

## External packages to export from and import to Excel (xls, xlsx) files

### Importing data from excel file:

#### 1. Package “readxl”:

Install & Load the package

```
1. install.packages("readxl")
2. library(readxl)
```

Extracting from .xlsx file

```
1. cars<-read_excel("<Location>")
2. View(cars)
```

Extracting from .xls file

```
1. univ<-read_excel("<Location>")
2. View(univ)
```

Using the file.choose() function: used to choose a file interactively

```
1. xyz<-read_xlsx(file.choose()) #read xlsx
2. View(xyz)
```

#### 2. Package “xlsx”

Install & Load the package

```
1. install.packages("xlsx")
2. library(xlsx)
```

Extracting from .xlsx file

```
1. my_data <- read.xlsx("<Location>", 1, header = T)
```

**1** is the sheet index number to be read, **header** is a logical value that can be either True or False, if True, first row values taken as column names, if False, the first row will be considered a row.

## **Exporting data to an Excel file:**

Before writing a dataset to an Excel file, it is better to set the working directory.

```
1. getwd()
2. setwd("C:\\Downloads")
```

## Using the xlsx package:

### Writing to an xlsx file

```
1. library(xlsx)
2. write.xlsx2(mtcars, "mtcars.xlsx", sheetName = "cars1", append = T)
```

### Writing to an xls file

```
1. write.xlsx2(BOD, "bod.xls", sheetName = "bod1", append = T) #write xls
```

The **sheetName** option is used for naming the sheets and **append** indicates whether to add to an existing sheet or not