

# Package ‘installr’

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**Type** Package

**Title** Using R to Install Stuff on Windows OS (Such As: R, 'Rtools', 'RStudio', 'Git', and More!)

**Version** 0.22.0

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**Description** R is great for installing software. Through the 'installr' package you can automate the updating of R (on Windows, using `updateR()`) and install new software. Software installation is initiated through a GUI (just run `installr()`), or through functions such as: `install.Rtools()`, `install.pandoc()`, `install.git()`, and many more. The `updateR()` command performs the following: finding the latest R version, downloading it, running the installer, deleting the installation file, copy and updating old packages to the new R installation.

**URL** <http://talgalili.github.io/installr/>,  
<https://github.com/talgalili/installr/>,  
<http://www.r-statistics.com/tag/installr/>

**BugReports** <https://github.com/talgalili/installr/issues>

**OS\_type** windows

**Depends** R (>= 2.14.0), stringr, utils

**Suggests** curl, XML, htmltab, devtools, rjson, data.table, plyr, ggplot2, sp, tools, pkgbuild

**License** GPL-2

**RoxygenNote** 6.1.1

**NeedsCompilation** no

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---

installr-package      *Using R to Install Stuff (Such As: R, Rtools, RStudio, Git, and More!)*

---

**Description**

Using R to Install Stuff (Such As: R, Rtools, RStudio, Git, and More!)

---

add.installr.GUI      *Adds a menu based GUI for updating R within Rgui*

---

**Description**

Adds a menu based GUI for updating R within Rgui.

**Usage**

add.installr.GUI()

**Details**

This function is used during .onLoad to load the menus for the installr package in Rgui.

### Value

Returns invisible TRUE/FALSE if menus were added or not.

### Author(s)

Tal Galili, Dason

### References

My thanks goes to Yihui and Dason, for the idea and help with implementation. See also: <http://stackoverflow.com/questions/15250487/how-to-add-a-menu-item-to-rgui/>

### Examples

```
## Not run:  
add.installr.GUI()  
  
## End(Not run)
```

---

```
add_load_installr_on_startup_menu  
  Add menu item for having installr load on startup
```

---

### Description

Add menu item for having installr load on startup

### Usage

```
add_load_installr_on_startup_menu(...)
```

### Arguments

... not used. (but good for future backward compatibility)

---

```
add_remove_installr_from_startup_menu
```

*Add menu item for having installr NOT load on startup*

---

### Description

Add menu item for having installr NOT load on startup

### Usage

```
add_remove_installr_from_startup_menu(...)
```

### Arguments

... not used. (but good for future backward compatibility)

---

```
add_to_.First_in_Rprofile.site
```

*Add a code line to Rprofile.site .First*

---

### Description

Goes through Rprofile.site text, finds the .First function - and add a line of code to the beginning of it.

### Usage

```
add_to_.First_in_Rprofile.site(code, indent = "\t", ...)
```

### Arguments

code	A character scalar with code to add at the beginning of the .First function in Rprofile.site
indent	a character scalar indicating the text to be added before code. Default is a tab.
...	not used.

### References

<http://stackoverflow.com/questions/1395301/how-to-get-r-to-recognize-your-working-directory-as-its>  
<http://stackoverflow.com/questions/1189759/expert-r-users-whats-in-your-rprofile>  
<http://www.noamross.net/blog/2012/11/2/rprofile.html>
<http://www.statmethods.net/interface/customizing.html>

**Examples**

```
## Not run:
is_in_.First_in_Rprofile.site("suppressMessages(library(installr))") # FALSE
add_to_.First_in_Rprofile.site("suppressMessages(library(installr))")
is_in_.First_in_Rprofile.site("suppressMessages(library(installr))") # TRUE
remove_from_.First_in_Rprofile.site("suppressMessages(library(installr))")
is_in_.First_in_Rprofile.site("suppressMessages(library(installr))") # FALSE
# this would still leave .First

## End(Not run)
```

---

ask.user.for.a.row	<i>Asks the user for a row number from a data.frame table</i>
--------------------	---

---

**Description**

The function gets a data.frame and asks the user to choose a row number. Once chosen, that row number is returned from the function.

**Usage**

```
ask.user.for.a.row(TABLE,
  header_text = "Possible versions to download (choose one)",
  questions_text)
```

**Arguments**

TABLE	a data.frame table with rows from which we wish the user to choose a row. If TABLE is not a data.frame, it will be coerced into one.
header_text	the text the users sees (often a question) as a title for the printed table - explaining which row he should choose from
questions_text	the question the users see after the printing of the table - explaining which row he should choose from. (the default is: "Please review the table of versions from above, and enter the row number of the file-version you'd like to install: ")

**Details**

This function is used in `installr` when we are not sure what version of the software to download, or when various actions are available for the user to choose from. If the user doesn't give a valid row number, the function repeats its questions until a valid row number is chosen (or the user escapes)

**Value**

The row number the user has chosen from the data.frame table.

## Source

On how to ask the user for input:

<http://stackoverflow.com/questions/5974967/what-is-the-correct-way-to-ask-for-user-input-in-an-r-p>

## Examples

```
## Not run:
version_table <- data.frame(versions = c("devel", "V 1.0.0", "V 2.0.0"))
installr::ask.user.for.a.row(version_table)

## End(Not run)
```

---

ask.user.yn.question *Asks the user for one yes/no question.*

---

## Description

Asks the user for one yes/no question. If the users replies with a "yes" (or Y, or y) the function returns TRUE. Otherwise, FALSE. (also exists as the function devtools::yesno)

## Usage

```
ask.user.yn.question(question, GUI = TRUE, add_lines_before = TRUE)
```

## Arguments

**question** a character string with a question to the user.

**GUI** a logical indicating whether a graphics menu should be used if available. If TRUE, and on Windows, it will use winDialog, otherwise it will use [menu](#).

**add\_lines\_before** if to add a line before asking the question. Default is TRUE.

## Value

TRUE/FALSE - if the user answers yes or no.

## References

<http://stackoverflow.com/questions/15250487/how-to-add-a-menu-item-to-rgui> (my thanks goes to Dason for his answer and help)

## See Also

menu in the utils package, yesno in the devtools package.



## Examples

```
## Not run:
ask.user.yn.question("Do you love R?")
ask.user.yn.question(question = "Do you love R?", GUI = TRUE) # the same one as before
ask.user.yn.question(question = "Do you love R?", GUI = FALSE)
# reverts to command line questions

ask.user.yn.question("Lorem ipsum dolor sit amet, consectetur adipisicing elit,
sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.
Ut enim ad minim veniam, quis nostrud exercitation

    ullamco laboris nisi ut aliquip
    ex ea commodo consequat. Do \n you \n love R?")
    # checking how it deals with multi lines, and a lot of text (very good actually)

## End(Not run)
```

---

barplot\_package\_users\_per\_day

*barplot for the number of users installation of a package*

---

## Description

This function is a first template for creating a barplot of the number of downloads a package had in a time period. This function is based on some other functions, have a look at the example for more details.

## Usage

```
barplot_package_users_per_day(pkg_name, dataset, remove_dups = TRUE, ...)
```

## Arguments

pkg_name	a string of the package we are interested in checking.
dataset	a dataset output from running <a href="#">read_RStudio_CRAN_data</a> .
remove_dups	default is TRUE. Should the duplicate user ids (based on their ips) be removed. If TRUE, then the plot is the number of unique users who have downloaded our package everyday.
...	not in use.

## Details

RStudio maintains its own CRAN mirror, <https://cran.rstudio.com/> and offers its log files.

## Value

Returns the total number of downloads of the package for that time period.

**See Also**

[download\\_RStudio\\_CRAN\\_data](#), [read\\_RStudio\\_CRAN\\_data](#), [barplot\\_package\\_users\\_per\\_day](#)

**Examples**

```
## Not run:
# The first two functions might take a good deal of time to run (depending on the date range)
RStudio_CRAN_data_folder <-
  download_RStudio_CRAN_data(START = '2013-04-02',
                             END = '2013-04-05')
                             # around the time R 3.0.0 was released
my_RStudio_CRAN_data <- read_RStudio_CRAN_data(RStudio_CRAN_data_folder)
my_RStudio_CRAN_data <- format_RStudio_CRAN_data(my_RStudio_CRAN_data)
head(my_RStudio_CRAN_data)
lineplot_package_downloads(pkg_names = c("ggplot2", "reshape", "plyr", "installr"),
                            dataset = my_RStudio_CRAN_data)

# older plots:
# barplots: (more functions can easily be added in the future)
barplot_package_users_per_day("installr", my_RStudio_CRAN_data)
barplot_package_users_per_day("plyr", my_RStudio_CRAN_data)

## End(Not run)
```

---

browse.latest.R.NEWS *See the NEWS file for the latest R release*

---

**Description**

Sends the user the the NEWS html file on "https://cran.rstudio.com/bin/windows/base/NEWS.R-3.0.0.html" (URL changes with each version)

**Usage**

```
browse.latest.R.NEWS(URL = "https://cran.rstudio.com/bin/windows/base/",
  ...)
```

**Arguments**

URL	the URL of the page from which R can be downloaded.
...	for future use

**Value**

invisible(NULL)

**Examples**

```
## Not run:
browse.latest.R.NEWS()

## End(Not run)
```

---

check.for.updates.R    *Checks if there is a newer version of R*

---

**Description**

Fetches the latest (not development!) R version and compares it with your currently installed R version (the version of the R session from which you are running this function).

**Usage**

```
check.for.updates.R(notify_user = TRUE, GUI = TRUE,
  page_with_download_url = "https://cran.rstudio.com/bin/windows/base/",
  pat = "R-[0-9.]+.-win\\.exe")
```

**Arguments**

notify_user	if to print to you (the user) what is the latest version and what version you are currently using.
GUI	a logical indicating whether a graphics menu should be used if available. If TRUE, and on Windows, it will use winDialog, otherwise it will use <a href="#">cat</a> .
page_with_download_url	the URL of the page from which R can be downloaded.
pat	pattern to search for when looking for a newer R version

**Value**

TRUE/FALSE - if there is a newer version of R to install or not.

**Examples**

```
## Not run:
check.for.updates.R()
# Possible output:
# There is a newer version of R for you to download!
# You are using R version: 2.15.0
# And the latest R version is: 2.15.3
# [1] TRUE

## End(Not run)
```

---

check.integer	<i>Check if a number is integer</i>
---------------	-------------------------------------

---

**Description**

Returns TRUE/FALSE on whether a number is integer or not.

**Usage**

```
check.integer(N)
```

**Arguments**

N	A number (if a vector is supplied only the first element is checked - without warning)
---	--

**Details**

Surprising as it may be, R doesn't come with a handy function to check if the number is integer. This function does just this.

**Value**

TRUE/FALSE on whether a number is integer or not.

**Author(s)**

VitoshKa

**Source**

<http://stackoverflow.com/questions/3476782/how-to-check-if-the-number-is-integer>

**Examples**

```
check.integer <- installr:::check.integer
check.integer(4) # TRUE
check.integer(3243) #TRUE
check.integer(3243.34) #FALSE
check.integer("sdfs") #FALSE
check.integer(1e4) #TRUE
check.integer(1e6) #TRUE
check.integer(1e600) #FALSE - the function is having a hardtime with Inf...
rm(check.integer)
```

## Description

checkMD5sums checks the files against a file 'MD5'. This extends the default checkMD5sums from package tools by adding a new parameter "md5file"

## Usage

```
checkMD5sums2(package, dir, md5file, omit_files, ...)
```

## Arguments

package	the name of an installed package
dir	the path to the top-level directory of an installed package.
md5file	the exact path of the md5file to compare the dir with
omit_files	a character vector with the files or file directories to not include in the checksums
...	not used. (but good for future backward compatibility)

## Value

checkMD5sums returns a logical, NA if there is no 'MD5' file to be checked.

## See Also

[checkMD5sums](#)

## Examples

```
## Not run:  
checkMD5sums2(dir=R.home()) # doesn't work for R 3.0.0 or R 3.0.1  
checkMD5sums2(dir=R.home(), omit_files = c("etc/Rconsole", "etc/Rprofile.site")) # will work!  
# tools::md5sum(file.path(R.home(), "MD5"))
```

```
## End(Not run)
```

---

`copy.packages.between.libraries`*Copies all packages from one library folder to another*

---

### Description

Copies all packages from one folder to another. This function is used if we wish to either:

- Upgrade R to a new version - and copy all of the packages from the old R installation to the new one.
- Move to a global library system - and wanting to copy all of packages from the local library folder to the global one

It takes into account that we don't want to copy packages which have "high" importance (such as MASS, boot, graphics, utils, rpart, Matrix and more GREAT packages...) to the new library folder. Also, it assumes that within an R installation, the packages are located inside the "library" folder.

### Usage

```
copy.packages.between.libraries(from, to, ask = FALSE, keep_old = TRUE,  
do_NOT_override_packages_in_new_R = TRUE)
```

### Arguments

from	a character vector for the location of the old library folder FROM which to copy files from.
to	a character vector for the location of the old library folder TO which to copy files to.
ask	should the user be given the option to choose between which two libraries to copy the packages? If FALSE (default), the folders are copied from the before-newest R installation to the newest R installation. This overrides "from" and "to" parameters.
keep_old	should the packages be COPIED to the new library folder, thus KEEPing the old package as they are? Or should they be removed?
do_NOT_override_packages_in_new_R	default TRUE If FALSE, then If a package exists in both the "from" and "to" library folders - it would copy to "to" the version of the package from "from". (this parameter should rarely be FALSE)

### Value

TRUE if it copied (moved) packages, and FALSE if it did not.

### See Also

[get.installed.R.folders](#)

**Examples**

```
## Not run:
copy.packages.between.libraries(ask = T)
# it will ask you from what R version
# to copy the packages into which R version.
# Since (do_NOT_override_packages_in_new_R = T) the function will
# make sure to NOT override your newer packages.

# copy.packages.between.libraries(ask = T, keep_old = F)
# As before, but this time it will MOVE (instead of COPY) the packages.
# e.g: erase them from their old location.

## End(Not run)
```

---

cranometer

*Measures the speed of downloading from different CRAN mirrors*


---

**Description**

Estimates the speed of each CRAN mirror by measuring the time it takes to download the NEWS file.

**Usage**

```
cranometer(ms = getCRANmirrors(all = FALSE, local.only = FALSE), ...)
```

**Arguments**

ms	- the output of getCRANmirrors. Defaults to using all of the mirrors.
...	not in use

**Details**

It works by downloading the latest NEWS file (288 Kbytes at the moment, so not huge) from each of the mirror sites in the CRAN mirrors list. If you want to test it on a subset then call getCRANmirrors yourself and subset it somehow.

It runs on the full CRAN list and while designing this package I've yet to find a timeout or error so I'm not sure what will happen if download.file fails. It returns a data frame like you get from getCRANmirrors but with an extra 't' column giving the elapsed time to get the NEWS file.

CAVEATS: if your network has any local caching then these results will be wrong, since your computer will probably be getting the locally cached NEWS file and not the one on the server. Especially if you run it twice. Oh, I should have put cacheOK=FALSE in the download.file - but even that might get overruled somewhere. Also, sites may have good days and bad days, good minutes and bad minutes, your network may be congested on a short-term basis, etc etc.

There may also be a difference in reliability, which would not so easily be measured by an individual user.

Later that year, Barry also wrote Cranography. See: <http://www.maths.lancs.ac.uk/~rowlings/R/Cranography/>.

**Value**

a data.frame with details on mirror sites and the time it took to download their NEWS file.

**Author(s)**

Barry Rowlingson <b.rowlingson@lancaster.ac.uk>

**See Also**

[freegeoip](#), [myip](#), [cranometer](#)

**Examples**

```
## Not run:
# this can take some time
x <- cranometer()

time_order <- order(x$t)

# a quick overview of the fastest mirrors
head(x[time_order,c(1:4, 9)], 20)

# a dotchart of the fastest mirrors
with(x[rev(time_order),],
  dotchart(t, labels =Name,
    cex = .5, xlab = "Timing of CRAN mirror")
)

# tail(geonames_df)
# tail(x)
require(plyr)
ss <- !(x$Name == "0-Cloud")
gvis_df <- ddply(x[ss,], .(CountryCode), function(xx) {
  ss <- which.min(xx$t)
  if(length(ss) == 0) ss <- 1
  data.frame(time = xx$t[ss], name = xx$Name[ss] )
})
gvis_df <- gvis_df[!is.na(gvis_df$time), ]

require2("googleVis")
Geo<-gvisGeoMap(gvis_df,
  locationvar = "CountryCode",
  numvar="time",
  hovervar = "name",
  options=list(
    colors='[0xA5EF63,
    0xFFB581, 0xFF8747]')
)
# Display chart
plot(Geo)

## End(Not run)
```



---

create.global.library *Creates a global library folder*

---

**Description**

Creates a global library folder (above the folder R is currently installed in)

**Usage**

```
create.global.library(global_library_folder)
```

**Arguments**

global\_library\_folder  
the path of the new global library folder to create. If missing, will be set to R\_path/R/library. (for example: "C:/Program Files/R/library")

**Value**

TRUE/FALSE if we created a new folder or not.

**Examples**

```
## Not run:  
create.global.library()  
  
## End(Not run)
```

---

download.RStudio.CRAN.data

*Download RStudio CRAN mirror data files into a folder*

---

**Description**

This function download these files based on the code from the download page (<http://cran-logs.rstudio.com/>) into a temporary folder.

**Usage**

```
download.RStudio.CRAN.data(START = as.Date(Sys.time()) - 5,  
  END = as.Date(Sys.time()), log_folder = tempdir(),  
  trunc_END_date_to_today = TRUE, override = FALSE, message = TRUE,  
  ...)
```

**Arguments**

START	the defaults is 5 days before today. A character string of the START date for files to be downloaded. The date format is "YYYY-MM-DD".
END	the defaults is today. A character string of the END date for files to be downloaded. The date format is "YYYY-MM-DD".
log_folder	the folder into which we would like the files to be downloaded to. Default is the temporary folder picked by <a href="#">tempdir</a> .
trunc_END_date_to_today	default is TRUE. Makes sure that if END date is later then today, the END date will be change to today (since otherwise, we will only get many 404 errors)
override	boolean (default is FALSE) - should the function download files that are already available in the temp folder
message	boolean (default is TRUE) - should a message be printed in interesting cases.
...	not in use.

**Details**

RStudio maintains its own CRAN mirror, <https://cran.rstudio.com/> and offers its log files.

**Value**

Returns the value of log\_folder.

**See Also**

[download\\_RStudio\\_CRAN\\_data](#), [read\\_RStudio\\_CRAN\\_data](#), [barplot\\_package\\_users\\_per\\_day](#)

**Examples**

```
## Not run:
# The first two functions might take a good deal of time to run (depending on the date range)
RStudio_CRAN_data_folder <-
  download_RStudio_CRAN_data(START = '2013-04-02',
                              END = '2013-04-05')
# around the time R 3.0.0 was released
# RStudio_CRAN_data_folder <- download_RStudio_CRAN_data()
my_RStudio_CRAN_data <- read_RStudio_CRAN_data(RStudio_CRAN_data_folder)

# barplots: (more functions can easily be added in the future)
barplot_package_users_per_day("installr", my_RStudio_CRAN_data)
barplot_package_users_per_day("plyr", my_RStudio_CRAN_data)

## End(Not run)
```

---

fetch\_tag\_from\_Rd      *Access tag elements from R's Rd file*

---

### Description

A function to extract elements from R's help file.

It is useful, for example, for going through a package and discover who are its authors (useful for me to help me give proper credit in the DESCRIPTION file).

### Usage

```
fetch_tag_from_Rd(package, tag = "\\author", ...)
```

### Arguments

package	a character string of the package we are interested in.
tag	a character vector of tag(s) to get from a package's Rd files.
...	not in use.

### Value

a character vector with the tag's content, and the name of the Rd source of the function the tag came from.

### Author(s)

Thomas J. Leeper <thosjleeper@gmail.com>

### Source

<http://stackoverflow.com/questions/17909081/access-elements-from-rs-rd-file>

### See Also

[package\\_authors](#)

### Examples

```
## Not run:
fetch_tag_from_Rd("installr", "\\author")
fetch_tag_from_Rd("knitr", "\\author")
fetch_tag_from_Rd("lubridate", "\\author")

fetch_tag_from_Rd("installr", "\\source")

# get all the authors for this package
unique(unname(fetch_tag_from_Rd("installr", "\\author")))
```

```
fetch_tag_from_Rd("installr", "\\author")
package_authors("installr")
```

```
## End(Not run)
```

---

file.name.from.url      *Extract the file name from some URL*

---

## Description

Gets a character of link to some file, and returns the name of the file in this link.

## Usage

```
file.name.from.url(URL)
```

## Arguments

URL                      Some url to a file.

## Details

The `install.packages.zip` must use this function, since it is crucial that the name of the file into which the ZIPPED package is downloaded to the computer, will have the same name as the file which is online.

## Value

The name of the file in the URL

## See Also

[install.URL](#), [install.packages.zip](#)

## Examples

```
## Not run:
url <- "https://cran.r-project.org/bin/windows/base/R-2.15.3-win.exe"
file.name.from.url(url) # returns: "R-2.15.3-win.exe"

## End(Not run)
```

---

`format_RStudio_CRAN_data`*Format the RStudio CRAN mirror data into the data.table format*

---

## Description

This function makes sure the the RStudio CRAN mirror data object has correct classes for the columns date, package, country. It also adds the columns weekday and week. Lastly, it also sets a key.

## Usage

```
format_RStudio_CRAN_data(dataset, ...)
```

## Arguments

<code>dataset</code>	the RStudio CRAN mirror data object
<code>...</code>	not in use.

## Details

RStudio maintains its own CRAN mirror, <https://cran.rstudio.com/> and offers its log files.

## Value

Returns the re-formated data object.

## Author(s)

Felix Schonbrodt, Tal Galili

## Source

<http://www.nicebread.de/finally-tracking-cran-packages-downloads/>

## See Also

[download\\_RStudio\\_CRAN\\_data](#), [read\\_RStudio\\_CRAN\\_data](#), [barplot\\_package\\_users\\_per\\_day](#)

## Examples

```
## Not run:
# The first two functions might take a good deal of time to run (depending on the date range)
RStudio_CRAN_data_folder <-
  download_RStudio_CRAN_data(START = '2013-04-02',
                             END = '2013-04-05')
# around the time R 3.0.0 was released
my_RStudio_CRAN_data <- read_RStudio_CRAN_data(RStudio_CRAN_data_folder)
```

```
my_RStudio_CRAN_data <- format_RStudio_CRAN_data(my_RStudio_CRAN_data)
head(my_RStudio_CRAN_data)
lineplot_package_downloads(pkg_names = c("ggplot2", "reshape", "plyr", "installr"),
                           dataset = my_RStudio_CRAN_data)

# older plots:
# barplots: (more functions can easily be added in the future)
barplot_package_users_per_day("installr", my_RStudio_CRAN_data)
barplot_package_users_per_day("plyr", my_RStudio_CRAN_data)

## End(Not run)
```

---

freegeoip

*Geolocate IP addresses in R*

---

### Description

This R function uses the free freegeoip.net geocoding service to resolve an IP address (or a vector of them) into country, region, city, zip, latitude, longitude, area and metro codes.

The function require rjson.

### Usage

```
freegeoip(ip = myip(), format = ifelse(length(ip) == 1, "list",
                                       "dataframe"), ...)
```

### Arguments

ip	a character vector of ips (default is the output from <a href="#">myip</a> )
format	format of the output. Either "list" (default) or "data.frame"
...	not in use

### Value

a list or data.frame with details on your geo location based on the freegeoip.net service.

### Author(s)

Heuristic Andrew (see source for details)

### Source

<http://heuristically.wordpress.com/2013/05/20/geolocate-ip-addresses-in-r/>.

### See Also

[freegeoip](#), [myip](#), [cranometer](#)

## Examples

```
## Not run:
freegeoip()

## http://www.students.ncl.ac.uk/keith.newman/r/maps-in-r
# install.packages("maps")
# install.packages("mapdata")
library(maps)
library(mapdata) # Contains the hi-resolution points that mark out the countries.
map('worldHires')
require(installr)
myip_details <- freegeoip(myip())
my_lati <- myip_details$latitude
my_long <- myip_details$longitude
points(my_lati,my_long,col=2,pch=18, cex = 1)
# lines(c(my_lati,0) ,c(my_long, 50), col = 2)#'

## End(Not run)
```

---

get.installed.R.folders

*Returns folder names with R installations*

---

## Description

The function finds the folders where there are R installations. This is important for deciding what to uninstall, and where from and to to move libraries. This function ignores installations of R-devel at this point. Also, this function is based on only looking at the folders above the current installation of R. If there are other installations of R outside the above folder, they will not be listed.

## Usage

```
get.installed.R.folders(sort_by_version = TRUE,
  add_version_to_name = TRUE)
```

## Arguments

sort\_by\_version

should the returned vector be sorted by the version number? (default is yes - so that the first element is of the newest version of R) should the user be given the option to choose between which two libraries to copy the packages? If FALSE (default), the folders are copied from the before-newest R installation to the newest R installation.

add\_version\_to\_name

should the version number be added to the vector of folders? (default is yes)

**Value**

Returns a character vector (possibly named, possibly sorted) of the folders where there are R installations.

**See Also**

[copy.packages.between.libraries](#)

**Examples**

```
## Not run:
get.installed.R.folders()
# returns the sorted and named vector of
# folder names where R is installed (in different versions).
# The first element is
# the folder of the newest version of R.

get.installed.R.folders(F, F)
# returns the folder names where R is
# installed (in different versions) - no sorting of
# the folder names was performed

## End(Not run)
```

---

get\_pid

*Find the pid of a process by name*

---

**Description**

Returns a vector with the process ID (pid) for all processes with a particular name.

**Usage**

```
get_pid(process, exact = FALSE, ...)
```

**Arguments**

process	a character vector of process names.
exact	logical (FALSE). should we get exact match to process name, or can we use just partial matching.
...	not used.

**Value**

an integer vector with the process ID (pid) of the processes.



## References

tasklist details from microsoft homepage: <http://technet.microsoft.com/en-us/library/bb491010.aspx>

## See Also

[get\\_tasklist](#), [get\\_Rscript\\_PID](#), [get\\_pid](#), [kill\\_pid](#), [kill\\_all\\_Rscript\\_s](#), [pskill](#)

## Examples

```
## Not run:
get_pid("rsession") # finds it
get_pid("rsession", exact = TRUE) # doesn't find it
get_pid("rsession.exe", exact = TRUE) # finds it
get_pid(c("wininit", "winlogon"), exact = TRUE) # doesn't find it
get_pid(c("wininit", "winlogon")) # finds it

## End(Not run)
```

---

get\_Rscript\_PID

*Get the running "Rscript" processes PID*

---

## Description

Returns a vector with the process ID (pid) of the "Rscript" processes which are currently running.

## Usage

```
get_Rscript_PID(...)
```

## Arguments

... not used.

## Value

an integer vector with the process ID (pid) of the "Rscript" processes.

## References

tasklist details from microsoft homepage: <http://technet.microsoft.com/en-us/library/bb491010.aspx>

## See Also

[get\\_tasklist](#), [get\\_Rscript\\_PID](#), [get\\_pid](#), [kill\\_pid](#), [kill\\_all\\_Rscript\\_s](#), [pskill](#)

## Examples

```
## Not run:
# create several running processes of Rscript (to shutdown)
system("Rscript -e repeat{2+2}", wait = FALSE) # this process should be stuck
system("Rscript -e repeat{2+2}", wait = FALSE) # this process should be stuck
# here are there pid numbers:
get_Rscript_PID()
# let's kill them:
kill_all_Rscript_s()
# they are gone...
get_Rscript_PID() # we no longer have Rscripts running

## End(Not run)
```

---

get\_tasklist

*Get the running processes in windows task manager*

---

## Description

Returns a data.frame with the current running processes (Windows only).

## Usage

```
get_tasklist(...)
```

## Arguments

... not used.

## Value

a data.frame with the current running processes.

## References

tasklist details from microsoft homepage: <http://technet.microsoft.com/en-us/library/bb491010.aspx>

## See Also

[get\\_tasklist](#), [get\\_Rscript\\_PID](#), [get\\_pid](#), [kill\\_pid](#), [kill\\_all\\_Rscript\\_s](#), [pskill](#) [kill\\_pid](#), [kill\\_all\\_Rscript\\_s](#)

**Examples**

```
## Not run:
# create several running processes of Rscript (to shutdown)
system("Rscript -e repeat{2+2}", wait = FALSE) # this process should be stuck
system("Rscript -e repeat{2+2}", wait = FALSE) # this process should be stuck
# here are there pid numbers:
get_Rscript_PID()
# let's kill them:
kill_all_Rscript_s()
# they are gone...
get_Rscript_PID() # we no longer have Rscripts running

## End(Not run)
```

---

install.7zip

*Downloads and installs 7-Zip for windows*


---

**Description**

Allows the user to download and install the latest version of 7-Zip for Windows.

**Usage**

```
install.7zip(page_with_download_url = "http://www.7-zip.org/download.html",
...)
```

**Arguments**

```
page_with_download_url
    the URL of the 7-Zip download page.
...
    extra parameters to pass to install.URL
```

**Details**

7-Zip is open source software. Most of the source code is under the GNU LGPL license. The unRAR code is under a mixed license: GNU LGPL + unRAR restrictions. Check license information here: [7-Zip license](#). You can use 7-Zip on any computer, including a computer in a commercial organization. You don't need to register or pay for 7-Zip. \*The main features of 7-Zip \*High compression ratio in 7z format with LZMA and LZMA2 compression \*Supported formats: \*\*Packing / unpacking: 7z, XZ, BZIP2, GZIP, TAR, ZIP and WIM \*\*Unpacking only: ARJ, CAB, CHM, CPIO, CramFS, DEB, DMG, FAT, HFS, ISO, LZH, LZMA, MBR, MSI, NSIS, NTFS, RAR, RPM, SquashFS, UDF, VHD, WIM, XAR and Z. For ZIP and GZIP formats, 7-Zip provides a compression ratio that is 2-10 \*Strong AES-256 encryption in 7z and ZIP formats \*Self-extracting capability for 7z format \*Integration with Windows Shell \*Powerful File Manager \*Powerful command line version \*Plugin for FAR Manager \*Localizations for 79 languages

**Value**

TRUE/FALSE - was the installation successful or not.

**References**

- 7-zip homepage: <http://www.7-zip.org/>

**Examples**

```
## Not run:  
install.7zip() # installs the latest version of 7-Zip  
  
## End(Not run)
```

---

install.CMake

*Downloads and installs CMake for windows*

---

**Description**

Allows the user to downloads and install the latest version of CMake for Windows.

**Usage**

```
install.CMake(URL = "https://cmake.org/download/", ...)
```

**Arguments**

URL	the URL of the CMake download page.
...	extra parameters to pass to <a href="#">install.URL</a>

**Details**

CMake is a family of tools designed to build, test and package software. CMake is used to control the software compilation process using simple platform and compiler independent configuration files. CMake generates native makefiles and workspaces that can be used in the compiler environment of your choice.

**Value**

TRUE/FALSE - was the installation successful or not.

**References**

- CMake homepage: <http://www.cmake.org/cmake/resources/software.html>

**Examples**

```
## Not run:
install.CMake() # installs the latest version of ImageMagick

## End(Not run)
```

---

install.conda	<i>Downloads and installs miniconda</i>
---------------	---

---

**Description**

Downloads and installs the latest version of miniconda for Windows.

**Usage**

```
install.conda(version = 3, bitNo = "auto", ...)
```

**Arguments**

version	2 or 3. Default is 3
bitNo	32 or 64. Defaults is "auto" to check system.
...	extra parameters to pass to <a href="#">install.URL</a>

**Details**

Miniconda is minimal version of anaconda for python.

**Value**

TRUE/FALSE - was the installation successful or not.

**Author(s)**

Tal Galili and A. Jonathan R. Godfrey and Chanyub Park

**Examples**

```
## Not run:
install.conda()
install.conda(version = 3)
install.conda(3)

## End(Not run)
```

---

install.Cygwin      *Downloads and installs Cygwin for windows*

---

**Description**

Allows the user to downloads and install the latest version of Cygwin for Windows.

**Usage**

```
install.Cygwin(bit = 32, ...)
```

**Arguments**

bit	Specify 32 bit or 64 for your particular version of Windows.
...	extra parameters to pass to <a href="#">install.URL</a>

**Details**

Cygwin is a collection of tools which provide a Linux look and feel environment for Windows.

**Value**

TRUE/FALSE - was the installation successful or not.

**References**

- Cygwin homepage: <https://www.cygwin.com/>

**Examples**

```
## Not run:  
install.Cygwin() # installs the latest version of Cygwin  
  
## End(Not run)
```

---

install.FFmpeg      *Downloads and installs FFmpeg for windows*

---

**Description**

Allows the user to downloads the latest version of FFmpeg for Windows. **IMPORTANT NOTE:** The user (YOU) are responsible for unpacking the 7zip file into the relevant directory. All that this function does is to download the 7zip file and "run" it.

**Usage**

```
install.FFmpeg(page_with_download_url = "http://ffmpeg.zeranoe.com/builds/",
...)
```

**Arguments**

```
page_with_download_url
    the URL of the FFmpeg download page.
...
    extra parameters to pass to install.URL
```

**Details**

FFmpeg is a complete, cross-platform solution to record, convert and stream audio and video. It includes libavcodec - the leading audio/video codec library. See the documentation for a complete feature list and the Changelog for recent changes. This function downloads current releases and NOT the Development Snapshots. This function is useful for saveVideo() in the animation package.

**References**

- FFmpeg homepage: <http://FFmpeg.org/>

**Examples**

```
## Not run:
install.FFmpeg() # installs the latest version of FFmpeg

## End(Not run)
```

---

install.git	<i>Downloads and installs git and git-gui for windows</i>
-------------	---

---

**Description**

Allows the user to download and install the latest version of git for Windows.

**Usage**

```
install.git(URL = "http://git-scm.com/download/win", version = 64, ...)
```

**Arguments**

```
URL
    the URL of the git download page.
version
    numeric - either 32 or 64 (default)
...
    extra parameters to pass to install.URL
```

**Details**

Git is a distributed revision control and source code management system with an emphasis on speed.

**Value**

TRUE/FALSE - was the installation successful or not.

**References**

git homepage: <http://git-scm.com/> git download page: <http://git-scm.com/download/win>

**Examples**

```
## Not run:  
install.git() # installs the latest version of git  
  
## End(Not run)
```

---

install.GitHub	<i>Downloads and installs GitHub for windows</i>
----------------	--

---

**Description**

Allows the user to download and install the latest version of GitHub for Windows.

**Usage**

```
install.GitHub(URL = "http://github-windows.s3.amazonaws.com/GitHubSetup.exe",  
...)
```

**Arguments**

URL	the URL of the GitHub download page.
...	extra parameters to pass to <a href="#">install.URL</a>

**Details**

"The easiest way to use Git on Windows." (at least so they say...)

**Value**

TRUE/FALSE - was the installation successful or not.

**References**

- GitHub homepage: <https://github.com/>
- GitHub for windows download page: <http://windows.github.com/>



## Examples

```
## Not run:  
install.GitHub() # installs the latest version of GitHub for windows  
  
## End(Not run)
```

---

```
install.GraphicsMagick
```

*Downloads and installs GraphicsMagick for windows*

---

## Description

Allows the user to download and install the latest version of GraphicsMagick for Windows.

## Usage

```
install.GraphicsMagick(URL = "http://sourceforge.net/projects/graphicsmagick/",  
...)
```

## Arguments

URL	the URL of the ImageMagick download page.
...	extra parameters to pass to <a href="#">install.URL</a>

## Details

GraphicsMagick is the swiss army knife of image processing. Comprised of 282K physical lines (according to David A. Wheeler's SLOCCount) of source code in the base package (or 964K including 3rd party libraries) it provides a robust and efficient collection of tools and libraries which support reading, writing, and manipulating an image in over 88 major formats including important formats like DPX, GIF, JPEG, JPEG-2000, PNG, PDF, PNM, and TIFF. This function downloads Win32 dynamic at 16 bits-per-pixel.

## Value

TRUE/FALSE - was the installation successful or not.

## References

- GraphicsMagick homepage: <http://www.graphicsmagick.org/>

## Examples

```
## Not run:  
install.GraphicsMagick() # installs the latest version of GraphicsMagick  
  
## End(Not run)
```

---

install.ImageMagick     *Downloads and installs ImageMagick for windows*

---

### Description

Allows the user to download and install the latest version of ImageMagick for Windows.

### Usage

```
install.ImageMagick(URL = "http://www.imagemagick.org/script/download.php",  
...)
```

### Arguments

URL	the URL of the ImageMagick download page.
...	extra parameters to pass to <a href="#">install.URL</a>

### Details

ImageMagick is a software suite to create, edit, compose, or convert bitmap images. It can read and write images in a variety of formats (over 100) including DPX, EXR, GIF, JPEG, JPEG-2000, PDF, PhotoCD, PNG, Postscript, SVG, and TIFF. Use ImageMagick to resize, flip, mirror, rotate, distort, shear and transform images, adjust image colors, apply various special effects, or draw text, lines, polygons, ellipses and Bezier curves. This function downloads Win32 dynamic at 16 bits-per-pixel.

### Value

TRUE/FALSE - was the installation successful or not.

### References

- ImageMagick homepage: <http://www.imagemagick.org/script/index.php>

### Examples

```
## Not run:  
install.ImageMagick() # installs the latest version of ImageMagick  
  
## End(Not run)
```

---

`install.inno`*Downloads and installs Inno Setup*

---

**Description**

Downloads and installs Inno Setup's [stable release](#)

**Usage**

```
install.inno(quick_start_pack = FALSE, encryption_module = TRUE, ...)
```

**Arguments**

`quick_start_pack`

logical (default is FALSE) - The Inno Setup QuickStart Pack includes Inno Setup and Inno Script Studio script editor. See [Third-Party Files](#) page for more information.

`encryption_module`

logical (default is TRUE) - Inno Setup's Encryption Module

`...`

extra parameters to pass to [install.URL](#)

**Details**

Inno Setup is a free installer for Windows programs. First introduced in 1997, it currently rivals many commercial installers in feature set and stability.

See [Features](#) for more information.

**Value**

TRUE/FALSE - was the installation successful or not.

**Author(s)**

Tal Galili and Jonathan M. Hill

**Examples**

```
## Not run:  
install.inno()  
install.inno(quick_start_pack = TRUE)  
  
## End(Not run)
```

---

install.java	<i>Install Java - downloads and set path openjdk</i>
--------------	--

---

### Description

Downloads and set path the latest version of openjdk for Windows.

### Usage

```
install.java(version = 11,  
  page_with_download_url = "http://jdk.java.net/java-se-ri/",  
  path = "C:/java")
```

```
install.Java(version = 11,  
  page_with_download_url = "http://jdk.java.net/java-se-ri/",  
  path = "C:/java")
```

```
install.jdk(version = 11,  
  page_with_download_url = "http://jdk.java.net/java-se-ri/",  
  path = "C:/java")
```

```
install.Jdk(version = 11,  
  page_with_download_url = "http://jdk.java.net/java-se-ri/",  
  path = "C:/java")
```

```
install.openjdk(version = 11,  
  page_with_download_url = "http://jdk.java.net/java-se-ri/",  
  path = "C:/java")
```

```
install.OpenJdk(version = 11,  
  page_with_download_url = "http://jdk.java.net/java-se-ri/",  
  path = "C:/java")
```

### Arguments

version	9 or 10 is passible. Default is 11.
page_with_download_url	where to download. Default is <a href="http://jdk.java.net/java-se-ri/11">http://jdk.java.net/java-se-ri/11</a>
path	where to set java. Defulat path is C:/java

### Details

install openjdk 9 or 10 version for windows.

### Value

TRUE/FALSE - was the installation successful or not.

**Author(s)**

Chan-Yub Park And Tal Galili

**Examples**

```
## Not run:
install.java()
install.java(version = 11)
install.java(11)

## End(Not run)
```

---

install.LaTeX2RTF	<i>Downloads and installs LaTeX2RTF for windows</i>
-------------------	---

---

**Description**

Allows the user to download and install the latest version of LaTeX2RTF for Windows.

**Usage**

```
install.LaTeX2RTF(page_with_download_url = "http://sourceforge.net/projects/latex2rtf/",
...)
```

**Arguments**

page\_with\_download\_url  
the URL of the SWFTools download page.  
... extra parameters to pass to [install.URL](#)

**Details**

Latex2rtf tries to convert your LaTeX file into a RTF file for opening in Microsoft Word. The general idea is to try and get the things that computers are good at correct: character conversion, graphic conversion, etc. Page layout suffers because control in RTF is pretty pathetic compared to TeX. Consequently, it is likely that manual reformatting will be needed.

**Value**

TRUE/FALSE - was the installation successful or not.

**References**

- SWFTools homepage: <http://latex2rtf.sourceforge.net/>

**Examples**

```
## Not run:
install.LaTeX2RTF() # installs the latest version of LaTeX2RTF

## End(Not run)
```

---

install.LyX

*Downloads and installs LyX for windows*


---

**Description**

Allows the user to download and install the latest version of LyX for Windows.

**Usage**

```
install.LyX(page_with_download_url = "http://www.lyx.org/Download",
  new_installation, ...)
```

**Arguments**

```
page_with_download_url
    the URL of the LyX download page.
new_installation
    boolean. TRUE means we should make a new installation of LyX. FALSE
    means to update an existing installation. Missing - prompts the user to decide.
...
    extra parameters to pass to install.URL
```

**Details**

LyX is an advanced open source document processor running on Linux/Unix, Windows, and Mac OS X. It is called a "document processor", because unlike standard word processors, LyX encourages an approach to writing based on the structure of your documents, not their appearance. LyX lets you concentrate on writing, leaving details of visual layout to the software. LyX automates formatting according to predefined rule sets, yielding consistency throughout even the most complex documents. LyX produces high quality, professional output - using LaTeX, an open source, industrial strength typesetting engine, in the background.

**Value**

TRUE/FALSE - was the installation successful or not.

**References**

- LyX homepage: <http://www.lyx.org/>

**Examples**

```
## Not run:
install.LyX() # installs the latest version of LyX

## End(Not run)
```

---

install.MiKTeX	<i>Downloads and installs MiKTeX for windows</i>
----------------	--

---

**Description**

Allows the user to download and install the latest version of MiKTeX for Windows.

**Usage**

```
install.MiKTeX(page_with_download_url = "https://miktex.org/download",
  ...)
```

**Arguments**

```
page_with_download_url
    the URL of the MiKTeX download page.
...
    extra parameters to pass to install.URL
```

**Details**

MiKTeX is a typesetting system for Microsoft Windows that is developed by Christian Schenk. It consists of an implementation of TeX and a set of related programs. MiKTeX provides the tools necessary to prepare documents using the TeX/LaTeX markup language, as well as a simple tex editor (TeXworks).

MiKTeX is essential for using Sweave, knitr, and creating Vignette for R packages.

**Value**

TRUE/FALSE - was the installation successful or not.

**References**

MiKTeX homepage: <http://miktex.org/> MiKTeX download page: <http://miktex.org/download>

**Examples**

```
## Not run:
install.MiKTeX() # installs the latest version of MiKTeX 62 bit

## End(Not run)
```

---

`install.nodejs`*Downloads and installs nodejs LTS or Current*

---

### Description

Downloads and installs the latest version of nodejs LTS or Current for Windows.

### Usage

```
install.nodejs(page_with_download_url = "https://nodejs.org/en/download/",  
version_number = "LTS", ...)
```

### Arguments

`page_with_download_url` a link to the list of download links for Nodejs  
`version_number` Either LTS or Current. Version LTS will lead to download of v6.11.X  
... extra parameters to pass to [install.URL](#)

### Details

Nodejs is a programming language which has two versions under active development. Make sure you know which version is required for the code you have to run, or alternatively, make sure you are developing code that is fit for your chosen version of Nodejs.

### Value

TRUE/FALSE - was the installation successful or not.

### Author(s)

Tal Galili and A. Jonathan R. Godfrey and Chanyub Park

### Examples

```
## Not run:  
install.nodejs()  
install.nodejs("Current")  
install.nodejs("LTS")  
  
## End(Not run)
```



---

install.notepadpp	<i>Downloads and installs Notepad++ for windows</i>
-------------------	---

---

**Description**

Allows the user to downloads and install the latest version of Notepad++ for Windows.

**Usage**

```
install.notepadpp(page_with_download_url = "http://notepad-plus-plus.org/download/",  
...)
```

**Arguments**

page_with_download_url	the URL of the Notepad++ download page.
...	extra parameters to pass to <a href="#">install.URL</a>

**Details**

Notepad++ is a free (as in "free speech" and also as in "free beer") source code editor and Notepad replacement that supports several languages. Running in the MS Windows environment, its use is governed by GPL License. Based on the powerful editing component Scintilla, Notepad++ is written in C++ and uses pure Win32 API and STL which ensures a higher execution speed and smaller program size. By optimizing as many routines as possible without losing user friendliness, Notepad++ is trying to reduce the world carbon dioxide emissions. When using less CPU power, the PC can throttle down and reduce power consumption, resulting in a greener environment.

**Value**

invisible TRUE/FALSE - was the installation successful or not.

**References**

homepage: <http://notepad-plus-plus.org/> download page: <http://notepad-plus-plus.org/download/>

**Examples**

```
## Not run:  
install.notepadpp() # installs the latest version of Notepad++  
  
## End(Not run)
```

---

install.npptor	<i>Downloads and installs NppToR for windows</i>
----------------	--

---

**Description**

Allows the user to download and install the latest version of NppToR extension for Notepad++ for Windows.

**Usage**

```
install.npptor(URL = "http://sourceforge.net/projects/npptor/files/npptor%20installer/",
...)
```

**Arguments**

URL	the URL of the Notepad++ download page.
...	extra parameters to pass to <a href="#">install.URL</a>

**Details**

Similar to the windows R gui built in editor, NppToR aims to extend the functionality of code passing to the Notepad++ code editor. In addition to passing to the R gui, NppToR provides optional passing to a PuTTY window for passing to an R instance a remote machine.

NppToR is a companion utility that facilitates communication between R and Notepad++. It provides code passing from Notepad++ into the windows R Gui. NppToR also provides an autocompletion database which is dynamically generated from the users' R library of packages, thanks to an addition by Yihui Xie. Notepad++ provides built in R code highlighting and folding.

**Value**

invisible TRUE/FALSE - was the installation successful or not.

**References**

homepage: <http://npptor.sourceforge.net/> download page: <http://sourceforge.net/projects/npptor/>

**Examples**

```
## Not run:
install.npptor() # installs the latest version of NppToR

## End(Not run)
```

---

install.packages.zip *Downloads and installs a ZIP R package Binary (for Windows) from a URL*

---

### Description

Gets a character with a link to an R package Binary, downloads it, and installs it.

### Usage

```
install.packages.zip(zip_URL)
```

### Arguments

zip\_URL            a link to a ZIP R package Binary.

### Details

To my knowledge, there is currently three ways to install packages on R: 1. To get the package through a repository (such as CRAN or RForge) through `install.packages`. 2. To manually download a ZIP file locally to the computer, and use `install.packages` on it. 3. To get the package from github, by using devtools (but this will require you to first install RTools, and not everyone wishes to do it for just some package). This function aims to combine option 1 and 2, by automatically downloading the ZIP file locally and then running `install.packages` on it. After being downloaded and installed, the binary is erased from the computer.

### Value

Invisible NULL

### See Also

[install.packages](#), [installPackages](#)

### Examples

```
## Not run:  
install.packages.zip("https://cran.r-project.org/bin/windows/contrib/r-release/devtools_1.1.zip")  
  
## End(Not run)
```

---

install.pandoc	<i>Downloads and installs pandoc</i>
----------------	--------------------------------------

---

### Description

Downloads and installs the latest version of pandoc for Windows.

### Usage

```
install.pandoc(URL = "https://github.com/jgm/pandoc/releases",  
  use_regex = TRUE, to_restart, ...)
```

### Arguments

URL	a link to the list of download links of pandoc
use_regex	(default TRUE) - deprecated (kept for legacy purposes).
to_restart	boolean. Should the computer be restarted after pandoc is installed? (if missing then the user is prompted for a decision)
...	extra parameters to pass to <a href="#">install.URL</a>

### Details

pandoc is a free open source software for converting documents from many filetypes to many filetypes. For details, see <http://johnmacfarlane.net/pandoc/>.

Credit: the code in this function is based on GERGELY DAROCZI's coding in his answer on the Q&A forum StackOverflow, and also G. Grothendieck for the non-XML addition to the function. I thank them both!

### Value

TRUE/FALSE - was the installation successful or not.

### Author(s)

GERGELY DAROCZI, G. Grothendieck, Tal Galili

### Source

<http://stackoverflow.com/questions/15071957/is-it-possible-to-install-pandoc-on-windows-using-an-r>

### Examples

```
## Not run:  
install.pandoc()  
  
## End(Not run)
```

---

install.python	<i>Downloads and installs python 2 or 3</i>
----------------	---

---

**Description**

Downloads and installs the latest version of python 2 or 3 for Windows.

**Usage**

```
install.python(page_with_download_url = "https://www.python.org/downloads/windows/",  
              version_number = 3, x64 = is.x64(), ...)
```

**Arguments**

page_with_download_url	a link to the list of download links for Python
version_number	Either 2 or 3. Version 2/3 will lead to download of v2.7.xx/3.6.xx respectively.
x64	logical: fetch a 64 bit version. default checks architecture of current R session.
...	extra parameters to pass to <a href="#">install.URL</a>

**Details**

Python is a programming language which has two versions under active development. Make sure you know which version is required for the code you have to run, or alternatively, make sure you are developing code that is fit for your chosen version of Python. In addition, the Python installers are specific to 32 or 64 bit windows architectures.

**Value**

TRUE/FALSE - was the installation successful or not.

**Author(s)**

Tal Galili and A. Jonathan R. Godfrey

**Examples**

```
## Not run:  
install.python()  
install.python(,3)  
install.python(,2)  
  
## End(Not run)
```

---

`install.R`*Downloads and installs the latest R version*

---

### Description

Fetches the latest (not development!) R version

### Usage

```
install.R(page_with_download_url = "https://cran.rstudio.com/bin/windows/base/",
pat = "R-[0-9.]+-win\\.exe", to_checkMD5sums = TRUE,
keep_install_file = FALSE, download_dir = tempdir(),
silent = FALSE, ...)
```

### Arguments

<code>page_with_download_url</code>	URL from which the latest stable version of R can be downloaded from.
<code>pat</code>	the pattern of R .exe file to download
<code>to_checkMD5sums</code>	Should we check that the new R installation has the files we expect it to (by checking the MD5 sums)? default is TRUE. It assumes that the R which was installed is the latest R version.
<code>keep_install_file</code>	If TRUE - the installer file will not be erased after it is downloaded and run.
<code>download_dir</code>	A character of the directory into which to download the file. (default is <code>tempdir()</code> )
<code>silent</code>	If TRUE - enables silent installation mode.
<code>...</code>	extra parameters to pass to <code>install.URL</code>

### Details

If you are not sure if you need to update R or not, It is better to use `updateR` for updating R, since it includes more options. But in case you wish to only install R, with no other steps taken (for example, taking care of your old packages), then you can use `install.R()`

See the `install.Rdevel` function for installing the latest R-devel version.

### Value

TRUE/FALSE - was the installation of R successful or not.

### References

<https://cran.r-project.org/bin/windows/base/>

**See Also**

[uninstall.R](#), [install.Rdevel](#), [updateR](#), [system](#)

**Examples**

```
## Not run:  
install.R()  
  
## End(Not run)
```

---

install.Rdevel	<i>Downloads and installs the latest Rdevel version</i>
----------------	---

---

**Description**

Fetches the latest (development!) R version

**Usage**

```
install.Rdevel(exe_URL = "https://cran.rstudio.com/bin/windows/base/R-devel-win.exe",  
...)
```

**Arguments**

exe_URL	A character with a link to an installer file (with the .exe file extension)
...	extra parameters to pass to <a href="#">install.URL</a>

**Details**

This is a development version of R. It likely contains bugs, so be careful if you use it. Please don't report bugs in this version through the usual R bug reporting system, please report them on the r-devel mailing list—but only if they persist for a few days.

**Value**

TRUE/FALSE - was the installation of R successful or not.

**References**

<https://cran.r-project.org/bin/windows/base/rdevel.html>

**See Also**

[install.R](#), [updateR](#)

## Examples

```
## Not run:  
install.Rdevel()  
  
## End(Not run)
```

---

install.RStudio	<i>Downloads and installs RStudio for windows</i>
-----------------	---

---

## Description

Allows the user to download and install the latest version of RStudio for Windows.

## Usage

```
install.RStudio(page_with_download_url, ...)
```

## Arguments

page_with_download_url	the URL of the RStudio download page.
...	extra parameters to pass to <a href="#">install.URL</a>

## Details

RStudio is a free and open source integrated development environment (IDE) for R, a programming language for statistical computing and graphics.

## Value

TRUE/FALSE - was the installation successful or not.

## References

- RStudio homepage: <http://www.rstudio.com/>

## Examples

```
### devtools::source_url  
## Not run:  
install.RStudio() # installs the latest version of RStudio  
  
## End(Not run)
```



---

install.Rtools      *Downloads and installs Rtools*

---

### Description

Allows the user to choose, downloads and install - the latest version of Rtools for Windows. By default, the function searches if RTools is installed, if not, it checks if it knows which version to install for the current R version, and if not - it asks the user to choose which Rtools version to install.

### Usage

```
install.Rtools(choose_version = TRUE, check = FALSE, GUI = TRUE,  
  page_with_download_url = "https://cran.r-project.org/bin/windows/Rtools/",  
  ...)
```

### Arguments

`choose_version` if TRUE, allows the user to choose which version of RTools to install. Useful if you wish to install the devel version of RTools, or if you are running on an old version of R which requires an old version of R.

`check` checks if we need to install Rtools or not. Relies on the "find\_rtools" function in the devtools package.

`GUI` Should a GUI be used when asking the user questions? (defaults to TRUE)

`page_with_download_url` the URL of the RTools download page.

... extra parameters to pass to [install.URL](#)

### Details

RTools is a collection of software for building packages for R under Microsoft Windows, or for building R itself (version 1.9.0 or later). The original collection was put together by Prof. Brian Ripley; it is currently being maintained by Duncan Murdoch.

### Value

invisible(TRUE/FALSE) - was the installation successful or not.

### Source

Some parts of the code are taken from the devtools.

### References

RTools homepage (for other resources and documentation): <https://cran.r-project.org/bin/windows/Rtools/>

## Examples

```
## Not run:
install.Rtools() # installs the latest version of RTools (if one is needed)
install.Rtools(TRUE) # if one is needed - asks the user to choose the latest
# version of RTools to install

install.Rtools(TRUE, FALSE) # asks the user to choose
# the latest version of RTools to install
# (regardless if one is needed)
# install.Rtools(F,F)

## End(Not run)
```

---

install.SWFTools	<i>Downloads and installs SWFTools for windows</i>
------------------	--

---

## Description

Allows the user to download and install the latest version of SWFTools for Windows.

## Usage

```
install.SWFTools(page_with_download_url = "http://swftools.org/download.html",
...)
```

## Arguments

page_with_download_url	the URL of the SWFTools download page.
...	extra parameters to pass to <a href="#">install.URL</a>

## Details

SWFTools is a collection of utilities for working with Adobe Flash files (SWF files). The tool collection includes programs for reading SWF files, combining them, and creating them from other content (like images, sound files, videos or sourcecode). SWFTools is released under the GPL. This function downloads current releases and NOT the Development Snapshots. This function is useful for `saveSWF()` in the animation package.

## Value

TRUE/FALSE - was the installation successful or not.

## References

- SWFTools homepage: <http://swftools.org/>

## Examples

```
## Not run:  
install.SWFTools() # installs the latest version of SWFTools  
  
## End(Not run)
```

---

install.Textmaker	<i>Downloads and installs Textmaker for windows</i>
-------------------	---

---

## Description

Allows the user to download and install the latest version of Textmaker for Windows.

## Usage

```
install.Textmaker(URL = "http://www.xm1math.net/textmaker/textmakerwin32_install.exe",  
...)
```

## Arguments

URL	the URL of the GitHub download page.
...	extra parameters to pass to <a href="#">install.URL</a>

## Details

Textmaker is a free, modern and cross-platform LaTeX editor for linux, macosx and windows systems that integrates many tools needed to develop documents with LaTeX, in just one application.

## Value

logical - was the installation successful or not.

## References

- Textmaker homepage: <http://www.xm1math.net/textmaker/>

## Examples

```
## Not run:  
install.Textmaker() # installs the latest version of Textmaker for windows  
  
## End(Not run)
```

---

install.URL	<i>Downloads and runs a .exe installer file for some software from a URL</i>
-------------	--

---

### Description

Gets a character with a link to an installer file, downloads it, runs it, and then erases it.

### Usage

```
install.URL(exe_URL, keep_install_file = FALSE, wait = TRUE,
            download_dir = tempdir(), message = TRUE, installer_option = NULL,
            download_fun = download.file, ...)
```

### Arguments

exe_URL	A character with a link to an installer file (with the .exe file extension)
keep_install_file	If TRUE - the installer file will not be erased after it is downloaded and run.
wait	should the R interpreter wait for the command to finish? The default is to NOT wait.
download_dir	A character of the directory into which to download the file. (default is <a href="#">tempdir()</a> )
message	boolean. Should a message on the file be printed or not (default is TRUE)
installer_option	A character of the command line arguments
download_fun	a function to use for downloading. Default is <a href="#">download.file</a> . We can also use <a href="#">curl_download</a> (but it doesn't give as good of an output while downloading the file).
...	parameters passed to 'shell'

### Details

This function is used by many functions in the installr package. The .exe file is downloaded into a temporary directory, where it is erased after installation has started (by default - though this can be changed)

### Value

invisible(TRUE/FALSE) - was the installation successful or not. (this is based on the output of shell of running the command being either 0 or 1/2. 0 means the file was successfully installed, while 1 or 2 means there was a failure in running the installer.)

### Author(s)

GERGELY DAROCZI, Tal Galili

**See Also**[shell](#)**Examples**

```
## Not run:  
install.URL("adfadf") # shows the error produced when the URL is not valid.  
  
## End(Not run)
```

---

`installr`*Installing software from R*

---

**Description**

Gives the user the option to download software from within R.

**Usage**

```
installr(GUI = TRUE, ...)
```

**Arguments**

GUI	a logical indicating whether a graphics menu should be used if available. If TRUE, and on Windows, it will use <code>winDialog</code> , otherwise it will use <a href="#">menu</a> .
...	not in use

**Value**

TRUE/FALSE - if the software was installed successfully or not.

**See Also**

[updateR](#), [install.R](#), [install.RStudio](#), [install.Rtools](#), [install.pandoc](#), [install.MikTeX](#), [install.git](#), [install.git](#), [install.GraphicsMagick](#), [install.ImageMagick](#), [check.for.updates.R](#), [install.URL](#), [install.packages.zip](#),

**Examples**

```
## Not run:  
installr()  
  
## End(Not run)
```

---

is.empty	<i>Checks if an object is empty (e.g: of zero length)</i>
----------	---

---

### Description

Checks if an object is empty (e.g: of zero length) and returns TRUE/FALSE

### Usage

```
is.empty(x, mode = NULL, ...)
```

### Arguments

x	an object
mode	is the object an empty (zero length) object of this mode (can be "integer", "numeric", and so on...)
...	none are available.

### Details

Uses identical and avoids any attribute problems by using the fact that it is the empty set of that class of object and combine it with an element of that class.

### Value

Returns TRUE/FALSE if the object is empty or not.

### Author(s)

James (<http://stackoverflow.com/users/269476/james>)

### Source

<http://stackoverflow.com/questions/6451152/how-to-catch-integer0>

### See Also

[integer](#), [identical](#)

### Examples

```
is.empty(integer(0)) #TRUE
is.empty(0L)         #FALSE
is.empty(numeric(0)) #TRUE
is.empty(NA)        # FALSE
is.empty(FALSE)     # FALSE
is.empty(NULL)      # FALSE (with a warning)
```

```

a <- which(1:3 == 5)
b <- numeric(0)
is.empty(a)
is.empty(a,"numeric")
is.empty(b)
is.empty(b,"integer")

```

---

is.exe.installed	<i>Checks if some .exe is available in on the Windows machine search PATH</i>
------------------	---

---

### Description

Checks the existence of an .exe extension in the search path for executable files

### Usage

```
is.exe.installed(exe_file)
```

### Arguments

exe\_file            a character with the name of the executable to be looked for

### Value

A boolean vector indicating the existence of each program's availability on the system.

### Examples

```

## Not run:
is.exe.installed(c("zip.exe", "Rgui.exe", "blablabla")) # [1] TRUE TRUE FALSE
is.exe.installed("7z")

## End(Not run)

```

---

is.Rgui	<i>Checks if the R session is running within Rgui (Windows OS)</i>
---------	--

---

### Description

Returns TRUE/FALSE if the R session is running within Rgui or not.

### Usage

```
is.Rgui(...)
```

**Arguments**

... none are available.

**Details**

This function is used in order to check if a GUI can be added to the session or not.

**Value**

Returns TRUE/FALSE if the R session is running within Rgui or not.

**See Also**

[is.RStudio](#), [is.windows](#)

**Examples**

```
## Not run:  
is.Rgui()  
  
## End(Not run)
```

---

is.RStudio

*Checks if the R session is running within RStudio*

---

**Description**

Returns TRUE/FALSE if the R session is running within RStudio or not.

**Usage**

```
is.RStudio(...)
```

**Arguments**

... none are available.

**Details**

This function is used in order to check if a GUI can be added to the session or not.

**Value**

Returns TRUE/FALSE if the R session is running within RStudio or not.



**Examples**

```
## Not run:  
is.RStudio()  
  
## End(Not run)
```

---

is.windows	<i>Checks if the running OS is windows</i>
------------	--

---

**Description**

Returns TRUE/FALSE if the R session is running on Windows or not.

**Usage**

```
is.windows(...)
```

**Arguments**

... none are available.

**Details**

This function is run when the 'installr' package is first loaded in order to check if the current running OS is Windows. If you are running a different OS, then the installr package (at its current form) does not have much to offer you.

**Value**

Returns TRUE/FALSE if the R session is running on Windows or not.

**Examples**

```
## Not run:  
is.windows() # returns TRUE on my machine.  
  
## End(Not run)
```

---

`is.x64`*Checks if the running OS is x64*

---

**Description**

Returns TRUE/FALSE if the R session is running on Windows 64-bit or not.

**Usage**

```
is.x64(...)
```

**Arguments**

```
...           none are available.
```

**Details**

This function is run when the 'installr' package is first loaded in order to check if the current running OS is Windows 64-bit. If you are running a different OS, then the installr package (at its current form) does not have much to offer you.

**Value**

Returns TRUE/FALSE if the R session is running on Windows 64-bit or not.

**Examples**

```
## Not run:  
is.x64() # returns TRUE on my machine.  
  
## End(Not run)
```

---

`is_in_First_in_Rprofile.site`*Remove a code line from Rprofile.site .First*

---

**Description**

Goes through

**Usage**

```
is_in_First_in_Rprofile.site(code, fixed = TRUE, ...)
```

**Arguments**

code	A character scalar with code to add at the beginning of the .First function in Rprofile.site
fixed	passed to <a href="#">grep</a>
...	passed to <a href="#">grep</a>

**Value**

logical, if code is in Rprofile.site or not.

**References**

<http://stackoverflow.com/questions/1395301/how-to-get-r-to-recognize-your-working-directory-as-its>  
<http://stackoverflow.com/questions/1189759/expert-r-users-whats-in-your-rprofile>  
<http://www.noamross.net/blog/2012/11/2/rprofile.html> <http://www.statmethods.net/interface/customizing.html>

**Examples**

```
## Not run:
is_in_.First_in_Rprofile.site("suppressMessages(library(installr))") # FALSE
add_to_.First_in_Rprofile.site("suppressMessages(library(installr))")
is_in_.First_in_Rprofile.site("suppressMessages(library(installr))") # TRUE
remove_from_.First_in_Rprofile.site("suppressMessages(library(installr))")
is_in_.First_in_Rprofile.site("suppressMessages(library(installr))") # FALSE
# this would still leave .First

## End(Not run)
```

---

kill\_all\_Rscript\_s      *kill (i.e.: stop) all running "Rscript" processes*

---

**Description**

kill (i.e.: stop) all running "Rscript" processes based on their process ID (pid)

**Usage**

```
kill_all_Rscript_s(s = 0, m = 0, h = 0, ...)
```

**Arguments**

s	numeric. number of seconds to wait before killing the processes
m	numeric. number of minutes to wait before killing the processes
h	numeric. number of hours to wait before killing the processes
...	not used.

**Value**

an integer vector with the process ID (pid) of the "Rscript" processes.

**References**

tasklist details from microsoft homepage: <http://technet.microsoft.com/en-us/library/bb491010.aspx> pskill details from microsoft homepage: <http://technet.microsoft.com/en-us/sysinternals/bb896683.aspx>

**See Also**

[get\\_tasklist](#), [get\\_Rscript\\_PID](#), [get\\_pid](#), [kill\\_pid](#), [kill\\_all\\_Rscript\\_s](#), [pskill](#)

**Examples**

```
## Not run:
# create several running processes of Rscript (to shutdown)
system("Rscript -e repeat{2+2}", wait = FALSE) # this process should be stuck
system("Rscript -e repeat{2+2}", wait = FALSE) # this process should be stuck
# here are there pid numbers:
get_Rscript_PID()
# let's kill them:
kill_all_Rscript_s()
# they are gone...
get_Rscript_PID() # we no longer have Rscripts running

## End(Not run)
```

---

kill\_pid

*kill (i.e.: stop) running processes by there pid*

---

**Description**

kill (i.e.: stop) running processes by there pid. It spawns a new Rscript which runs [pskill](#) on the pid-s

**Usage**

```
kill_pid(pid, s = 0, m = 0, h = 0, ...)
```

**Arguments**

pid	an integer vector with process id numbers (i.e.: can kill severa pid at once!)
s	numeric. number of seconds to wait before killing the processes
m	numeric. number of minutes to wait before killing the processes
h	numeric. number of hours to wait before killing the processes
...	not used.

**Value**

output from system

**References**

tasklist details from microsoft homepage: <http://technet.microsoft.com/en-us/library/bb491010.aspx> pskill details from microsoft homepage: <http://technet.microsoft.com/en-us/sysinternals/bb896683.aspx>

**See Also**

[get\\_tasklist](#), [get\\_Rscript\\_PID](#), [get\\_pid](#), [kill\\_pid](#), [kill\\_all\\_Rscript\\_s](#), [pskill](#)

**Examples**

```
## Not run:
# create several running processes of Rscript (to shutdown)
system("Rscript -e repeat{2+2}", wait = FALSE) # this process should be stuck
system("Rscript -e repeat{2+2}", wait = FALSE) # this process should be stuck
# here are there pid numbers:
get_Rscript_PID()
# let's kill them:
kill_pid(get_Rscript_PID())
# they are gone...
get_Rscript_PID() # we no longer have Rscripts running

## End(Not run)
```

---

kill_process	<i>kill (i.e.: stop) running processes by there process name</i>
--------------	--

---

**Description**

kill (i.e.: stop) running processes by there process name It spawns a new Rscript which runs [pskill](#) on the pid-s per process name.

**Usage**

```
kill_process(process, s = 0, m = 0, h = 0, exact = FALSE, ...)
```

**Arguments**

process	a character vector of process names.
s	numeric. number of seconds to wait before killing the processes
m	numeric. number of minutes to wait before killing the processes
h	numeric. number of hours to wait before killing the processes
exact	logical (FALSE). should we get exact match to process name, or can we use just partial matching.
...	not used.

**Value**

output from system

**References**

tasklist details from microsoft homepage: <http://technet.microsoft.com/en-us/library/bb491010.aspx> pskill details from microsoft homepage: <http://technet.microsoft.com/en-us/sysinternals/bb896683.aspx>

**See Also**

[get\\_tasklist](#), [get\\_Rscript\\_PID](#), [get\\_pid](#), [kill\\_pid](#), [kill\\_all\\_Rscript\\_s](#), [pskill](#)

**Examples**

```
## Not run:
# create several running processes of Rscript (to shutdown)
system("Rscript -e repeat{2+2}", wait = FALSE) # this process should be stuck
system("Rscript -e repeat{2+2}", wait = FALSE) # this process should be stuck
# here are there pid numbers:
get_Rscript_PID()
# let's kill them:
kill_process("Rscript")
# they are gone...
get_Rscript_PID() # we no longer have Rscripts running

## End(Not run)
```

---

lineplot\_package\_downloads

*barplot for the number of users installation of a package*

---

**Description**

This function gets a vector of package names, and returns a line plot of number of downloads for these packages per week.

**Usage**

```
lineplot_package_downloads(pkg_names, dataset, by_time = c("date",
  "week"), ...)
```

**Arguments**

`pkg_names` a character vector of packages we are interested in checking.  
`dataset` a dataset output from running [read\\_RStudio\\_CRAN\\_data](#), after going through [format\\_RStudio\\_CRAN\\_data](#).

by_time	by what time frame should packages be plotted? defaults to "date", but can also be "week"
...	not in use.

### Details

RStudio maintains its own CRAN mirror, <https://cran.rstudio.com/> and offers its log files.

### Value

invisible aggregated data that was used for the plot

### Author(s)

Felix Schonbrodt, Tal Galili

### Source

<http://www.nicebread.de/finally-tracking-cran-packages-downloads/>

### See Also

[download\\_RStudio\\_CRAN\\_data](#), [read\\_RStudio\\_CRAN\\_data](#), [barplot\\_package\\_users\\_per\\_day](#)

### Examples

```
## Not run:
# The first two functions might take a good deal of time to run (depending on the date range)
RStudio_CRAN_data_folder <-
  download_RStudio_CRAN_data(START = '2013-04-02',
                             END = '2013-04-05')
                             # around the time R 3.0.0 was released
my_RStudio_CRAN_data <- read_RStudio_CRAN_data(RStudio_CRAN_data_folder)
my_RStudio_CRAN_data <- format_RStudio_CRAN_data(my_RStudio_CRAN_data)
head(my_RStudio_CRAN_data)
lineplot_package_downloads(pkg_names = c("ggplot2", "reshape", "plyr", "installr"),
                           dataset = my_RStudio_CRAN_data)

# older plots:
# barplots: (more functions can easily be added in the future)
barplot_package_users_per_day("installr", my_RStudio_CRAN_data)
barplot_package_users_per_day("plyr", my_RStudio_CRAN_data)

## End(Not run)
```

load\_installr\_on\_startup

*Have the installr package load on startup*

---

### Description

Load installr on startup.

### Usage

```
load_installr_on_startup(...)
```

### Arguments

... not used. (but good for future backward compatibility)

### Value

invisible(NULL)

### References

<http://stackoverflow.com/questions/1395301/how-to-get-r-to-recognize-your-working-directory-as-its>  
<http://stackoverflow.com/questions/1189759/expert-r-users-whats-in-your-rprofile>  
<http://www.noamross.net/blog/2012/11/2/rprofile.html> <http://www.statmethods.net/interface/customizing.html>

### Examples

```
## Not run:  
load_installr_on_startup()  
  
## End(Not run)
```

---

most\_downloaded\_packages

*Most downloaded packages*

---

### Description

Gives the top "x" most downloaded packages.

### Usage

```
most_downloaded_packages(dataset, n = 6L, ...)
```



## Arguments

dataset	a dataset output from running <a href="#">read_RStudio_CRAN_data</a> , after going through <a href="#">format_RStudio_CRAN_data</a> .
n	the number of top packages to show.
...	not in use.

## Details

RStudio maintains its own CRAN mirror, <https://cran.rstudio.com/> and offers its log files.

## Value

a table of top packages by downloads (a numeric vector with packages as names)

## Source

<http://www.nicebread.de/finally-tracking-cran-packages-downloads/>

## See Also

[download\\_RStudio\\_CRAN\\_data](#), [read\\_RStudio\\_CRAN\\_data](#), [barplot\\_package\\_users\\_per\\_day](#)

## Examples

```
## Not run:
# The first two functions might take a good deal of time to run (depending on the date range)
RStudio_CRAN_data_folder <-
  download_RStudio_CRAN_data(START = '2013-04-02',
                             END = '2013-04-05')
  # around the time R 3.0.0 was released
my_RStudio_CRAN_data <- read_RStudio_CRAN_data(RStudio_CRAN_data_folder)
my_RStudio_CRAN_data <- format_RStudio_CRAN_data(my_RStudio_CRAN_data)
head(my_RStudio_CRAN_data)
most_downloaded_packages(my_RStudio_CRAN_data)

top_packages <- names(most_downloaded_packages(my_RStudio_CRAN_data))
lineplot_package_downloads(pkg_names = top_packages, dataset = my_RStudio_CRAN_data)

## End(Not run)
```

---

`myip`*What is my IP*

---

**Description**

Retrieving your public IP via <https://api.ipify.org>. (old solution used: <http://api.exip.org/> based on <http://stackoverflow.com/questions/3097589/getting-my-public-ip-via-api>)

**Usage**

```
myip(...)
```

**Arguments**

```
...          not in use
```

**Value**

your current ip (character string)

**Source**

<https://api.ipify.org>

**See Also**

[freegeoip](#), [myip](#), [cranometer](#)

**Examples**

```
## Not run:  
myip() # "37.132.25.15"  
  
## End(Not run)
```

---

`os.hibernate`*Hibernate the operating system (Windows) through a shell command*

---

**Description**

This Hibernates Windows after set amount of time.

**Usage**

```
os.hibernate(s = 0, m = 0, h = 0, first_turn_hibernate_on = TRUE)
```

**Arguments**

s	time to wait before shutting down (in seconds), added to m and h; passed to <a href="#">Sys.sleep</a>
m	time to wait before shutting down (in minutes), added to s and h; passed to <a href="#">Sys.sleep</a>
h	time to wait before shutting down (in hours), added to s and m; passed to <a href="#">Sys.sleep</a>
first_turn_hibernate_on	default is TRUE. This runs "powercfg -hibernate on" in order to turn hibernate on, in cases where it was off.

**Value**

The status code of [shell](#).

**Author(s)**

Tal Galili

**References**

<http://superuser.com/questions/42124/how-can-i-put-the-computer-to-sleep-from-command-prompt-run-m>  
, <http://www.howtogeek.com/howto/windows-vista/quick-tip-create-shutdown-restart-lock-icons-in-windo>

**See Also**

[system](#), [shell](#), [Sys.sleep](#), [is.windows](#), [os.shutdown](#), [os.sleep](#), [os.hibernate](#), [os.lock](#), [os.restart](#)

**Examples**

```
## Not run:  
## when your code is extremely time-consuming,  
# you may need this function to run at the  
# end of the simulation.  
os.hibernate()  
  
## End(Not run)
```

---

os.lock

*Locks the operating system (Windows) through a shell command*

---

**Description**

This locks Windows after set amount of time.

**Usage**

```
os.lock(s = 0, m = 0, h = 0)
```

### Arguments

s	time to wait before shutting down (in seconds), added to m and h; passed to <a href="#">Sys.sleep</a>
m	time to wait before shutting down (in minutes), added to s and h; passed to <a href="#">Sys.sleep</a>
h	time to wait before shutting down (in hours), added to s and m; passed to <a href="#">Sys.sleep</a>

### Value

The status code of [shell](#).

### Author(s)

Tal Galili

### References

<http://superuser.com/questions/42124/how-can-i-put-the-computer-to-sleep-from-command-prompt-run-m>  
, <http://www.howtogeek.com/howto/windows-vista/quick-tip-create-shutdown-restart-lock-icons-in-wind>

### See Also

[system](#), [shell](#), [Sys.sleep](#), [is.windows](#), [os.shutdown](#), [os.sleep](#), [os.hibernate](#), [os.lock](#), [os.restart](#)

### Examples

```
## Not run:  
## when your code is extremely time-consuming,  
# you may need this function to run at the  
# end of the simulation.  
os.lock()  
  
## End(Not run)
```

---

os.manage	<i>Gives managing option to the current OS (shutdown, restart, sleep, hibernate, etc...)</i>
-----------	--

---

### Description

A central function to run functions for shutting down, restarting, sleeping (etc.) your computer. This will run these functions immediately.

### Usage

```
os.manage(GUI = TRUE, ask = TRUE, ...)
```

**Arguments**

GUI	a logical indicating whether a graphics menu should be used if available. If TRUE, and on Windows, it will use winDialog, otherwise it will use <a href="#">menu</a> .
ask	a logical indicating whether to ask the user for the number of minutes in which to perform the operation.
...	not in use

**Value**

The status code of [system](#).

**References**

<http://superuser.com/questions/42124/how-can-i-put-the-computer-to-sleep-from-command-prompt-run-m>, <http://www.howtogeek.com/howto/windows-vista/quick-tip-create-shutdown-restart-lock-icons-in-wind>

**See Also**

[system](#), [shell](#), [Sys.sleep](#), [is.windows](#), [os.shutdown](#), [os.sleep](#), [os.hibernate](#), [os.lock](#), [os.restart](#)

**Examples**

```
## Not run:
## when your code is extremely time-consuming,
## you may need this function;
## e.g. you wish to go to sleep,
## while keeping R running with a long computation...
## complex graphics... and long long computation...
## at last,
os.manage()
## the next day you wake up, "thank you, R" :)

## End(Not run)
```

---

os.restart

*Restarts the operating system (Windows) through a shell command*


---

**Description**

This restarts Windows after set amount of time.

**Usage**

```
os.restart(s = 0, m = 0, h = 0)
```

**Arguments**

s	time to wait before shutting down (in seconds), added to m and h; passed to <a href="#">Sys.sleep</a>
m	time to wait before shutting down (in minutes), added to s and h; passed to <a href="#">Sys.sleep</a>
h	time to wait before shutting down (in hours), added to s and m; passed to <a href="#">Sys.sleep</a>

**Value**

The status code of [shell](#).

**Author(s)**

Tal Galili

**References**

<http://superuser.com/questions/42124/how-can-i-put-the-computer-to-sleep-from-command-prompt-run-m>  
, <http://www.howtogeek.com/howto/windows-vista/quick-tip-create-shutdown-restart-lock-icons-in-wind>

**See Also**

[system](#), [shell](#), [Sys.sleep](#), [is.windows](#), [os.shutdown](#), [os.sleep](#), [os.hibernate](#), [os.lock](#), [os.restart](#)

**Examples**

```
## Not run:  
os.restart()  
  
## End(Not run)
```

---

os.shutdown

*Shut down the operating system with the command 'shutdown'*

---

**Description**

There is a command shutdown in both Windows and Linux, and this function uses it to shut down a computer.

After the time wait has passed, R will execute `shutdown -s -t 0` (for Windows) or `shutdown -h now` to shut down the computer.

This function is a modified version of Yihui's shutdown function from the fun package.

**Usage**

```
os.shutdown(s = 0, m = 0, h = 0)
```

**Arguments**

s	time to wait before shutting down (in seconds), added to m and h; passed to <a href="#">Sys.sleep</a>
m	time to wait before shutting down (in minutes), added to s and h; passed to <a href="#">Sys.sleep</a>
h	time to wait before shutting down (in hours), added to s and m; passed to <a href="#">Sys.sleep</a>

**Value**

The status code of [system](#).

**Author(s)**

Yihui Xie <<http://yihui.name>>, and Tal Galili

**References**

<https://github.com/yihui/fun/blob/master/R/shutdown.R>

**See Also**

[system](#), [shell](#), [Sys.sleep](#), [is.windows](#), [os.shutdown](#), [os.sleep](#), [os.hibernate](#), [os.lock](#), [os.restart](#)

**Examples**

```
## Not run:  
## when your code is extremely time-consuming,  
# you may need this function;  
# e.g. you wish to go to sleep, while keeping R running long computation...  
  
os.shutdown()  
## the next day you wake up, "thank you, R" :)  
  
## End(Not run)
```

---

os.sleep

*Sleeps the operating system (Windows) through a shell command*

---

**Description**

This sleeps Windows after set amount of time.

**Usage**

```
os.sleep(s = 0, m = 0, h = 0, first_turn_hibernate_off = TRUE)
```

### Arguments

- s time to wait before shutting down (in seconds), added to m and h; passed to [Sys.sleep](#)
- m time to wait before shutting down (in minutes), added to s and h; passed to [Sys.sleep](#)
- h time to wait before shutting down (in hours), added to s and m; passed to [Sys.sleep](#)

first\_turn\_hibernate\_off

The command `rundll32.exe powrprof.dll,SetSuspendState 0,1,0` for sleep is correct - however, it will hibernate instead of sleep if you don't turn the hibernation off. I'm not sure this is true, but that's what is explained in the [linke](#) (see bellow)

### Value

The status code of [shell](#).

### Author(s)

Tal Galili

### References

<http://superuser.com/questions/42124/how-can-i-put-the-computer-to-sleep-from-command-prompt-run-m>  
[, http://www.howtogeek.com/howto/windows-vista/quick-tip-create-shutdown-restart-lock-icons-in-wind](http://www.howtogeek.com/howto/windows-vista/quick-tip-create-shutdown-restart-lock-icons-in-wind)  
<http://superuser.com/a/135450/28536>

### See Also

[system](#), [shell](#), [Sys.sleep](#), [is.windows](#), [os.shutdown](#), [os.sleep](#), [os.hibernate](#), [os.lock](#), [os.restart](#)

### Examples

```
## Not run:  
## when your code is extremely time-consuming,  
# you may need this function to run at the end of  
# the simulation.  
os.sleep()  
  
## End(Not run)
```



---

package_authors	<i>Access (and clean) author elements from R's Rd file</i>
-----------------	--

---

### Description

Find authors.

### Usage

```
package_authors(package, to_strsplit = TRUE, split = c(",|and"),
  to_table = FALSE, ...)
```

### Arguments

package	a character string of the package we are interested in.
to_strsplit	logical (TRUE). Should the authors strings be split (in cases of a "and" or a comma ",")?
split	a character scalar to be passed to <a href="#">strsplit</a> split paramter. default is c(", and")
to_table	logical (FALSE). Should the authors strings be listed in a table - showing a count of how many .Rd files they were listed in? If not - a unique list is produced.
...	not used.

### Details

List authors for a package from its "author" tag elements from its Rd files. The function also separate lists of authors, and cleans the output a bit (from spaces at the beginning of the strings).

### Value

a character vector with a package authors (as extracted from the author tag in the .Rd files)

### References

Useful for updating your DESCRIPTION file:

<https://cran.r-project.org/doc/manuals/R-exts.html#The-DESCRIPTION-file>

### See Also

[fetch\\_tag\\_from\\_Rd](#)

**Examples**

```
## Not run:

# before:
fetch_tag_from_Rd("installr", "\\author")
# after:
package_authors("installr")
sort(package_authors("installr")) # sorted name list...

## From the top R packages list:
## http://www.r-statistics.com/2013/06/top-100-r-packages-for-2013-jan-may/
package_authors("plyr")
package_authors("digest")
package_authors("ggplot2")
package_authors("colorspace")
package_authors("stringr") # empty string.

package_authors("knitr")
package_authors("MASS")
package_authors("rpart")
package_authors("Rcpp")

## End(Not run)
```

---

pkgDNLs\_worldmapcolor *Worldmap colored by the number of downloads for a given package*

---

**Description**

Plots a worldmap colored by the number of users installation for a given package

**Usage**

```
pkgDNLs_worldmapcolor(pkg_name, dataset, remove_dups = TRUE, ...)
```

**Arguments**

pkg_name	a character string of the package we are interested in.
dataset	a dataset output from running <a href="#">read_RStudio_CRAN_data</a> .
remove_dups	logical (default is TRUE). Should the duplicate user ids (based on their ips) be removed.
...	not in use.

**Details**

RStudio maintains its own CRAN mirror, <https://cran.rstudio.com/> and offers its log files.

**Value**

a ggplot object

**Author(s)**

Boris Hejblum

**Source**

<http://www.nicebread.de/finally-tracking-cran-packages-downloads/>

**See Also**

[download\\_RStudio\\_CRAN\\_data](#), [read\\_RStudio\\_CRAN\\_data](#), [barplot\\_package\\_users\\_per\\_day](#), [ggplot](#)

**Examples**

```
## Not run:
# The first two functions might take a good deal of time to run (depending on the date range)
RStudio_CRAN_data_folder <-
  download_RStudio_CRAN_data(START = '2013-04-02',
                             END = '2013-04-05')
                             # around the time R 3.0.0 was released
my_RStudio_CRAN_data <- read_RStudio_CRAN_data(RStudio_CRAN_data_folder)
head(my_RStudio_CRAN_data)

wm <- pkgDNLS_worldmapcolor(pkg_name="installr", dataset = my_RStudio_CRAN_data)
wm

## End(Not run)
```

---

read\_RStudio\_CRAN\_data

*Reads RStudio CRAN mirror data files from a folder*

---

**Description**

This function reads files downloaded from the download page (<http://cran-logs.rstudio.com/>).

This function relies on data.table to run faster. WARNING: this function can be quite slow...

**Usage**

```
read_RStudio_CRAN_data(log_folder = tempdir(), use_data_table = TRUE,
  packages, ...)
```

**Arguments**

log_folder	the folder which contains the RStudio CRAN log files that were downloaded to. Default is the temporary folder picked by <a href="#">tempdir</a> .
use_data_table	default is TRUE. A switch for whether or not to use the data.table package in order to merge the log files using rbindlist. This function is MUCH faster than the alternative.
packages	a character vector containing the names of packages for which information is extracted. If not specified, all packages are included, but this can cause out-of-memory problems if there are many log files.
...	not in use.

**Details**

RStudio maintains its own CRAN mirror, <https://cran.rstudio.com/> and offers its log files.

**Value**

Returns the combined data file.

**Author(s)**

Felix Schonbrodt, Tal Galili

**Source**

<http://www.nicebread.de/finally-tracking-cran-packages-downloads/>

**See Also**

[download\\_RStudio\\_CRAN\\_data](#), [read\\_RStudio\\_CRAN\\_data](#), [barplot\\_package\\_users\\_per\\_day](#)

**Examples**

```
## Not run:
# The first two functions might take a good deal of time to run (depending on the date range)
RStudio_CRAN_data_folder <-
  download_RStudio_CRAN_data(START = '2013-04-02',
                             END = '2013-04-05')
                             # around the time R 3.0.0 was released
my_RStudio_CRAN_data <- read_RStudio_CRAN_data(RStudio_CRAN_data_folder)

# barplots: (more functions can easily be added in the future)
barplot_package_users_per_day("installr", my_RStudio_CRAN_data)
barplot_package_users_per_day("plyr", my_RStudio_CRAN_data)

## End(Not run)
```

---

```
remove.installr.GUI Removes the menu based GUI for updating R within Rgui
```

---

**Description**

Removes the menu based GUI for updating R within Rgui.

**Usage**

```
remove.installr.GUI()
```

**Details**

This function is used during .Last.lib to remove the menus for the installr package in Rgui.

**Value**

```
invisible(NULL)
```

**Examples**

```
## Not run:
add.installr.GUI() # add menus
remove.installr.GUI() # remove them

## End(Not run)
```

---

```
remove_from_.First_in_Rprofile.site
Remove a code line from Rprofile.site .First
```

---

**Description**

Goes through Rprofile.site text, finds a line of code - and removes it.

**Usage**

```
remove_from_.First_in_Rprofile.site(code, fixed = TRUE, ...)
```

**Arguments**

code	A character scalar with code to add at the beginning of the .First function in Rprofile.site
fixed	passed to <a href="#">grep</a>
...	passed to <a href="#">grep</a>

**Value**

logical. Did we remove that line or not (in case it was not there)

**References**

<http://stackoverflow.com/questions/1395301/how-to-get-r-to-recognize-your-working-directory-as-its>  
<http://stackoverflow.com/questions/1189759/expert-r-users-whats-in-your-rprofile>  
<http://www.noamross.net/blog/2012/11/2/rprofile.html> <http://www.statmethods.net/interface/customizing.html>

**Examples**

```
## Not run:
is_in_.First_in_Rprofile.site("suppressMessages(library(installr))") # FALSE
add_to_.First_in_Rprofile.site("suppressMessages(library(installr))")
is_in_.First_in_Rprofile.site("suppressMessages(library(installr))") # TRUE
remove_from_.First_in_Rprofile.site("suppressMessages(library(installr))")
is_in_.First_in_Rprofile.site("suppressMessages(library(installr))") # FALSE
# this would still leave .First

## End(Not run)
```

---

rename\_r\_to\_R

*Rename files' extensions in a folder from .r to .R*

---

**Description**

Rename files' extensions in a folder from .r to .R.

**Usage**

```
rename_r_to_R(subdir = ".", recursive = FALSE, message = TRUE,
  text_to_find = "\\r$", new_extension = ".R", ...)
```

**Arguments**

subdir	(character) sub folder from the current working directoryl in which the files should be changed. Default is "".
recursive	(logical) FALSE. Should the function keep going into folders and check them as well?
message	(logical) should we output how many files were changed. (default is FALSE)
text_to_find	old file extension (should have \$ at the end!)
new_extension	new file extension...
...	not used.

**Details**

This came after a discussion with Hadley, JJ, and Martin leading to the realization that since we are using the R language (and not the r language), the standard is to use .R files instead of .r

Be careful when using the recursive argument. And remember that source("miao.r") and source("miao.R") Are NOT the same...

**Value**

(integer) the number of files changed

**Examples**

```
## Not run:
rename_r_to_R() # changes only .r in the current wd
rename_r_to_R("R") # fixing the file ending inside a package directory
rename_r_to_R(recursive = TRUE) # Changes
rename_r_to_R(recursive = TRUE, message = FALSE) # Changes
# ALL of the .r files underneath the current
# working directory

# source: http://stackoverflow.com/questions/52950/how-to-make-git-ignore-changes-in-case
# First run the following in git bash:
# git config core.ignorecase false
rename_r_to_R(recursive = TRUE, text_to_find="\\.R$", new_extension = ".b")

# mmm, since it does not work nicely, you'd need to run the following:
# and commit between the two.
rename_r_to_R(recursive = TRUE, text_to_find="\\.r$", new_extension = ".b")
# commit!
rename_r_to_R(recursive = TRUE, text_to_find="\\.b$", new_extension = ".R")

## End(Not run)
```

---

 require2

*Loading Packages (and Installing them if they are missing)*


---

**Description**

require2 load add-on packages by passing it to [require](#). However, if the package is not available on the system, it will first install it (through [install.packages](#)), and only then try to load it again.

**Usage**

```
require2(package, ask = FALSE, character.only = FALSE, ...)
```

**Arguments**

package	A character of the name of a package (can also be without quotes).
ask	Should the user be asked to install the require packaged, in case it is missing? (default is FALSE)
character.only	logical (FALSE) - a logical indicating whether package or help can be assumed to be character strings. Passed to <a href="#">require</a> .
...	not used

**Value**

returns (invisibly) a logical indicating whether the required package is available.

**Examples**

```
## Not run:
a= require2("devtools")
a
a= require2(geonames)
a

## End(Not run)
```

---

 restart\_RGui

*Restart RGui from RGui*


---

**Description**

Start a new RGui session and then quits the current one.

This is a Windows only function.

**Usage**

```
restart_RGui(...)
```

**Arguments**

... passed to q()

**Value**

q(...)

**Examples**

```
## Not run:
restart_RGui()

## End(Not run)
```



---

```
rm_installr_from_startup
```

*Remove installr from startup*

---

**Description**

Have the installr package NOT load on startup

**Usage**

```
rm_installr_from_startup(...)
```

**Arguments**

... not used. (but good for future backward compatibility)

**Value**

invisible(NULL)

**References**

<http://stackoverflow.com/questions/1395301/how-to-get-r-to-recognize-your-working-directory-as-its>  
<http://stackoverflow.com/questions/1189759/expert-r-users-whats-in-your-rprofile>  
<http://www.noamross.net/blog/2012/11/2/rprofile.html> <http://www.statmethods.net/interface/customizing.html>

**Examples**

```
## Not run:  
load_installr_on_startup()  
rm_installr_from_startup()  
  
## End(Not run)
```

---

```
R_version_in_a_folder
```

*Get the version of the R installed in a folder*

---

**Description**

Get the version of the R installed in a folder based on the structure of the filename README.R-... (where ... is a version number for R). This function helps detect the version number of an R installation even if the name of the folder is not standard. If multiple versions were installed, overwriting each other, the most recent is selected.

**Usage**

```
R_version_in_a_folder(folder)
```

**Arguments**

folder            The folder for which we wish to know the R version.

**Value**

Returns a character vector of the R version (or NA, if this is not an R installation folder)

**See Also**

[get.installed.R.folders](#)

**Examples**

```
## Not run:  
R_version_in_a_folder(folder = R.home())  
# returns the version of the current R installation  
  
## End(Not run)
```

---

source.https

*Read R Code from a File in an https URL*

---

**Description**

source.https causes R to accept its input from a File in an https URL. Input is read and parsed from that file until the end of the file is reached, then the parsed expressions are evaluated sequentially in the chosen environment.

**Usage**

```
source.https(URL, ..., remove_r_file = T)
```

**Arguments**

URL            the URL of the .r file to download and source.  
...            parameters to pass to [source](#)  
remove\_r\_file   if to remove the .r file after it was sourced.

**Details**

"The easiest way to use Git on Windows." (at least so they say...)

**Value**

Nothing.

**References**

Other solutions to the source.https problem:

- Using RCurl
- devtools::source\_url
- A relevant (OLD) discussion: <http://stackoverflow.com/questions/7715723/sourcing-r-script-over-https>

**See Also**

[source](#)

**Examples**

```
## Not run:  
source.https("https://raw.githubusercontent.com/talgalili/installr/master/R/install.r")  
  
## End(Not run)
```

---

system.PATH

*Returns the search path for executable files*

---

**Description**

Returns the search path for executable files based on

**Usage**

```
system.PATH()
```

**Value**

A character vector with the search path for executable files

**References**

[http://www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/ntcmds\\_shelloverview.msp?mfr=true](http://www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/ntcmds_shelloverview.msp?mfr=true)

**Examples**

```
## Not run:  
system.PATH() #  
  
## End(Not run)
```

---

turn.number.version *Turns a vector of version-numbers back to version-character*

---

**Description**

Version Num to char

**Usage**

```
turn.number.version(number_to_dots)
```

**Arguments**

number\_to\_dots A numeric vector - of the number-version of R

**Value**

A vector of "numbers" representing the versions (for example: 2015002). The names of the vector is the original version character.

**Examples**

```
## Not run:
turn.number.version(turn.version.to.number(c("2.15.2", "2.15.2")))
turn.number.version(2015011) # "2.15.11"

## End(Not run)
```

---

turn.version.to.number  
*Turns version to number (for a vector of values)*

---

**Description**

Turns version to number (for a vector of values)

**Usage**

```
turn.version.to.number(version_with_dots)
```

**Arguments**

version\_with\_dots  
- A character vector - of the version of R (for example 2.15.2)

**Value**

A vector of "numbers" representing the versions (for example: 2015002). The names of the vector is the original version character.

**Examples**

```
## Not run:  
turn.version.to.number(c("2.15.2", "2.15.2"))  
  
## End(Not run)
```

---

```
turn.version.to.number1
```

*Turns version to number (for 1 value only)*

---

**Description**

Turns version to number (for 1 value only)

**Usage**

```
turn.version.to.number1(version_with_dots)
```

**Arguments**

```
version_with_dots
```

A character value - of the version of R (for example 2.15.2)

**Value**

A "number" representation of the version (for example: 2015002)

**See Also**

[turn.version.to.number](#)

**Examples**

```
## Not run:  
turn.version.to.number1("2.15.2")  
turn.version.to.number1("3.0.1")  
  
## End(Not run)
```

---

uninstall.packages      *uninstalls (removes) Installed Packages*

---

### Description

A wrapper for [remove.packages](#). Usefull since it also works if the package is currently loaded into the workspace.

### Usage

```
uninstall.packages(pkgs, lib, warning = TRUE, ...)
```

### Arguments

pkgs	a character vector with the names of the packages to be removed.
lib	a character vector giving the library directories to remove the packages from. If missing, defaults to the first element in <a href="#">.libPaths</a> .
warning	boolean (TRUE), should a message be printed in various cases.
...	currently ignored.

### Value

Invisible NULL

### See Also

[install.packages](#), [remove.packages](#), [install.packages.zip](#)

### Examples

```
## Not run:  
install.packages(c("reshape", "plyr"))  
require(plyr)  
uninstall.packages(c("reshape", "plyr"))  
install.packages(c("reshape", "plyr"))  
  
## End(Not run)
```

---

uninstall.R	<i>Uninstall an R version</i>
-------------	-------------------------------

---

## Description

Choose an R version to uninstall via a menubar. By default, the function allows the user to pick an R version to uninstall from a list. Also, the function can be called with using "r\_version", where multiple R versions can be supplied and all will be uninstalled.

## Usage

```
uninstall.R(r_version, GUI = TRUE)
```

## Arguments

r_version	a character vector for R versions to uninstall (the format is of the style: "2.15.3"). default is empty - resulting in a prompt message asking the user what to do.
GUI	If asking the user which R version to uninstall, should the GUI be used? (default is TRUE)

## Value

the output of [system](#) running the uninstaller

## See Also

[install.R](#), [updateR](#), [system](#)

## Examples

```
## Not run:  
uninstall.R() # choose an R version to uninstall  
uninstall.R("2.15.3") # will uninstall R 2.15.3  
uninstall.R(c("2.15.3", "2.14.0")) # will uninstall two R versions (if both exists)  
uninstall.R("10.10.0") # would pop up the menu options (until R 10.10.0 will be released :D )  
  
## End(Not run)
```

---

updateR	<i>Checks for the latest R version, and if there is a newer version of R - downloads and installs it.</i>
---------	---

---

## Description

This function performs the following steps:

- Check what is the latest R version. If the current installed R version is up-to-date, the function ends (and returns FALSE)
- If a newer version of R is available, the user is asked if to review the NEWS of the latest R version - in order to decide if to install the newest R or not.
- If the user wishes to - the function will download and install it. (you will need to press the "next" buttons on your own)
- Once the installation is done, you should press "any-key", and the function will proceed with copying all of your packages from your old (well, current) R installation, into your newer R installation.
- You can then erase all of the packages in your old R installation.
- After your packages are moved (and the old ones possibly erased), you will get the option to update all of your packages in the new version of R.
- You will be asked if to open the Rgui of your new R.
- Lastly - you can close the current session of your old R.

## Usage

```
updateR(fast = FALSE, browse_news, install_R, copy_packages,
        copy_Rprofile.site, keep_old_packages, update_packages, start_new_R,
        quit_R, print_R_versions = TRUE, GUI = TRUE,
        to_checkMD5sums = FALSE, keep_install_file = FALSE,
        download_dir = tempdir(), silent = FALSE, setInternet2 = TRUE,
        cran_mirror = "https://cran.rstudio.com/", ...)
```

## Arguments

fast	logical (default is FALSE). If TRUE, it overrides other parameters and uses a set of defaults to make the R installation as fast as possible: no news, install R, copy packages and Rprofile, keep old packages, updated packages, without quitting current R or starting the new R. don't use GUI, check MD5sums, keep installed file in the <a href="#">getwd</a> .
browse_news	if TRUE (and if there is a newer version of R) - it opens the browser to the NEWS of the latest version of R, for the user to read through
install_R	TRUE/FALSE - if to install a new version of R (if one is available). If missing (this is the default) - the user be asked if to download R or not. Of course the installation part itself (the running of the .exe file) is dependent on the user.



copy_packages	TRUE/FALSE - if to copy your packages from the old version of R to the new version of R. If missing (this is the default) - the user will be asked for his preference (he should say yes, unless he is using a global library folder).
copy_Rprofile.site	logical - if to copy your Rprofile.site from the old version of R to the new version of R. If missing (this is the default) - the user will be asked for his preference (he should say yes, unless he is using a global library folder).
keep_old_packages	- if the keep the packages in the library of the old R installation. If missing (this is the default) - the user will be asked for his preference (he should say yes, unless he is using a global library folder).
update_packages	TRUE/FALSE - if to update your packages in the new version of R (all packages will be updated without asking confirmation per package) If missing (this is the default) - the user will be asked for his preference (he should say yes, unless he is using a global library folder). This is done by calling the Rscript in the new R.
start_new_R	TRUE/FALSE - if to start the new R (Rgui) after we will quit the old R. Default is TRUE. It will try to start the 64 bit R version, if it does not exist, the 32 bit will be started. This may be less useful for people using RStudio or the likes.
quit_R	TRUE/FALSE - if to quit R after the installation and package copying or not. If missing (this is the default) - the user is asked what to do.
print_R_versions	if to tell the user what version he has and what is the latest version (default is TRUE)
GUI	a logical indicating whether a graphics menu should be used if available. If TRUE, and on Windows, it will use winDialog, otherwise it will use <a href="#">menu</a> .
to_checkMD5sums	Should we check that the new R installation has the files we expect it to (by checking the MD5 sums)? default is TRUE. It assumes that the R which was installed is the latest R version. parameter is passed to install.R()
keep_install_file	If TRUE - the installer file will not be erased after it is downloaded and run.
download_dir	A character of the directory into which to download the file. (default is <a href="#">tempdir()</a> )
silent	If TRUE - enables silent installation mode.
setInternet2	logical. Should setInternet2(TRUE) be run. (only relevant for versions of R before 3.3.0)
cran_mirror	URL of your preferred CRAN mirror. (default is <a href="https://cran.rstudio.com/">https://cran.rstudio.com/</a> )
...	Other arguments (this is currently not used in any way)

## Details

It is worth noting that the function assumes that you are installing R in the same directory as before. That is, if the old R was on: D:RR-3.0.0 then the new R will be on D:RR-3.0.1.

**Value**

a TRUE/FALSE value on whether or not R was updated.

**See Also**

[check.for.updates.R](#), [install.R](#), [copy.packages.between.libraries](#), [uninstall.R](#)

**Examples**

```
## Not run:

updateR(TRUE) # This sets "fast" to be TRUE
# # the fastest/safest upgrade option:
# install R while keeping a copy in the working directory,
# copy packages, keep old packages,
# update packages in the new installation.

updateR() # will ask you what you want at every decision.

## End(Not run)
```

---

up\_folder

*Performs "up-level" on a folder string*

---

**Description**

Gets a character vector of folder strings and returns the same vector after removing the end of the folder path.

**Usage**

```
up_folder(FOLDER, n = -1, ...)
```

**Arguments**

FOLDER	a character vector of folders
n	passed to n in function <a href="#">head</a>
...	not used.

**Value**

The name of the file in the URL

**Examples**

```
up_folder(FOLDER = c("D:/R/R-3.0.1", "D:/R/R-3.0.2", "D:/R/R-3.0.3"))
```

---

xlsx2csv	<i>Converts xls(x) to csv using VB</i>
----------	--

---

**Description**

Converts xls(x) to csv using VB script. Not that important now that we have the readxl package.

**Usage**

```
xlsx2csv(xlsx, csv, path, ...)
```

**Arguments**

xlsx	the (character) name of the xlsx (or xls) file to convert. if xlsx has a full path, it will override the path parameter.
csv	the (character) name of the csv file to convert to (default will be the name of the xlsx file)
path	the path for the files (default is the working directory).
...	ignored.

**Source**

This is based on the code from plang's answer here: <http://stackoverflow.com/questions/1858195/convert-xls-to-csv-on-command-line>

**Examples**

```
## Not run:  
  
xlsx2csv("c:/some_file.xlsx")  
  
## End(Not run)
```

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