

Preface and Chapter 1

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The Textbook: R4DS

Welcome

- ▶ This book will help you develop the fundamental R skills
 - ▶ Grammar of graphics (we are starting this today!)
 - ▶ Literate programming
 - ▶ Reproducible research
 - ▶ Managing cognitive resources
- ▶ Wrangle
- ▶ Visualise
- ▶ Explore
- ▶ Communicate

The second edition

- ▶ Changed the order and tweaked the content to make it easier to learn, and catch up to date.
- ▶ Major changes (why you shouldn't swap between versions)
 - ▶ Whole game
 - ▶ Visualise
 - ▶ Transform
 - ▶ Import
 - ▶ Program
 - ▶ Base r
 - ▶ Modelling
 - ▶ Communicate

Chapter 1

- ▶ Definition of data science: “transform raw data into understanding, insight and knowledge.”
- ▶ Data science process (what we will learn)
 - ▶ Import
 - ▶ Tidy
 - ▶ Transform
 - ▶ Wrangle
 - ▶ Visualisation
 - ▶ Models
 - ▶ Communication
 - ▶ Programming