

Index to R/RStudio Workbook

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This is the index to a workbook which consists of a set of modules in medical statistics.

It assumes no knowledge of statistics or programming.

It is designed to guide the reader through all the steps required install a computing environment which will allow them run simple statistical analyses in R and to familiarize themselves with the R programming environment in order to then progress to more complex statistical programming.

Modules

Click in links below:

1. [What is R?](#)

The purpose of this module to give you some background information about R, how and why it was developed, and what it is designed to do

2. [Installing R and RStudio](#)

The purpose of this module to guide you through the process of installing R and RStudio. Everything that you need is available on line free of charge.

3. [Introducing RStudio](#)

This module is designed to provide you with:

- A basic understanding of RStudio as an Integrated Development Environment and its key features
- An understanding of the four panel layout of RStudio and the functions of each of the panels
- The ability to use simple arithmetic, algebraic and logical operators in R
- The ability to load in a CSV file from a web based address using the Import wizard
- The ability to set the Working Directory
- An understanding of .R and .Rdata file types
- The ability to load and run R scripts

4. Creating Vectors and working with them

This module is designed to enable you to:

- Create, write, name and save R scripts
- Understand when and how to use the colon operator, and 'combine' `c()` and 'sequence' `seq()` functions
- Understand what is a vector and how vectors can be used
- Know how to find 'help' using the various inbuilt R and RStudio mechanisms
- Understand 'command completion' and how to use it
- Have a basic understanding of how the data in a vector can be viewed