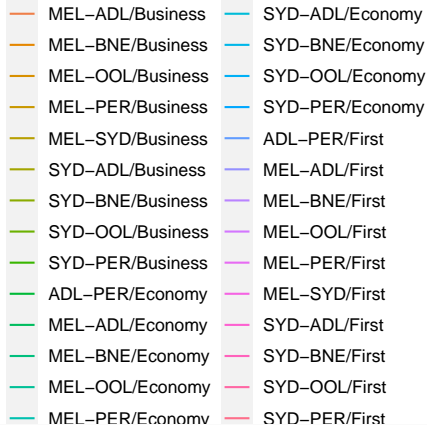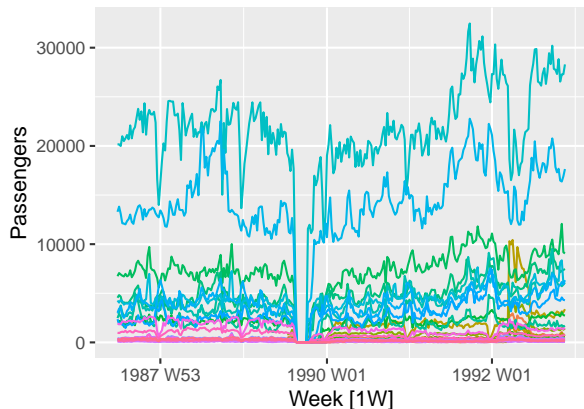  - Changes over time;
  - Relationships between variables.

# Time plots

```
a10 |>
  autoplot(Cost) +
  labs(y = "$ (millions)", title = "Australian antidiabetic drug sales")
```
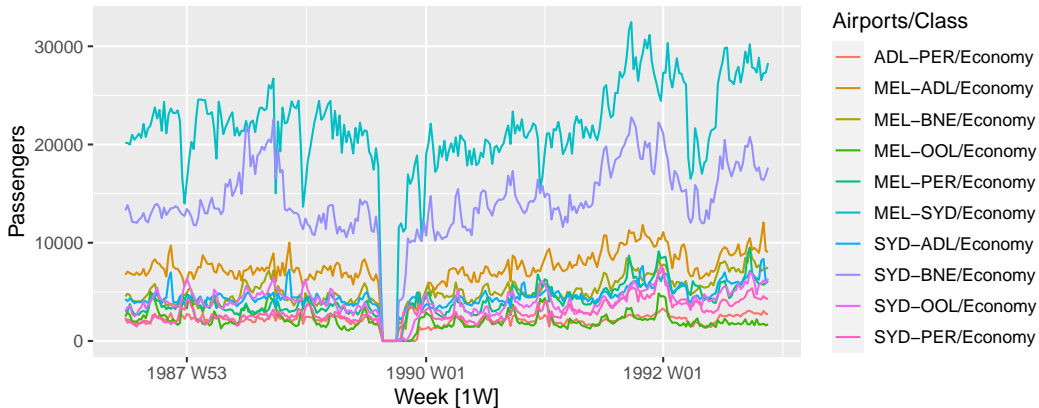


Australian antidiabetic drug sales

# Ansett airlines

```
ansett |>
  autoplot(Passengers)
```
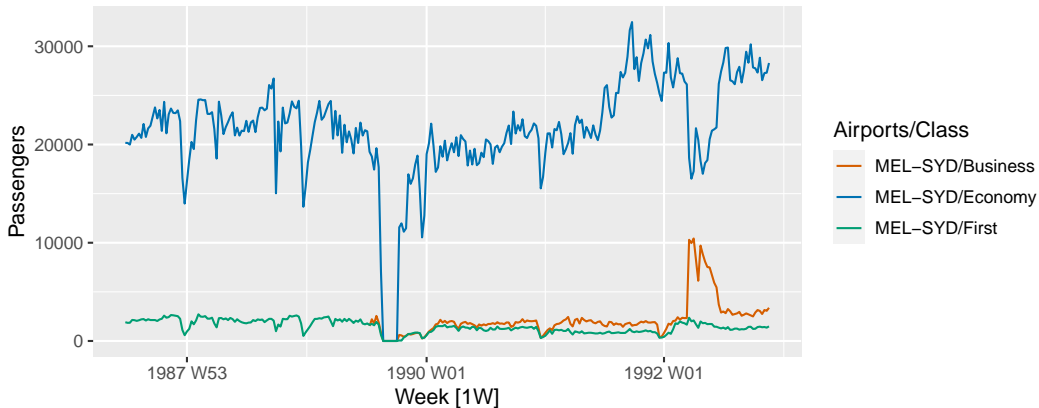
# Ansett airlines

```
ansett |>
  filter(Class == "Economy") |>
  autoplot(Passengers)
```

# Ansett airlines

```
ansett |>
  filter(Airports == "MEL-SYD") |>
  autoplot(Passengers)
```

# Ansett airlines



Ansett airlines economy class
Melbourne−Sydney