

Data Analysis using R

including what they forgot to teach you about computers

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Preface

This is a Quarto book.

To learn more about Quarto books visit <https://quarto.org/docs/books>.

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1 Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

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2 Understanding file systems

A file is a unit of storage on a computer

files of file plain text, markup and markdown

file extensions

the relationship between file extensions and programs

A file system contains files and folders

files systems are hierarchical

![A file hierarchy containing 4 levels of folders and files](images/image-115079030.png){fig-alt="At the top level there is a directory called Home/; Inside Home/ are two directories (docs/ and programs/) and two files doc1.txt and image.jpg. Inside docs/ there is a file called doc2.txt and a directory called data/ which contains doc3.txt and doc4.txt. Inside programs/ are three .exe files" width="600"}

folder is a directory `getwd()`, `dir()` in R, `cd`, `pwd` in unix, `os.getcwd()` in Python

using a file explorer, showing file extensions

Paths

Working directory

Relative and absolute paths

3 Summary

In summary, this book has no content whatsoever.

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References

Knuth, Donald E. 1984. “Literate Programming.” *Comput. J.* 27 (2): 97–111. <https://doi.org/10.1093/comjnl/27.2.97>.