

Web-based Dynamic Graphical Software eStat for Statistics Education

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Abstract

Recent advance in IT and network technology has enabled to develop an software for statistical data processing of complex information society. However, well-known commercial statistical packages for data processing such as SAS and SPSS have not paid their attention to statistics education. Many individual developers have developed softwares for statistics education, but most of them are limited to cover specific topics. eStat, www.estat.me, is a free, web-based, easy user interface software and includes many dynamic graphical modules. eStat covers the most of graphs of Elementary School and Middle School level. It also includes special simulation modules for Statistics Education of High School and University level such as Binomial, Poisson, Normal, Student t, ChiSquare, F distributions, Law of Large Number, Central Limit Theorem, Confidence Interval and Simple Regression. Since eStat modules are made by HTML5, JavaScript and D3.js, we invite any developer to add his/her interesting idea and their modules. We hope that eStat can help students in math/statistics classroom of all level in the world, especially developing countries, and they realise the usefulness of statistics in the era of information society.

Keywords: statistics education, statistical software, dynamic graph.