

Using R on Leland for Statistics 202

(Fall 2002)

October 25, 2002

Here are instructions for using the statistical package R on the Leland computer system for Stats 202 Homework 2:

1. Log on to a Leland machine (tree or elaine seem to work best - other machines have difficulty loading some packages that you will need).
2. To enter the R statistical package execute the command

R

You will see the R command prompt ">". At the R command prompt enter

```
> library(class, lib.loc="/usr/class/stats202/class")
```

This must be done every time you use R for this homework. You are now ready to execute the R commands described in the homework.

3. To exit R and return to the Leland operating system, enter the command

```
> q()
```

You will see the prompt "Save workspace image? [y/n/c]". Respond with "y" to save your work so that it can be continued (where you left off) at a future R session. If you respond with "n" all of the results of the current session will be erased and not available at future sessions.

Note that R may also be used under the emacs editor - this can be particularly convenient if you want to type-up your results for the problem set. To use this you will need to be on a system that will display graphics - the computers in Sweet Hall, for example, or on a PC if you are running Xwin or an equivalent. If you want to do this:

1. Log on to a leland machine and type

```
emacs &
```

this should bring up an emacs window, now type the keys

```
ESC x R
```

in sequence; emacs will bring up an R prompt as above and you can continue working from this prompt.

2. To exit emacs, after you exit R, type
Ctrl-x Ctrl-c
or choose “Exit Emacs” from the Files menu.
3. A particularly useful feature of using emacs is that you can split the window by typing
Ctrl-x Ctrl-2
which will allow you to view one file in the top window and one in the bottom. You can then have your R prompt in one window and copy results into a text file in the bottom window.
4. To open a text file in an active emacs window type
Ctrl-x Ctrl-f *filename*
or choose “Open File” from the Files menu. If you are opening a new file, just enter the name you wish to give it.
5. To save a file, type
Ctrl-x Ctrl-s
or choose “Save Buffer” from the Files menu.
6. A brief emacs tutorial with references to more comprehensive ones can be found on the class web page.