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## Modul 4 - Data Collection Storage and Manangement
##
## WS 2021/22 - Theresa Walter
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library(tidyverse)
# OBJEKTE ------
main Path <- paste("C:/Users/Theresa/0-Studium/ALU/Semester 1/Modul 4 Data</pre>
Collection Storage Management/Timeseries in R/Timeseries in R-1/")
start Time <- "2021-12-13 00:00:00"
end Time <- "2022-01-09 23:50:00"
# EXERCISE 1 - Prepare a consisten HOBO data file ------
#Datenimport
hobo raw all <- read.csv(paste0(main Path, "0 data raw/10760710.csv"), skip
= 1,
      header = TRUE, sep = ",")
# Selektion und Umbenennung der relevanten Spalten und speichern in neuem
Objekt
hobo raw <- data.frame(id = hobo raw all[,1], dttm = hobo raw all[,2],
       temp = hobo raw all[,3], lux = hobo raw all[,4])
write.csv(hobo raw, paste0(main Path, "/1 data processed/
10760710 short.csv"))
# Formatierung Datum aendern
hobo raw$dttm <- as.POSIXct(hobo raw$dttm, format = "%d/%m/%Y %H:%M:%S")
# Fehlende Werte?
sum(is.na(hobo raw$id))
sum(is.na(hobo_raw$dttm))
sum(is.na(hobo raw$temp))
sum(is.na(hobo raw$lux))
# entfernen letzte 7 Werte
hobo raw <- hobo raw[1:(length(hobo raw$id)-7),]
# Kuerzen auf Zeitspanne
start index <- which(hobo raw$dttm == start Time)</pre>
end index <- which(hobo raw$dttm == end Time)</pre>
hobo <- hobo_raw[start_index:end_index,]</pre>
# AUSGABE
# plot(hobo raw$dttm, hobo raw$temp)
write.csv(hobo raw, paste0(main Path, "/1 data processed/10760710.csv"),
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row.names = FALSE)
write.csv(hobo, paste0(main_Path, "/1_data_processed/10760710-kurz.csv"),
row.names = FALSE)
```