Installing R

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R. Software

R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS.

To install R and its essential programs, follow these steps:

1. Install R:

- Windows:
 - Visit the CRAN (Comprehensive R Archive Network) website: https://cran.r-project.org/
 - Choose a nearby CRAN mirror and download the R installer for Windows.
 - Run the installer and follow the installation instructions.
- macOS:
 - You can install R on macOS using the Homebrew package manager or by downloading the installer from the CRAN website.
 - To install using Homebrew, open Terminal and run the following commands:

```
\#/bin/bash -c \#(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install.sh) \# #brew install --cask r
```

- Linux (Ubuntu as an example):
 - Open a terminal and run the following commands:

```
##sudo apt update
##sudo apt install r-base
```

2. Install RStudio (optional but highly recommended)

• RStudio is a popular integrated development environment (IDE) for R that makes working with R much easier. You can download it from the RStudio website: https://www.rstudio.com/products/rstudio/download/

3. Install essential R packages

• Once you have R installed, open R or RStudio. You can install R packages (libraries) using the 'install.packages()' function. For example, to install the popular 'dplyr' package, open R or RStudio and run:

```
#install.packages("dplyr")
```

• Install any other packages you need for your specific tasks by replacing "dplyr" with the package name.

4. Start using R

• You can now start using R by opening R or RStudio. You can write and run R scripts, interactively work in the console, and perform data analysis and visualization.

5. Learn R

• To effectively use R, consider learning the language and its data analysis capabilities using the "dplyr" package.

6. Or videos

Many introduction videos explaining the basics of R can be found on YouTube. For example:

 $https://www.youtube.com/watch?v=riONFzJdXcs/list=PLqzoL9-eJTNBDdKgJgJzaQcY6OXmsXAHU/https://www.youtube.com/watch?v=SWxoJqTqo08/list=PLjgj6kdf_snYBkIsWQYcYtUZiDpam7ygg/https://www.youtube.com/watch?v=LjuXiBjxryQ/$

If you prefer to read manuals about R, please visit https://cran.r-project.org/ manuals. html.