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# Example Jonathan Harrington
library(emu)
h.s=emu.query("xyz", "*", "phonetic=H")
duration=dur(h.s)
lab=substring(utt(h.s), 1, 1)
boxplot(duration ~ lab)

# save picture as png, in R console or R script
png(filename=file.path(pfad, "test.png"))
#plotting into file
boxplot(duration ~ lab)
#turning off plotting into file (so plot will pop-up again)
dev.off()

# WebMAUS database
library(emu)
webmaus.s=emu.query("webMAUS", "*", "phonetic=H")
duration=dur(webmaus.s)
#getting just the labels, no segments, maybe less confusing
wordLabels=emu.requery(webmaus.s, "phonetic", "word", justlabels=T)

##### long version
#getting first characters from labels (upper and lower case)
firstLetter = substring(wordLabels, 1,1)
#overwriting variable with all lower letters
firstLetter = tolower(firstLetter)
#getting durations from webmaus
duration = dur(webmaus.s)
#getting durations from webmaus
utterances = utt(webmaus.s)
#putting everything into the data frame
webmaus.df=data.frame(word=wordLabels, first=firstLetter, dur=duration, utt=
utterances)
head(webmaus.df)

##### short version
webmaus.df=data.frame(word=wordLabels, first=tolower(substring(wordLabels, 1,1)), dur
=dur(webmaus.s), utt=utt(webmaus.s))
head(webmaus.df)
##### plot
boxplot(webmaus.df$dur ~ webmaus.df$first)

#Example tolower
test=c("TeSt", "HalLo")
tolower(test)
```