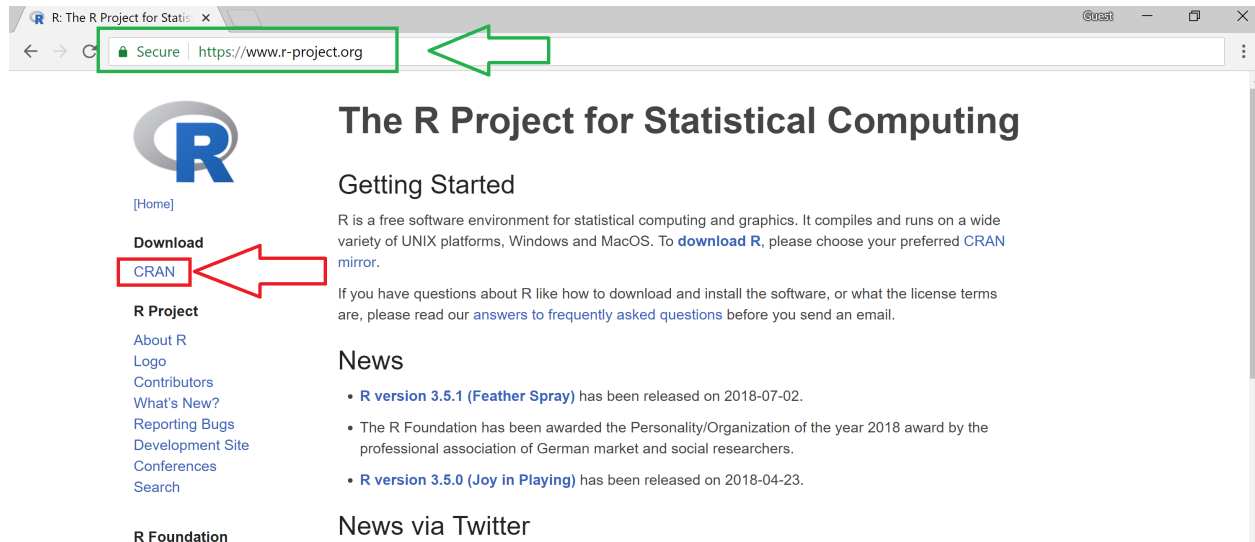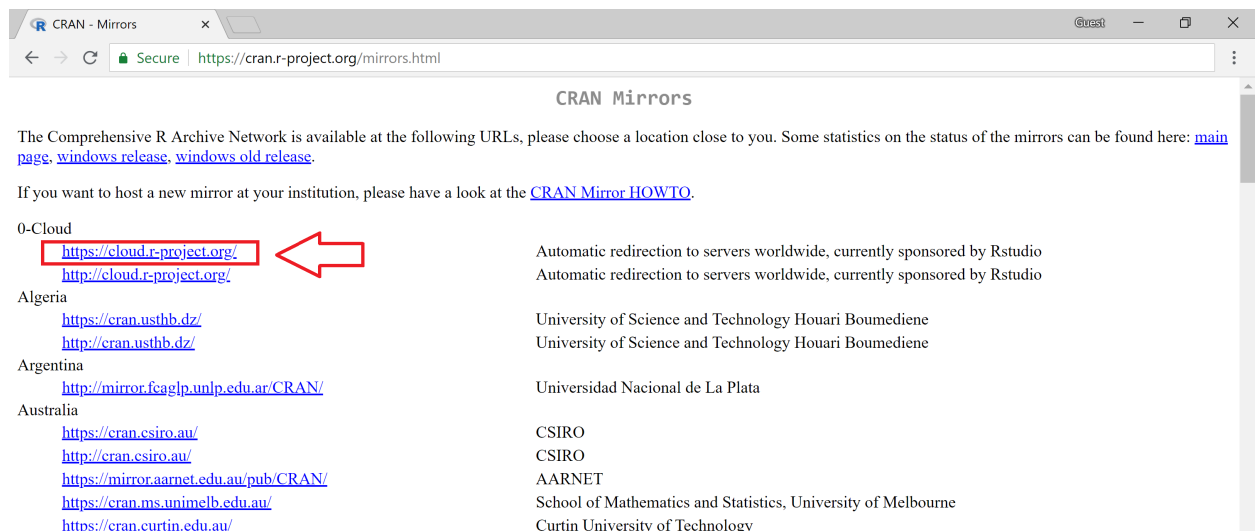# 1 Install R

R does have a static url address. There is no direct link to the download file. Please follow the steps below:

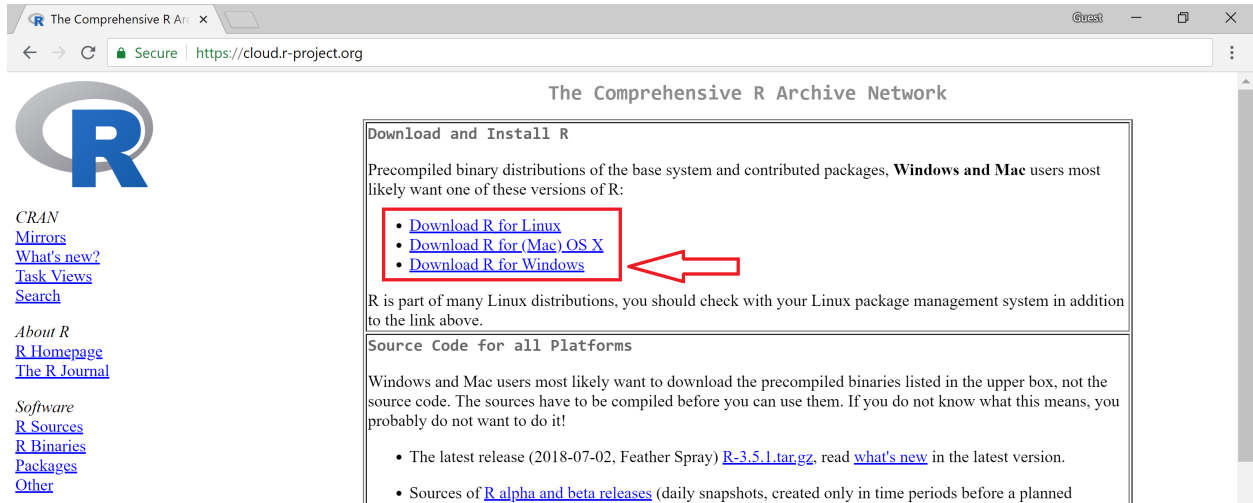1) Visit the main website of the R software here: `http://r-project.org`.

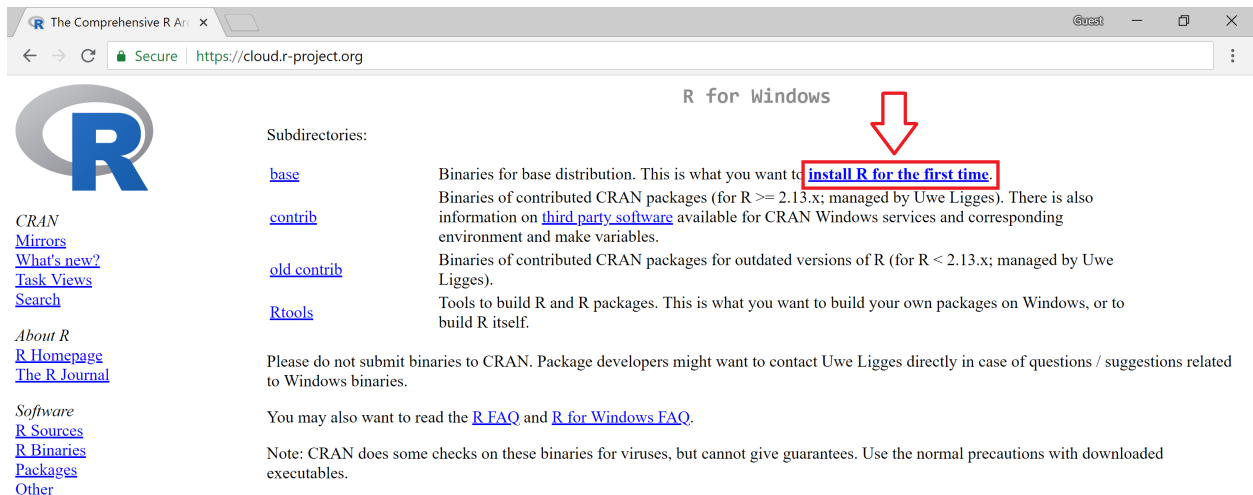2) Click on CRAN link. CRAN is the network of servers which host R and R libraries.

3) CRAN network is scattered around the world. All have identical content (there is no Czech or Chinese version of R). Selection of server influences download speed. The first option `0-Cloud` finds the most convenient option for you automatically.

4) Choose an appropriate R according to the platform you use.

The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

- Download R for Linux
- Download R for (Mac) OS X
- Download R for Windows

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

- The latest release (2018-07-02, Feather Spray) R-3.5.1.tar.gz, read what's new in the latest version.
- Sources of R alpha and beta releases (daily snapshots, created only in time periods before a planned

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5) Click on the `install R for the first time`.

R for Windows

Subdirectories:

base
Binaries for base distribution. This is what you want to install R for the first time.

contrib
Binaries of contributed CRAN packages (for R >= 2.13.x; managed by Uwe Ligges). There is also information on third party software available for CRAN Windows services and corresponding environment and make variables.

old contrib
Binaries of contributed CRAN packages for outdated versions of R (for R < 2.13.x; managed by Uwe Ligges).

Rtools
Tools to build R and R packages. This is what you want to build your own packages on Windows, or to build R itself.

Please do not submit binaries to CRAN. Package developers might want to contact Uwe Ligges directly in case of questions / suggestions related to Windows binaries.

You may also want to read the R FAQ and R for Windows FAQ.

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded executables.

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6) By clicking on `Download R 3.5.1 for Windows` you initialize download.

7) Install R by running the R-3.5.1-win.exe file. Do not change anything (except of install folder, if you want to) during the installation. Just click on OK and Next.
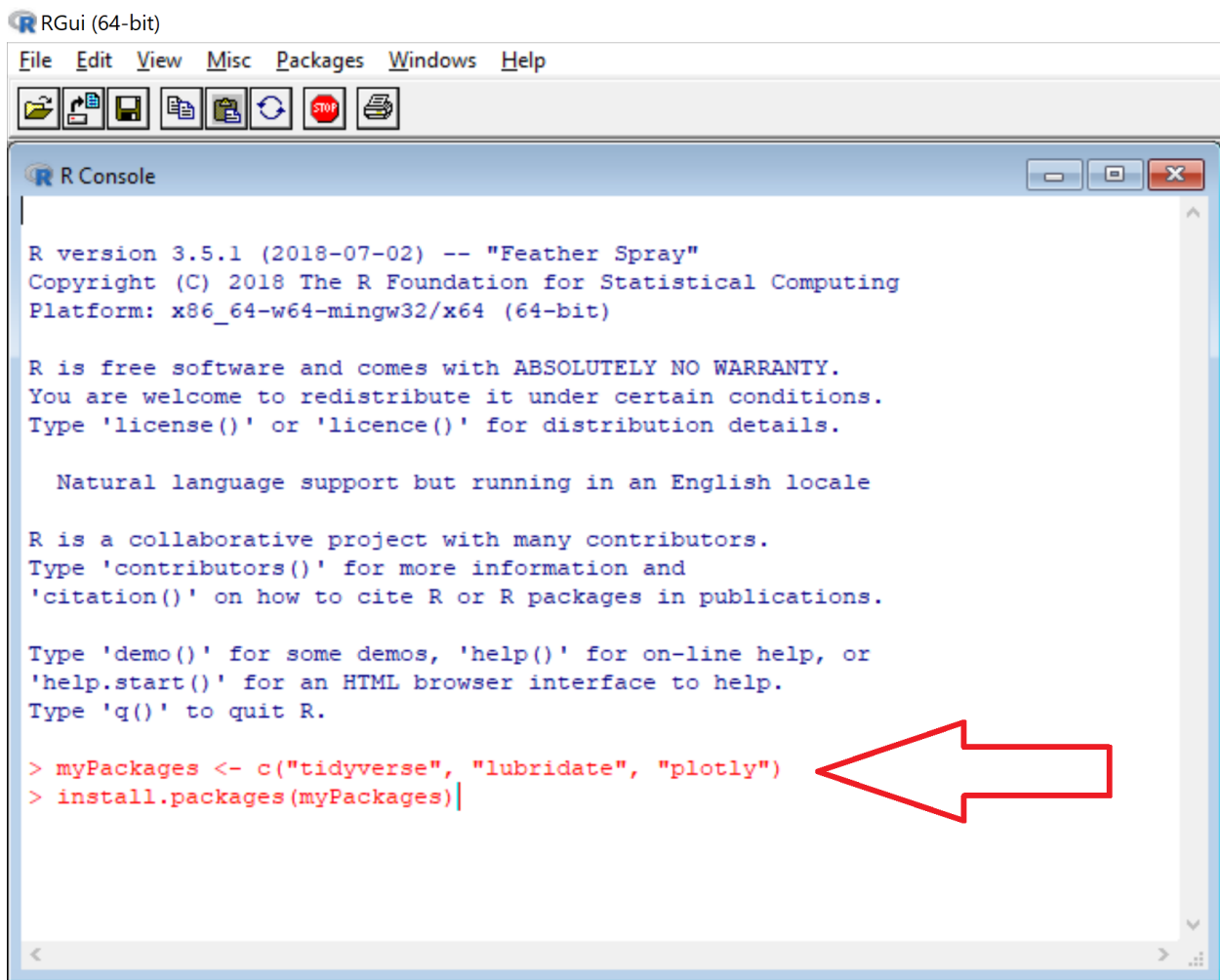
2 Configure R

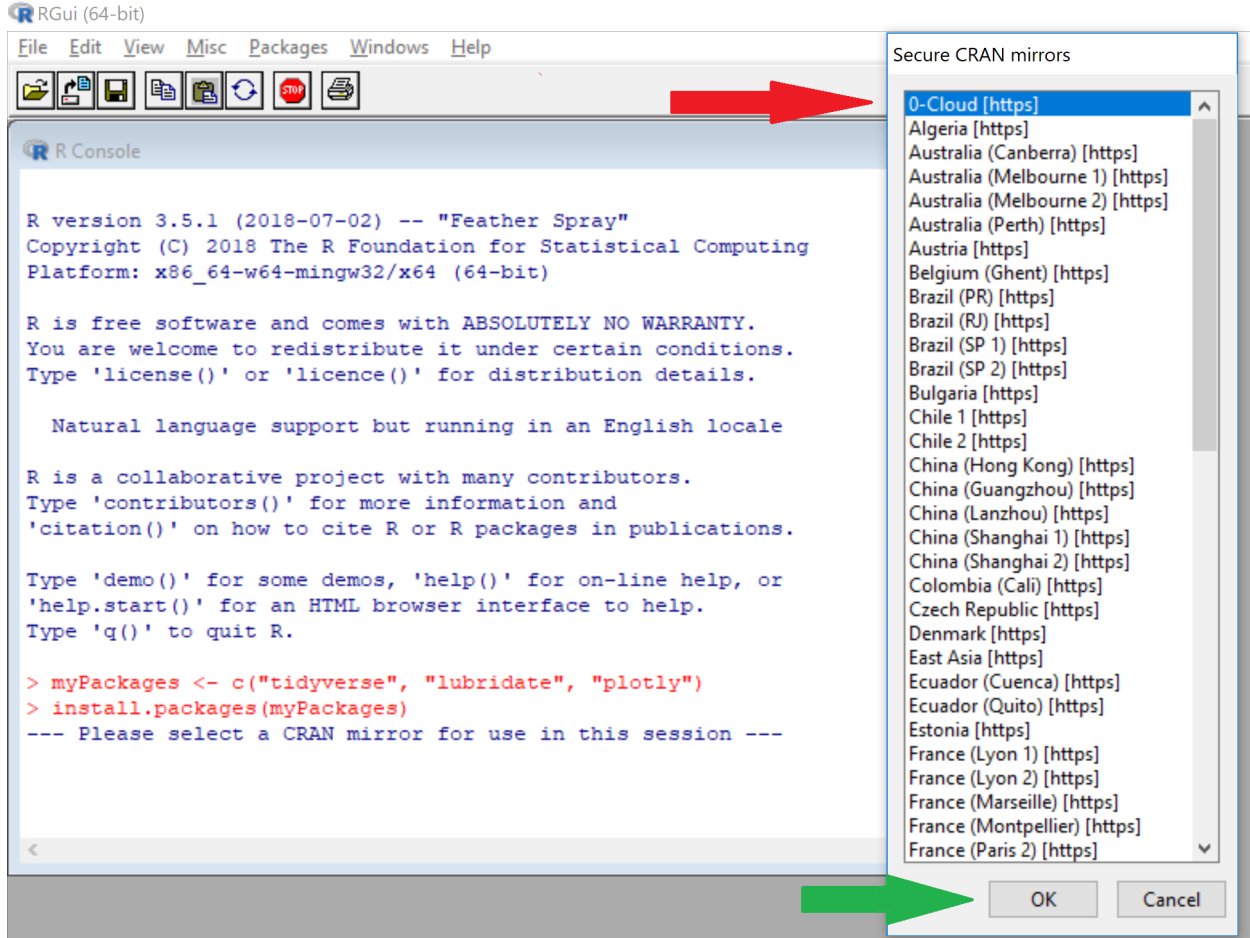1) Locate the R icon on your desktop and run it:

2) Copy following code:

```
myPackages <- c("tidyverse", "lubridate", "plotly")
install.packages(myPackages)
```
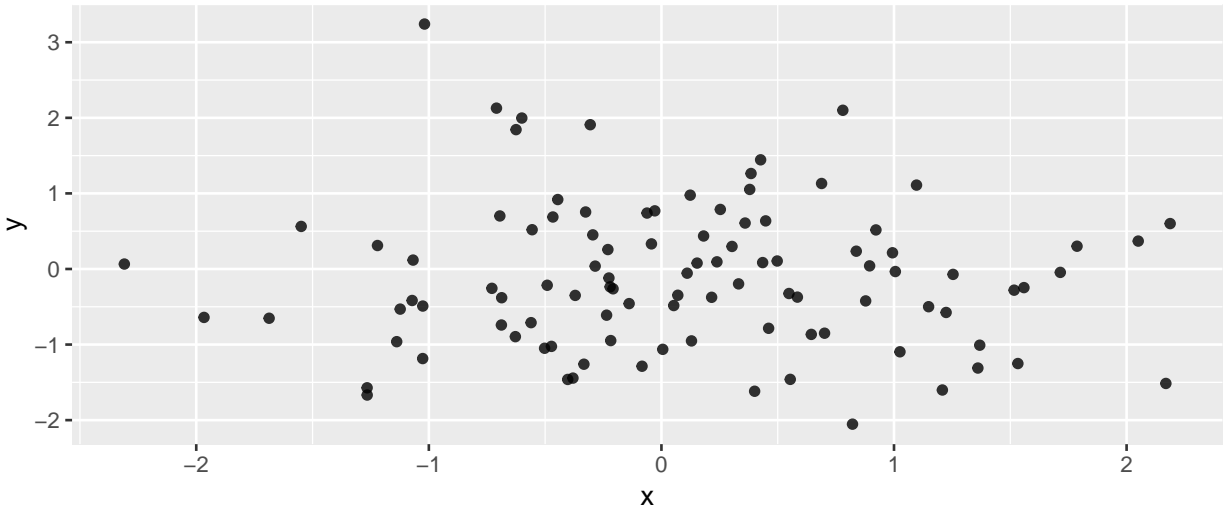
and paste it into the R console:

3) Press Enter and select the first CRAN again. Confirm by OK.

4) Run the following code (copy & paste into the Console)

```
library(tidyverse)
set.seed(123)
data <- data.frame(x=rnorm(100), y=rnorm(100))
ggplot(data, aes(x,y) ) +
 geom_point(alpha=0.8)
```


Do you see the figure above? Great, you are ready to attend the workshop! If you have encountered any trouble during this guide, please contact me at homolka@utb.cz.

5) Close R. Don't save your workspace.

Don't save workspace