

Data Science with R

Dealing with Strings

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In this module we introduce to tools available in R for handling and processing strings.

The required packages for this module include:

```
library(rattle) # The weather dataset.  
library(stringr) # Pre-eminent package for string handling.
```

As we work through this chapter, new R commands will be introduced. Be sure to review the command's documentation and understand what the command does. You can ask for help using the `?` command as in:

```
?read.csv
```

We can obtain documentation on a particular package using the `help=` option of `library()`:

```
library(help=rattle)
```

This chapter is intended to be hands on. To learn effectively, you are encouraged to have R running (e.g., RStudio) and to run all the commands as they appear here. Check that you get the same output, and you understand the output. Try some variations. Explore.

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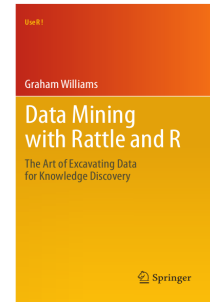
1 Further Reading

The [Rattle Book](#), published by Springer, provides a comprehensive introduction to data mining and analytics using Rattle and R. It is available from [Amazon](#). Other documentation on a broader selection of R topics of relevance to the data scientist is freely available from <http://datamining.togaware.com>, including the [Datamining Desktop Survival Guide](#).

This module is one of many OnePageR modules available from <http://onepager.togaware.com>. In particular follow the links on the website with a * which indicates the generally more developed OnePageR modules.

Other resources include:

- [Handling and Processing Strings in R](#), a freely available ebook by Gaston Sanchez from 2013.



2 References

R Core Team (2014). *R: A Language and Environment for Statistical Computing*. R Foundation for Statistical Computing, Vienna, Austria. URL <http://www.R-project.org/>.

Williams GJ (2009). “Rattle: A Data Mining GUI for R.” *The R Journal*, 1(2), 45–55. URL http://journal.r-project.org/archive/2009-2/RJournal_2009-2_Williams.pdf.

Williams GJ (2011). *Data Mining with Rattle and R: The art of excavating data for knowledge discovery*. Use R! Springer, New York. URL http://www.amazon.com/gp/product/1441998896/ref=as_li_qf_sp_asin_tl?ie=UTF8&tag=togaware-20&linkCode=as2&camp=217145&creative=399373&creativeASIN=1441998896.

Williams GJ (2014). *rattle: Graphical user interface for data mining in R*. R package version 3.0.4, URL <http://rattle.togaware.com/>.

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