

# Datenexport

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# Export Allgemein

# R's Exportformate

- In R werden offene Dateiformate bevorzugt
- Als Äquivalenz zu den `read.X()` Funktionen stehen viele `write.X()` Funktionen zur Verfügung
- Das eigene Format von R sind sog. Workspaces (`.RData`)

# Beispieldatensatz erzeugen

```
A <- c(1,2,3,4)
B <- c("A","B","C","D")

mydata <- data.frame(A,B)
```

# Überblick Daten Import/Export

```
save(mydata, file="mydata.RData")
```

# Daten in .csv Format abspeichern

```
write.csv(mydata,file="mydata.csv")
```

# Das Paket xlsx

## R xlsx package : A quick start guide to manipulate Excel files in R

[▶ AdChoices](#)[Microsoft Excel](#)[Download for Java](#)[Excel Tutorial](#)

- Install and load xlsx package
- Read an Excel file
- Write data to an Excel file

Figure 1:

```
library(xlsx)
write.xlsx(mydata,file="mydata.xlsx")
```

# Das Paket foreign

## Reading/Writing Stata (.dta) files with Foreign

*December 4, 2012*

By `is.R()`

Figure 2:



# Daten in stata Format abspeichern

```
library(foreign)  
write.dta(mydata,file="data/mydata.dta")
```

# Das Paket rio

```
install.packages("rio")
```

## Import, Export, and Convert Data Files

The idea behind `rio` is to simplify the process of importing data into R and exporting data from R. This process is, probably unnecessarily, extremely complex for beginning R users. Indeed, R supplies [an entire manual](#) describing the process of data import/export. And, despite all of that text, most of the packages described are (to varying degrees) out-of-date. Faster, simpler, packages with fewer dependencies have been created for many of the file types described in that document. `rio` aims to unify data I/O (importing and exporting) into two simple functions: `import()` and `export()` so that beginners (and experienced R users) never have to think twice (or even once) about the best way to read and write R data.

Figure 3:

# Daten als .sav abspeichern (SPSS)

```
library("rio")  
# create file to convert  
  
export(mtcars, "data/mtcars.sav")
```

# Dateiformate konvertieren

```
export(mtcars, "data/mtcars.dta")  
  
# convert Stata to SPSS  
convert("data/mtcars.dta", "data/mtcars.sav")
```

# Links Export

- Quick R für das Exportieren von Daten:
- Hilfe zum Export auf dem cran Server
- Daten aus R heraus bekommen