Basics of R Programming

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What is R?

R is an open-source environment for statistical computing and visualisation. It is based on the S language developed at Bell Laboratories in the 1980's [20], and is the product of an active movement among statisticians for a powerful, programmable, portable, and open computing environment, applicable to the most complex and sophsticated problems, as well as "routine" analysis, without any restrictions on access or use.

What is R?

Here is a description from the R Project home page: "R is an integrated suite of software facilities for data manip- ulation, calculation and graphical display. It includes: an effective data handling and storage facility, a suite of operators for calculations on arrays, in partic- ular matrices, a large, coherent, integrated collection of intermediate tools for data analysis. graphical facilities for data analysis and display either on- screen or on hardcopy, and a well-developed, simple and effective programming lan- guage which includes conditionals, loops, user-defined re- cursive functions and input and output facilities."

Code

When you click the **Render** button a presentation will be generated that includes both content and the output of embedded code. You can embed code like this:

[1] 2

