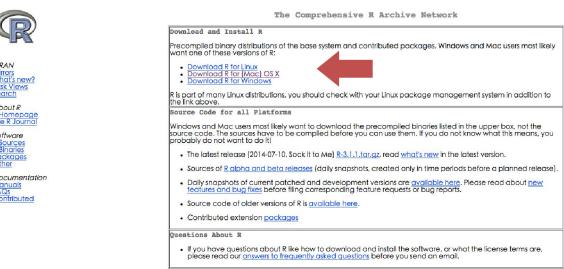
R Installation and GUI Setup

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September 15, 2014

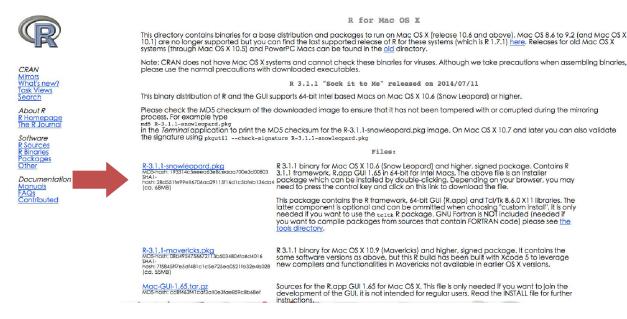
1. Installation

1. Go to http://cran.csie.ntu.edu.tw. ² Click "Download R for (Mac) OS X."



What are R and CRAN

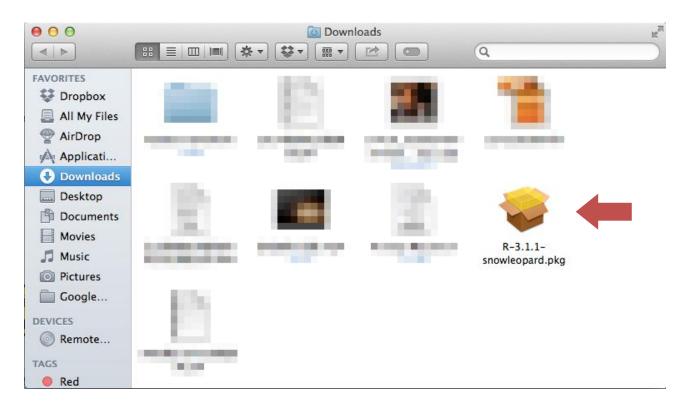
2. Click "R-3.1.1-snowleopard.pkg", start download

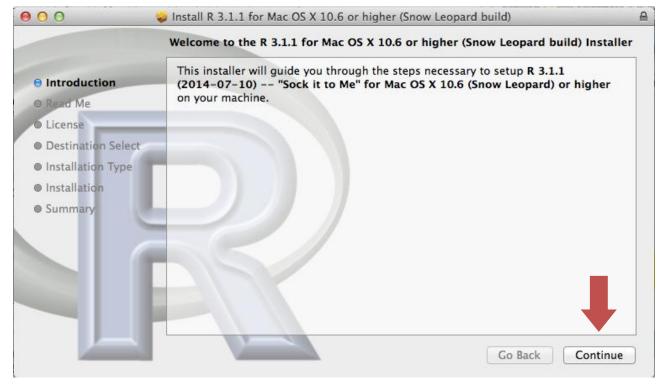


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² This is the closest mirror site when you are in National Taiwan University. Go to http://cran.r-project.org/mirrors.html for other mirror sites.

3. Double click the file you just downloaded. Then click "Next" until the process finishes.





4. Click the shortcut at the Launchpad to run the R GUI.³





R is free software and comes with ABSOLUTELY NO WARRANTY. You are welcome to redistribute it under certain conditions. Type 'license()' or 'licence()' for distribution details.

Natural language support but running in an English locale

R is a collaborative project with many contributors.

Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or 'help.start()' for an HTML browser interface to help.

Type 'q()' to quit R.

During startup - Warning messages:
1: Setting LC_CTYPE failed, using "C"
2: Setting LC_COLLATE failed, using "C"
3: Setting LC_TIME failed, using "C"
4: Setting LC_MESSAGES failed, using "C"
5: Setting LC_MONETARY failed, using "C"
[R.app GUI 1.65 (6784) x86_64-apple-darwin10.8.0]

WARNING: You're using a non-UTF8 locale, therefore only ASCII characters will work.

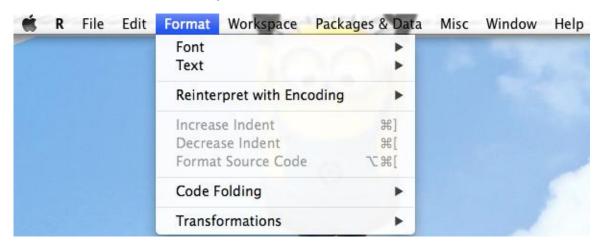
Please read R for Mac OS X FAQ (see Help) section 9 and adjust your system preferences accordingly.

[History restored from /Users/tammy/.Rapp.history]

³ GUI is the abbreviation of Graphical User Interface.

2. GUI Setup

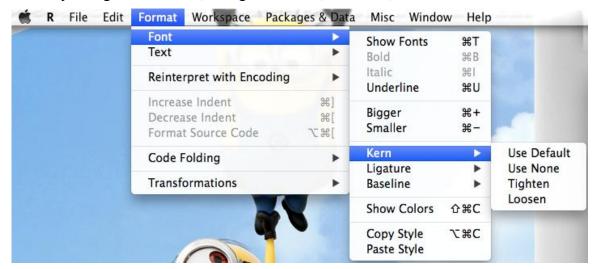
- 1. You may change your editor environment (or simply use the default setting):
 - a. Click "Format" and then "Font", "Text"

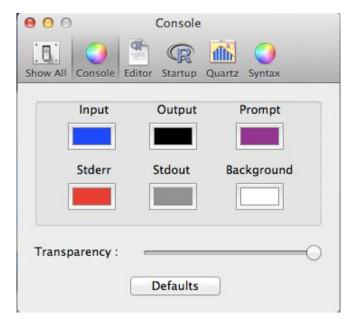


Or click "R" and then "Preferences..."

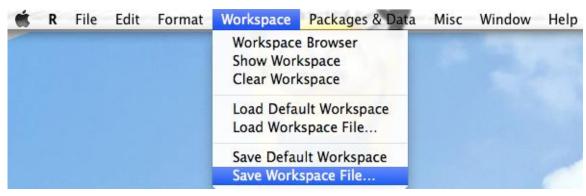


b. You may change the font size, background color, text color, etc.



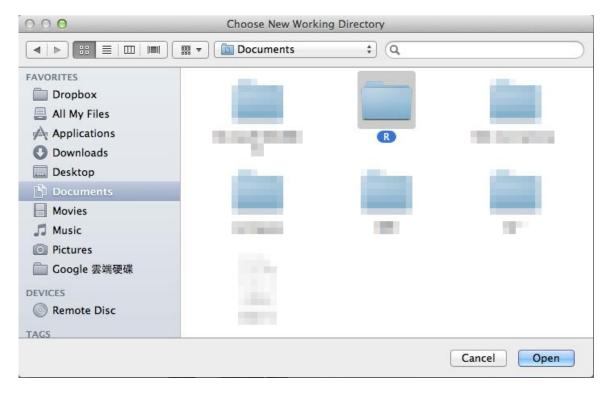


c. Save your console setting file so that in the future you may load it.



- 2. Always set up your "work directory" before you start to work:
 - a. The first way is to click "Misc" and then "Change Working Directory...". Then browse to select the directory (folder) that you prefer to be the default location for saving and loading files.





b. The second way is to type **setwd("C:/Users/user/Documents/R")**, where the path specified inside the double quotation marks should be replaced by the path you prefer.⁴

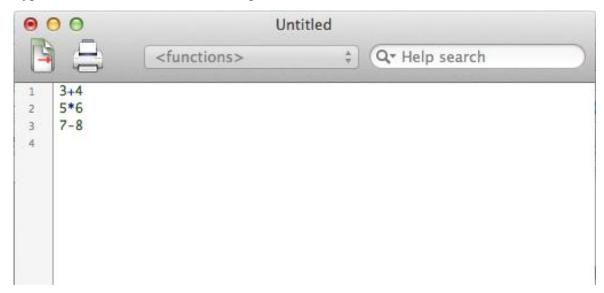
```
> setwd("/Users/tammy/Documents/R")
> |
```

- c. To make sure that it works, type **getwd()** to see the current work directory.
 - > getwd()
 [1] "/Users/tammy/Documents/R"
- 3. You may create a new script file to store your R statements:
 - a. Click "File" and then "New Document"

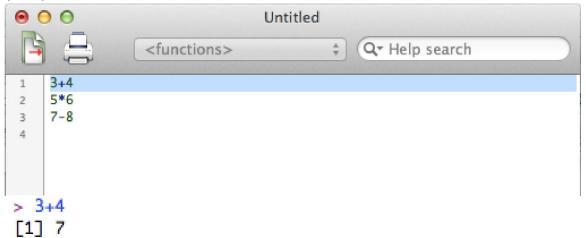


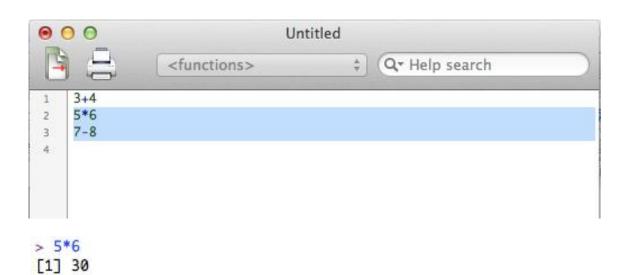
⁴ For specifying the work directory, one may alternatively use backslashes (\). However, as we will explain in the future, to express a backslash in an R string, one needs to write TWO consecutive backslashes (\)). For example, one may type setwd("C:\Users\user\\Documents\\R") for the same effect.

b. Type several statements, one in a single line.



c. Select those statements that you want to execute and then press "Command + return (enter)" to execute them at once in order.



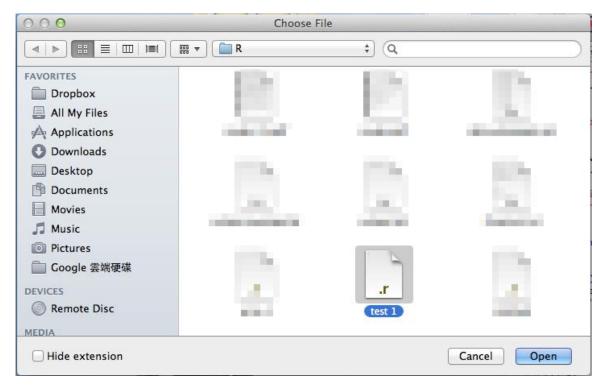


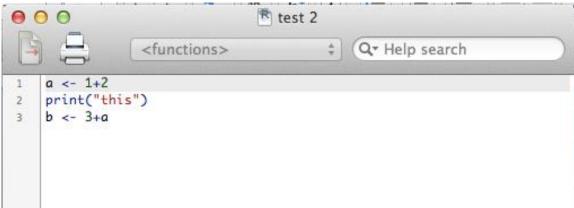
> 7-8 [1] -1 d. Save it for future use: Click "File" and then "Save as...". Give the script file a name.



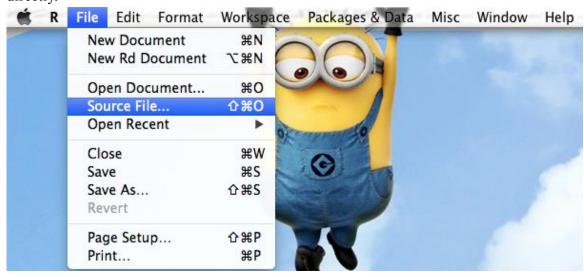
- 4. You may reload your previously saved script file:
 - a. Click "File" and then "Open Document..." or the directory icon. Browse to select a file.

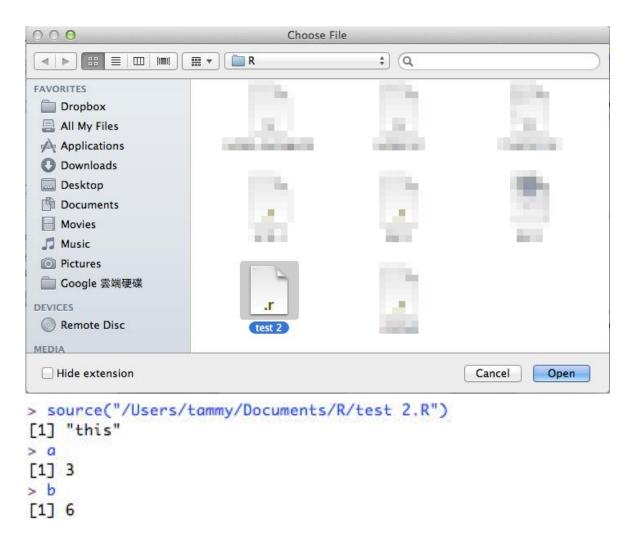






b. If you choose "Source R code...", those R statements in the script file will be executed directly.





3. More advanced settings

For more information, check http://cran.r-project.org/bin/windows/base/rw-FAQ.html or many other online documents.