1   Installing R and RStudio on Ubuntu Linux 16.04 and higher versions

1.1   Getting ready for R and RStudio installation

1. To follow the installation procedure, you need to be connected to the Internet.

2. Following system requirements are recommended:

    (a) A 64-bit operating system.
    (b) At least 1 GB disk space should be available.
    (c) Minimum of 1 GB RAM.
    (d) 2 GHz dual-core processor or above.

3. Locate the tutorial `Installing R and RStudio on Linux`.

1.2   Installing R on your machine

1. At 0:52, the tutorial shows how to open a Terminal.

2. At 1:07, the tutorial shows how to install `R`.

3. At 2:00, the tutorial shows how to launch the command-line-interface of `R`.

4. At 2:08, the tutorial shows how to know the version of `R` installed on your machine.

5. At 2:45, the tutorial shows how to check whether `R` has been installed.

6. At 3:10, the tutorial shows how to exit the current session of `R`.

1.3   Installing RStudio on your machine

1. At 4:07, the tutorial shows how to install `wget` utility.

2. At 4:34, the tutorial shows how to change the current directory to `home`.

3. At 4:53, the tutorial shows how to download the `deb` file for `RStudio 1.1.463`.

4. At 5:20, the tutorial shows how to install `gdebi` utility.

5. At 6:00, the tutorial shows how to install the `deb` file of `RStudio`. Those who are having Ubuntu 18.04, might face the issue of specific dependencies not being satisfied. They should refer to the note given on the next page. After executing the steps given in the note, you should continue watching the tutorial from where you left off.

6. At 6:38, the tutorial shows how to launch `RStudio` from the Terminal.

7. At 6:50, the tutorial shows how to check whether `RStudio` has been installed.

8. At 7:40, the tutorial shows how to install the required packages.

9. At 7:44, the tutorial shows how to install the `plyr` package. On Ubuntu 18.04, you might not be able to install the `plyr` package due to missing `Rcpp.h`. In this case, you should install `Rcpp`, followed by `plyr`. To install `Rcpp`, go to the `Console` of `RStudio` and execute **ONE** of the two commands given below:

    (a) `install.packages("Rcpp")`
    (b) `install.packages("Rcpp", dependencies = TRUE, INSTALL_opts = "--no-lock")`

10. At 8:14, the tutorial shows how to install the `MASS` package.

11. At 8:47, the tutorial shows how to install the `ggplot2` package.

12. At 9:28, the tutorial shows how to install the `dplyr` package.

Note for installing RStudio on Ubuntu Linux 18.04 and higher versions: Before referring to this section, we are assuming that you have tried executing all the commands given above. Thus, it is expected that you have successfully installed certain utilities `wget` and `gdebi`. While installing `RStudio` on Ubuntu 18.04, you might face the issue of specific dependencies not being satisfied. In this case, you should install the latest version of `RStudio` by following **ONE** of the two steps given below:

1. Visit the URL `https://rstudio.com/products/rstudio/download/#download`. Locate the installer suitable for your operating system (OS) and click on the installer to download it. For example, if your OS is Ubuntu 18.04, you are supposed to download the installer next to Ubuntu 18/Debian 10.

   Once you have downloaded the installer, you need to locate the folder where the installer has been downloaded on your machine. Next, open that folder in a `Terminal` and then, you can install `RStudio` by running the following command in the `Terminal`:
   `sudo gdebi rstudio-1.3.1056-amd64.deb`

2. Open a `Terminal` and execute the following three commands one by one.
   `cd`
   `wget https://download1.rstudio.org/desktop/bionic/amd64/rstudio-1.3.1056-amd64.deb`
   `sudo gdebi rstudio-1.3.1056-amd64.deb`
   In the second command, the URL stated after `wget` will keep changing depending upon the latest version being published on the website of `RStudio`.

2 Installing R and RStudio on Windows 10

2.1 Getting ready for R and RStudio installation

1. To follow the installation procedure, you need to be connected to the Internet.

2. Following system requirements are recommended:

   (a) A 64-bit operating system.
   (b) At least 1 GB disk space should be available.
   (c) Minimum of 1 GB RAM.
   (d) 2 GHz dual-core processor or above.

3. Locate the tutorial `Installing R and RStudio on Windows`.

2.2 Installing R on your machine

1. At 0:35, the tutorial shows how to install `R`.

2. At 4:11, the tutorial shows how to launch the command-line-interface of `R`.

3. At 4:39, the tutorial shows the version of `R` installed on your machine.

4. At 4:55, the tutorial shows how to check whether `R` has been installed.

5. At 5:20, the tutorial shows how to exit the current session of `R`.

2.3 Installing RStudio on your machine

1. At 5:44, the tutorial shows how to install `RStudio 1.1.463`.

2. At 8:31, the tutorial shows how to launch `RStudio`.

3. At 8:53, the tutorial shows how to check whether `RStudio` has been installed.

4. At 9:38, the tutorial shows how to install the required packages.

5. At 9:41, the tutorial shows how to install the `plyr` package.

6. At 10:04, the tutorial shows how to install the `MASS` package.

7. At 10:29, the tutorial shows how to install the `ggplot2` package.

8. At 11:03, the tutorial shows how to install the `dplyr` package.