

# On the growth of the Swedish Forests

From the heights of inner Norrland to the  
Westrobothnian coast

Carl Vigren  
*Faculty of Forest Sciences,  
Department of Forest Ecology and Management  
Umeå*

Doctoral thesis  
Swedish University of Agricultural Sciences  
Umeå 2021

Acta Universitatis agriculturae Sueciae  
Serial number XXX

Cover photo description.

ISSN ISSN  
ISBN (print version) ISBN Print  
ISBN(electronic version) ISBN Electronic  
© 2021 Carl Vigren, Umeå  
Print: SLU Service/Repro, Uppsala 2021

# On the growth of the Swedish Forests

English abstract title

abstract

*Keywords:* keywords

*Author's address:* Carl Vigren, SLU, Skogsmarksgränd 17, 901 83 Umeå

*E-mail:* carl.vigren@slu.se

# Om tillväxten i de Svenska Skogarna

Swedish abstract title

The swedish abstract version

*Nyckelord:* Nyckelord

*Författarens address:* Carl Vigren, SLU, Skogsmarksgränd 17, 901 83 Umeå

*E-post:* carl.vigren@slu.se

# Populärvetenskaplig Sammanfattning

Svenska som folk förstår här.

# Dedication

To all those who helped me.

# Contents

<b>1 Prerequisites</b>	<b>9</b>
<b>2 Introduction</b>	<b>11</b>
<b>3 Literature</b>	<b>13</b>
<b>4 Methods</b>	<b>15</b>
<b>5 Applications</b>	<b>17</b>
5.1 Example one . . . . .	17
5.2 Example two . . . . .	17
<b>6 Final Words</b>	<b>19</b>





# Chapter 1

## Prerequisites

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

The **bookdown** package can be installed from CRAN or Github:

```
install.packages("bookdown")  
# or the development version  
# 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 XeLaTeX. You are recommended to install TinyTeX (which includes XeLaTeX): <https://yihui.org/tinytex/>.



## 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)
```

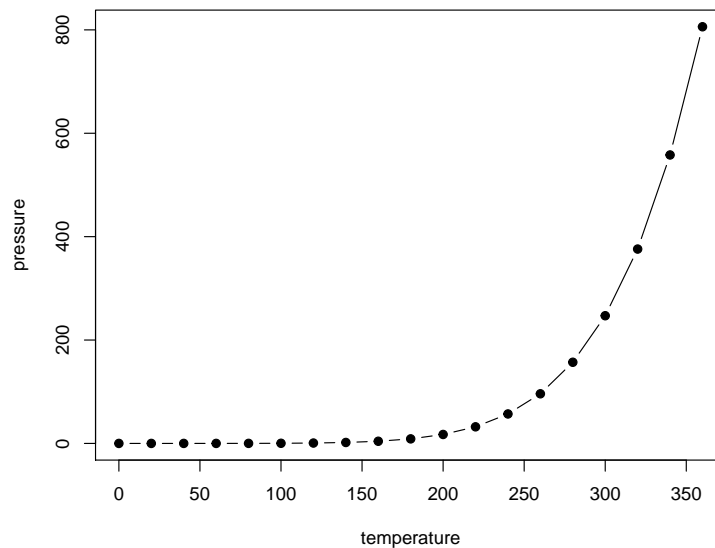


Figure 2.1: Here is a nice figure!

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

# Literature

Here is a review of existing methods.



## 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.