

# Anotações do treinamento R

Robson Wilson Silva Pessoa

2021-07-19



# Contents

<b>1</b>	<b>Pré-Requisitos</b>	<b>5</b>
<b>2</b>	<b>Introduction</b>	<b>7</b>
<b>3</b>	<b>Primeiros passos</b>	<b>9</b>
3.1	Objetos e vetores . . . . .	9
3.2	Classes: números, caracteres, lógicos e data frames . . . . .	10
3.3	Data frames . . . . .	10
3.4	Operadores de seleção . . . . .	10
3.5	Utilizando e criando funções no R . . . . .	10
3.6	Operadores lógicos e aritméticos . . . . .	10
3.7	Loopings de programação: for e while . . . . .	10
3.8	O operador pipe (%>%) . . . . .	10
3.9	Importando arquivos de texto: .csv e .txt . . . . .	10
3.10	Importando arquivos excel: .xls e .xlsx . . . . .	10
3.11	Manipulação de bases de dados (o pacote dplyr)” . . . . .	10
<b>4</b>	<b>Methods</b>	<b>11</b>
<b>5</b>	<b>Applications</b>	<b>13</b>
5.1	Example one . . . . .	13
5.2	Example two . . . . .	13
<b>6</b>	<b>Final Words</b>	<b>15</b>



# Chapter 1

## Pré-Requisitos

Para o treinamento em R para as atividades do projeto Ciência de Dados na Escola Pública é necessário conhecimento básico em R e linguagem de programação estruturada.

```
install.packages("bookdown")  
# or the development version  
# devtools::install_github("rstudio/bookdown")
```



## Chapter 2

# 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)
```

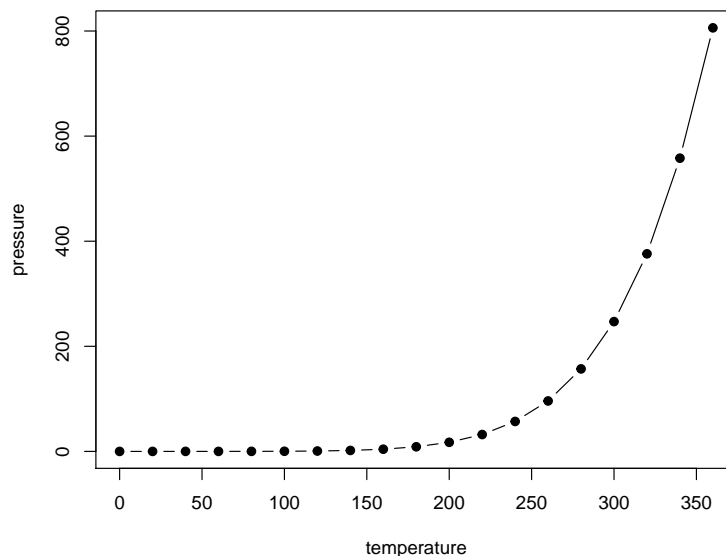


Figure 2.1: Here is a nice figure!

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

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, 2021) in this sample book, which was built on top of R Markdown and **knitr** (Xie, 2015).



## Chapter 3

# Primeiros passos

### 3.1 Objetos e vetores

{

}

- 3.2 Classes: números, caracteres, lógicos e data frames
- 3.3 Data frames
- 3.4 Operadores de seleção
- 3.5 Utilizando e criando funções no R
- 3.6 Operadores lógicos e aritméticos
- 3.7 Loopings de programação: for e while
- 3.8 O operador pipe (`%>%`)
- 3.9 Importando arquivos de texto: `.csv` e `.txt`
- 3.10 Importando arquivos excel: `.xls` e `.xlsx`
- 3.11 Manipulação de bases de dados (o pacote `dplyr`)”

## Chapter 4

# Methods

We describe our methods in this chapter.



## Chapter 5

# Applications

Some *significant* applications are demonstrated in this chapter.

### 5.1 Example one

### 5.2 Example two



## Chapter 6

# 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. (2021). *bookdown: Authoring Books and Technical Documents with R Markdown*. R package version 0.22.