Estimation Plots

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Load libraries

If the libraries are not installed yet, you need to install them using, for example, the command: install.packages("ggplot2"). For the Hrate package this is different, since it comes from github. The devtools library needs to be installed, and then the install_github() function is used.

```
library(ggplot2)
library(plyr)
library(ggExtra)
library(ggpubr)

##
## Attaching package: 'ggpubr'

## The following object is masked from 'package:plyr':
##
## mutate
```

Load Data

Load data table with values per text file.

```
# load estimations from stringBase corpus
estimations.df <- read.csv("~/Github/NaLaFi/results/features.csv")
#head(estimations10.df.)</pre>
```

Exclude subcorpora (if needed).

```
#selected <- c("shuffled") #estimations.df <- estimations.df[!(estimations.df$subcorpus %in% selected), ]
```

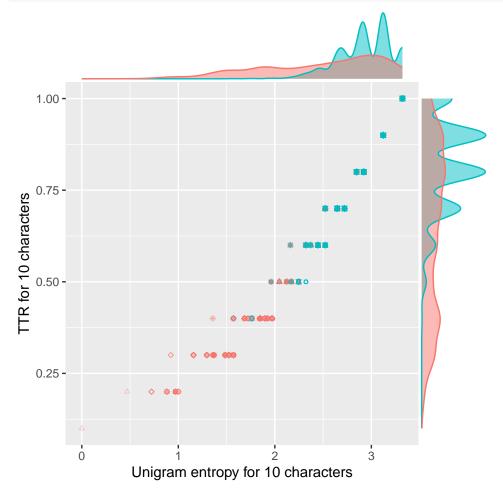
Split into separate files by length of chunks in characters.

```
estimations10.df <- estimations.df[estimations.df$num.char == 10, ]
estimations100.df <- estimations.df[estimations.df$num.char == 100, ]
estimations1000.df <- estimations.df[estimations.df$num.char == 1000,]</pre>
```

Scatterplots

10 Characters

Entropy rate vs. unigram entropy for characters



TTR vs. repetition rate for characters

100 Characters

Entropy rate vs. unigram entropy for characters

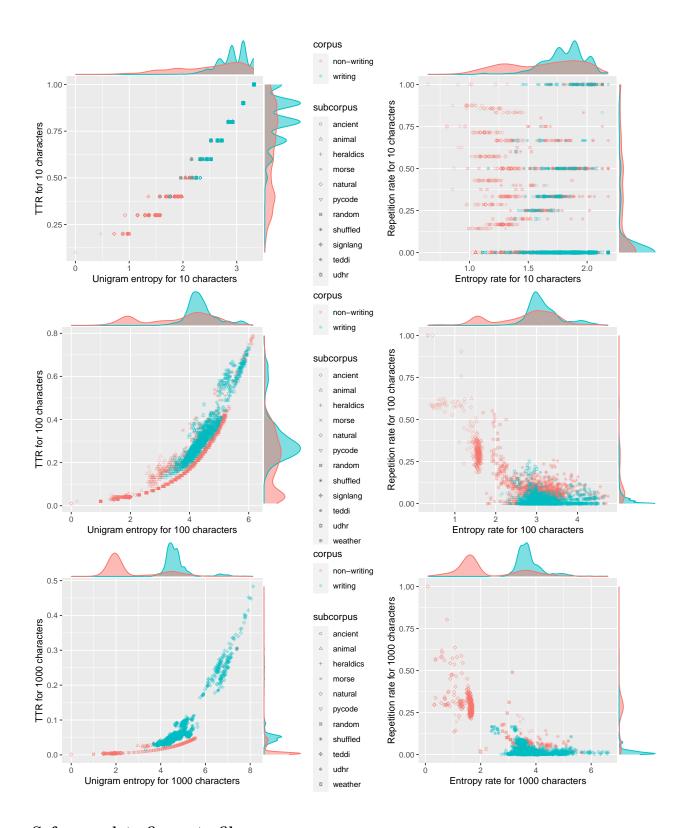
TTR vs. repetition rate for characters

1000 Characters

Entropy rate vs. unigram entropy for characters

TTR vs. repetition rate for characters

Combined Plots



Safe complete figure to file

```
ggsave("~/Github/NaLaFi/figures/plots_combined.pdf", plots.combined, width = 10,
    height = 12, dpi = 300, scale = 1, device = cairo_pdf)
```