Getting Start with R

Informal Report

### Nick McCoy

# Installing R and RStudio

There were no problems installing R or R studio. The tutorial was useful, and it gave directions on how to install the R using the command prompt and directed the uses to rstudio.com to setup R Studio. Prior to this task I had previously installed R using similar but different process as follows (Windows):

## To Install R:

1. Open an internet browser and go to [www.r-project.org](http://www.r-project.org/).
2. Click the "download R" link in the middle of the page under "Getting Started."
3. Select a CRAN location (a mirror site) and click the corresponding link.
4. Click on the "Download R for Windows" link at the top of the page.
5. Click on the "install R for the first time" link at the top of the page.
6. Click "Download R for Windows" and save the executable file somewhere on your computer.  Run the .exe file and follow the installation instructions.
7. Now that R is installed, you need to download and install RStudio.

## To Install RStudio

1. Go to [www.rstudio.com](http://www.rstudio.com/) and click on the "Download RStudio" button.
2. Click on "Download RStudio Desktop."
3. Click on the version recommended for your system, or the latest Windows version, and save the executable file.  Run the .exe file and follow the installation instructions.

## Recommendation

I would recommend this process over the command prompt setup method, only because some who are new to R may be more familiar with downloading software directly from websites, but as mentioned both methods work.

# Cars Dataset Predictions

|  |  |
| --- | --- |
| Actual Distance | Predicted Distance |
| 2 | -14.9541491 |
| 4 | -14.9541491 |
| 16 | 10.4132911 |
| 26 | 30.7072433 |
| 28 | 30.7072433 |
| 32 | 35.7807314 |
| 34 | 35.7807314 |
| 34 | 35.7807314 |
| 52 | 56.0746835 |
| 54 | 56.0746835 |
| 56 | 61.1481716 |
| 60 | 66.2216596 |
| 76 | 76.3686357 |
| 84 | 86.5156118 |
| 85 | 86.5156118 |

# Iris Dataset Predictions

|  |  |
| --- | --- |
| Actual Pedal Width | Predicted Width |
| 0.2 | 0.23950235 |
| 0.2 | 0.23950235 |
| 0.2 | 0.1987719 |
| 0.2 | 0.23950235 |
| 0.2 | 0.2802328 |
| 0.3 | 0.23950235 |
| 0.3 | 0.36169371 |
| 0.2 | 0.2802328 |
| 0.2 | 0.23950235 |
| 0.1 | 0.2802328 |
| 0.2 | 0.15804144 |
| 0.4 | 0.44315461 |
| 0.2 | 0.23950235 |
| 0.2 | 0.2802328 |
| 1.5 | 1.54287684 |
| 1.3 | 1.50214639 |
| 1.6 | 1.58360729 |
| 1 | 1.01338095 |
| 1.3 | 1.54287684 |
| 1 | 1.09484186 |
| 1.5 | 1.37995503 |
| 1.3 | 1.13557231 |
| 1.4 | 1.46141593 |
| 1 | 1.33922457 |
| 1.1 | 1.25776367 |
| 1.4 | 1.62433774 |
| 1.2 | 1.25776367 |
| 1.6 | 1.7465291 |
| 1 | 1.01338095 |
| 1.3 | 1.37995503 |
| 1.3 | 1.42068548 |
| 1.3 | 1.33922457 |
| 2.5 | 2.11310318 |
| 1.8 | 1.95018137 |
| 2.2 | 2.03164227 |
| 2 | 1.7465291 |
| 2.1 | 1.90945091 |
| 2.3 | 1.82799001 |
| 2.1 | 1.99091182 |
| 1.9 | 2.15383363 |
| 2.2 | 1.95018137 |
| 1.4 | 1.95018137 |
| 2.1 | 1.86872046 |
| 2.4 | 1.95018137 |
| 2.5 | 1.99091182 |
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