

INSTALLING THE R ENVIRONMENT ON YOUR COMPUTER

WITH OPTIONAL INSTRUCTION TO INSTALL THE TINN-R EDITOR AND THE RCMDR MENU INTERFACE

INSTALLING BASIC R

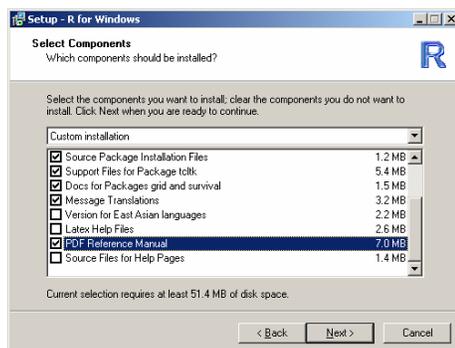
- The main website of R is <http://www.r-project.org>
- To download R go to <http://cran.hostingzero.com/bin/windows/base/>
- Click R-2.6.1-win32.exe and select Run



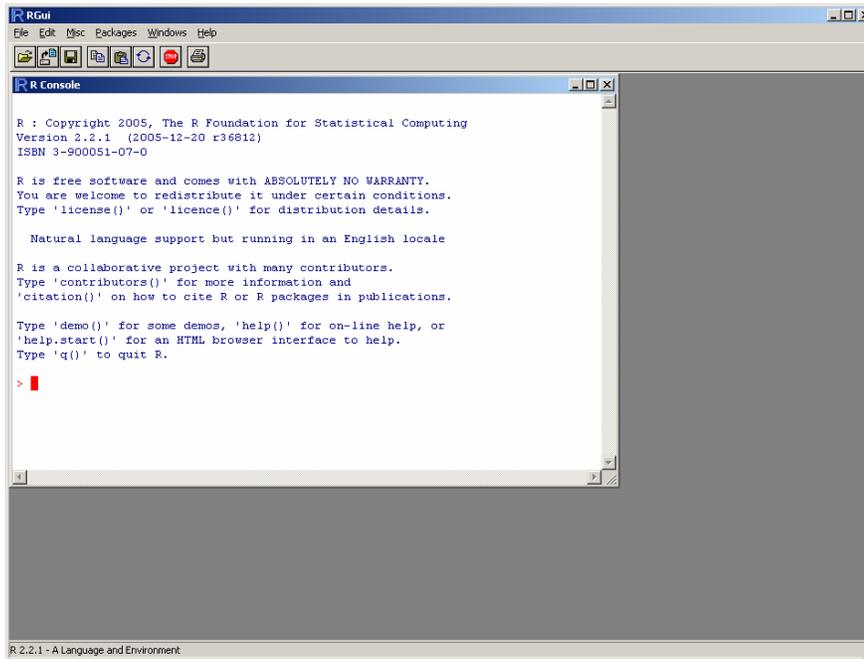
- Select Run in this warning box:



- Choose all the defaults. However, if you want to have additional information the select “PDF Reference Manual” in the Setup window.



- Start R by clicking on its desktop icon or selecting it from the start menu

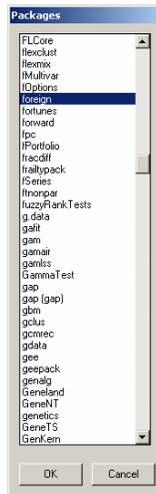


INSTALLING R PACKAGES

- You may want to install additional packages which are program libraries that extend the functionality of R. First you need to download these packages from a CRAN web server:
- Select **Packages** ► **Install Packages()**...
- You can select any download mirror [Note that the “USA (TX)” download site is not always stable. Should you encounter problems select another site in the USA]:



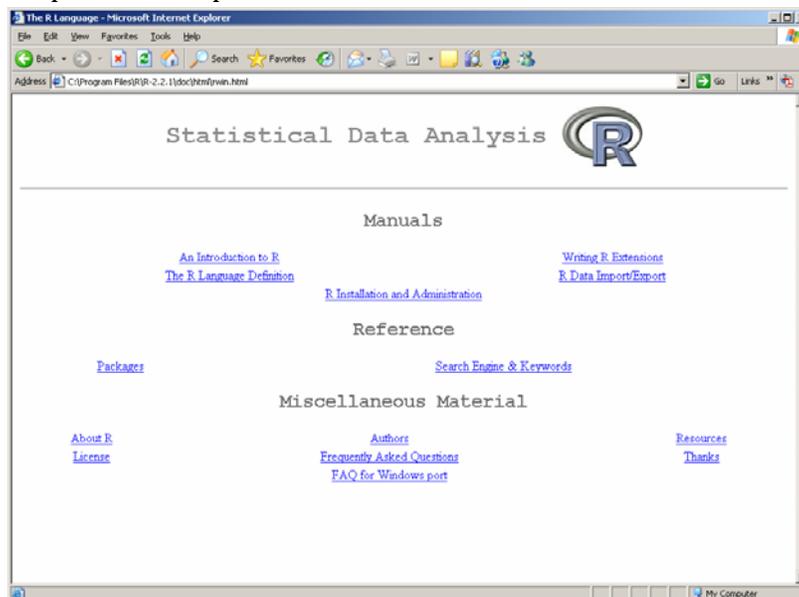
- The “foreign” package allows you to import rectangular data files from several other software packages such as Dbase, SPSS, SAS or Stata files.



- In order to use a package in a current session you would need to load it. You can do this either at the command prompt by entering and submitting
 - `> library(foreign)`
 - or thru the menu Packages ► Load package ... ► Select one ► foreign

Attention: Commands and variable names in R are case sensitive (i.e., `foreign` is different from `Foreign`)

- If you need help or code examples you can go to the html help facility:
Help ► Html help

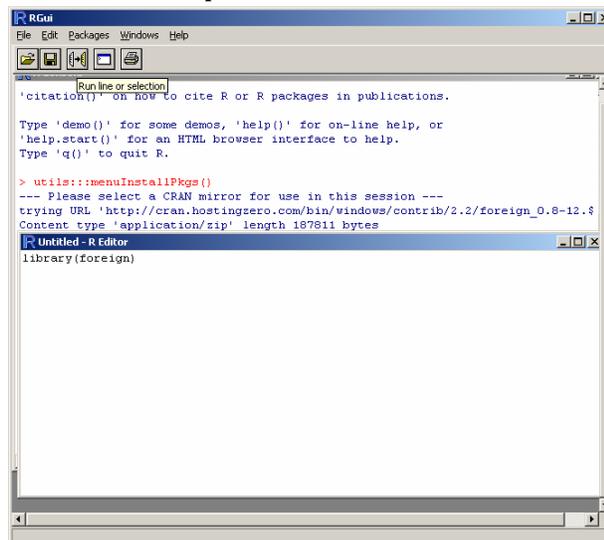


Select for instance [Packages](#) to find information on the “foreign” library



BASIC CODE EDITOR IN R

- R only comes with a very rudimentary code editor in the file menu
File ► New Script



This editor allows you to run selected lines of code directly in R.

INSTALLATION OF A BASIC MENU SYSTEM

- Copy the file Rprofile.site into the directory C:\Program Files\R\R-2.6.1\etc\ (note, it will overwrite the existing profile).

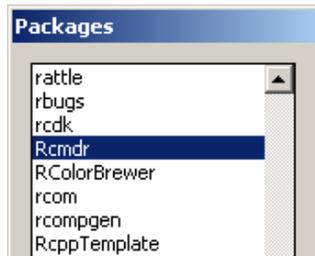
The next time you start R the menu system will be installed automatically.

To start the menu system type at the *R*'s command prompt

- > library(Rcmdr)

The instructions below explain the manual installation procedure of the Rcmdr.

- Download the package Rcmdr. Remember:
 - Select menu Packages ► Install Package(s) ...
 - Pick a download server-site
 - Select Rcmdr from the download dialog

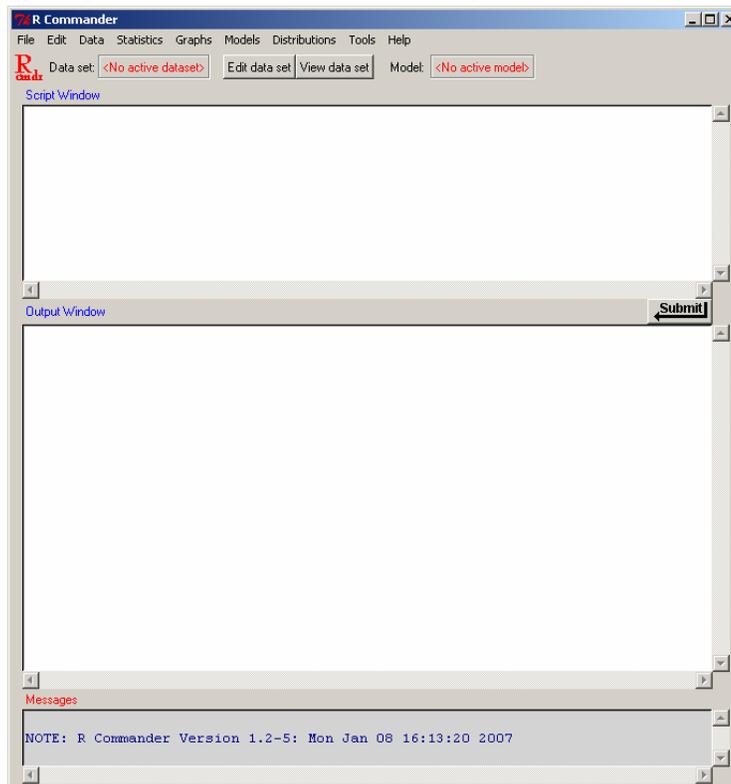


- When you download the Rcmdr several other packages, such as the foreign package, are downloaded in addition if they are not already installed in a prior session. The Rcmdr uses these packages.

To start the Rcmdr issue at the command prompt either

- > library(Rcmdr)
- Or select the menu Packages ► Load Packages ... and pick from the list the Rcmdr
- Before the Rcmdr interface opens additional packages may be downloaded automatically. This may take a few minutes.

- This opens the R Commander menu system window



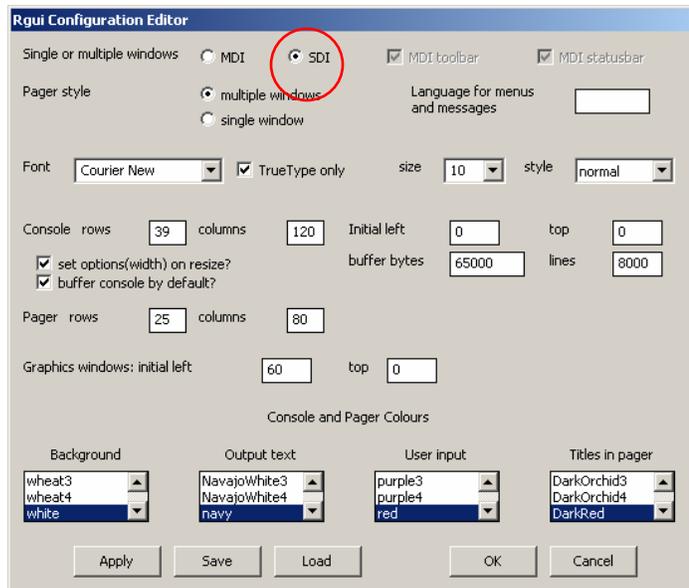
You should not have warning messages in the **Messages** window.

- To get help on the Rcmdr select its Help menu.

INSTALLATION OF AN ADVANCED EDITOR

- A more comfortable editor that can be seamlessly integrated into R is the shareware editor Tinn-R (download at <http://www.sciviews.org/Tinn-R/>)
- Download and install Tinn-R from the above site.
- To integrate Tinn-R seamlessly with the R environment adjustments are required:

The latest version of Tinn-R does not run in the MDI mode of the R interface. To disable the MDI mode goto Edit ► GUI-preferences ... in the R-menu and select the SDI option



Select Save and accepted the suggest filename and location.

You can close the Rgui Configuration Editor now.

Close and restart R.

- Copy the file Rprofile.site file into the directory C:\Program Files\R\R-2.6.1\etc\
(note, it will overwrite the existing profile). The next time you start R, the editor Tinn-R will be automatically linked with the R environment and opened automatically.

The instructions below explain the manual installation procedure for Tinn-R if you plan not to use the provided file Rprofile.site:

- The packages
 - SvIDE,
 - SvSocket,
 - SvIO and
 - R2HTML
 have to be downloaded from one of the R-library servers.
- The profile file profile.site in the R Program Files directory (see C:\Program Files\R\R-2.6.1\etc\)) needs to be edited by adding these lines:

```
options(IDE = 'C:/Program files/Tinn-R/bin/Tinn-R.exe')
options(use.DDE = TRUE)
library(svIDE)
library(svSocket)
library(svIO)
library(R2HTML)
guiDDEInstall()
```

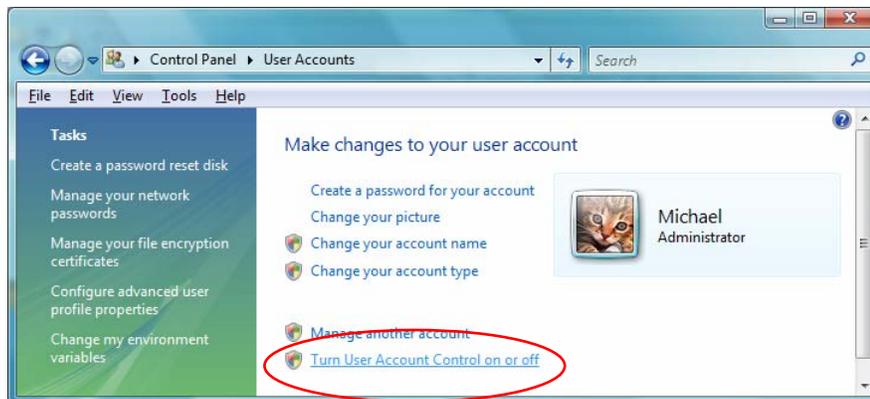
Just copy above lines and past them to the end of profile.site file.

- You find more information in the Tinn-R Help menu under the topic “Tinn-R and R Configuration”.

NOTE FOR WINDOWS VISTA USERS:

WINDOWS VISTA is much stricter than WINDOWS XP when it comes to security issues. Since help files of downloaded and/or updated R-libraries want to manipulate **R**'s protected HTML setup, they will not install without turning off first the User Account Control (UAC). In order to do this:

1. Go to Control Panel ► User Accounts ► Turn User Account Control ► Off



You will be asked whether you would like to continue this task. Choose Continue, unselect Use User Account option and click OK in the dialog window below:



2. Windows Vista needs to be rebooted for these changes to take effect. Reboot now
3. Open **R** and issue at the command prompt the line `link.html.help()` and hit return. This will update the help system of the download and/or update libraries.
4. If you want to enable UAC again, go to Control Panel ► User Accounts ► Turn User Account Control ► On to turn UAC on again.
5. Re-boot WINDOWS VISTA for the change to take effect