



R-INSTAT 0.4.0 INSTALLATION MANUAL

MAXWELL FUNDI
AFRICAN MATHS INITIATIVE

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Installation instructions

Downloading R-Instat 0.4.0

Download R-Instat from this link: <http://www.africanmathsinitiative.net/blog/initiatives/african-data-initiative/>

R-Instat can be installed on machines running Windows 7 or later. Currently, for Mac and Linux based operating systems, you can use R-Instat by using virtual machines. We will be creating separate guide.

R-Instat Prerequisites

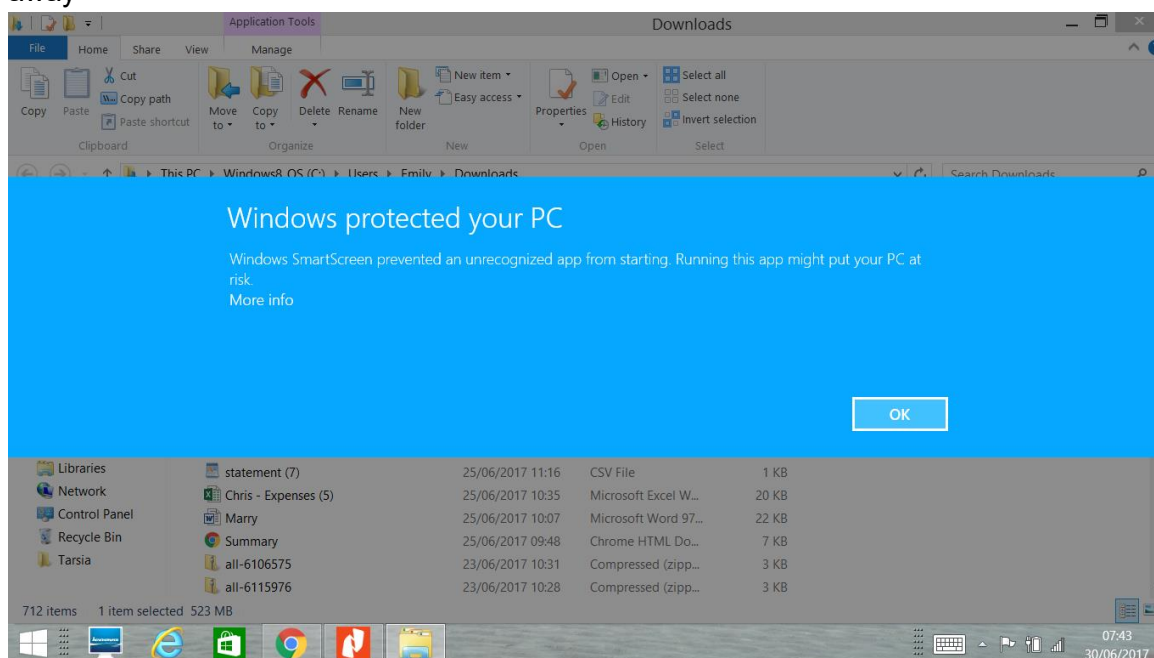
For R-Instat to run properly, it requires the following software to be installed.

1. *.NET Framework* minimum version 4.5
2. *R* minimum version 0.4.0
3. *Rtools* minimum version 3.3.0

If you already have these software installed, the installer should detect them, otherwise it will install them automatically for you. No internet connection is required during the entire installation because they are all bundled in the installer.

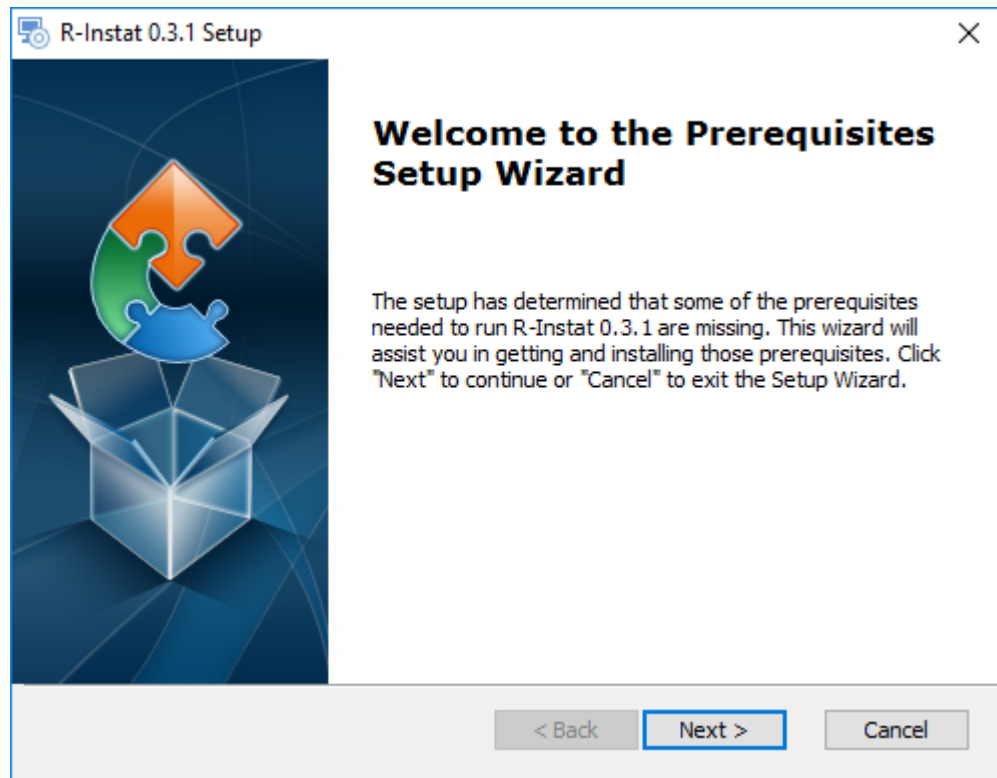
Step by step installation

1. Browse to where you have saved the R-Instat installer
2. **Right click** and then click **Open** to run it
3. **For Windows 8 Users**, if you find this pop up, click more info I you will able to “run away”

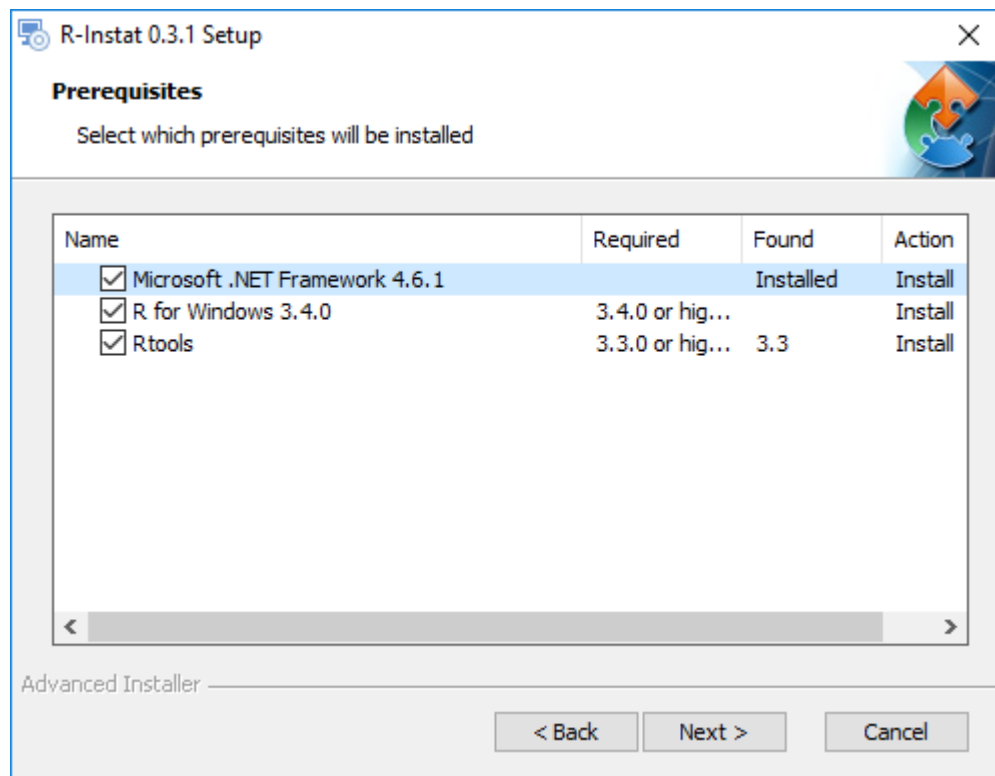


4. If the software determines that you are lacking any of the prerequisites mentioned

above, it will prompt you to install them. Otherwise it will go straight to installing R-Instat (go to step 15). If prerequisites are missing, the following dialog box will appear. Click **Next** to continue.

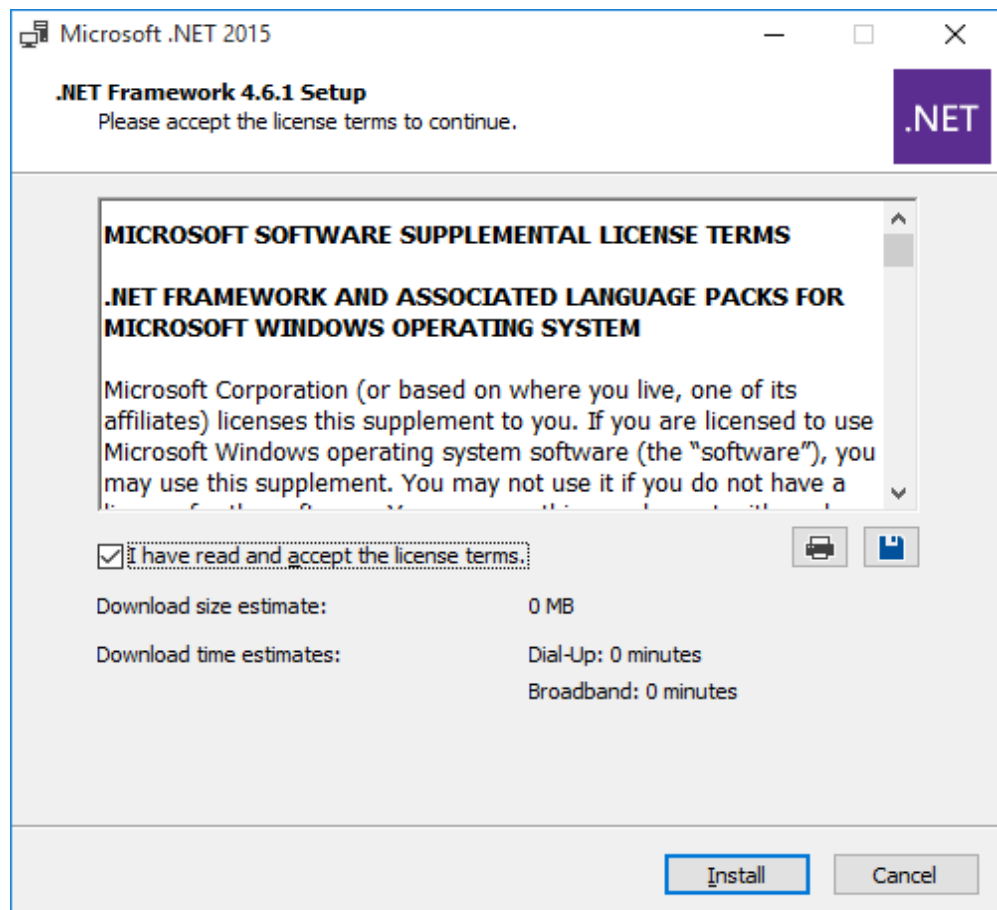


5. The following dialog shows all the prerequisites that need to be installed. In the case displayed below, none of the prerequisites were detected so they have been checked to be installed. It is not recommended to change the default check boxes. Click **Next** to start installing the checked prerequisites.



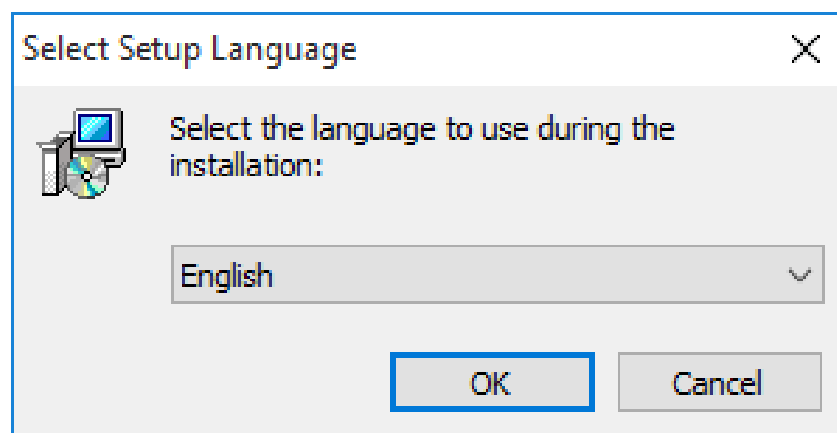
Installing Microsoft .NET Framework.

6. The installer will extract the Microsoft .NET Framework files to be installed. At the end of the procedure, a dialog will be displayed (see below). Check the **I have read and accept the licence terms** option, and then click **Install**. At the end of the installation, click on **Finish**. The installer will then start installing the next prerequisites if any, in our case: R for Windows 0.4.0

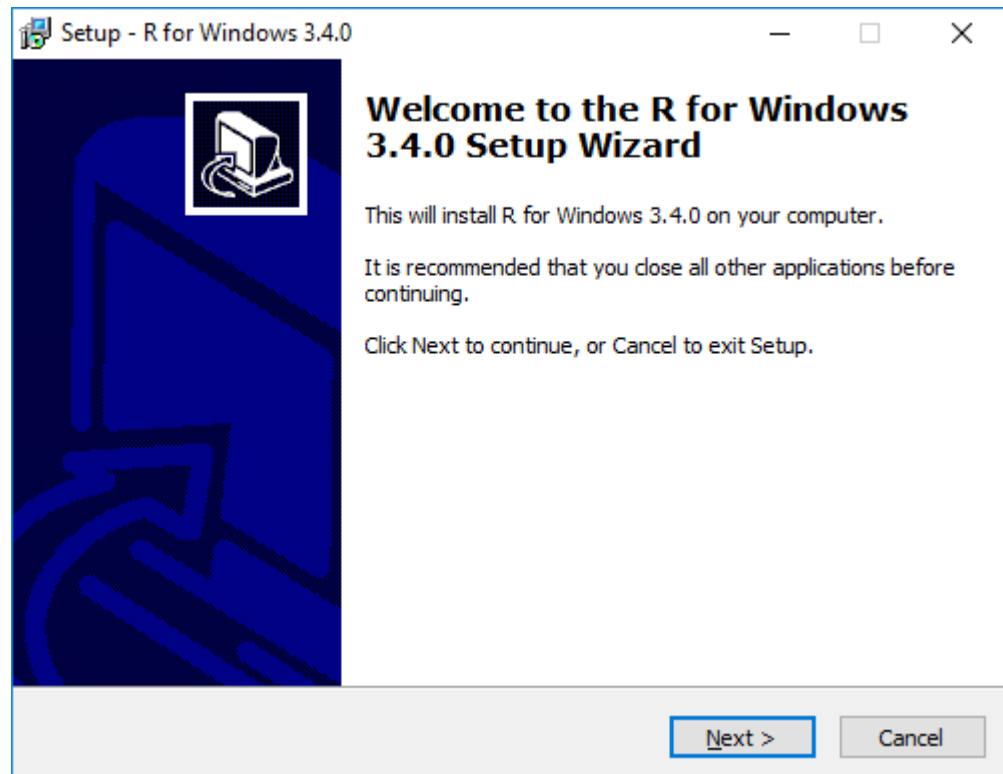


Installing R for Windows 0.4.0

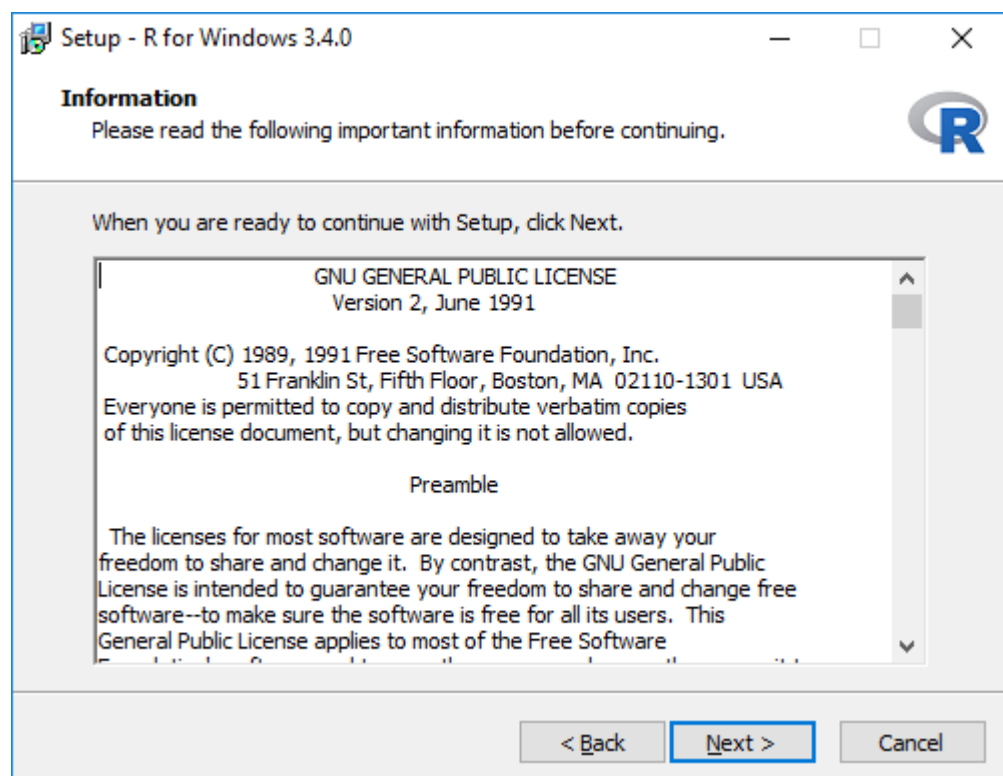
7. You will be first asked to choose the language you wish to use during the installation. Select your preferred language and then click **OK**



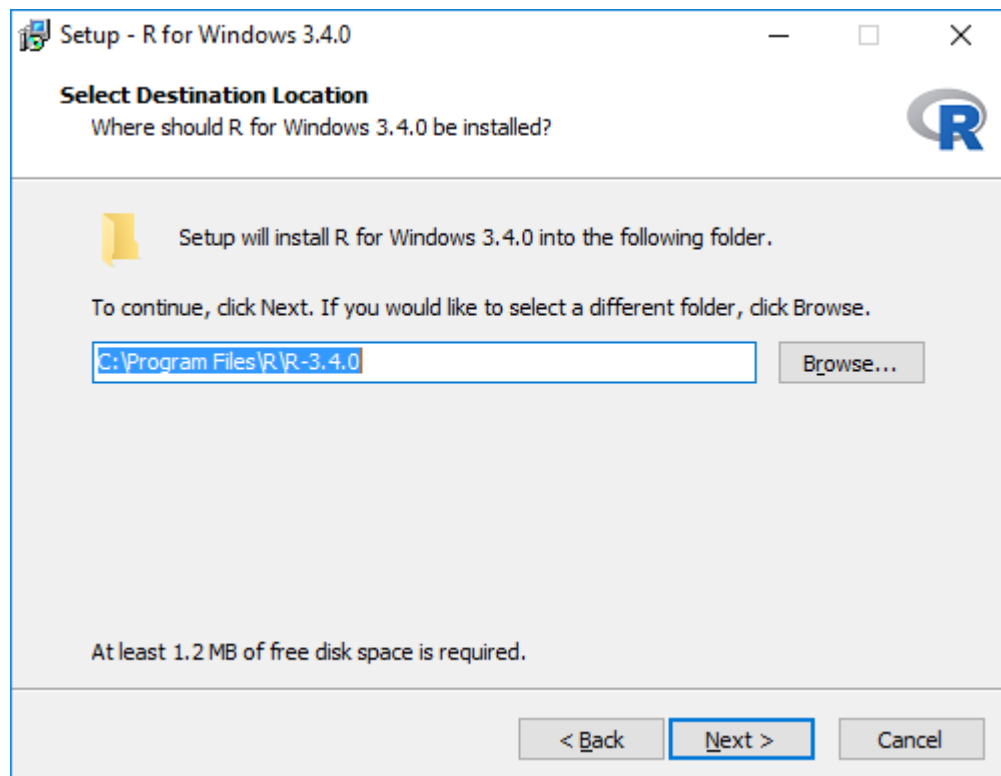
8. Click **Next** on the following dialog



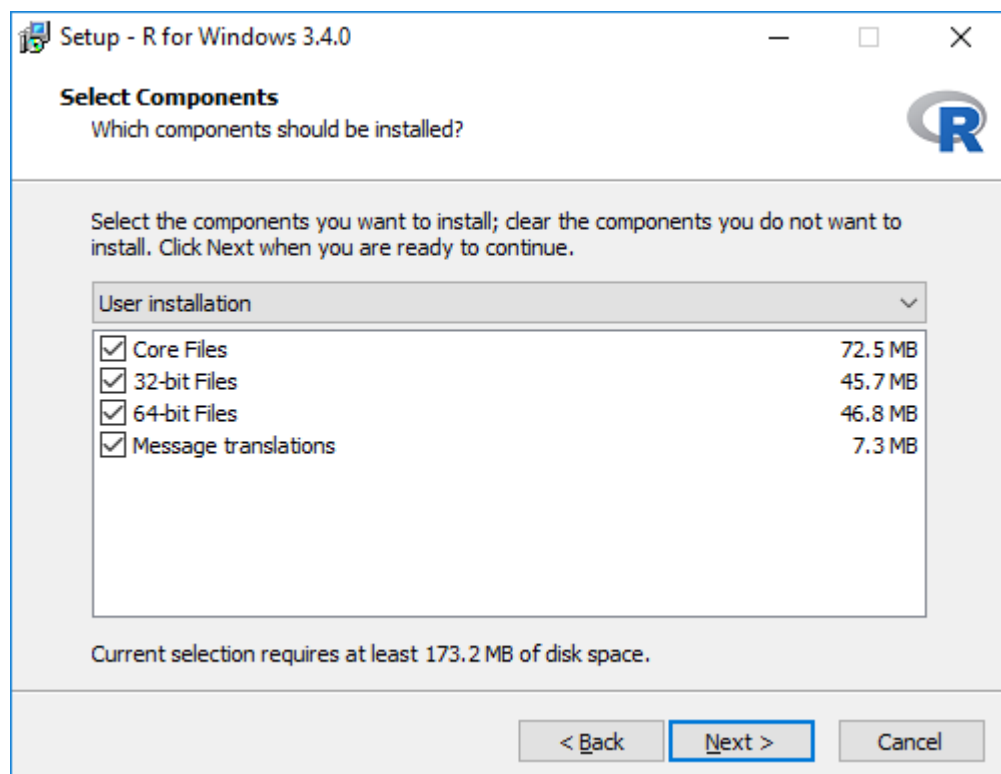
9. The following dialog then displays the license, which you accept by clicking **Next**.



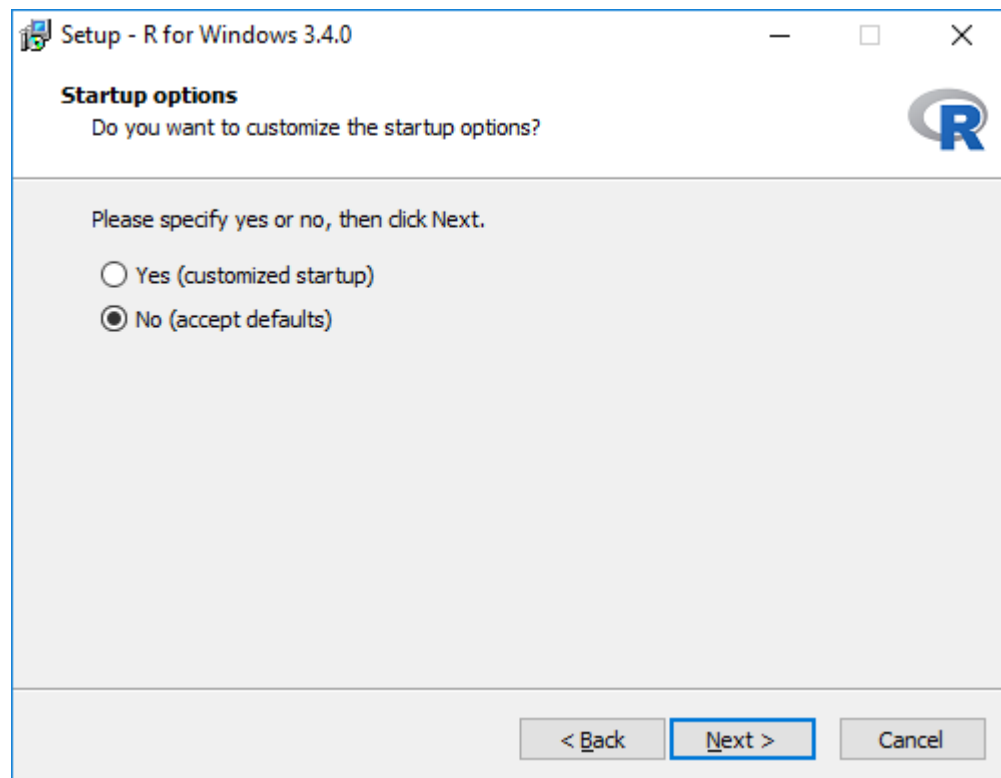
10. Then click **Next** again on the following dialog to accept the default path for R installation



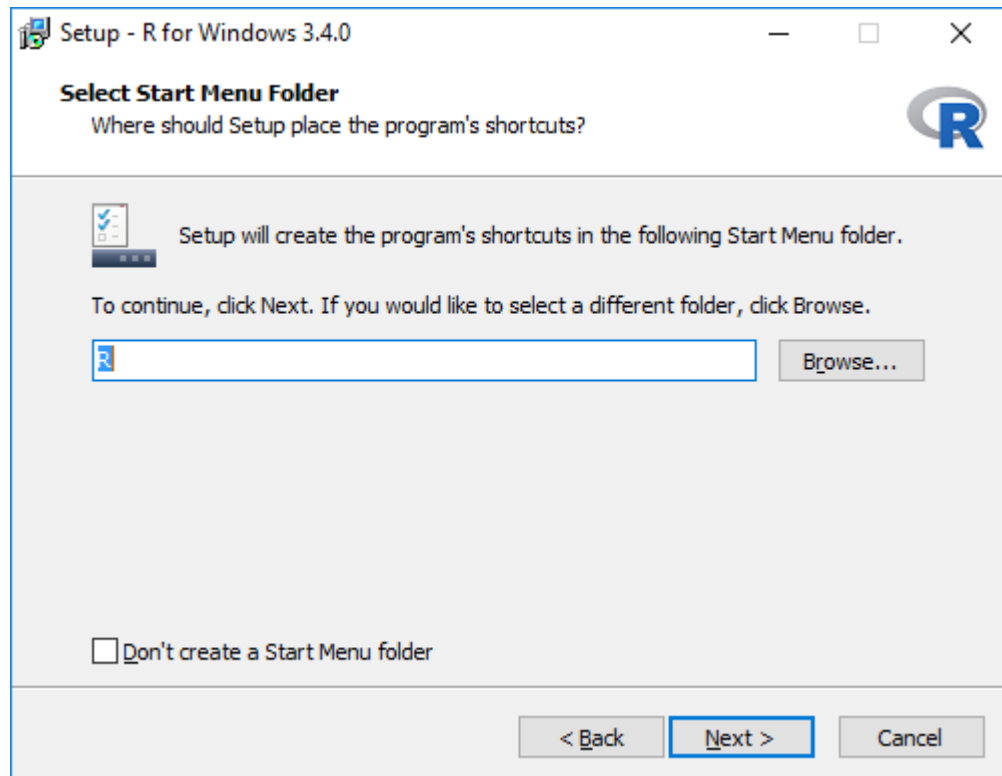
11. The subsequent dialog shows user installation options. Click **Next** without changing any settings as all the displayed components are necessary for R-Instat to run. Warning: if you do not select all at this stage, R-Instat will not run.



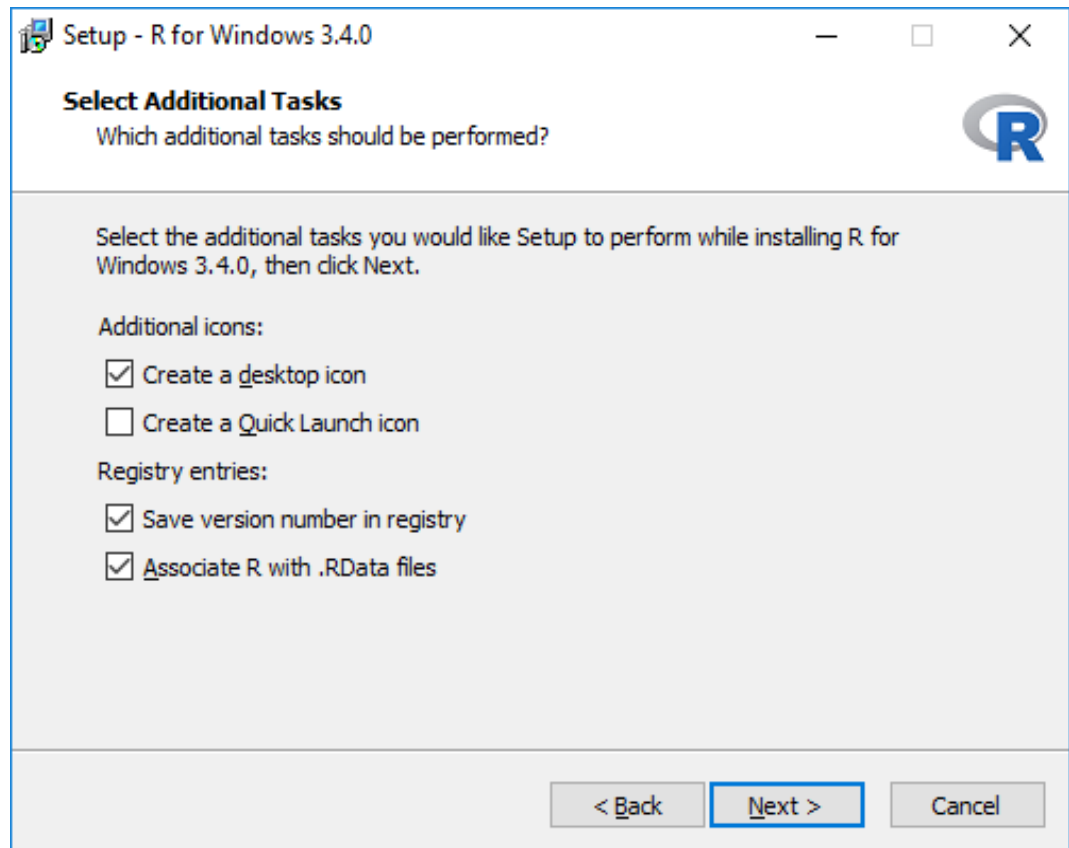
12. On the Startup Options dialog, either accept defaults or choose to customise. We recommend accepting the defaults in most case. Then click **Next**.



13. Again, we recommend leaving all the default settings on the Select Start Menu Folder dialog and clicking **Next**

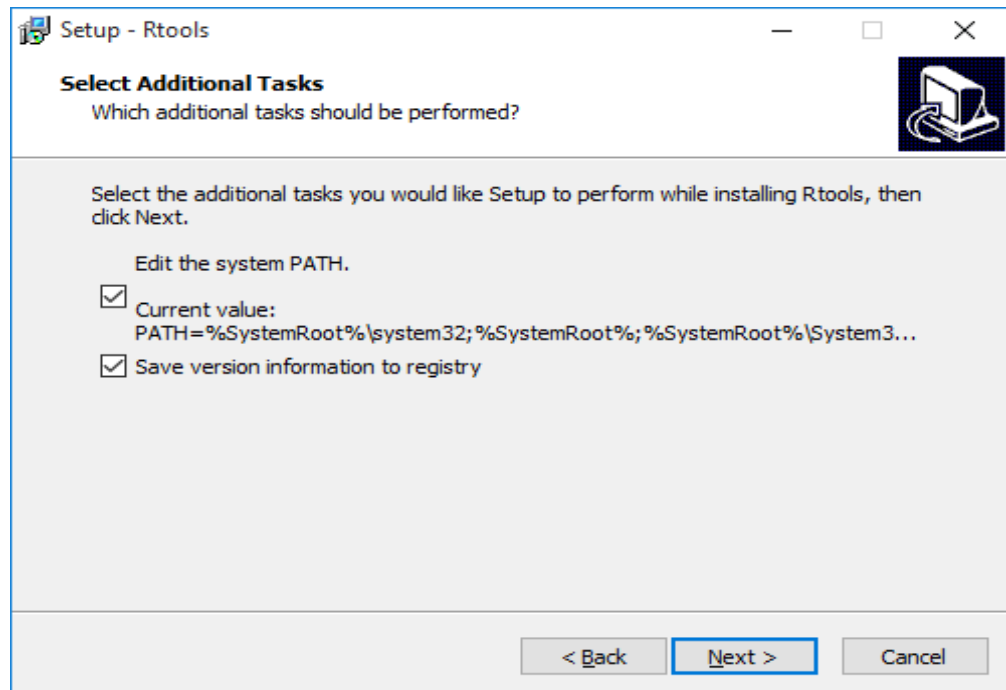


14. On the Select Additional Tasks dialog shown below, you can choose which shortcuts to create. **Save version number in registry** must be checked for R-Instat to run. Click **Next**. This will then run an installation of R for Windows 0.4.0, at the end of which you click on **Finish**. The installer will then proceed to installing the next prerequisite, if any: in our case, Rtools.

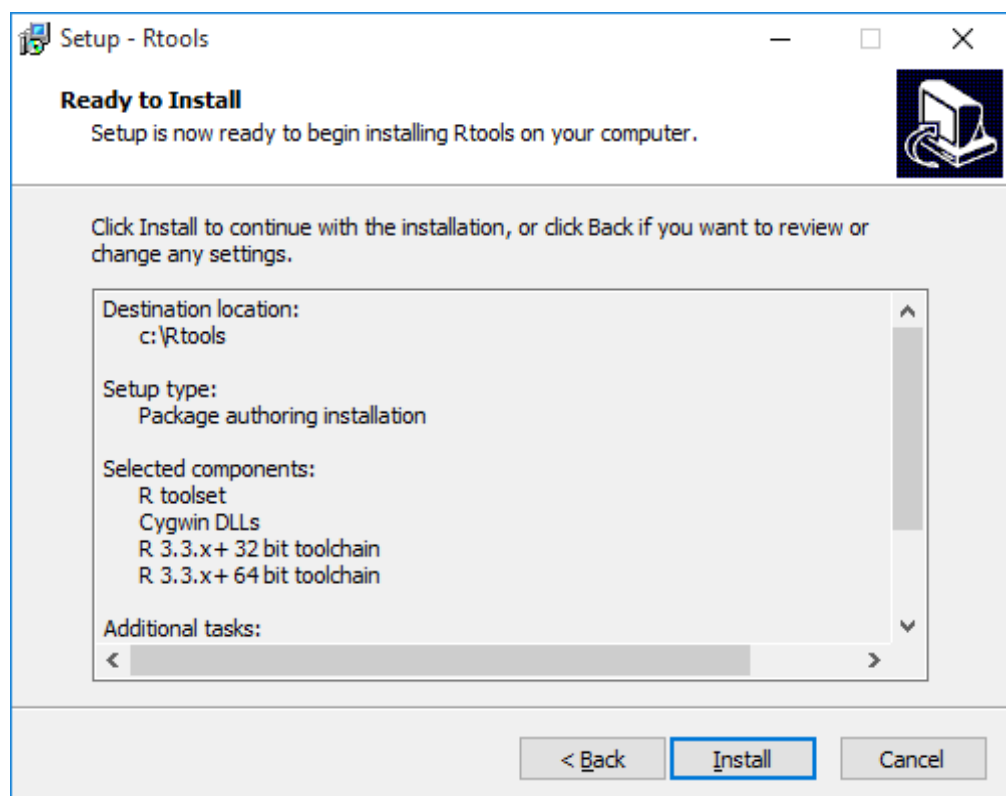


Installing Rtools

15. Just like in installing R, select the language you want to use. Click Next on all dialogs until you get to the Select Additional Tasks dialog where you need to check the **Edit the System PATH**. This is necessary to enable R-Instat to export data to Excel files. If **Edit the System PATH** is not checked during installation, serious errors will occur when attempting to export data from R-Instat to Excel.



All other dialogs displayed during the Rtools installation can remain unchanged. We recommend leaving all default settings except the one explained above. Then click on **Install** on the Ready to Install dialog shown below. The installation of Rtools can take several minutes. Once this is done, the R-Instat main installation will start automatically.

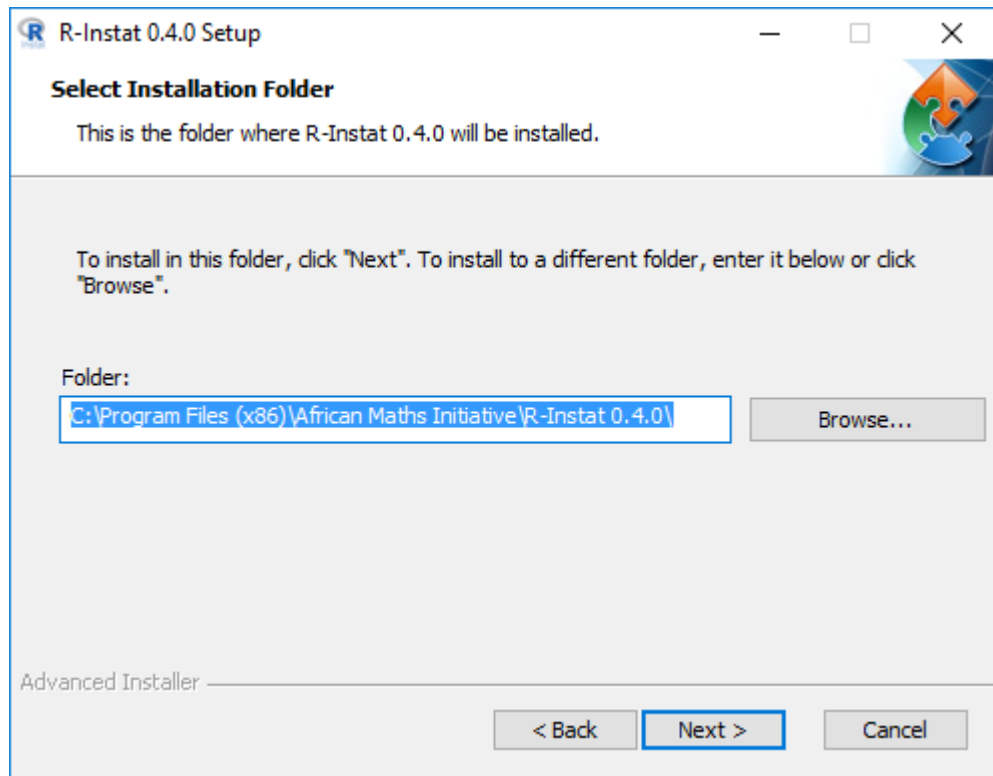


Installing R-Instat

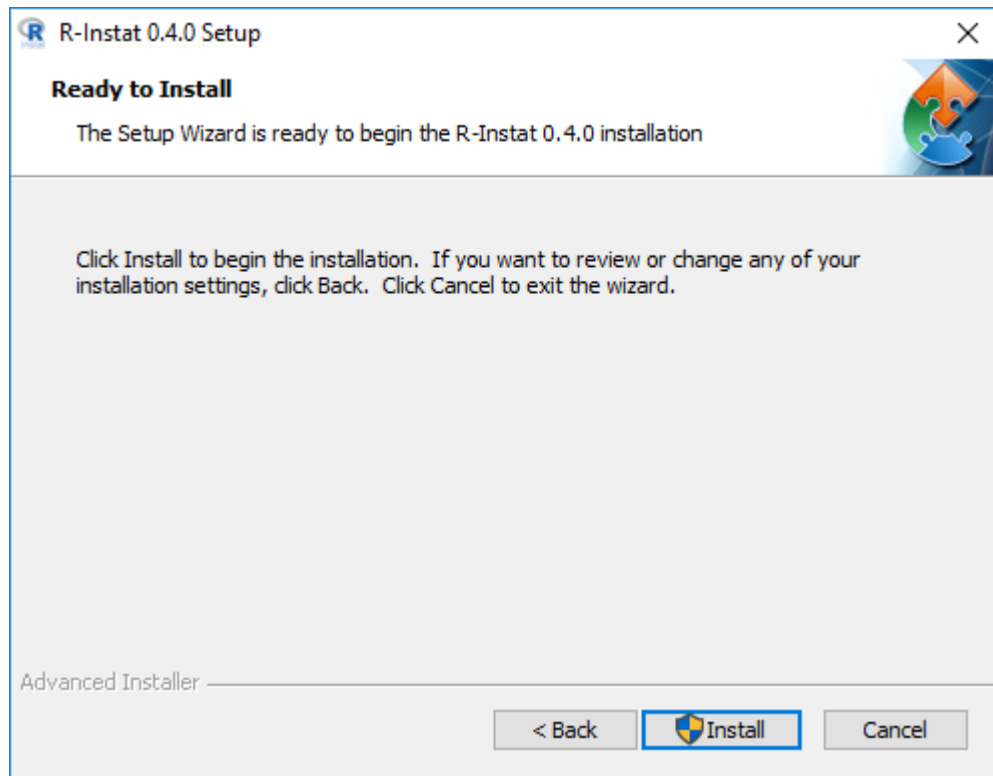
16. The first dialog to be displayed will be a welcome dialog. Click **Next** to proceed.



17. On the Select Installation Folder dialog, we recommend leaving the default path and clicking **Next**.



18. Finally, click **Install** when you reach the Ready to Install dialog shown below. Click **Yes** if a pop up appears to allow the installation to proceed. Click on **Finish** after completion of the installation.



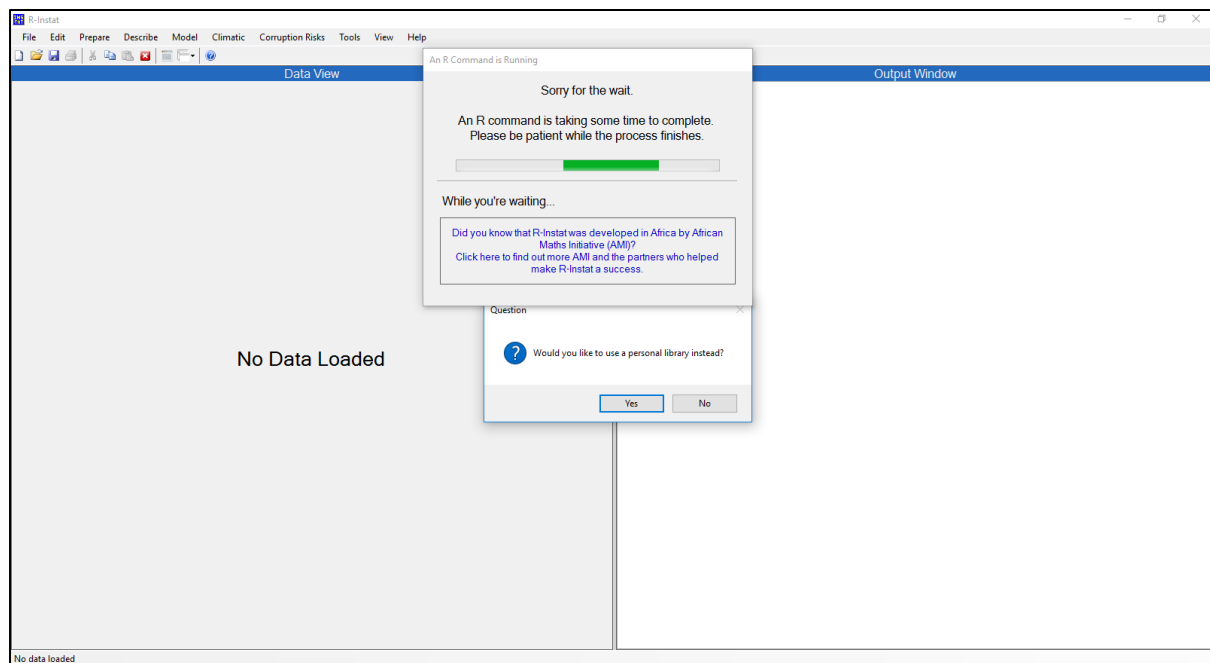
After a successful installation, you should be able to see a new icon on your desktop with the name R-Instat 0.4.0 as well as a folder named R-Instat 0.4.0 from the main menu. There is another document which shows how to get started running R-Instat for the first time!

Running R-Instat for the first time

Once you have installed R-Instat, it is time to open it!

When R-Instat runs for the very first time, if you have not used R before, you may see the message box asking, “*Would you like to use a personal library instead?*”. Click **Yes** for the software to proceed to install the required R packages onto your computer into a folder in your documents.

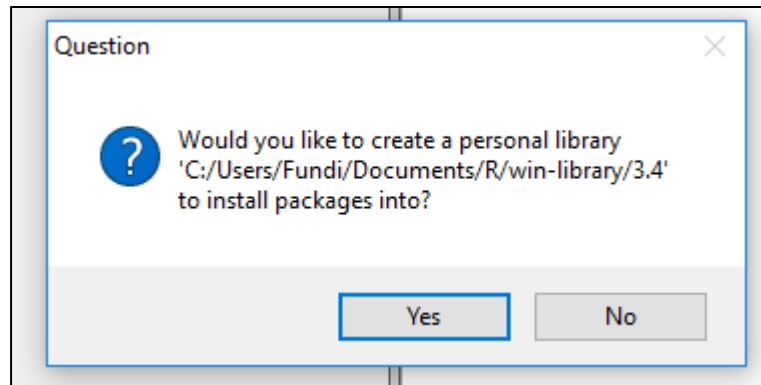
If you do not see this message box (and no errors appear) then you can assume the R packages installed correctly as it is likely you already had the necessary folder structures.



When any command is taking a bit longer to run (in this case installing packages), you will see the “Sorry for the wait” dialog box (below), just to let you know R-Instat is still running and hasn’t frozen. In future, we’d like to include a selection of “Did you know” and “Useful tips” on rotation for this dialog.



After clicking yes, another message box may appear saying: “*Would you like to create a personal library*”. Please click **Yes** again to allow R to install packages to the specified folder.



The very first time you use R-Instat this may take several minutes, as many packages will be installed. Please be patient! After your first use, this will be much faster as packages will already be installed.

Once the waiting dialog has disappeared you are ready to start using R-Instat!