R Notebook

Code ▼

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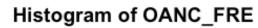
```
library(knitr)
library(readtext)
library(corpora)
library(quanteda)
library(dplyr)
```

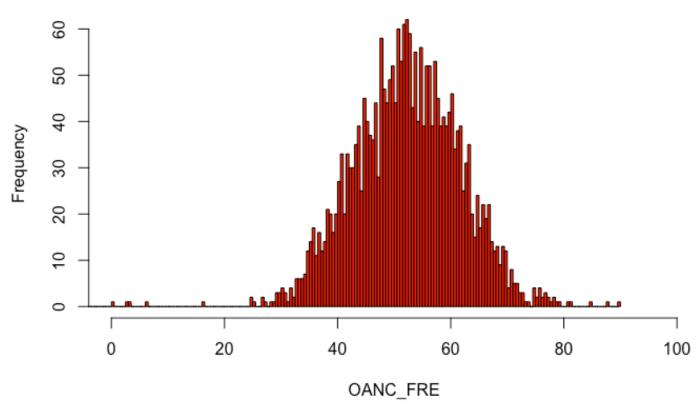
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```
#loading file
BNC <- readtext("BNC/*.txt", docvarsfrom=c("filenames"), docvarnames = "id")</pre>
BNC corpus <- corpus(BNC)
bnc docvars <- data.frame(id = docvars(BNC corpus)$id,stringsAsFactors = F)</pre>
# left join to find meta info from BNCmeta
data(BNCmeta)
df bnc docvars <- data.frame(
  id = BNCmeta["id"],
  mode = BNCmeta["mode"],
  domain = BNCmeta["domain"],
  stringAsFactors = F)
docvar_info <- left_join(bnc_docvars,df_bnc_docvars,by = c("id" = "id"))</pre>
# add docvars
docvars(BNC corpus)$mode <- df bnc docvars$mode</pre>
docvars(BNC corpus)$domain <- df bnc docvars$domain
#unique(df_bnc_docvars$domain)
BNC_sub_corpus <- corpus_subset(BNC_corpus,mode == "written")
BNC select domain <- c("social science", "world affairs", "arts", "leisure", "commerce fi
nance")
BNC sub corpus <- corpus subset(BNC sub corpus, domain %in% BNC select domain)
BNC_dfm <- dfm(BNC_sub_corpus)</pre>
```

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```
OANC <- readtext("OANC/*.txt", docvarsfrom=c("filenames"))
OANC_corpus <- corpus(OANC)
OANC_dfm <- dfm(OANC_corpus)</pre>
```





hist(OANC_FRE, breaks=1000, col="red",xlim = c(0,100))
print(length((OANC_FRE)))

[1] 2480

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print(mean(OANC_FRE))

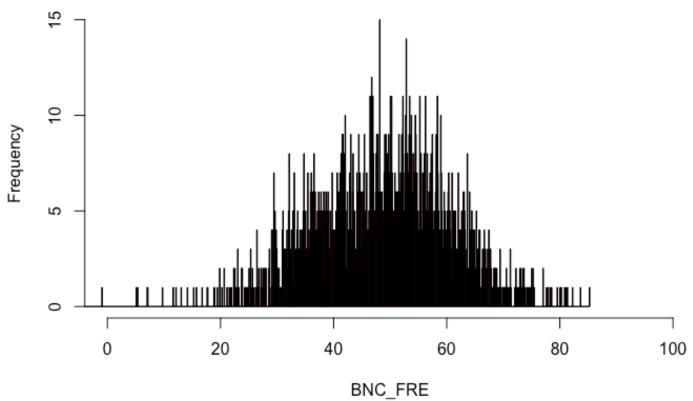
[1] 51.91524

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print(var(OANC_FRE))

[1] 154.7285





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hist(BNC_FRE, breaks=1000, col="red",xlim = c(0,100))
print(length((BNC_FRE)))

[1] 2002

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print(mean(BNC_FRE))

[1] 48.8381

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print(var(BNC_FRE))

[1] 141.0676

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t.test(BNC_FRE,OANC_FRE)

```
Welch Two Sample t-test

data: BNC_FRE and OANC_FRE

t = -8.4423, df = 4356.4, p-value < 2.2e-16

alternative hypothesis: true difference in means is not equal to 0

95 percent confidence interval:
    -3.791732 -2.362555

sample estimates:

mean of x mean of y

48.83810 51.91524
```

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BNC_dfm

Document-feature matrix of: 2,002 documents, 354,135 features (98.8% sparse).