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Teaching Undergraduate Statistics in R. Preliminary report.

R is a free, cooperatively developed, open-source implementation of the S statistical programming language and computing environment, a language that has become a standard among statisticians for the development of statistical software.

R is high quality software. Because it incorporates a true programming language S, R is command driven and relatively easily extended, an attractive characteristic for instructors, and for students in advanced classes. R runs on all of the commonly used computer platforms and installs in the normal manner on each platform.

It is easier in a command-driven system to correct, modify, and replicate analyses. It is simpler, and natural, to create a permanent record of one's work, including both input and output. R implicitly encourages a deeper understanding of the statistical procedures being used than do some other programs, such as SPSS and Minitab.

In this talk I will present some elementary commands in R to do basic statistics at the undergraduate level. I will demonstrate the efficacy of R as compared to other point-and-click GUI based statistical software packages.

The biggest reason to use R is the cost. It is free! (Received September 22, 2009)