Income Concentration Measurement with Survey Data

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Introduction

This is a sample book written in **Markdown**. You can use anything that Pandoc's Markdown supports, e.g., a math equation $a^2 + b^2 = c^2$.

For now, you have to install the development version of **bookdown** from Github:

devtools::install_github("rstudio/bookdown")

Remember each Rmd file contains one and only one chapter, and a chapter is defined by the first-level heading #.

To compile this example to PDF, you need to install XeLaTeX.

Installation

You can label chapter and section titles using {#label} after them, e.g., we can reference Chapter 2. If you do not manually label them, there will be automatic labels anyway, e.g., Chapter 5.

Figures and tables with captions will be placed in figure and table environments, respectively.

```
par(mar = c(4, 4, .1, .1))
plot(pressure, type = 'b', pch = 19)
```

Reference a figure by its code chunk label with the fig: prefix, e.g., see Figure 2.1. Similarly, you can reference tables generated from knitr::kable(), e.g., see Table 2.1.

```
knitr::kable(
  head(iris, 20), caption = 'Here is a nice table!',
  booktabs = TRUE
)
```

You can write citations, too. For example, we are using the **bookdown** package (Xie, 2016) in this sample book, which was built on top of R Markdown and **knitr** (Xie, 2015).

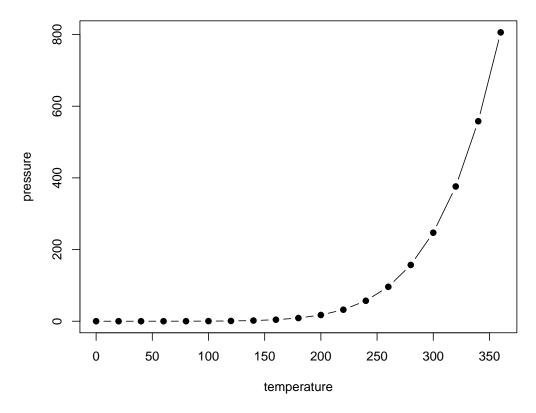


Figure 2.1: Here is a nice figure!

Table 2.1: Here is a nice table!

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa
4.6	3.4	1.4	0.3	setosa
5.0	3.4	1.5	0.2	setosa
4.4	2.9	1.4	0.2	setosa
4.9	3.1	1.5	0.1	setosa
5.4	3.7	1.5	0.2	setosa
4.8	3.4	1.6	0.2	setosa
4.8	3.0	1.4	0.1	setosa
4.3	3.0	1.1	0.1	setosa
5.8	4.0	1.2	0.2	setosa
5.7	4.4	1.5	0.4	setosa
5.4	3.9	1.3	0.4	setosa
5.1	3.5	1.4	0.3	setosa
5.7	3.8	1.7	0.3	setosa
5.1	3.8	1.5	0.3	setosa

The Gini Coefficient (svygini)

Here is a review of existing methods.

Relative Poverty Measures

We describe our methods in this chapter.

- 4.1 At Risk of Poverty (svyarpr and svyarpt)
- 4.2 Gender Pay Gap (svygpg)
- 4.3 Quintile Share Ratio (svyqsr)
- 4.4 Relative Median Income Ratio (svyrmir)
- 4.5 Relative Median Poverty Gap (svyrmpg)
- 4.6 Median Income Below the At Risk of Poverty Threshold (svy-poormed)

Poverty Indices

Some significant applications are demonstrated in this chapter.

- 5.1 Amato (svyamato)
- 5.2 Atkinson (svyatk)
- 5.3 Foster Greer Thorbecke (svyfgt)
- 5.4 Generalized Entropy and Decomposition (svygei and svygei-dec)
- 5.5 J-Divergence Entropy and Decomposition (svyjdiv and svyjdivdec)
- 5.6 Lorenz (svylorenz)
- 5.7 Reyni Divergence (svyrenyi)
- 5.8 Zenga Index and Curve (svyzenga and svyzengacurve)

Multidimensional Poverty

We have finished a nice book.

- 6.1 Alkire-Foster Class and Decomposition (svyafc and svyafcdec)
- 6.2 Bourguignon (svybmi)

Linearization Calculations

We have finished a nice book.

- 7.1 Quantile (svyiqalpha)
- 7.2 Total (svyisq)

Bibliography

Xie, Y. (2015). Dynamic Documents with R and knitr. Chapman and Hall/CRC, Boca Raton, Florida, 2nd edition. ISBN 978-1498716963.

Xie, Y. (2016). bookdown: Authoring Books and Technical Documents with R Markdown. R package version 0.3.2.