Guide to Downloading and Installing R

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1 Introduction

R is a free software environment for statistical computing and graphics. These are the following instructions based on your respective machine.

2 Install R

2.1 For Windows Users

R is installed via an executable installer.

1. Go to the Comprehensive R Archive Network (CRAN) website: https://cran.r-project.org/

2. Click on the link for **Download R for Windows**.

3. On the next page, click on **install R for the first time**.

4. Click the link to download the latest version of R (e.g., "Download R-4.X.X for Windows").

5. Run the downloaded `.exe` file. Accept all the default settings during the installation process.

2.2 For macOS Users

R is installed using a `.pkg` installer package.

1. Go to the Comprehensive R Archive Network (CRAN) website: https://cran.r-project.org/

2. Click on the link for **Download R for (Mac) OS X**.

3. Download the latest `.pkg` file appropriate for your Mac architecture (e.g., one for Intel or one for Apple Silicon, which is marked as `arm64`). Generally speaking, most newer MacOS X based laptops will use Apple Silicon.

4. Run the downloaded `.pkg` file. Follow the installation prompts, agreeing to the license and default installation location.

2.3   For Linux Users (Ubuntu/Debian)

The most robust way to install R on systems such as Ubuntu or Debian is by using the command line.

1. Open your terminal application (usually `Ctrl + Alt + T`).

2. Update your package lists:

   ```
   sudo apt update
   ```

3. Install the R base package:

   ```
   sudo apt install r-base
   ```

4. When prompted, type `Y` and press `Enter` to continue the installation.

2.4   For ChromeOS Users

Direct Installation on ChromeOS is NOT Possible without Linux Support.

R is a desktop application and cannot run directly in the standard ChromeOS environment. Your device must be able to run the Linux (Beta) environment.

1. **Enable Linux (Beta):** Go to your ChromeOS Settings → Linux (Beta) → Turn On. Follow the prompts to set up the Linux container.

2. **Open Terminal:** Once setup, open the Linux Terminal.

3. **Install R:** Use the Linux instructions above to install R inside the Linux environment.

3   Alternatives

If, for whatever reason, your machine is unable to use any of the above installation methods, you may utilize a much simpler solution such as a free online R environment like Posit Cloud or Google Colab.

4   First Run and Verification

4.1   Launching R

1. Find and open the application on your desktop, or type R into your terminal if on a Linux based OS.

2. You should see the console/terminal when you execute R binaries.

4.2 Verification Test

To confirm that R is functioning, perform a simple test. In the Console panel, type the following and press `Enter`:

```
print("Hello R World!")
```

Expected Result: The text `[1] "Hello R World!"` should appear below your command. If this happens, your installation is successful!