README for Basic R Project in RStudio

This repository contains a simple "Hello, World!" program written in R, designed for beginners who are just starting with R programming in RStudio. This project demonstrates the basic syntax and structure of an R script.

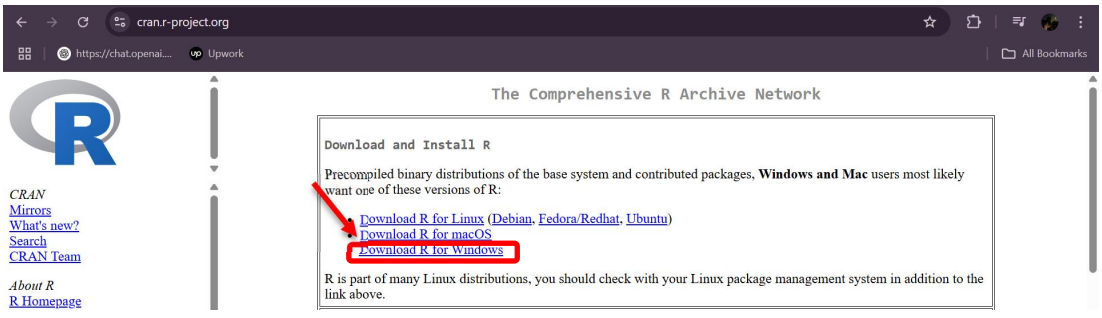
System Requirements

To run this basic R program, you'll need:

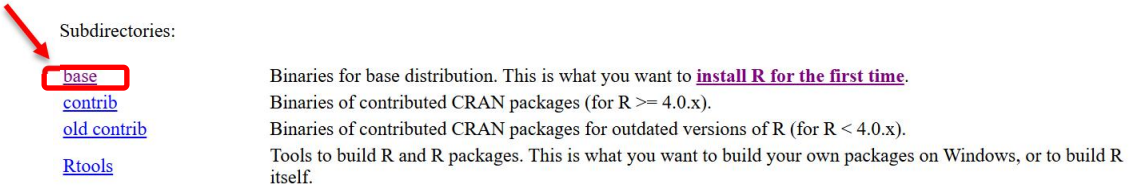
1. **R** (version 3.0 or higher recommended)
    - Download from: https://cran.r-project.org/
2. **RStudio** (optional but recommended)
    - Download the free desktop version from: https://www.rstudio.com/products/rstudio/download/
3. **Operating System**: Windows 10, macOS 10.13, or any Linux distribution (e.g., Ubuntu 20.04 or later)
    - **Processor:** 1 GHz or faster
    - **RAM:** Minimum 1 GB (2 GB or more recommended)
    - **Disk Space:** At least 500 MB of free space
    - **Internet Connection:** Required only for downloading the setup files

Step 1: Download R

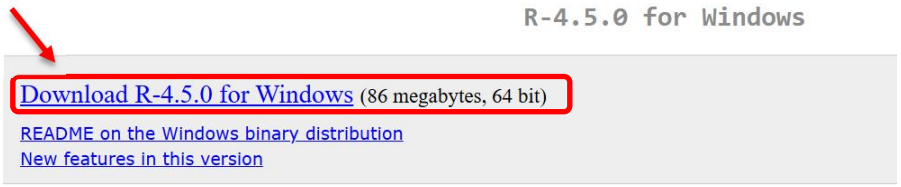
- Visit https://cran.r-project.org
- Click on **"Download R for Windows"**.



- On the next page, click **"base"**.

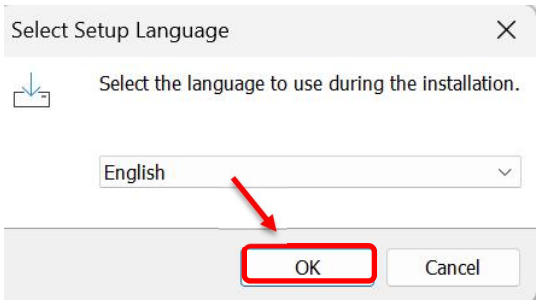


- Then click **"Download R-X.X.X for Windows"** (X.X.X will be the latest version number).

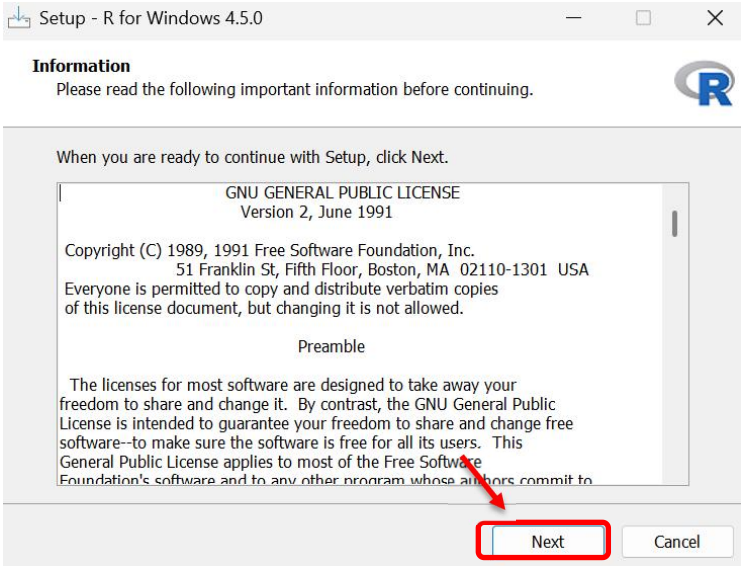


Step 2: Install R

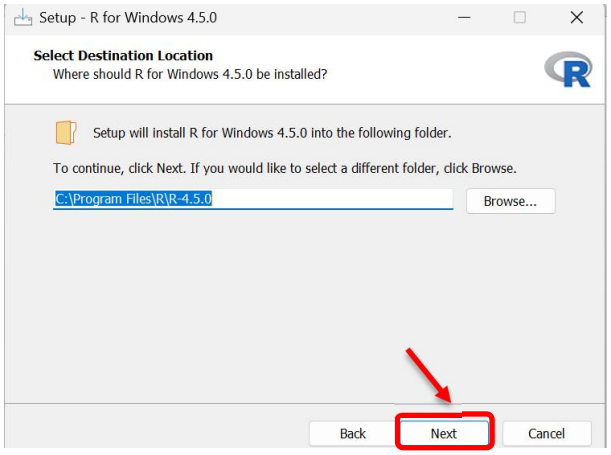
1. Locate the downloaded .exe file in your Downloads folder.
2. Double-click the file to begin installation.
3. Choose the language and click ok.



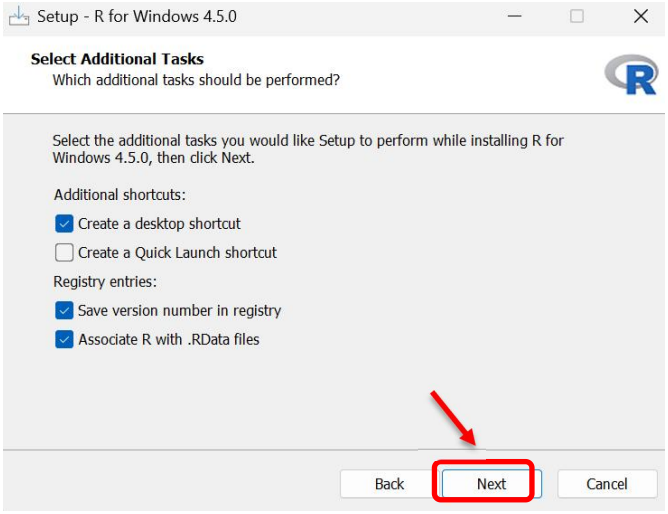
4. Accept the license agreement and click **Next**.



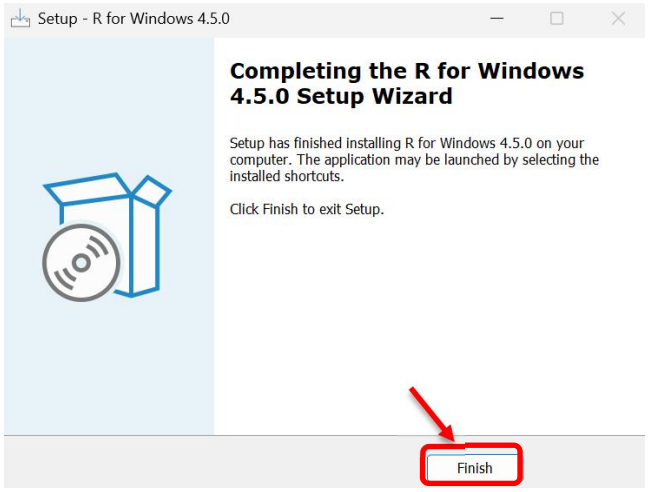
5. Choose the default installation folder and click **Next**.



6. Keep all default settings and keep clicking **Next** until you see **Install**.

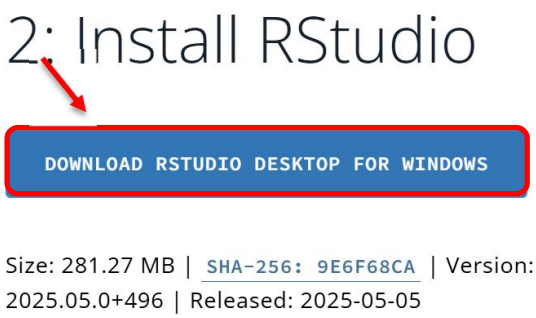


7. Once completed, click **Finish**.



Step 3: Download RStudio

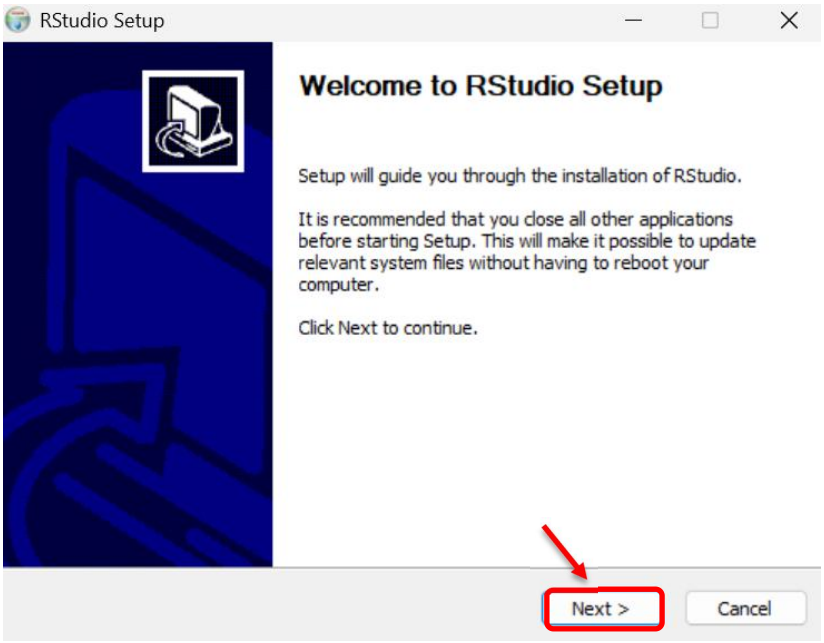
1. Open your browser and visit: (https://posit.co/download/rstudio-desktop)
2. Click **Download** under Windows.



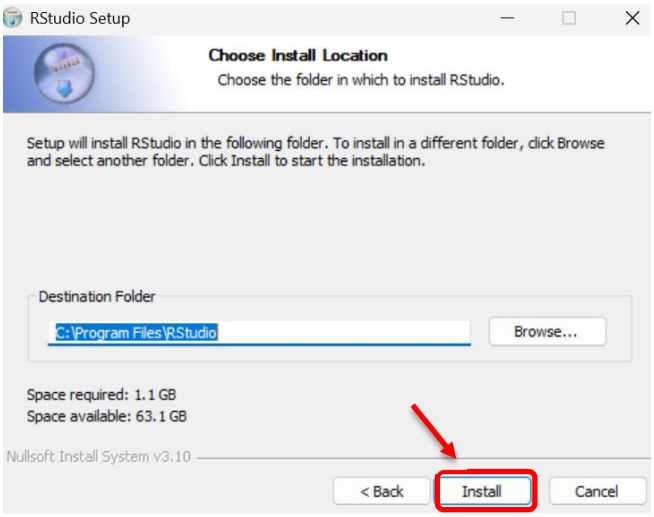
3. Wait for the setup file (.exe) to finish downloading.

Step 4: Install RStudio

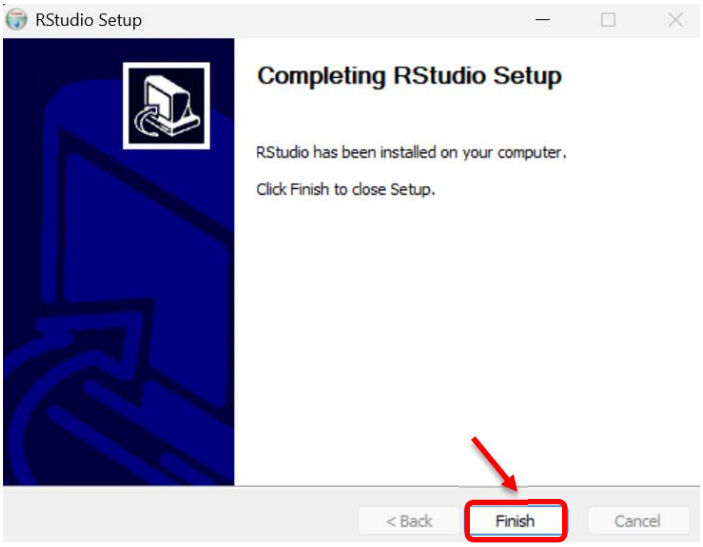
1. Locate the RStudio-Setup.exe file in your Downloads folder.
2. Double-click to launch the installer.
3. Click **Next** to continue.



4. Choose the installation location (default is fine), and click **Next**.
5. Click **Install**.

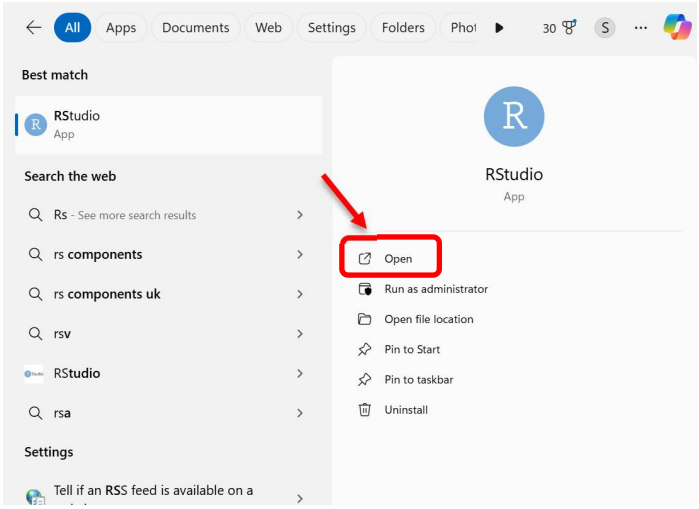


6. When installation is complete, click **Finish**.

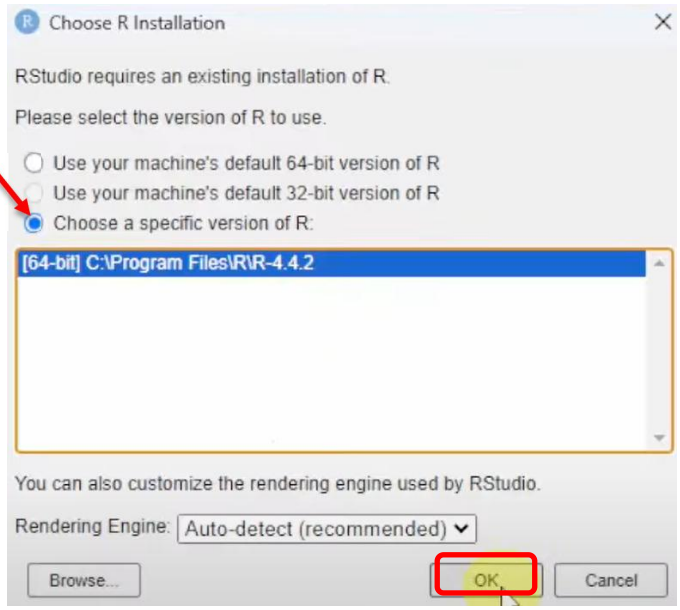


Step 5: Write Your First R Program

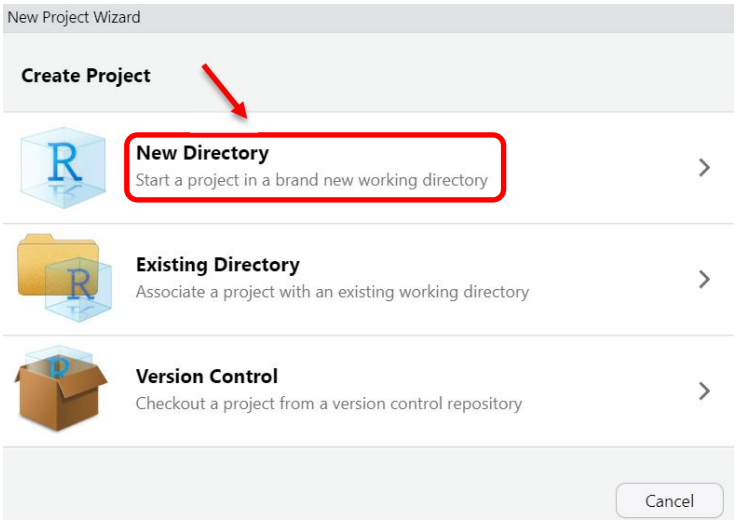
1. Open **RStudio** by double-clicking the RStudio icon on your desktop or searching for it in Start Menu.



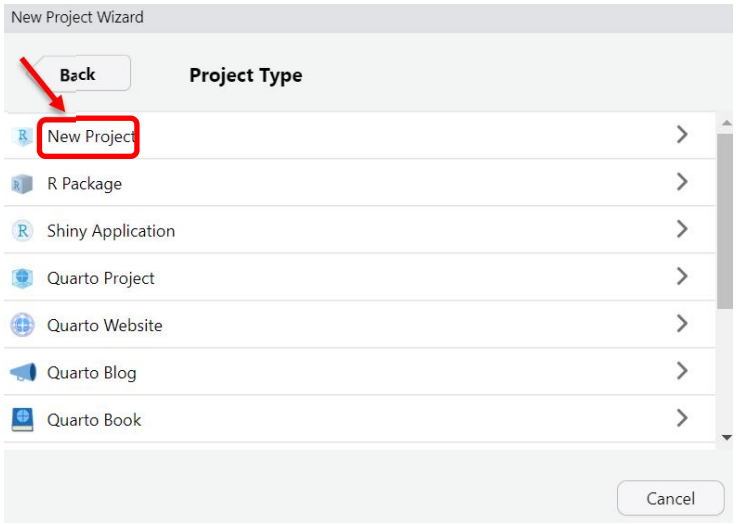
2. Choose the specific version which is installed in PC and click on ok.



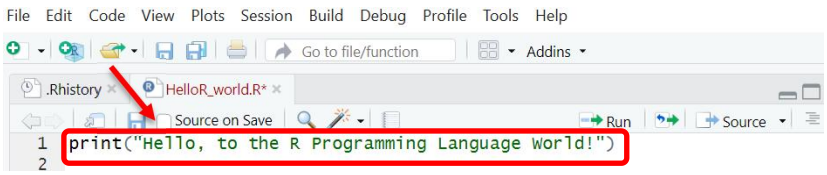
3. Click on **File > New File > R Script**.
4. Now select the new project type.
5. As it is basic beginner readme file click on **New Directory**.



6. Click on **New Project**.



7. Name and Choose Location:
    - **Directory Name:** Type HelloRProject
    - **Create project as subdirectory of:** Click **Browse** and choose where on your computer (e.g., Desktop) you want to save it
8. Click **Create Project**
9. A new editor tab will appear at the top.
10. Type the following R code in the editor:



Step 6: Save the Program

1. Click on **File > Save As**.
2. Choose a location (like Desktop or Documents).
3. Enter a filename like helloR_world.R (make sure it ends with .R).
4. Click **Save**.

Step 7: Run the Program

1. Place your cursor on the print("Hello, World!") line.
2. Click the **Run** button (green triangle icon at the top-right of the script editor), **OR** press **Ctrl + Enter** on your keyboard.

Step 8: View Output

You will see the output printed in the **Console** section at the bottom of RStudio:

```
[1] "Hello, to the R Programming Language World!"
```