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To start with R, you have to acquire your copy. This appendix shows you how to download R and RStudio, a software application that makes it easy to use. You will pass from R download to the opening of your first R, both R and RStudio session are free and easy to download. R is maintained by an international team of developers who make the language available through the web page of the complete archive network. The upper part of the web page provides three connections for R.D. Follow the connection that describes the operating system: Windows, Mac or Linux. To install R on Windows, click on the Connection is à é à establish "Download R for Windows à é. Then click on the "base" connection. So, click on the first link at the top of the new page. This link should say something like àvelop "Download R 3.0.3 for Windows", except the 3.0.3 you will be replaced by the most current version of R. The link download an installation program, which installs the most updated - Da Version of R for Windows. Perform this program and passes through the installation wizard that appears. The guided procedure installments in the folders of the program files and position a connection in the Start menu. Note that you will have to have all the administration privileges Appropriate to install a new software on the machine. To install R on a Mac, click on the connection is à é àvelop "Download R for Mac". Then, click the connection of the R-3.0.3 package (or on the connection of the package for the most current version of R). An installer will be downloaded to guide you through the installation process, which is very simple. The installation program allows you to customize the installation, but the default settings will be suitable for most users. I have never found a reason to change them. If your computer requires a password first etnemamertse etnemamertse "À iranib iad R id enoizallatsni"! ,caM e swodniW enihccam el reP .ovitarepo ametsis isaislauq us etnof ad itiurtsoc o italipmocerp iranib ad itallatsni erness onossop R etnegros al ortnoc iranib I .iuq ongosib iarva en ,magorp ivoun erallatsni The track is precarious in its installer. Although it is possible to build r from source on these platforms, the process is much more complicated and does not benefit for most users. For Linux systems, the opposite is true. The pre-filled tracks can be found for some systems, but it is much more common to build r from the source files when installing on Linux. The download pages on the Cran website provide information on the construction of R from source for Windows, Mac and Linux platforms. R is pre-installed on many Linux systems, but you want the most recent version of R if yours is out of date. The Cran website provides files to build R from the source on Debian, Redhat, Suse and Ubuntu systems under the à é àScarica R link for Linuxà é. Click the link and then follow the directory route for the Linux version you want to install on. The exact installation procedure varies according to the Linux system that is used. Cran guides the process by grouping each set of source files with documentation or Readme files that explain how to install on the system. 32 Bit Versus 64-Bit R is available in both 32-bit versions and 64-bit. - And which one should be? In most cases, it doesn't matter. Both versions use 32-bit integrator, which means that they calculate numbers at the same numerical precision. The difference occurs in the way each version manages memory. 64-Bit R Use 64-bit memory and 32-bit R memory episodes uses 32-bit memory episodes. Clé means that R A 64 Bit has a larger memory space to use (and research through). As a thumb rule, 32-bit builds R are faster than 64-bit built, even if not always. On the other hand, 64-bit Build can manage larger files and data sets with less memory management problems. In both versions, the onnaras onnaras caM e swodniW irotallatsni ilG .et rep "À tib 23 a R ,BG 4 a eroirefni "À MAR aut al o ,tib 46 a immargorp atropus non ovitarepo ametsis li eS .itnemele id idrallim 2 acric a eartse is elairottev atitnesnoc amissam Install both versions if the system supports 64-bit R. R. is not a program that you can open and start using, such as Microsoft Word or Internet Explorer. Instead, R is a computer language, such as C, C ++ or UNIX. Use R by writing commands in the R language and asking your computer to interpret them. In the old days, people managed the R code in a UNIX terminal window - as if they were hackers in a 1980s movie. Now almost everyone uses R with an application called Rstudio and I also recommend you do it. R and unix can still run r in a unix or bash window by typing the command: r opening an R interpreter. You can do your job and close the interpreter by running Q () when you're done. RStudio is an application like Microsoft Word - except for the fact that instead of helping you write in English, RStudio helps you write in R. RStudio usage throughout the book because it makes using R much easier. In addition, the RStudio interface looks the same for Windows, Mac OS and Linux. This will help me match the book to your personal experience. You can download RStudio for free. Just click the "Download RStudio" button and follow the simple instructions below. Once you install RStudio, you can open it as any other program on your computer - Usually by clicking an icon on your desktop. Windows and Mac users of R GUIs usually do not program from a terminal window, so Windows and Mac downloads for R are equipped with a simple program that opens a window similar to a terminal where to run the R code. This is what opens when you click on the R icon on Windows or Mac Computer. These programs do a little more than the basic terminal window, but not much. You may hear people refer to them as Windows GUI or Mac R. When you open Rstudio, a window with three panes appears, as etnemattase etnemattase "À elosnoc alled artsenif aL .itatlusir i iardev e R ecidoc out li iariugese evod "À iuQ .elosnoc id artsenif anu "À ednarg 'Aip ordauqir ll .1.A arguif See if you performed R from a UNIX console or by Windows or Mac Guis. Everything else you see is unique for RStudio. Hidden in the other boxes are a text editor, a graphic window, a debugger, a file manager and much more. You will be aware of these boxes as they become useful during this book. Figure A.1: The Ide RStudio for R. I still have to download R? Even if you use RStudio, you will still have to download r to your computer. RStudio helps you use the version of R who lives on your computer, but is not equipped with a version of R alone. Now that you have both r and rStudio on your computer, you can start using R by opening the RSTUDIO program. Open RStudio just like you would do with any program, by clicking on its icon or by typing "RStudio" at the Windows Run prompt. Page 2 Many of the most useful functions of R are not preloaded when you start R, but reside in packages that can be installed on R. R packages are similar to C, C ++ and Javascript bookstores, Python and gems packages in RubyA package R groups the useful functions, help files and data sets. You can use these functions within your code R once the package in which they live. Usually the content of an R pack is all related to a single type of activity, which the package helps to resolve. The R packages will allow to exploit the most useful characteristics of R: its great community of writers of packages (many of which are active date scientists) and its routines prepared to manage many common (and exotic) activities of data science. Base R You could hear users R (or me) refer to "Base R." What is the basis R? It is only the collection of r Functions that are loaded every time you start R. These functions provide the basics of the language and you must not load a package before you can use them. To use an R package, it's First install it on the computer and then load it into the current r session. current. odnamoc li rep orev "À non otseuQ(.airerbil alled odnamoc li rep ilanoizpo onos inoizatauq el am ,ilrasu ioup ,iredised of eS .israpmocs onos atouq id ihcram i ehc atoN)>ottehccap emon

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