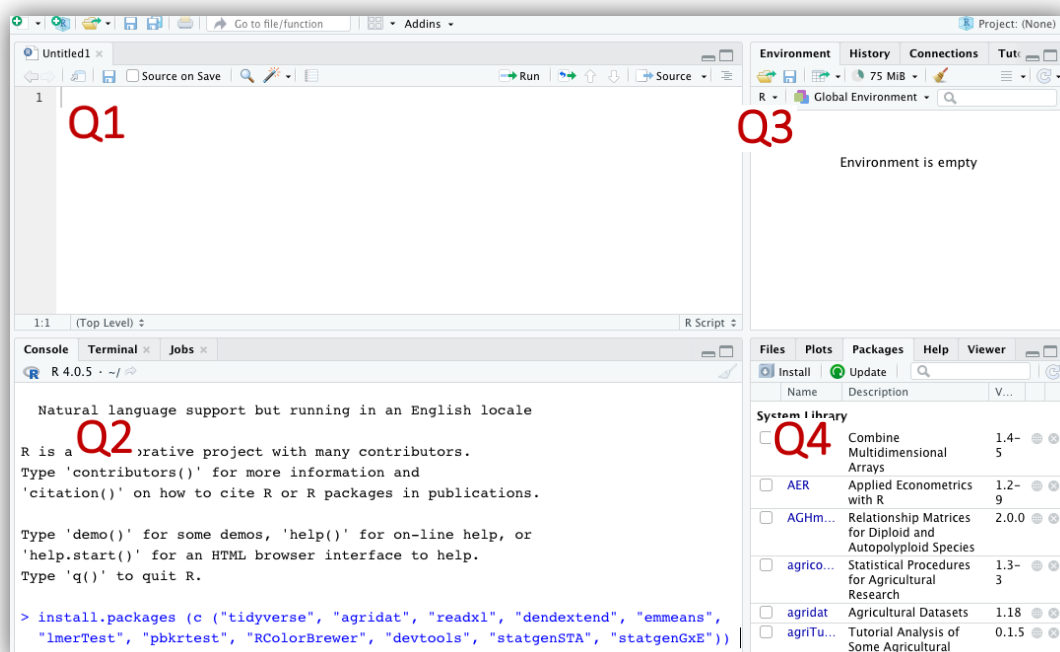
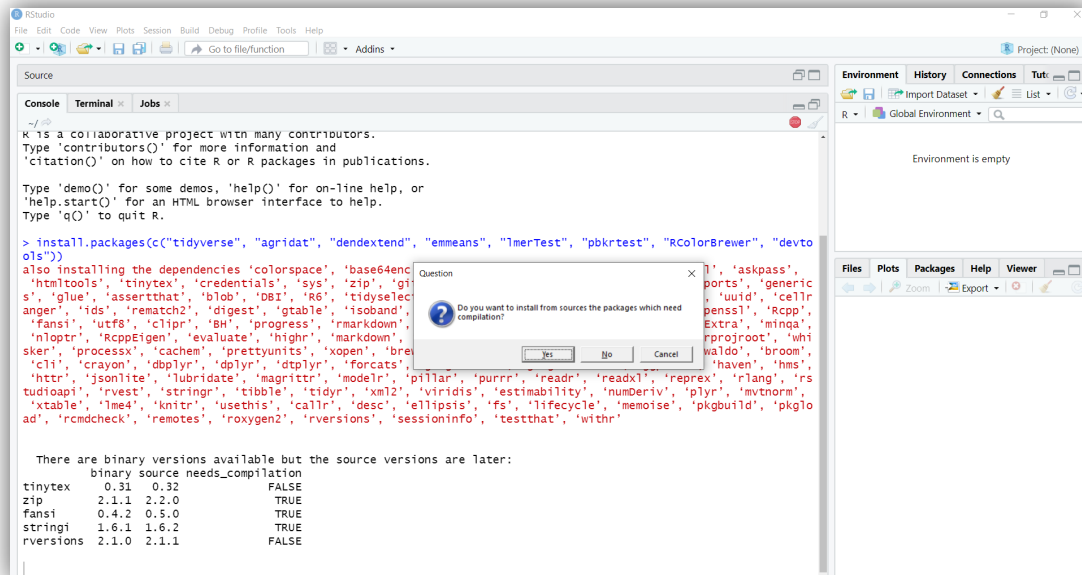


1. Uninstall any version of R earlier than R-4.1.0
2. Install **R**, **RStudio** and **Rtools** as indicated below in points 3, 4 and 5. For each:
  - Click on the version recommended for your system (Windows or Mac)
  - If the installer asks, grant it administrative privileges to install
  - Follow the on-screen instructions and accept default settings
3. Install **R**, version 4.1.0
  - Windows: <https://cran.r-project.org/bin/windows/base/R-4.1.0-win.exe>
  - Mac: <https://cran.r-project.org/bin/macosx/base/R-4.1.0.pkg>
4. Install **RStudio**:
  - Windows: <https://www.rstudio.com/products/rstudio/download/#download>
  - Mac: <https://download1.rstudio.org/desktop/macos/RStudio-1.4.1106.dmg>
5. Install **Rtools**
  - Windows (only): [https://cran.r-project.org/bin/windows/Rtools/rtools40v2-x86\\_64.exe](https://cran.r-project.org/bin/windows/Rtools/rtools40v2-x86_64.exe)
6. Launch **RStudio**
7. Type the command below in the lower left corner (Q2) then press “Enter” key  
**install.packages(c("tidyverse", "agridat", "readxl", "dendextend", "emmeans", "lmerTest", "pbkrtest", "RColorBrewer", "devtools", "statgenSTA", "statgenGxE"))**



Notes: R is case sensitive (type the command exactly as shown above)  
 Use the quotes " instead of putting the apostrophe twice

8. To the prompt *“Please select a CRAN mirror for use in this session”* choose any one from the list that is close to your location
9. In some situations, we may have this question *“Do you want to install from sources the packages which need compilation?”* click on *“Yes”*; If the question does not appear, that’s all fine.



10. Once the installation is complete, type the commands below: copy all the 10 lines below (in blue) and paste them in Q2 then press *“Enter”* key to execute

```

library(tidyverse)
library(agridat)
library(dendextend)
library(emmeans)
library(lmerTest)
library(pbkrtest)
library(RColorBrewer)
library(devtools)
library(statgenSTA)
library(statgenGxE)
  
```

Everything is fine in Q2 if there is no *“error”* message

11. Enter the commands below in Q2 then press *“Enter”* to execute

```

library(devtools)
install_github("vqv/ggbiplot")
  
```