SAS To CSV using an R executable

Neil Bardhan

July 28, 2016

1 Pre-Requisites

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

2 Environment Setup

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

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

- 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 :

```
>ASSOC .Rexec=RScriptExecutable
####And then verify your R version, if your R version is 3.3.0
####the command will be as follows:
>FTYPE RScriptExecutable=C:\Program Files\R\R-3.3.0\bin\x64\Rscript.exe  %1 %*
####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:
>FTYPE RScriptExecutable=C:\Program Files\R\R-3.2.1\bin\x64\Rscript.exe  %1 %*
####After the above command, type in the following command into the command line:
>set PATHEXT=%PATHEXT%;.Rexec
```

- 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

```
##Loading Libraries
library(haven) ##To read .sas7bdat files
library(stringr) ##To split strings

setwd(getwd()) #set working directory to current location of Rexec File

##Conversion from .sas7bdat to .csv
temp = list.files(pattern = "*.sas7bdat")
for(i in 1:length(temp)){
cat("Reading:", temp[i])
tmp.df = read_sas(temp[i])
assign(temp[i], tmp.df)
cat("\nConverting:", temp[i])
temp[i] <- str_split_fixed(temp[i], '.sas7bdat', 2)[1]
temp[i] <- paste(temp[i], "csv", sep = ".")
cat("\nWriting:", temp[i])
write.csv(tmp.df, file = temp[i], row.names = FALSE)
cat("\n\n")
}
cat("\nMoving Files\n")
target = getwd()
subDir <- "CSV"
dir.create(file.path(target, subDir), showWarnings = FALSE)
file.copy(from = temp, to = file.path(target, subDir), overwrite = TRUE,
copy.mode = TRUE)
file.remove(temp)
cat("\nAll Done. Closing")
sleep(10)
```