

# Updating R and RStudio

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## Updating R

### Updating on Windows

Updating on Windows is apparently tricky, a package called `installr`, which is only for Windows can be used to ease the process.

The following commands were taken from here (<http://www.r-statistics.com/2013/03/updating-r-from-r-on-windows-using-the-installr-package/>), which goes into more details.

First Install the `installr` package if you don't have it

```
# installing/loading the package:
if(!require(installr)) {
  install.packages("installr");
  require(installr)
} #load / install+load installr
```

Now call `updateR()` function to call update

This will start the updating process of your R installation. It will check for newer versions, and if one is available, will guide you through the decisions you'd need to make.

```
# using the package:
updateR()
```

### Updating On Mac and Ubuntu

One Mac and Ubuntu you need to go to the CRAN (<https://www.r-project.org/>) website, <https://www.r-project.org/> (<https://www.r-project.org/>) to install the newer package intaller.

## Updating RStudio

Updating RStudio is easy, just go to **Help > Check for Updates** to install newer version.

# Updating R Packages

## Updating Out of date Packages

Updating out of date package that were installed with `install.packages()` is easy with the `update.packages()` function.

```
update.packages()
```

Which will ask you for every package if you want to update, to just say yes to everything use `ask = FALSE`.

```
update.packages(ask = FALSE)
```

Unfortunately this won't update packages installed by `devtools::install_github()`

## Updating all Packages after R update

On Windows this is handled by the package `installr`. But for other operating systems, after updating R, a lot of packages might have been built under the old R version and it would be safer to re-install all the packages already installed. This can be done with the following commands. Again this won't update packages installed with `devtools::install_github()`

```
## get packages installed  
packs = as.data.frame(installed.packages(.libPaths()[1]), stringsAsFactors = F)  
  
## and now re-install install packages using install.packages()  
install.packages(packs$Package)
```