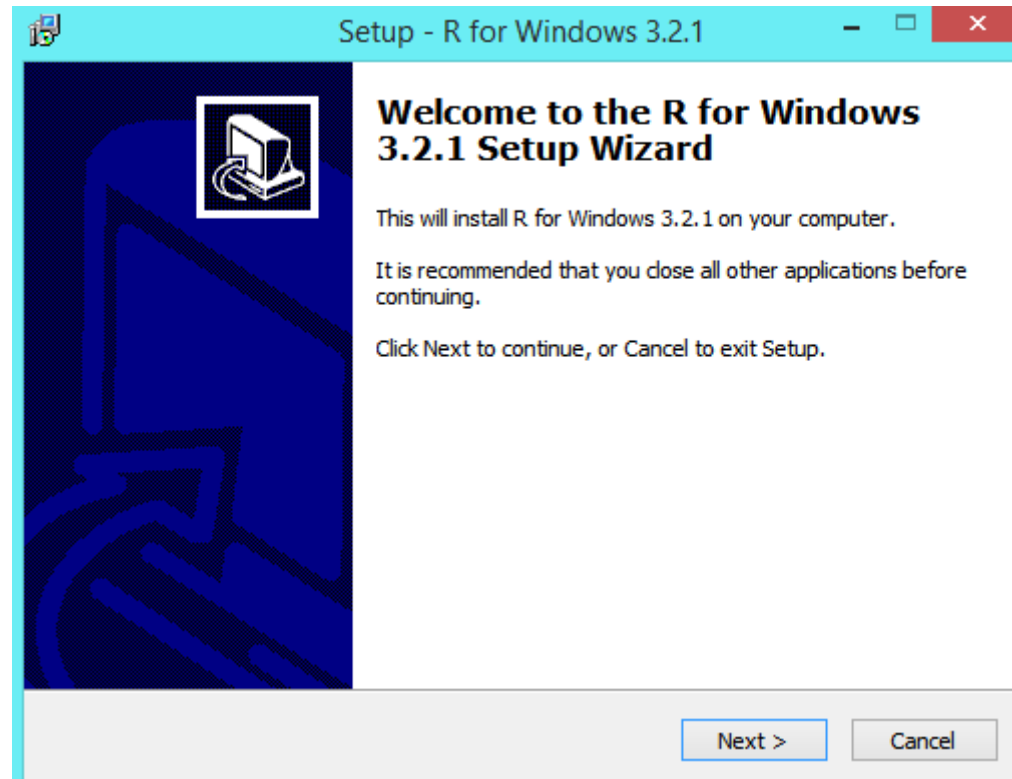
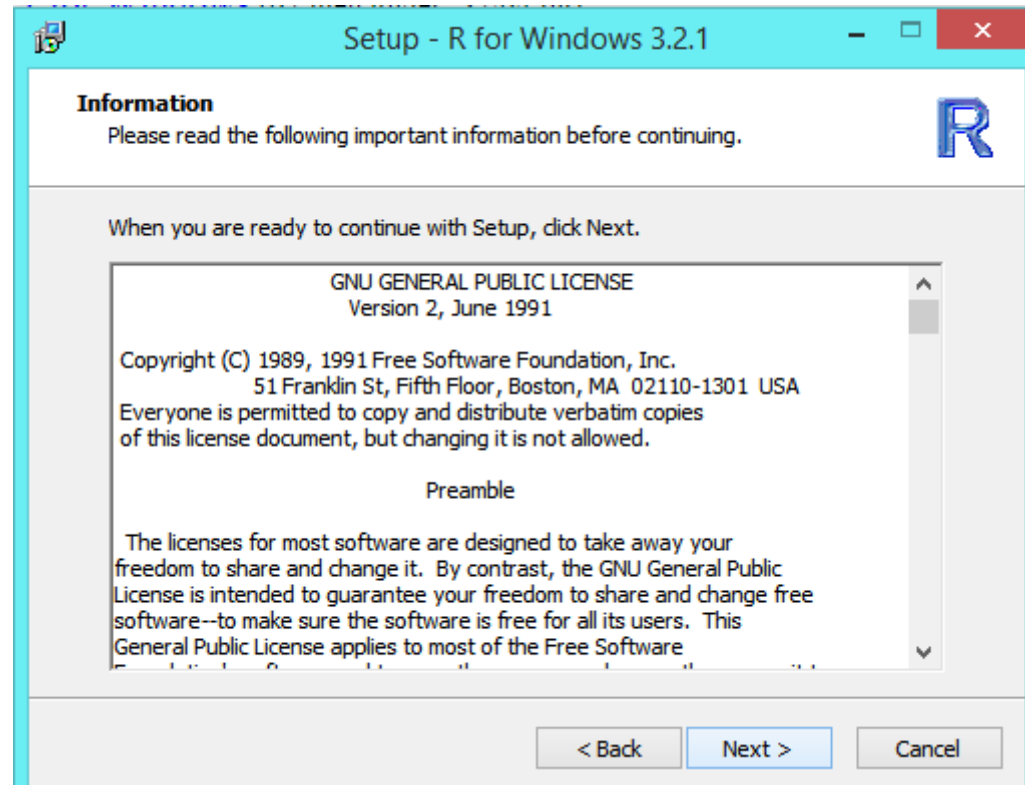
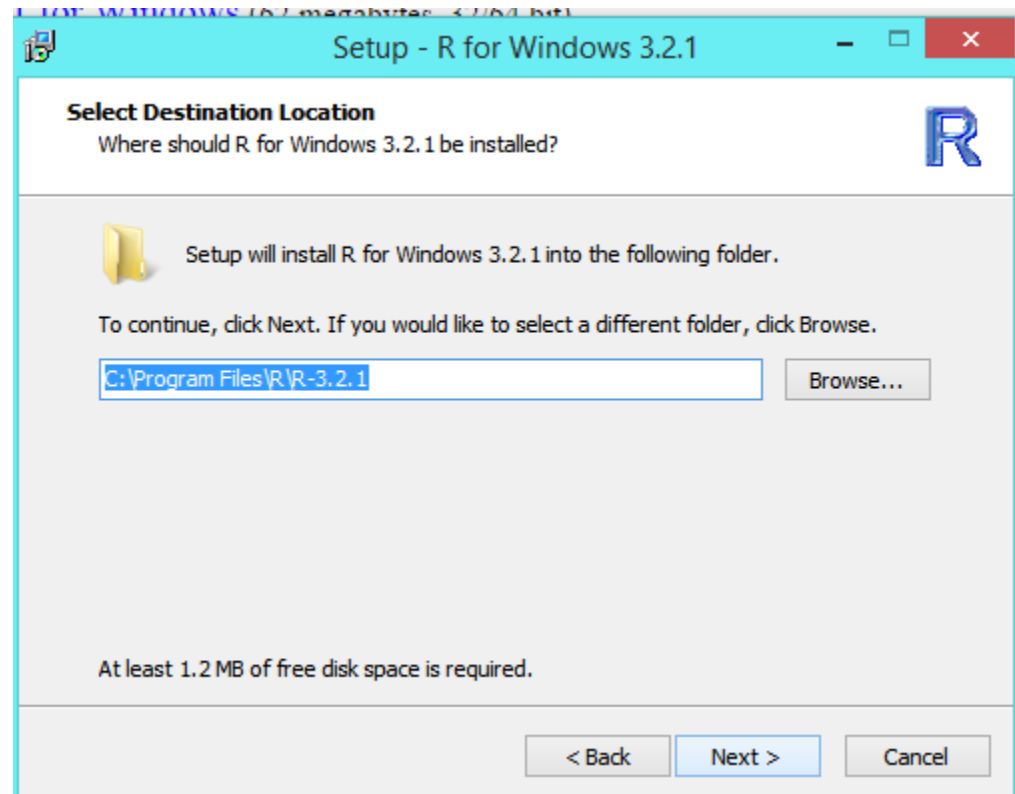


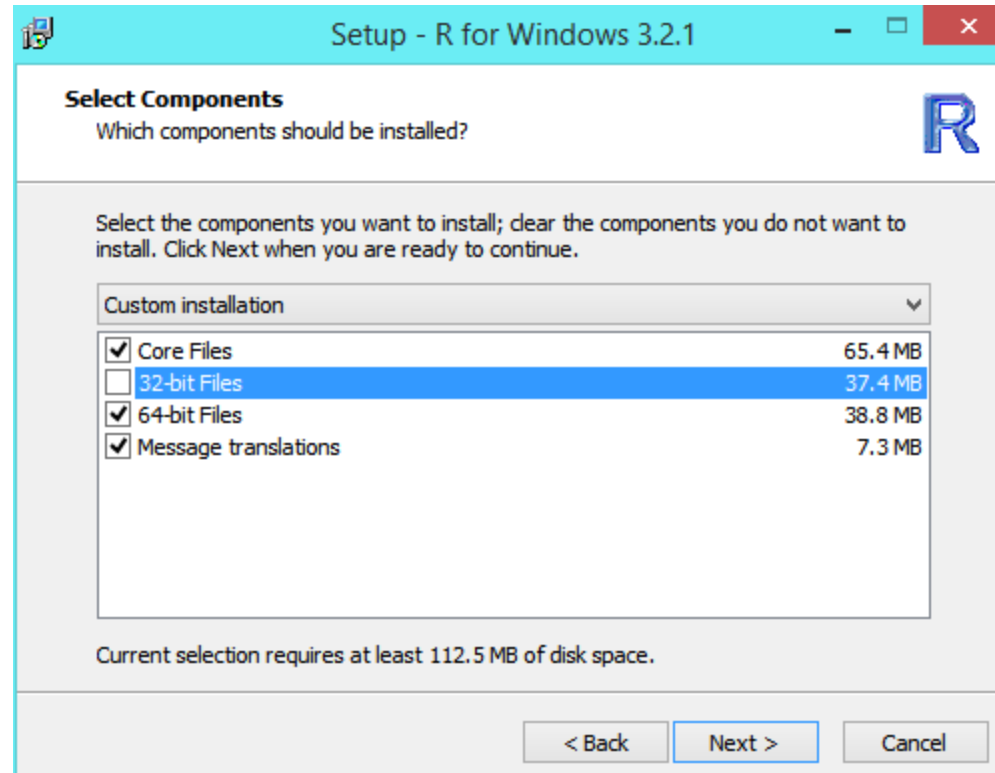
Step by Step Installation of R and related components for use in Tableau

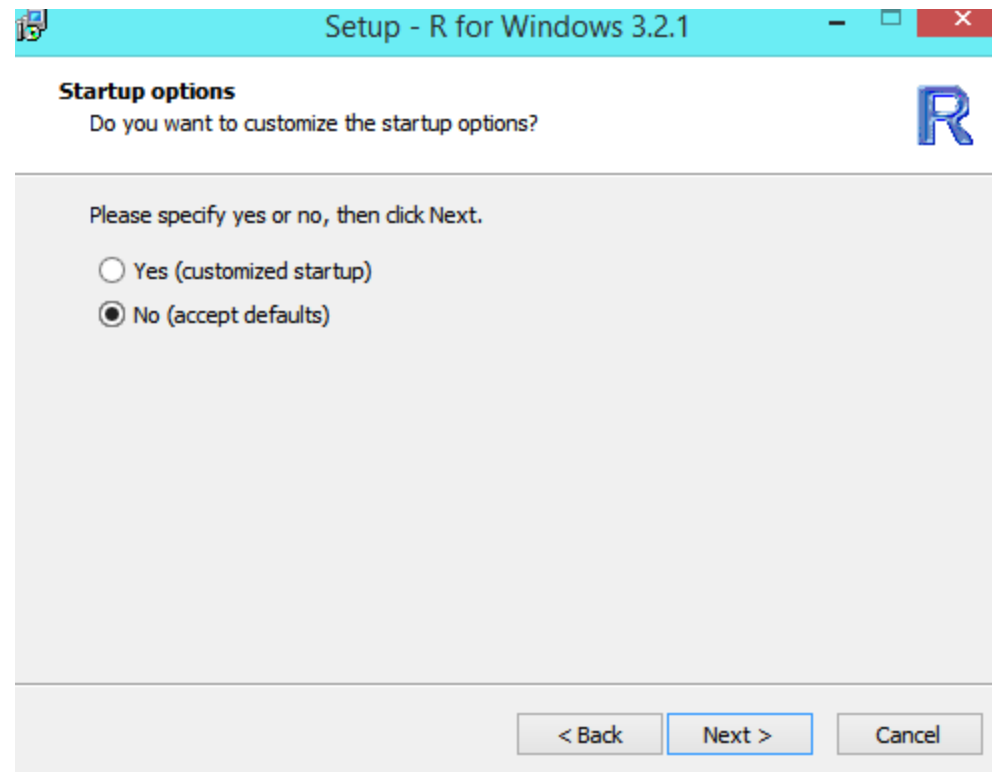
Note: If you have already installed R, proceed to slide number 11

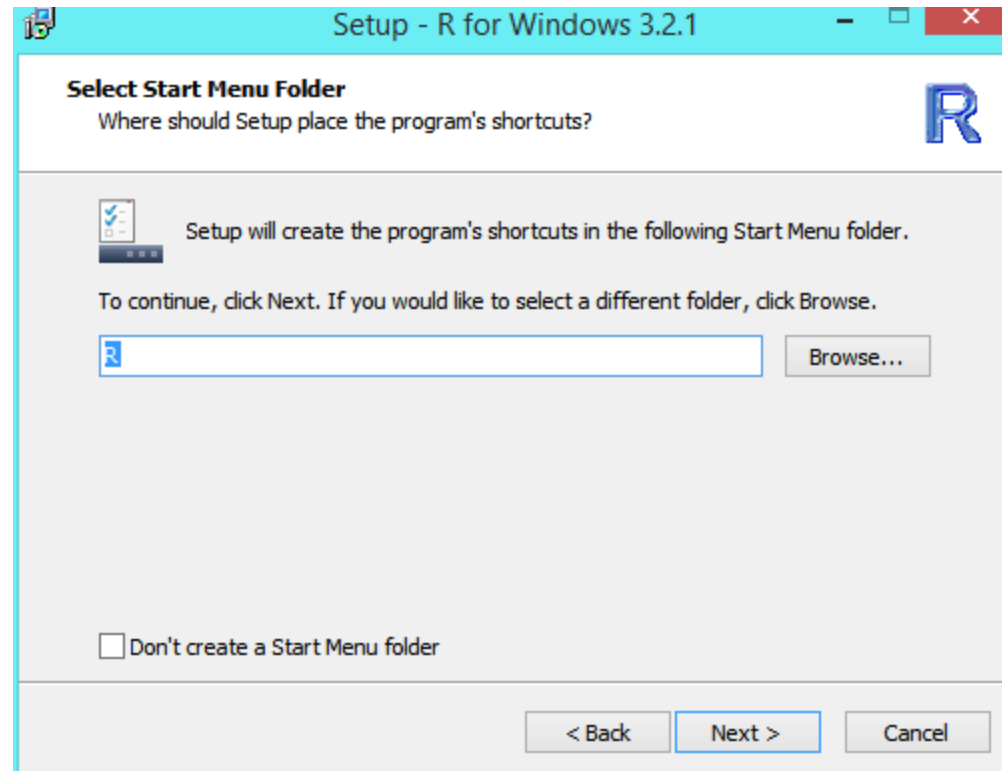


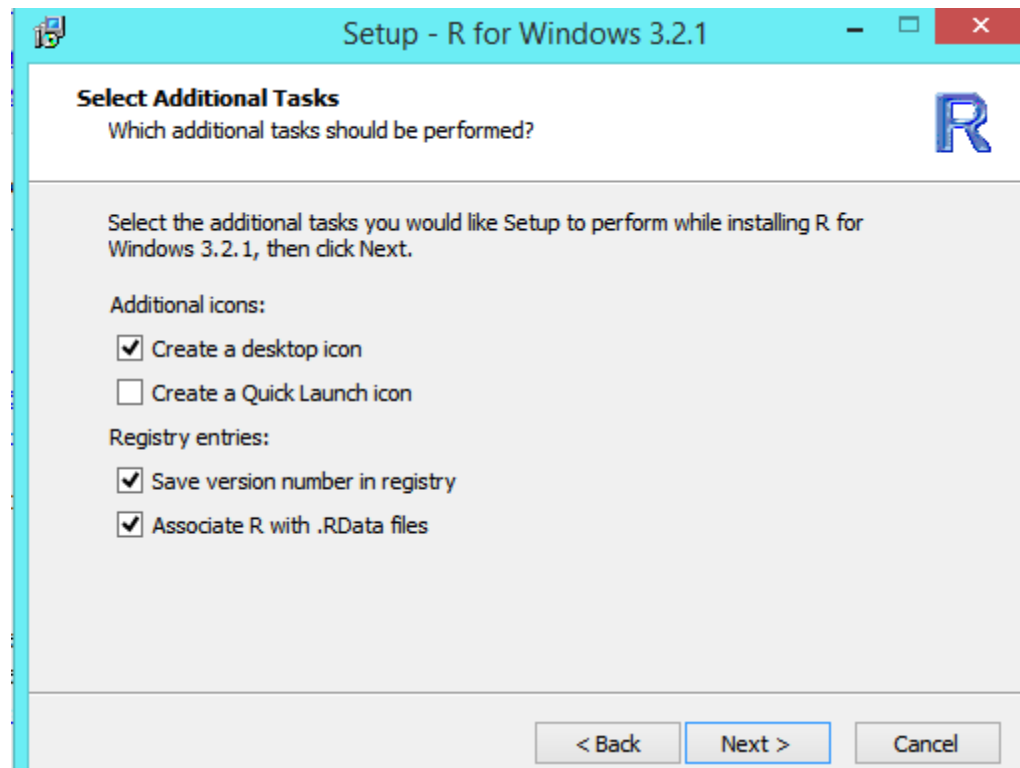


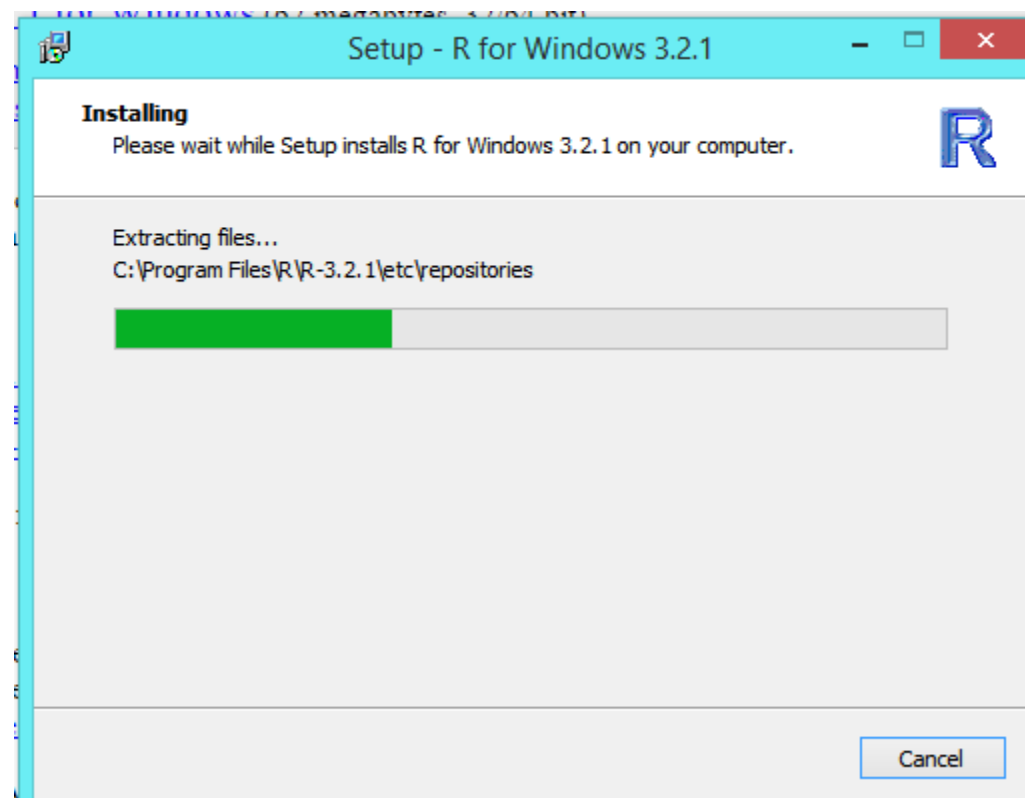


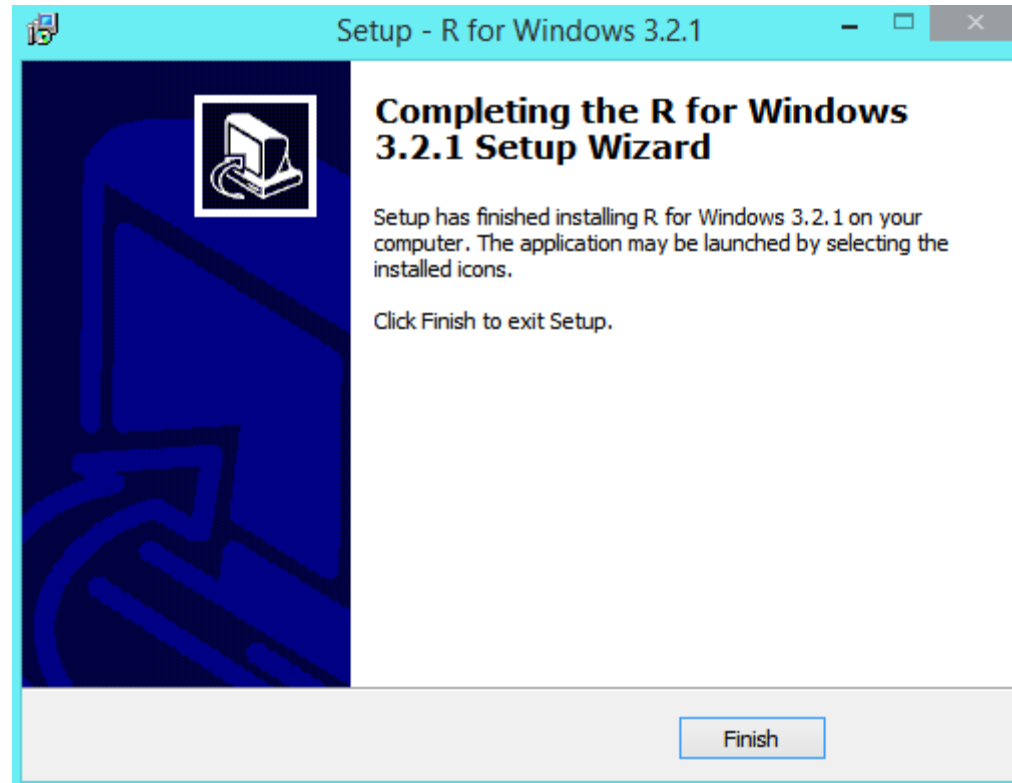


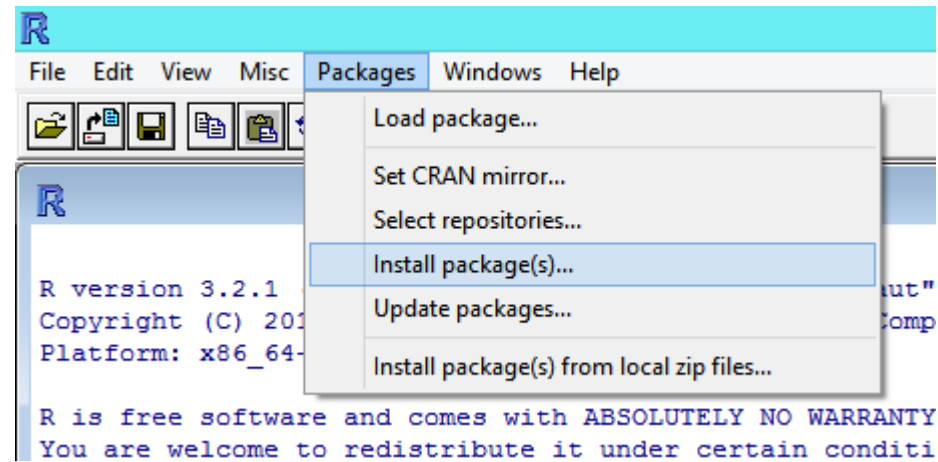
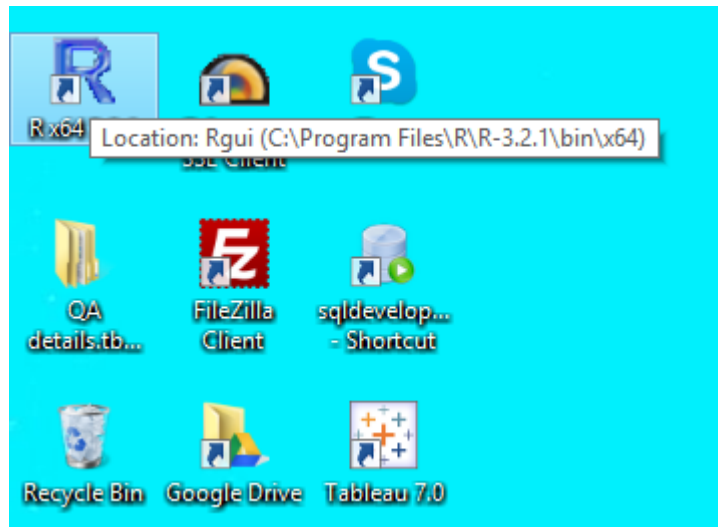


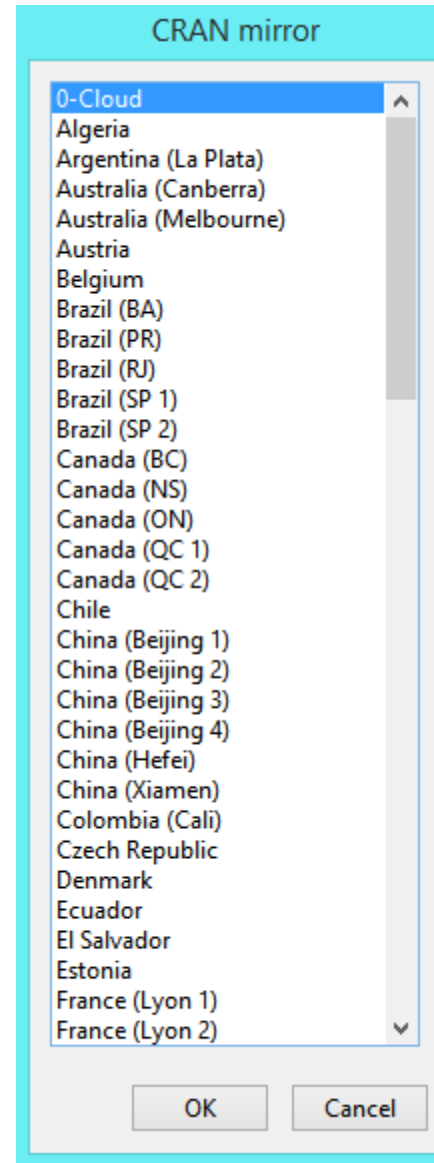


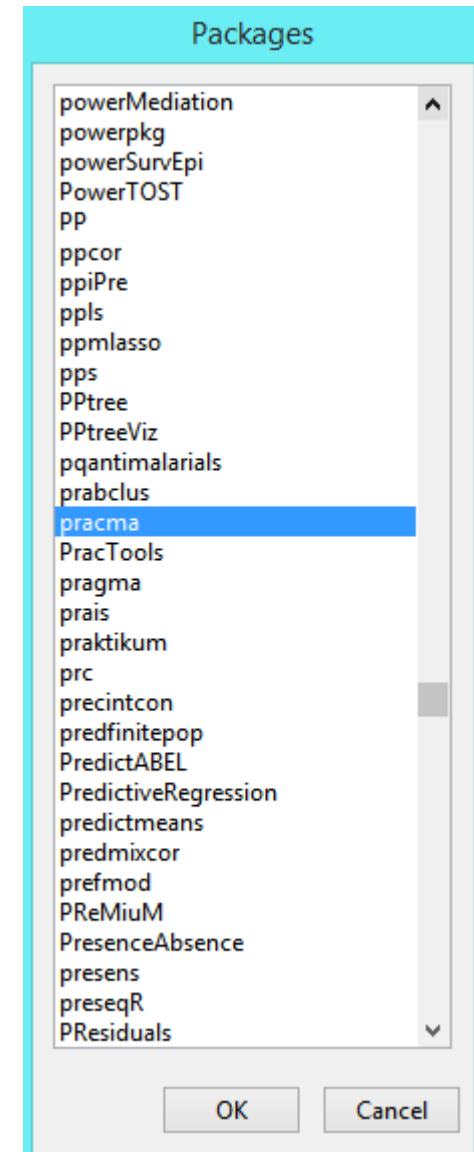
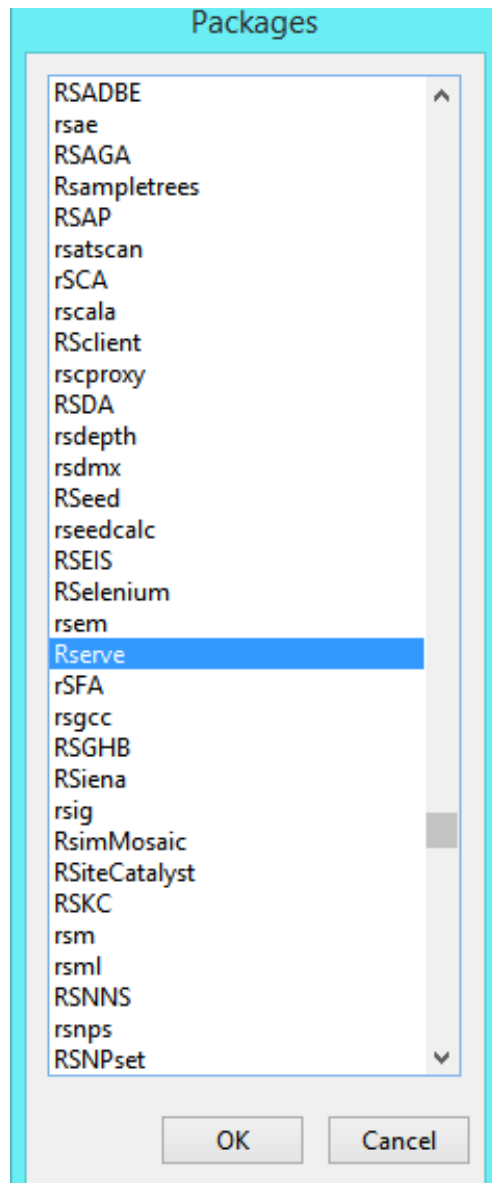


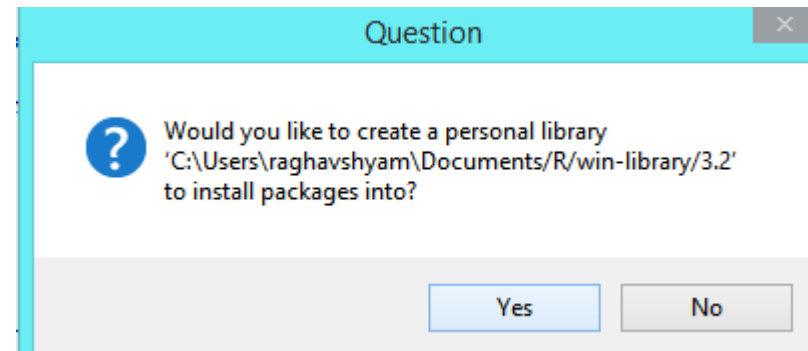
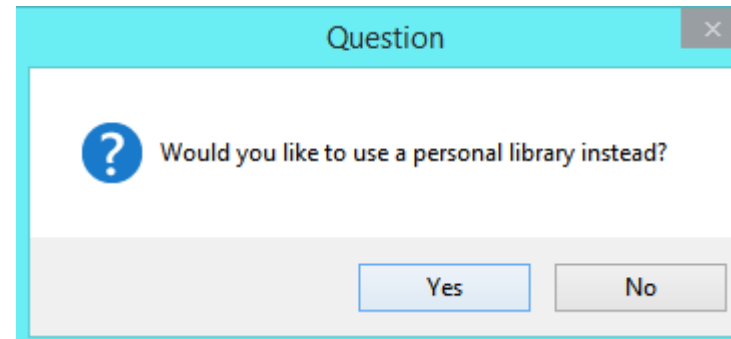












R Console

```
also installing the dependencies 'NLP', 'slam'
```

```
trying URL 'http://cran.rstudio.com/bin/windows/contrib/3.2/NLP_0.1-7.zip'  
Content type 'application/zip' length 276518 bytes (270 KB)  
downloaded 270 KB
```

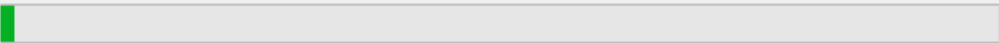
```
trying URL 'http://cran.rstudio.com/bin/windows/contrib/3.2/slam_0.1-32.zip'  
Content type 'application/zip' length 111218 bytes (108 KB)  
downloaded 108 KB
```

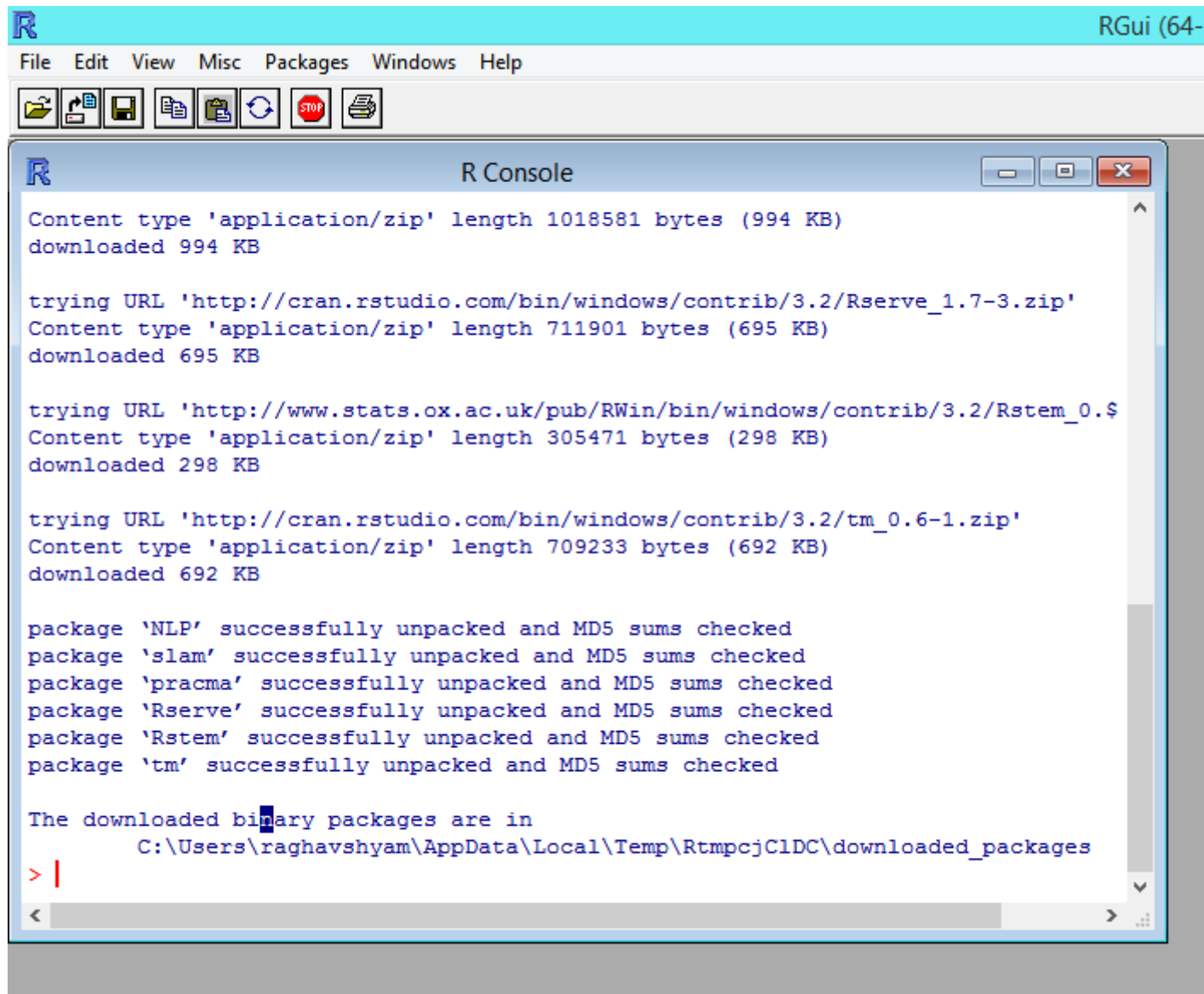
```
trying URL 'http://cran.rstudio.com/bin/windows/contrib/3.2/pracma_1.8.3.zip'  
Content type 'application/zip' length 1018581 bytes (994 KB)  
downloaded 994 KB
```

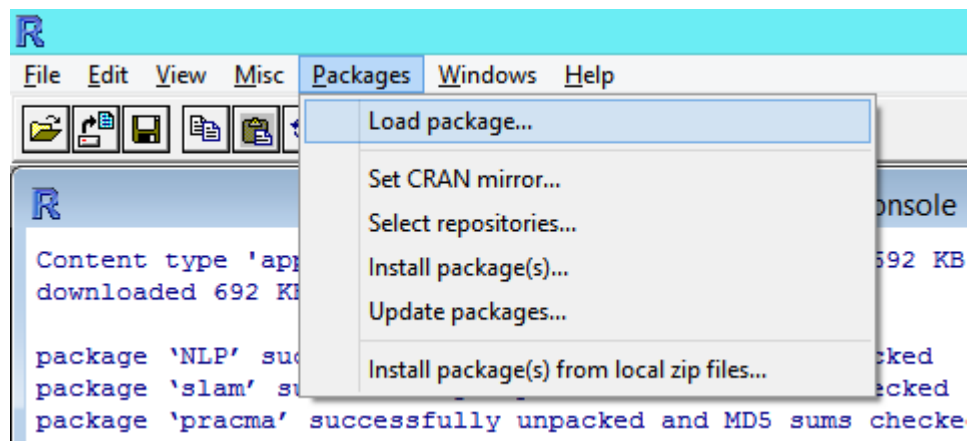
```
trying URL 'http://cran.rstudio.com/bin/windows/contrib/3.2/tm_0.6-1.zip'  
Content type 'application/zip' length 709233 bytes (692 KB)
```

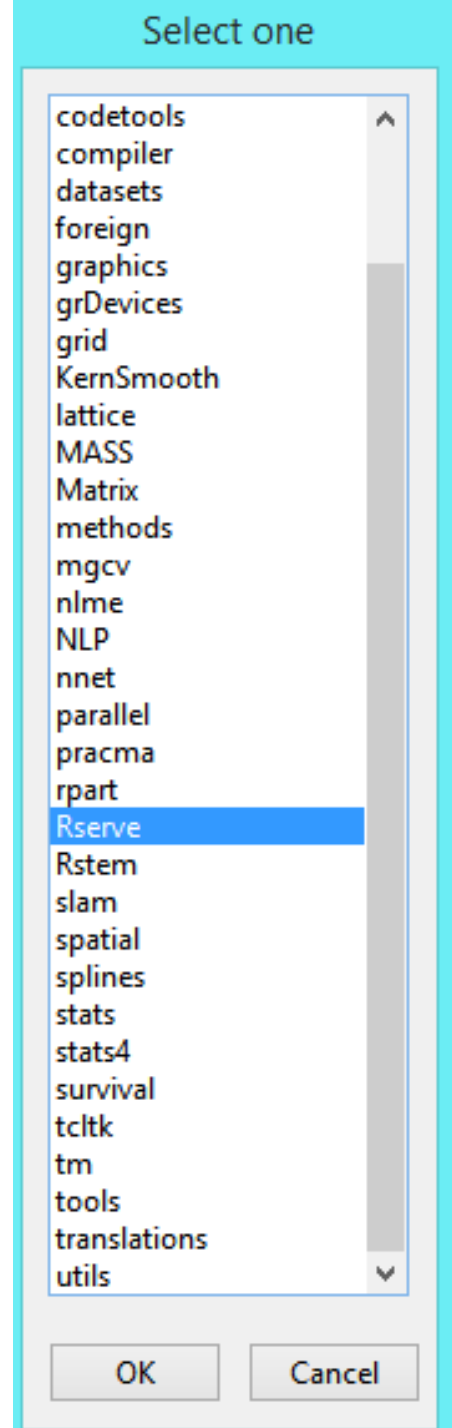
8% downloaded

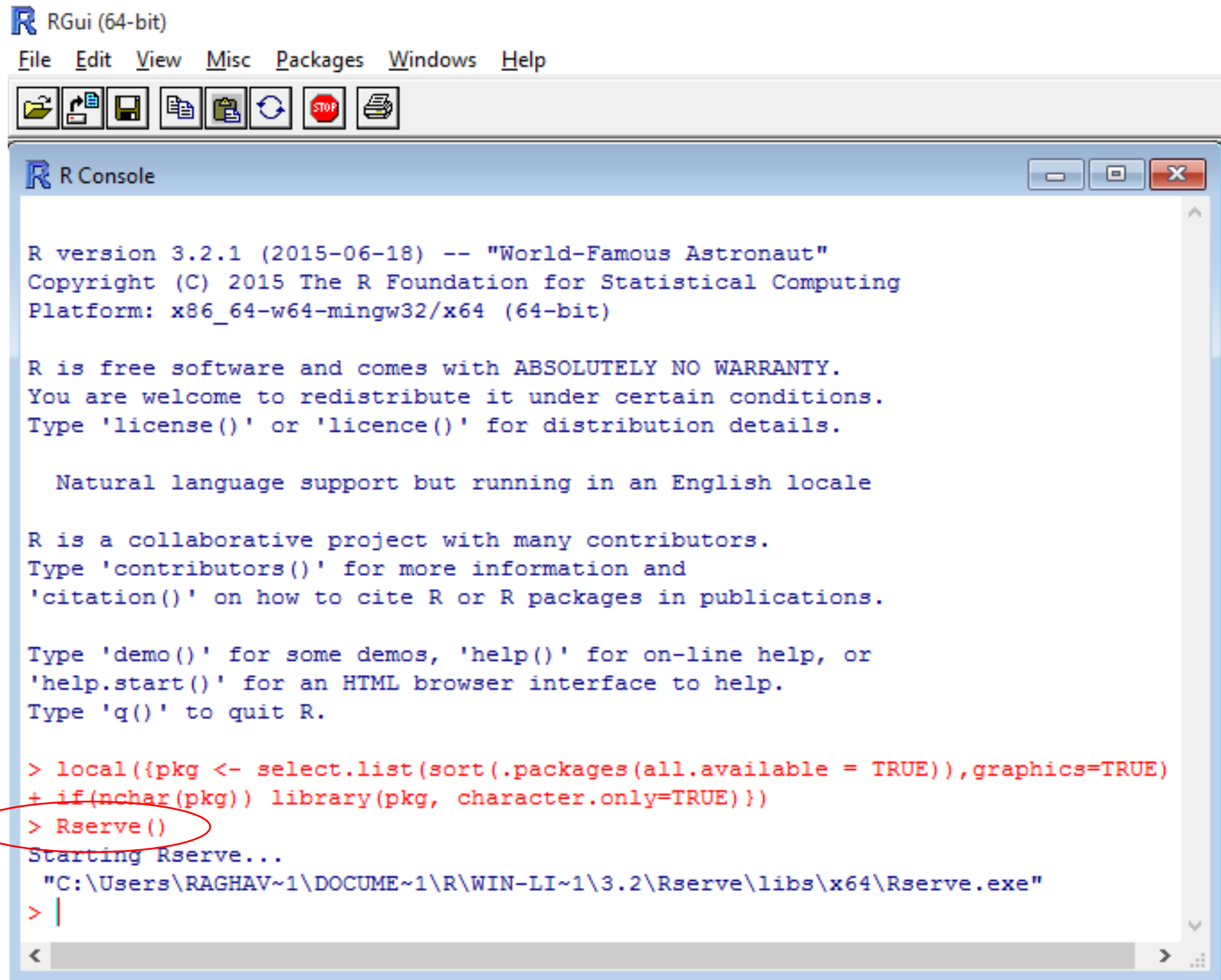
URL: http://cran.rstudio.com/bin/windows/contrib/3.2/tm_0.6-1.zip











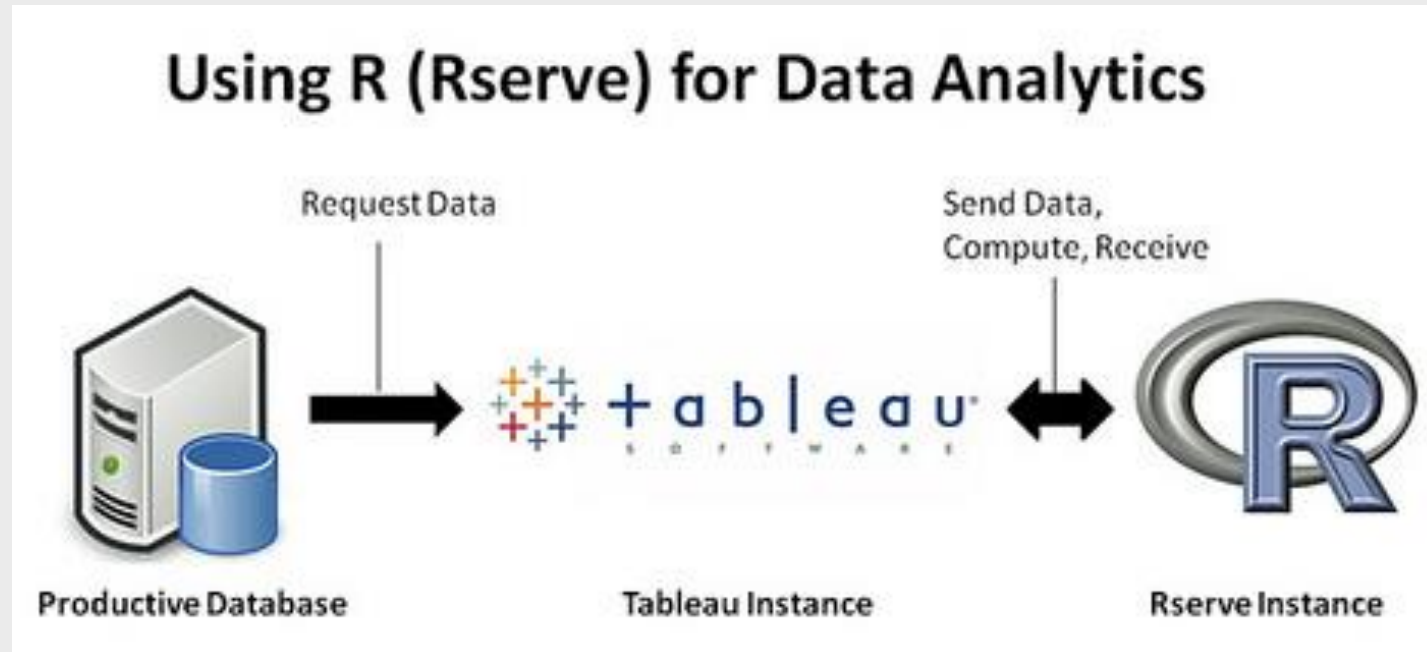
For some users, an error message like below might pop up

Fatal error: you must specify '--save', '--no-save' or '--vanilla'

In case of above error, type below command onto the R Console:

```
> Rserve(args="--no-save")
```

Tableau and R



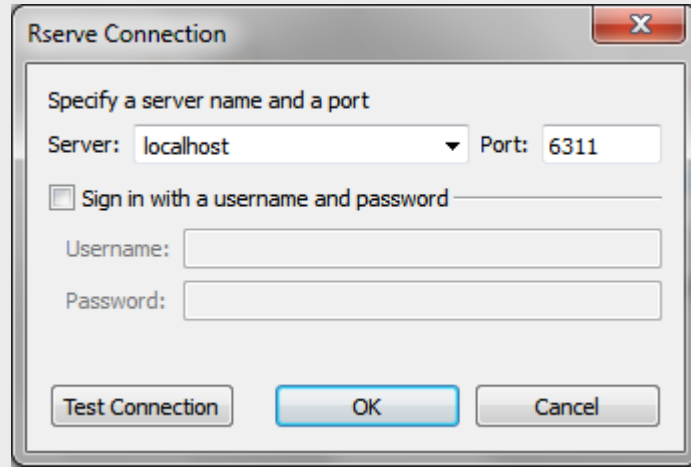
- So how does the integration work? It starts with an R package called Rserve which is a TCP/IP server that allows other programs to use facilities of R. The stated typical use is "to integrate R backend for computation of statistical models, plots etc. in other applications". The nice thing about using Rserve is that once you start the service, you don't need to have R running at all, if you are on a Windows machine. If you want to reduce memory usage, you would start R, load the Rserve library and start the Rserve service in the R environment.

How is Tableau integrating with R?

- R functions and models can now be used in Tableau by creating new calculated fields that dynamically invoke the R engine and pass values to R. The results are then returned back to Tableau for use by the Tableau visualization engine.
- Then establish a connection to Rserve from Tableau. This is done in Tableau via the top menu Help -> Settings and Performance -> Manage R connections.



How is Tableau integrating with R?

The image shows a 'Rserve Connection' dialog box. It has a title bar with a close button (X). The main area contains the text 'Specify a server name and a port'. Below this, there is a 'Server:' label followed by a drop-down menu showing 'localhost' and a 'Port:' label followed by a text box containing '6311'. There is a checkbox labeled 'Sign in with a username and password'. Below the checkbox are two text boxes: 'Username:' and 'Password:'. At the bottom, there are three buttons: 'Test Connection', 'OK', and 'Cancel'.

- Enter or select a server name using a domain or an IP address. The drop-down list includes localhost and the server you most recently connected to.
- Specify a port. Port 6311 is the default port for Rserve servers.
- If the server requires credentials, specify a Username and Password.
- Click Test Connection.
- Click OK.

If no connection can be established, an error message is displayed. Click Show Details in the message to see any diagnostic information returned by the server.