**One Page R: A Survival Guide to Data Science with R**

<http://www.datasciencecentral.com/profiles/blogs/one-page-r-a-survival-guide-to-data-science-with-r>

Many of the documents have been developed and tested whilst visiting the Shenzhen Institutes of Technology as an International Visiting Professor of the Chinese Academy of Sciences. The data used is available for download as [data.zip](http://onepager.togaware.com/data.zip).

1. Templates for the Data Scientist

**A Template for Preparing Data:** \*[OnePageR](http://onepager.togaware.com/DataO.pdf) - \*[R](http://onepager.togaware.com/DataO.R)

**A Template for Building Models:** \*[OnePageR](http://onepager.togaware.com/ModelsO.pdf) - \*[R](http://onepager.togaware.com/ModelsO.R)

2. Getting Started as a Data Scientist

**Getting Started with R and Rattle:** \*[Lecture](http://onepager.togaware.com/StartL.pdf) - \*[Laboratory](http://onepager.togaware.com/StartG.pdf)

**Introducing and Interacting with R:** \*[Lecture](http://onepager.togaware.com/IntroRL.pdf) - \*[Laboratory](http://onepager.togaware.com/IntroRR.pdf)

3. BasicR - OnePage(R) - Writing R scripts

1. Dealing With Data
   1. **Read Data into R:** \*[OnePageR](http://onepager.togaware.com/ReadO.pdf) - \*[R](http://onepager.togaware.com/ReadO.R)
   2. **Explore and Summarise Data:** \*[OnePageR](http://onepager.togaware.com/SummaryO.pdf) - \*[R](http://onepager.togaware.com/SummaryO.R)
   3. **Transform Data:** \*[OnePageR](http://onepager.togaware.com/TransformO.pdf) - \*[R](http://onepager.togaware.com/TransformO.R)
   4. [**Dealing with Dates and Time:**](http://togaware.com/onepager/DateTimeRB) ([PDF](http://onepager.togaware.com/DateTimeR.pdf), [R](http://onepager.togaware.com/DateTimeR.R)) Dates and Time
   5. **Visualising Data with GGPlot2:** \*[OnePageR](http://onepager.togaware.com/GGPlot2O.pdf) - \*[R](http://onepager.togaware.com/GGPlot2O.R)
   6. **Visualising Data with Maps** \*[OnePageR](http://togaware.com/onepager/MapsO.pdf) - \*[R](http://onepager.togaware.com/MapsO.R)
   7. Spatial (R) Spatial Analysis
   8. **Handling Big Data** \*[OnePageR](http://onepager.togaware.com/BigDataO.pdf) - \*[R](http://onepager.togaware.com/BigData.R)
2. Descriptive Analytics
   1. **Cluster Analysis:** \*[Lecture](http://togaware.com/onepager/ClustersL.pdf) - \*[OnePageR](http://onepager.togaware.com/ClustersO.pdf) - \*[R](http://onepager.togaware.com/Clusters.R)
   2. **Association Analysis:** \*[Lecture](http://togaware.com/onepager/ARulesL.pdf)
3. Predictive Analytics
   1. **Decision Trees:** \*[Lecture](http://togaware.com/onepager/DTreesL.pdf) - \*[OnePageR](http://onepager.togaware.com/DTreesO.pdf) - \*[R](http://onepager.togaware.com/DTreesO.R) - \*[Rattle](http://onepager.togaware.com/DTreesG.pdf)
   2. **Ensembles of Decision Trees:** \*[Lecture](http://onepager.togaware.com/EnsemblesL.pdf) - \*[OnePageR](http://onepager.togaware.com/EnsemblesO.pdf) - \*[R](http://onepager.togaware.com/EnsemblesO.R)
   3. SVM (R)
   4. KernLab (R)
   5. NeuralNetworks (R)
   6. NNet (R)
4. Model Delivery
   1. **Evaluating Models:** \*[OnePageR](http://onepager.togaware.com/EvaluationO.pdf) - \*[R](http://onepager.togaware.com/EvaluationO.R)
   2. Evaluation (R)
   3. Scoring (R)
   4. PMML (R) Exporting Models for Deployment
5. Advanced Topics
   1. **Text Mining:** \*[OnePageR](http://onepager.togaware.com/TextMiningO.pdf) - \*[R](http://onepager.togaware.com/TextMiningO.R)
6. Advanced R Topics
   1. [**Plots**](http://togaware.com/onepager/PlotsB) ([PDF](http://onepager.togaware.com/Plots.pdf), [R](http://onepager.togaware.com/Plots.R)) Miscellaneous Plots
   2. [**Functions**](http://togaware.com/onepager/FunctionsB) ([PDF](http://onepager.togaware.com/Functions.pdf), [R](http://onepager.togaware.com/Functions.R)) Writing Functions in R
   3. [**Parallel**](http://togaware.com/onepager/ParallelB) ([PDF](http://onepager.togaware.com/Parallel.pdf), [R](http://onepager.togaware.com/Parallel.R)) Parallel Execution
   4. Packaging (R) Pulling it Together into a Package
   5. **Doing R with Style:** \*[OnePageR](http://onepager.togaware.com/StyleO.pdf) - \*[R](http://onepager.togaware.com/StyleO.R)
   6. **Literate Data Mining with KnitR:** \*[Lecture](http://togaware.com/onepager/KnitRL.pdf) - \*[OnePageR](http://onepager.togaware.com/KnitRO.pdf) - \*[R](http://onepager.togaware.com/KnitRO.R)