

Author's name

Book's title

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Heading of Test Introduction

This is the introduction to the book.

Building the PDF

To build the PDF of this book, look in the book directory and run the `build-book.r` script. You'll need `pandoc`, `pandoc-citeproc`, `xelatex`, the `inconsolata` font and the `bookdown2` package.

Building the website

To build the HTML pages for this book, open a terminal in the directory that contains this file, and run `sudo jekyll build` and then look in the `_site` directory for the files (which can then be put online), or run `sudo jekyll serve --watch` to see how the HTML looks when provided by a webserver at `http://localhost:4000`. This is useful for iterative work, when you want to make small changes and see how they look right away.

Adding a new chapter

When a new chapter is added, the `includes/package-nav.html` file needs to be manually updated, and run `index()` in this directory to remake the toc files. And manually update the `book/test_book.tex` to add the new chapter to make sure it's included in the PDF.

The new chapter must have front-matter like this:

```
---
layout: default
title: "Test Introduction"
output: bookdown2::html_chapter
---
```

Followed by this chunk that takes care of figure captions and cross-references. This gives table and figures numbers like 2.3, for chapter two, figure three.

See the rmarkdown source file for how to use the caption and cross-referencing.

References

If there were any citations in this document, the references would appear here.

Heading of Test Chapter 1

This is a chapter of the book for testing. It has code to be executed, and citations to be processed. The code produces a plot (Figure 1.1).

We are testing to see if a bib file and a csl can be used with the bookdown package to produce chapters that have a reference list at the end.

```
x <-rnorm(1000)
head(x)
#> [1] -1.40004  0.25532 -2.43726 -0.00557  0.62155  1.14841
plot(x)
```

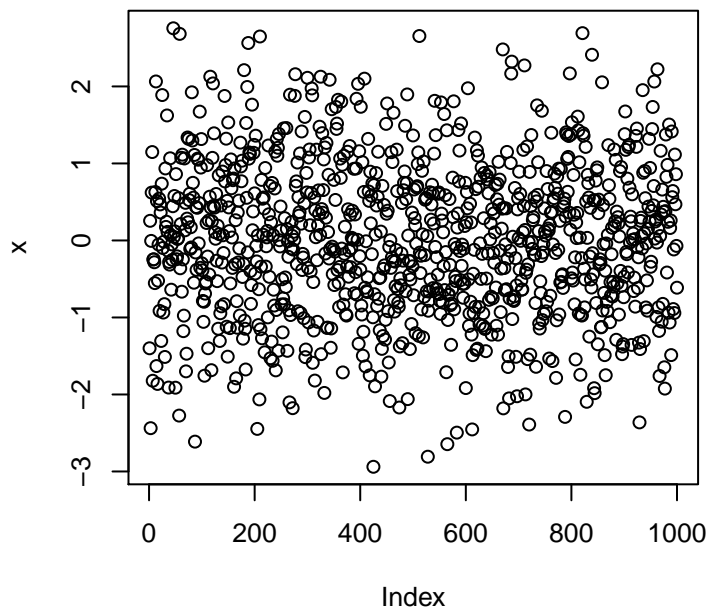


Figure 1.1: Plot of 100 values randomly sampled from a normal distribution.

Some of the best recent books on R include Hadley Wickham's 'Advanced R' (2014). He also has a very useful book on R packages (Wickham 2015).

References

Wickham, Hadley. 2014. *Advanced R*. CRC Press.

———. 2015. *R Packages*. O'Reilly Media, Inc.

Heading of Test Chapter 2

This is another chapter of the book.

```
plot(faithful, col = "blue", main = "Eruptions of Old Faithful")
```

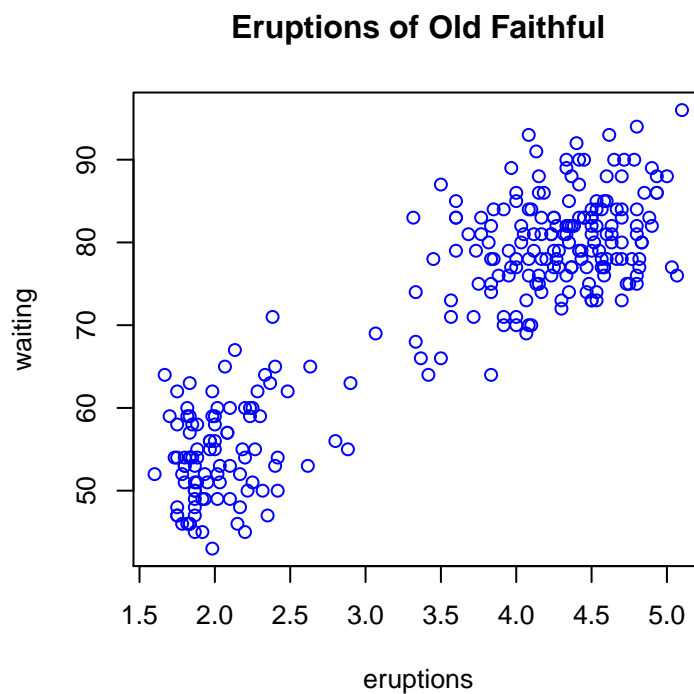


Figure 2.1: Eruptions of Old Faithful

This is a *very* basic plot (Figure 2.1). But it's easy to make very elegant and useful visualisations with R, thanks to the numerous accessible books on the topic (Wickham 2009; Murrell 2011; Chang 2012)

References

Chang, Winston. 2012. *R Graphics Cookbook*. O'Reilly Media, Inc.

Murrell, Paul. 2011. *R Graphics*. CRC Press.

Wickham, Hadley. 2009. *Ggplot2: Elegant Graphics for Data Analysis*. Springer Science & Business Media.