Guided Tour See http://www.gnu.org/software/emacs/tour/ Emacs 22.1.1 (i386-mingw-nt5.1.2600) 2 on RELEASE %% *About GNU Emacs* All L4 (Fundamental) =

The interfaces provided by Emacs to scientific software, such as R, LaTeX, and Octave, are among the most powerful for advanced users, making this an attractive solution beyond addressing the bas problem of a flexible platform for portable software. The role of Free Software:

At the start of the present project, prior to the spring semester, most of the major components did not work in a portable way across the three target platforms. However, due to the open software development dynamics of free software, this project, in collaboration with developers and with other users, but primarily through reading source code and documentation, was able to modify the software and delevier an unprecedented suit of functionally.

Software and the Statistical Task

Phases of the statistical task to be addressed by a complete IDE

Version control Programming support Data analysis Simple document.

Data cleaning Remote editing Visualization Formal presentation of research and results

No ability to set the boot drive.
 No ability to install software.
 With accross only to customary temp directory, and to USERPROFILE.
 Transient storage.
 Should work in any reasonably modern lab: Windows as well as Macintosh powerpc and i386.

The key problem common to making applications portable is setting paths and environment variables. This includes dealing with paths to dynamically linked libraries, which might be hard-coded into binaries. Mid-book was ported to Nidrodos for this project, and the wrapper script for R had to be medified to make it portable. However, the remaining work was accomplished by running within an environment that abstracted away from the underlying hardware. This was accomplished in finacs.

Emacs is built on a full featured programing language, Elisp, that is used for all aspects of customization, configuration, and extension of Emacs. Elisp can also interfaces with the operating system and with other software ununing on the system. Since Emacs has been ported to a wide array of platforms, Elisp scripts provide the necessary virtualization of the operating environment.

Foreign file access | File transfer | Computation | Text editing

The constraints:

Approach to the solution:

The central role of Emacs:

From a programmers perspective, the coding contribution of this project is fairly small. However, the software development model leveraged the power of years of highly skilled programming in such a way that an ordinary user, not a programmer, could conceive of addressing a substantial computing need through software development and could proceed to actually do so.

Distinguishing Features of the iPoIDE: Beyond being portable and able to fit on common media, this project is distinguished in that it is: An inherently integrated environment. Nativeley cross platform, or universal.

Advantages this provides:

Reduces the barrier to "just try' the software.
 Increases the imminent payoff to the investment in adopting new software/setting up a system.
 Saves time and resources through the expertise embodied in the scripts and organized under the support of the Stat Live project web site.

Learning outcomes for students:

The students freely posses the software, which represents a skill set often acquired informally, at substantial cost in time and frustration. This project provides a short-cut to a full suit of tools neede for research as computing becomes increasingly ubiquitous, distributed, portable, and central to statistics.

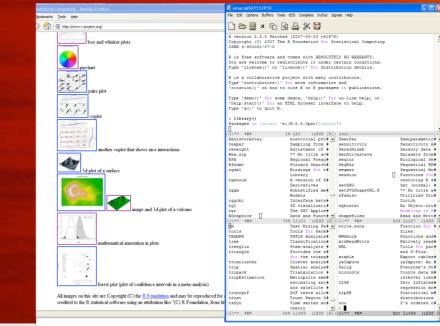
Facility with such a fundamental suit of look should prepare students and researchers new to computing to efficiently cross the threshold assumed to be passed by the new computationally oriented professional researcher heralded by words such as Bili Yu's perspective on statistics in the information age (3) or the comment by Madigan and Stuetzle on the NSF Report on the Future of Statistics (2). Bis Alos has social value in potentially enabling people across disciplines and outside to

References

S. Reddy, G. Chen, B. Fulkerson, S.-J. Kim, U. Park, N. Yau, J. Cho, M. Hansen and J. Heidemann (2007), Sensor-Internet Share and Search: Enabling Collaboration of Citizen Scientists, (accepted at the Workshop for Data Sharing and Interoperability, IPSN One).

D. Madigan and W. Stuetzle (2004), Comment on 'A Report on the Future of Statistics' Statistical Science 2004.

Yu (2007), Embracing Statistical Challenges in the Information Technology Age Technometrics opecial issue on statistics and information technologies, accepted, April, 2007)



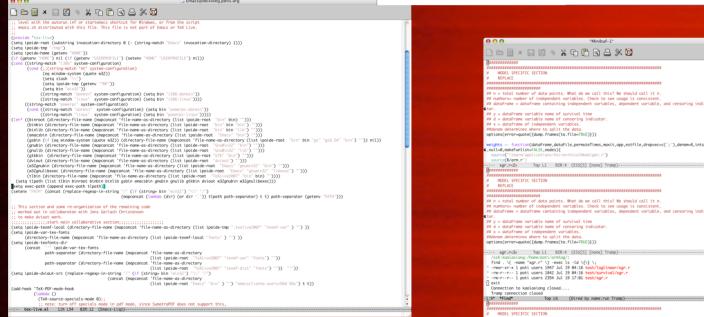
Ad points. What do we call this? We should call it n.

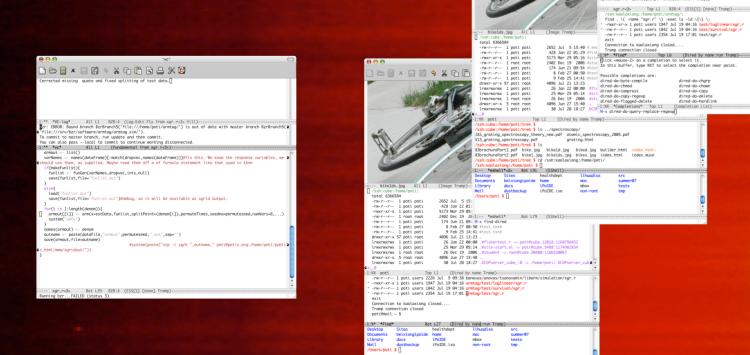
Appendent variables. Check to see usage is consistent.

Containing independent variables, dependent variable, and censoring indica **

PRIMA CECTES** [Inpose] **

.
y = dataFrame variable name of survival time
d = dataFrame variable name of censoring indicator.
x = dataFrame of independent variables.
enon determines where to split the data.
ions(error-quote([dump.frames(to.file=TRUE)]))

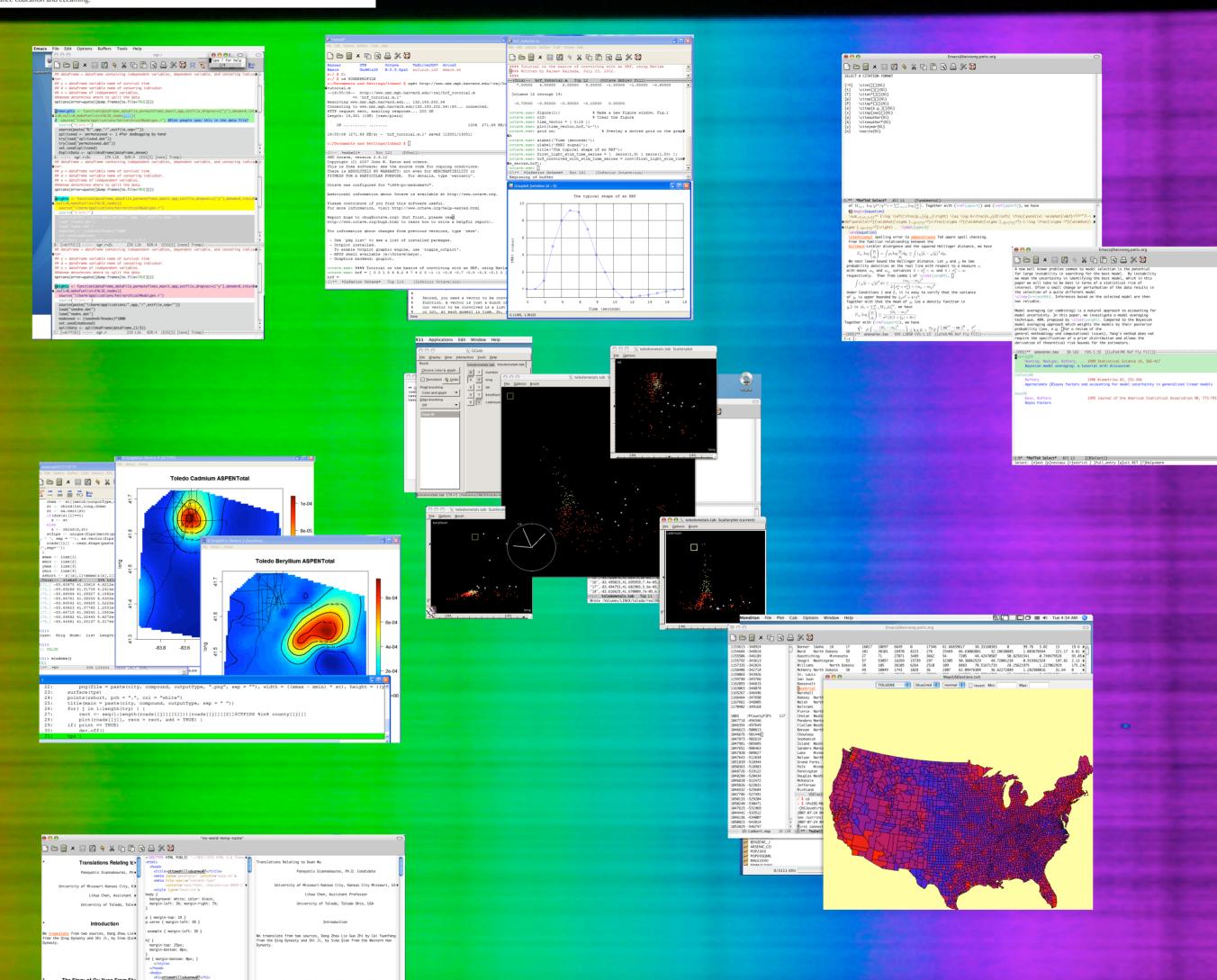




A Free Software Live DVD for Statistics

Outline of iPortable IDE project:

- Motivated by the needs of a new faculty member in teaching graduate statistics courses.
 Designed to run in any lab environment with fairly new computers: PC, Mac, or, in principle, GNU/Linux.
- Runs from DVD, portable media devices, or hard drive, with no configuration or installation steps.
- Integrated through the services of the Emacs text editor.
- Ports of free or open source software provide the same working environment across platforms.
- Integration enables carryover of skills acquired across applications.
 GPL compatible major components ensure a system that can be adapted, improved, and used freely.*(see note)
- Supported by on-line tutorials and assembly/modification instructions. Ideal for distance education and eLearning.



We translate from two sources, Dong Zhou Lie Guo Zhi by Cai Yuanfan from the Qing Dynasty and Shi Ji, by Sima Qian from the Western Han Dynasty.

At that time, Qin state planning to ottack Qi state and Qi and Du moi an alliance. The king of Qin mos morried dobut this and sent his minister. Then king of Qin mos morried about this and sent his minister. Thung Yi, to Du state to serve the king of Du. Thong Yi told the king of Du. Then have Qis on but, but you made an alliance with Qi. If you can break with Qi, Qin is willing to offer you 600 light of land.

www.statlive.org

Guide to Stat Live iPoIDE

The software distributed through this project is designed to work as Portable Integrated Development Environment through the Emacs text editor: PC running from DVD: insert DVD and wait for Emacs to auto-launch (about 40 seconds in the Newton lab) or double click My Computer->IPOIDE if that fails.

Running from personal media device (IPhone, IPOd, etc) or hard drive: PC: Double click on runemacs.exe shortcut. Mac: Double click on the blue Emacs icon.

Emacs Keyboard Shortcut Symbols:

C-x means hold down <control> key and press x H-x means on FC: hold down <ait> key and press x on Mac: press <ercape> and press x

The tutorials are arranged in the order suggested for someone learning how to use this comprehensive development environment for statistics. If your are using this at home, you can copy the entire DVD to a convenient location on yo hard drive. This will increase the speed of many operations. Better still, if your have an IPo with enough space, you can copy the entire DVD to you IPod. In any case, for Windows y will then lanuch Emacchinirumenusc see and on the Mac double click the Emacs Icon.

For those of you with no classes next session, this is the perfect time to switch to the Dvorak keyboard layout.

1 Emacs Tutorial The Emacs web site was updated sometime in May. It is now has an excellent 'tour' replaces my tutorial, which you can still find here:

2 Copy and Pasting (C-y) from Web to Emacs

3 Bazaar (bzr) Tutorial

Please do give the version control tutorial a try. Why?

4 R Tutorial

5 LaTeX Tutorial 6 Working With Microsoft Files

7 Octave Tutorial

8 About this DVD

Readme file listing contents of DVD: README

9 Statistical Computing

10 Worked example

A structured statistical task to take you through the tools and concepts used on this DVD. Please mail info@statlive.org if your have questions or suggestions regrading this task, or the DVD in general.