XploRe 4.5

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2003

XploRe is a combination of classical and modern statistical procedures, in conjunction with sophisticated, interactive graphics. XploRe is the basis for statistical analysis, research, and teaching. Its purpose lies in the exploration and analysis of data, as well as in the development of new techniques. The statistical methods of XploRe are provided by various quantlets.

In addition, XploRe is a high level object-oriented programming language, i.e. the user writes procedures or functions, such as in Pascal or C/C++. In contrast to these languages the declaration of variables is not necessary in order to preserve the character of an interpreter. Furthermore, variables can be collected in list structures, so that it is possible to hold common information of a data set in a single data object. Of course, all the features of an high-level language like recursion, local variables, loops, and conditional execution are available.

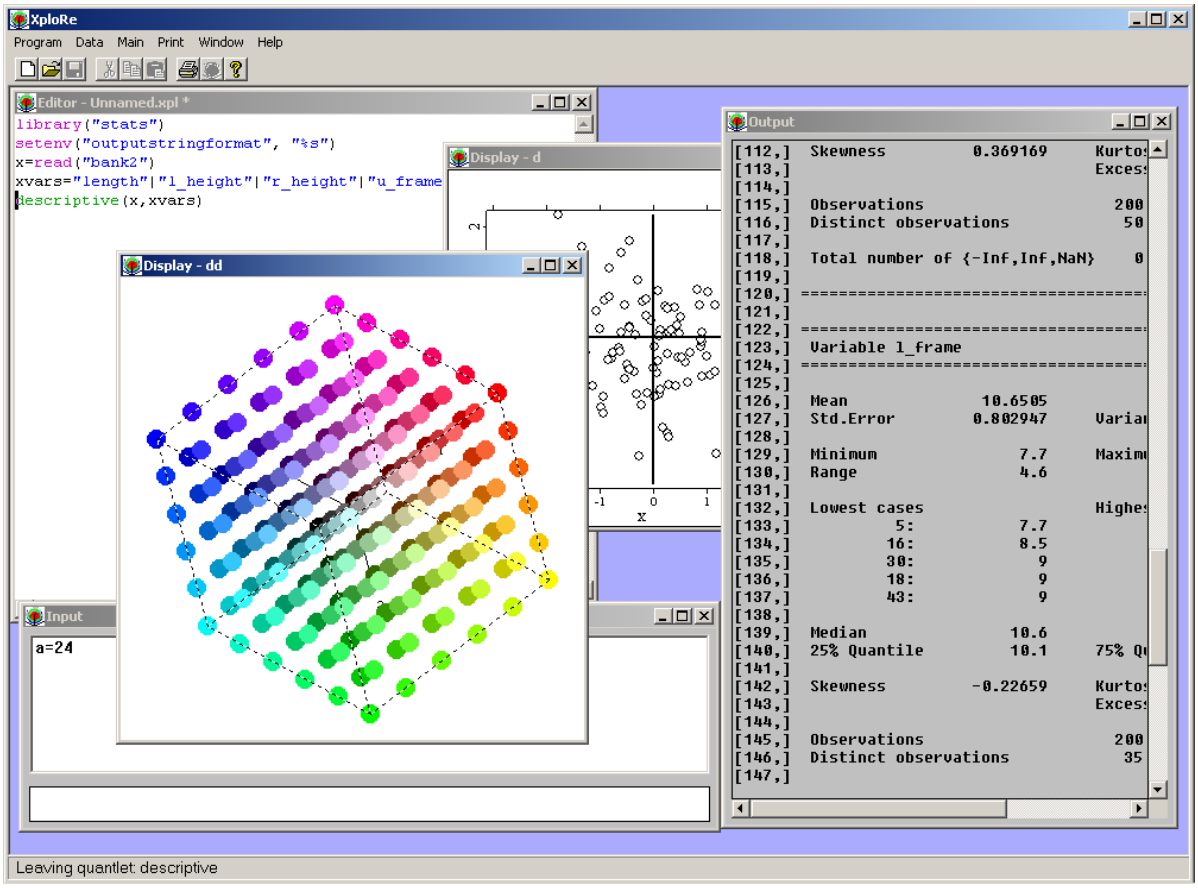

Figure 1: XploRe Graphical User Interface

Statistical methods (quantlets) are provided as plain-text ascii files, covering state-of-the-art statistics (Time-series, Paneldata, Neural Networks and Financial Engineering, ...). Dynamic link calls are possible, so one can incorporate own methods in XploRe, written in the language of his or her choice. An automatic HTML converter ensures the smooth integration of quantlets and libraries into the help system.

XploRe has:

- a fast programming language
- indepth tutorials giving insights to statistical methods and their applications
- a graphical user interface
- full-featured editor with syntax highlighting and help-integration
- client/server technology written in Java for Applets and COM based interfaces for standard of.ce applications
- full network facilities
- a browser-based AutoPilot Support System (APSS)

- customizable libraries (Quantlibs)
- dynamic link calls

XploRe is a complete statistical programming package, including a great variety of methods, stored in several libraries. These include:

- generalized linear models and generalized partial linear models
- nonparametric methods such as kernel estimation and smoothing, spline smoothing, single index models, generalized additive models
- option pricing, stock simulation, nonlinear time series analysis
- modern regression techniques wavelets and neural networks

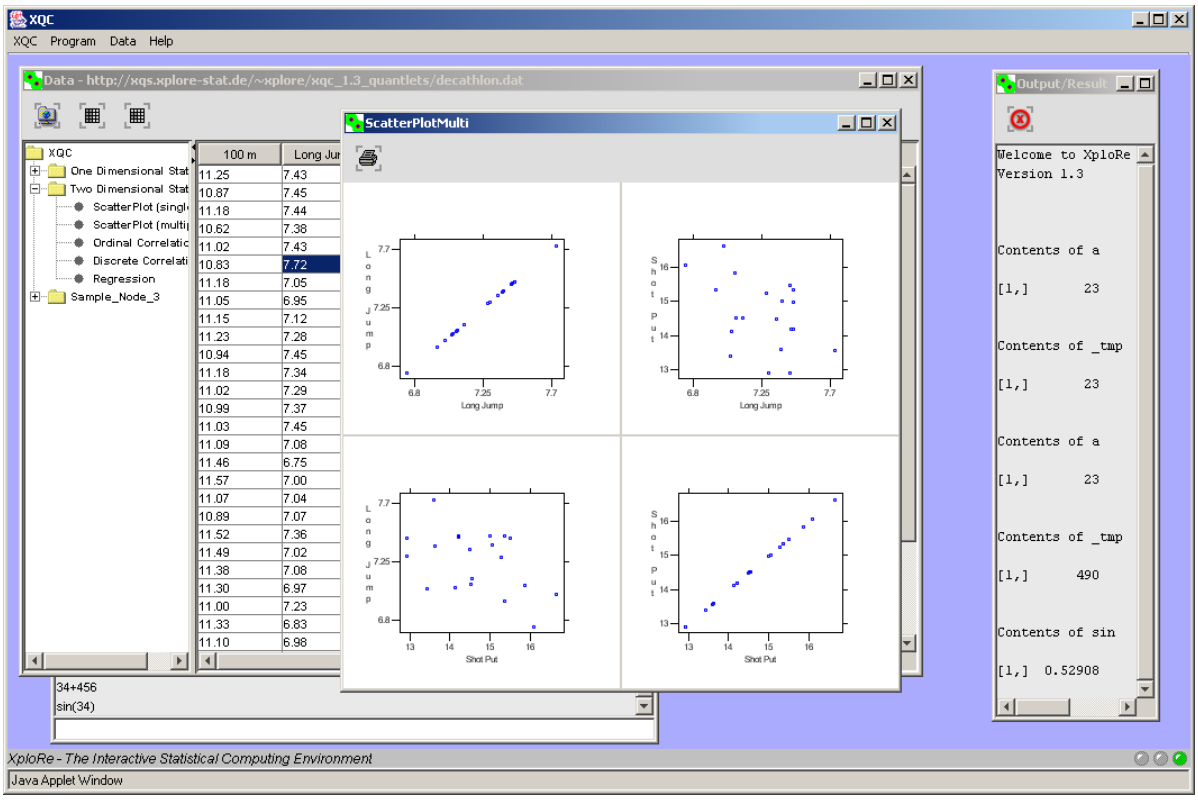

Figure 2: XploRe Java Client

XploRe is designed to fit any type of environment. It can be installed on single computers (PC or workstation), and in networks. XploRe supports a variety of platforms (UNIX flavors, Windows, MacOS). The client/server version takes advantage of Java technology and is especially designed for applications in the Inter-/Intranet. The XploRe Quantlet Server (XQS) delivers the full power of its capabilities to all the clients. This ensures that XploRe can be accessed from any platform from anywhere in the world, giving support

to various business models (financial controlling, risk management, quality of service, ...). Complete information about the use of XploRe and its functions are available on the XploRe e-books page.