

## Appendix IV

# What is R?

R is a language and environment for statistical computing and graphics. It provides a broad variety of statistical methods, including basic statistical tests and regression models, among many other classical and graphical methods and techniques. R can be easily used to produce technical plots of quality along with mathematical symbols and formulas. R is available as free software under the terms of the Free Software Foundation's GNU general public license in source code form. R can be downloaded from <https://www.r-project.org/>.

R is similar to the S language and environment. The language S is considered the choice in statistical methods and R provides an open-source route to work with in statistical methods, among others.

R is also designed like S around a true computer language with flexibility in that it allows users to add additional functions.

Finally, some users of R think of it as a statistics system, but others think of R as an environment within which statistical methods and graphics are implemented.