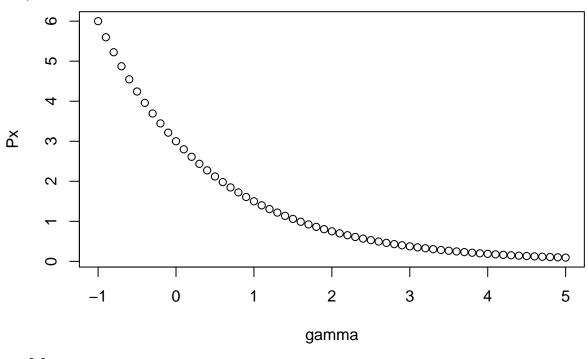
PoCS Assignment 2

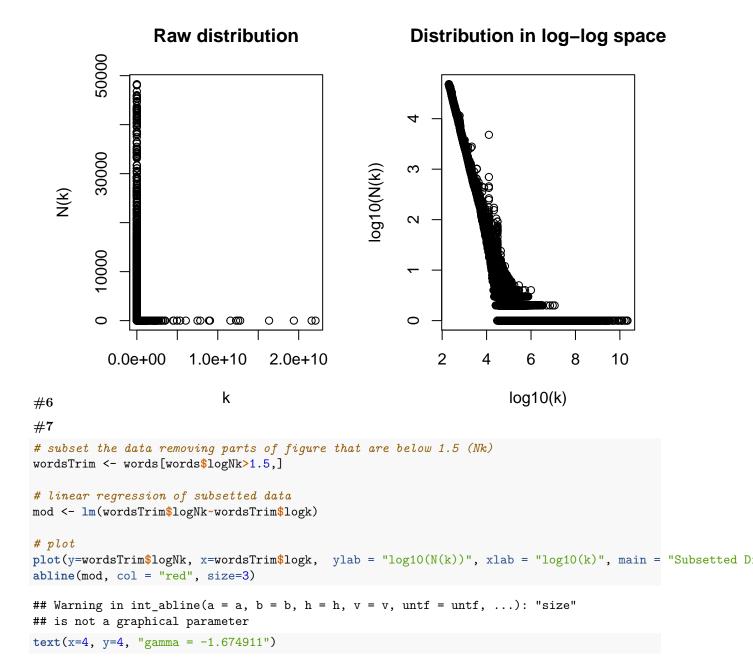
P. Alexander Burnham September 11, 2018

PoCS Assignment github repo: $\label{eq:https://github.com/alexburn17/BurnhamPoCS}$ Worked with:

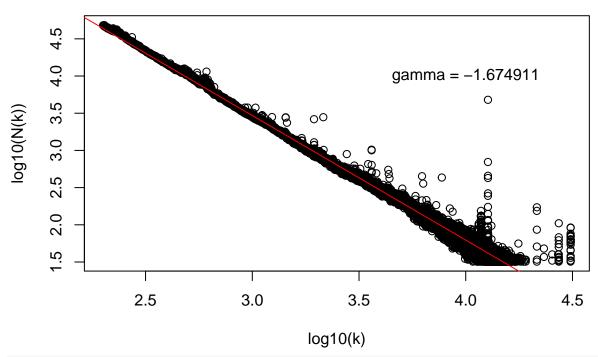




[1] 19.5929



Subsetted Dist. in log-log space



```
# summarize model: gamma = -1.674911
summary(mod)
##
```

```
## Call:
## lm(formula = wordsTrim$logNk ~ wordsTrim$logk)
##
## Residuals:
       Min
                  1Q
                      Median
                                            Max
## -0.25577 -0.03196 -0.00368 0.02729
                                        2.06061
##
## Coefficients:
                   Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                   8.493782
                              0.006223
                                          1365
                                                 <2e-16 ***
## wordsTrim$logk -1.674911
                              0.001652
                                         -1014
                                                 <2e-16 ***
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.07357 on 13991 degrees of freedom
## Multiple R-squared: 0.9866, Adjusted R-squared: 0.9866
## F-statistic: 1.027e+06 on 1 and 13991 DF, p-value: < 2.2e-16
#8
mean(words$X1)
## [1] 56.74207
sd(words$X1)
```

[1] 909.5754