# TEXT MINING ON COMPLEX TEXT SOURCES: ANALYSIS OF THE FINAL CONSIDERATIONS OF THE GOVERNOR ON THE ANNUAL REPORTS OF THE BANK OF ITALY FROM 2008 TO 2017

Paolo Dalena

2021-01-30

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# Preface to the English version

This is the English version of my Bachelor Thesis "TEXT MINING SU SORGENTI DI TESTO COMPLESSE: ANALISI DELLE CONSIDERAZIONI FINALI DEL GOVERNATORE SULLE RELAZIONI ANNUALI DELLA BANCA D'ITALIA DAL 2008 AL 2017" that I wrote for the Bachelor in Statistical Sciences degree I received on July 10, 2019 at Alma Mater Studiorium - University of Bologna.

You can find the link to the Github page of my workflow here and the official published documents here.

Everything, for obvious reasons, is in Italian, so this online book is born to allow more people to understand my work.

Please note that the text has been automatically translated, so it's quite likely to find any linguistic (and other) inaccuracies.

If you find anything wrong, please report it here. I will be happy to help you understand or (more likely) correct the errors.

#### Introduction

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 4.

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, 2020) 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

#### Literature

Here is a review of existing methods.

#### Methods

We describe our methods in this chapter.

## **Applications**

Some significant applications are demonstrated in this chapter.

- 5.1 Example one
- 5.2 Example two

#### Final Words

We have finished a nice book.

## **Bibliography**

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

Xie, Y. (2020). bookdown: Authoring Books and Technical Documents with R Markdown. R package version 0.21.