

# How can I export my data from R into an Excel file format (XLSX or XLS)?

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Exporting data from R into an Excel file format (XLSX or XLS) can be done through the use of the "write.xlsx" or "write.csv" functions in R. These functions allow users to export their data into a specified Excel file format, which can then be opened and edited in Microsoft Excel. This process is useful for those who need to share or analyze their data with others who may not have R installed on their computer. It is a simple and efficient way to transfer data from R into a widely used and easily accessible format.

How to export or write data to an Excel Spreadsheet in R? You can use the `writexl` package for exporting data to Excel in XLSX format and the `openxlsx` package for both XLS and XLSX formats.

In this article, I will explain how to write or export DataFrame to an Excel spreadsheet in R using `writexl`, `openxlsx`, and `xlsx` packages. To use these packages, you need to install them first.

## 1. Quick Examples

The following are quick examples of how to write or export a DataFrame to an Excel Spreadsheet with extension `.xlsx`

```
# Quick Examples

# Write the data frame to Excel
library(writexl)
write_xlsx(df, '/Users/admin/new_file.xlsx')

# Using openxlsx package
library(openxlsx)
write.xlsx(df, '/Users/admin/new_file.xlsx')
or
write.xlsx(df, '/Users/admin/new_file.xls')

# write.xlsx() Example using colNames
write.xlsx(df, '/Users/admin/new_file.xls', colNames = TRUE)

# using xlsx package
install.packages("xlsx")
write.xlsx(df, '/Users/admin/new_file.xlsx')

# Write.xlsx() Example with sheetName
write.xlsx(df, '/Users/admin/new_file.xlsx', sheetName="Sheet1")
```

Let's create a DataFrame in R, run these examples, and capture the output.

```
# Create DataFrame
df <- data.frame(
  id = c(10,11,12,13),
  name = c('sai','ram','deepika','sahithi'),
  gender = c('M','M',NA,'F'),
  dob = as.Date(c('1990-10-02','1981-3-24','1987-6-14','1985-8-16')),
  state = c('CA','NY',NA,NA)
)
df
```

Yields below output.

	id	name	gender	dob	state
1	10	sai	M	1990-10-02	CA
2	11	ram	M	1981-03-24	NY
3	12	deepika	<NA>	1987-06-14	<NA>
4	13	sahithi	F	1985-08-16	<NA>

## 2. Export to XLSX using writexl Package

The `writexl` package in R provides functions for writing data frames to Excel files in the XLSX format. The main function for exporting data into an Excel file is `write_xlsx()` function.

### 2.1 Install writexl Package

```
# Install writexl Package
install.packages("writexl")
```

### 3.2 Syntax of write.xlsx()

Following is the **syntax of the write.xlsx()** function.

```
# Syntax of write.xlsx()
write_xlsx(data, path, col_names = TRUE, col_width = NULL, format_headers = TRUE)
```

## Arguments-

### 3.3 Export Excel in R

The `write_xlsx()` function of the `writexl` package in R is designed for writing data frames to Excel files in the XLSX format. Before going to use the function of the `writexl` package we need to install it as `install.packages("writexl")`. Once the installation is completed we move to the next step i.e. load this package as `library(writexl)`.

```
# Write the data frame to Excel
# Load writexl package
library(writexl)
write_xlsx(df, '/Users/admin/new_file.xlsx')
```

In this example, the `write_xlsx()` function is used to write the data frame `df` to an Excel file named "new\_file.xlsx" in the working directory. The default values are used for optional parameters, such as including column names (`col_names = TRUE`).

Yields below output.

id	name	gender	dob	state
10	sai	M	1990-10-02	CA
11	ram	M	1981-03-24	NY
12	deepika		1987-06-14	
13	sahithi	F	1985-08-16	

## 4. Use openxlsx Package to Write DataFrame to Excel

`openxlsx` R Package provides several features and high-level interfaces to write/export, format, and edit Excel spreadsheets or worksheets. You can use `write.xlsx()` to export DataFrame to an Excel sheet in the form of both `xlsx` and `xls` format. To use the `openxlsx` library, you need to first install it by using `install.packages('openxlsx')`. Once installation completes, load the `openxlsx` library to use this `write.xlsx()` method. To load a library in R use `library("openxlsx")`.

### 4.1 Install openxlsx Package

To install `openxlsx` package, run the below statement in R or RStudio. This installs all

dependencies as well.

```
# Install openxlsx package
install.packages("openxlsx", dependencies=TRUE)
```

## 4.2 Syntax of write.xlsx()

Following is the **syntax of the write.xlsx()** function.

```
# Syntax of write.xlsx()
write.xlsx(x, file, asTable = FALSE, overwrite = TRUE, ...)
```

### Arguments-

## 4.3 Write Excel (xlsx) in R Example

`write.xlsx()` function is used to write or export a list of DataFrames (data.frame) to an Excel spreadsheet with extension `.xlsx` or `.xls`.

```
# Load openxlsx
library(openxlsx)

# write.xlsx() Example
write.xlsx(df, '/Users/admin/new_file.xlsx', colNames = TRUE)
or
write.xlsx(df, '/Users/admin/new_file.xls', colNames = TRUE)
```

## 5. Use xlsx Package to Export Excel File

`xlsx` R Package provides the `write.xlsx()` function to write/export Excel spreadsheets or worksheets. To use the `xlsx` library, you need to first install it by using `install.packages('xlsx')`. Once installation completes, load the `xlsx` library to use this `write.xlsx()` method. To load a library in R use `library("xlsx")`.

### 5.1 Install xlsx Package

To install the `openxlsx` package, run the below statement in R or RStudio. This installs all

dependencies as well.

```
# Install xlsx package
install.packages("xlsx", dependencies=TRUE)
```

## 5.2 write.xlsx() Syntax

The following is a syntax of the `write.xlsx()` function of `xlsx` package.

```
# Syntax
write.xlsx(x,file, sheetName = "Sheet1", col.names = TRUE,
row.names = TRUE, append = FALSE, showNA = TRUE,
password = NULL
)
```

## 5.3 Write DataFrame to xlsx in R Example

The following example using `write.xlsx()` function is used to write or export a list of DataFrames (data.frame) to an Excel spreadsheet with the extension `.xlsx`.

```
# Load openxlsx
library(openxlsx)

# Write.xlsx() Example
write.xlsx(df, '/Users/admin/new_file.xlsx', sheetName="Sheet1")
```

## Conclusion

In this article, you have learned three packages `openxlsx`, `writexl`, and `xlsx` that provide the method `write.xlsx()` to export or write DataFrame to an Excel spreadsheet or worksheet.

## Related Articles

## References