



ACEMS Forecasting Workshop

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1.1 Introduction to Forecasting

Outline

1 Background

2 The statistical forecasting perspective

Resources

- Slides
- Exercises
- Textbook
- Useful links

robjhyndman.com/acemsforecasting2018

Key reference

Hyndman, R. J. & Athanasopoulos, G.
(2018) *Forecasting: principles and practice*, 2nd ed.

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Hyndman, R. J. & Athanasopoulos, G.
(2018) *Forecasting: principles and
practice*, 2nd ed.

[OTexts.org/fpp2/](https://otexts.org/fpp2/)

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Hyndman, R. J. & Athanasopoulos, G.
(2018) *Forecasting: principles and practice*, 2nd ed.

OTexts.org/fpp2/

- Free and online
- Data sets in associated R package
- R code for examples

Install required packages

```
install.packages("fpp2", dependencies=TRUE)
```

Approximate outline

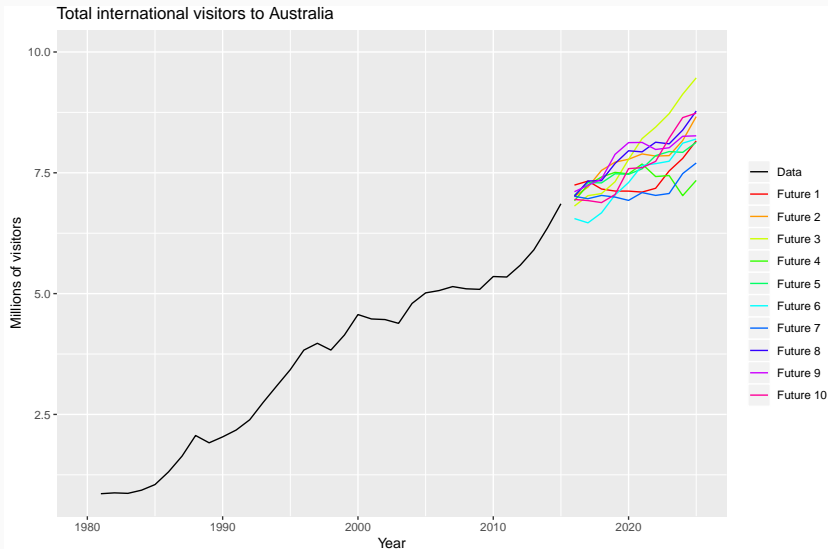
Day	Topic	Chapter
1.2	Benchmark methods	3
1.3	Forecast evaluation	3
2.1	Transformations	3
2.3	Stationarity and differencing	8
2.4	Non-seasonal ARIMA models	8
2.5	Seasonal ARIMA models	8
3.1	Dynamic regression	9
3.3	Hierarchical forecasting	10
3.4	Ensembles	12

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Sample futures



Forecast intervals

