R, RStudio, R packages Installation and Updating Instruction

## R Installation

1. On [R CRAN website](https://cran.r-project.org/) in “Download and Install R” section choose an appropriate link for the software, click “install R for the first time”.

## RStudio Installation

1. On [RStudio website](https://www.rstudio.com/products/rstudio/download/) click “Installers RStudio” and install RStudio for Windows. For other software and installation options scroll below.
2. Open RStudio.

## R and RStudion Updating

1. Close current R session.
2. On [R CRAN website](https://cran.r-project.org/) in “Download and Install R” section choose an appropriate link for the software, click “install R for the first time”.
3. On [RStudio website](https://www.rstudio.com/products/rstudio/download/) click “Installers RStudio” and install RStudio for Windows. For other software and installation options scroll below.
4. Setup new vwrsion of RStudio.
5. Reopen R Session in RStudio and choose the newest R version in Tools - Global options General - R Session - R version - Change - Apply.
6. Close and reopen RStudio.
7. Check information about session to ensure that the newest R and RStudio versions are installed.

* Type in the console:

utils::sessionInfo()

to check location, timezome, locale, base packages, loaded packages.

* Type in the console:

R.Version()

to check R version (full name and release date), OS, platform, and other information.

* Type in the console:

rstudioapi::versionInfo()

to check RStudio version, build, and other information.

## R packages Installation

1. Install R packages from CRAN repository.

* Go to Packages - Install - Type package name - Install OR
* Type in the console:

install.packages("package\_name")

to install a new package.

1. Load R packages.

* Type in the console:

library(package\_name)

to load a package in the environment.

## R packages Updating

Go to Tools - Check for Package updates - Select all - Install updates.