

# SAS To CSV USING AN R EXECUTABLE

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# 1 Pre-Requisites

- R.
- R Studio.
- Needn't have SAS installed.

# 2 Environment Setup

- Open RStudio and install `haven` and `stringr` libraries.

```
1 install.packages{"haven"}
2 install.packages{"stringr"}
```

Listing 1: Installing Libraries

- Click on **Start** and in the search box type **cmd**. **Do not hit Enter**. Right Click on the **cmd.exe** or **cmd** search result and click on **Run as administrator**. Click **Yes** when the User Account Control window pops up.
- Within the command line, type the following commands :

```
1 >ASSOC .Rexec=RScriptExecutable
2 #####And then verify your R version , if your R version is 3.3.0 the
  command will be as follows:
3 >FTYPE RScriptExecutable=C:\Program Files\R\R-3.3.0\bin\x64\Rscript.exe
  %1 %*
4 #####You can verify your R version by opening up RStudio and reading the
  console startup text. Modify the above command according to your R
  version replacing R -3.3.0 with the version of R installed on your
  system. Example If your R version is 3.2.1 then the above command
  will be:
5 >FTYPE RScriptExecutable=C:\Program Files\R\R-3.2.1\bin\x64\Rscript.exe
  %1 %*
6 #####After the above command, type in the following command into the
  command line:
7 >set PATHEXT=%PATHEXT%;.Rexec
8
```

Listing 2: Rexec Commands

- Double click on the .Rexec file. A command line window will pop up during the execution of the file, please **do not close it**. The window will remain for the duration of the execution of the R script.

### 3 R Code

```
1 ##Loading Libraries
2 library(haven) ##To read .sas7bdat files
3 library(stringr) ##To split strings
4
5 setwd(getwd()) #set working directory
6
7 ##Conversion from .sas7bdat to .csv
8 temp = list.files(pattern = "*.sas7bdat")
9 for(i in 1:length(temp)){
10   cat("Reading:", temp[i])
11   tmp.df = read_sas(temp[i])
12   assign(temp[i], tmp.df)
13   cat("\nConverting:", temp[i])
14   temp[i] <- str_split_fixed(temp[i], '.sas7bdat', 2)[1]
15   temp[i] <- paste(temp[i], "csv", sep = ".")
16   cat("\nWriting:", temp[i])
17   write.csv(tmp.df, file = temp[i], row.names = FALSE)
18   cat("\n\n")
19 }
20 cat("\nMoving Files\n")
21 target = getwd()
22 subDir <- "CSV"
23 dir.create(file.path(target, subDir), showWarnings = FALSE)
24 file.copy(from = temp, to = file.path(target, subDir), overwrite = TRUE, copy.
25           mode = TRUE)
26 file.remove(temp)
27 cat("\nAll Done. Closing")
28 sleep(10)
```

Listing 3: R Executable Code