subsetr

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Remove the one-offs

now let's process the ones with multiple bigrams

```
blocky <- function(trap, tim, ful_tri) {</pre>
a <- floor(nrow(tim)/100)
b <- 101
c <- a
d < -1
full_tri <- data.table()</pre>
downstream <- 0.5
for (j in 1:b)
    mid tri <- data.table()</pre>
    if(nrow(tim) - a >= c)
setkey(trixy,word2)
      for (i in d:a)
{
##setkey(trixy,bigrams)
tardis <- trixy[as.character(aggy$word2[i])]</pre>
tardis$prob <- (tardis$bi_gram_ns_ns - downstream)/aggy$sum[i]</pre>
mid_tri <- rbind(mid_tri, tardis)</pre>
##trixy <- trixy[bigrams != aggy$bigrams[i],]</pre>
##print(paste("i is ",i))
##print(paste("number of rows in trixy is ",nrow(trixy)))
}
    d < -a + 1
    a <- a + c
      }
    else {
      a <- nrow(tim)
      d \leftarrow 100*floor(nrow(tim)/100) + 1
    for (i in d:a)
{
tardis <- trixy[word2 == aggy$word2[i],]</pre>
tardis$prob <- (tardis$bi_gram_ns_ns - downstream)/aggy$sum[i]</pre>
mid_tri <- rbind(mid_tri, tardis)</pre>
trixy <- trixy[word2 != aggy$word2[i],]</pre>
}
    }
   full_tri <- rbind(full_tri, mid_tri)</pre>
return(full_tri)
```

```
combi_bi_ns_ns <- read.csv("/Users/mutecypher/Documents/Documents - Michael's iMac/Coursera/Capstone Pr
combi_bi_ns_ns <- data.table(combi_bi_ns_ns)
trixy <- combi_bi_ns_ns[combi_bi_ns_ns$bi_gram_ns_ns >= 4,]
aggy <- trixy[,.(sum = sum(bi_gram_ns_ns)), by = word2]
aggy <- aggy[aggy$sum >= 10]
aggy <- data.table(aggy)
blah <- blocky(trixy, aggy, full_tri)
write.csv(blah,file = "/Users/mutecypher/Documents/Documents - Michael's iMac/Coursera/Capstone Project
rm(trixy)
rm(aggy)
rm(combi_bi_ns_ns)
rm(blah)</pre>
```

Now the Trigrams

```
blocky <- function(trap, tim, ful_tri) {</pre>
a <- floor(nrow(tim)/100)
b <- 101
c <- a
d < -1
full_tri <- data.table()</pre>
downstream <- 0.5
for (j in 1:b)
    mid_tri <- data.table()
   if(nrow(tim) - a >= c)
setkey(trixy,bigrams)
      for (i in d:a)
{
tardis <- trixy[as.character(aggy$bigrams[i])]</pre>
tardis$prob <- (tardis$tri_gram_ns_ns - downstream)/aggy$sum[i]</pre>
mid_tri <- rbind(mid_tri, tardis)</pre>
    d < -a + 1
    a <- a + c
      }
    else {
      a <- nrow(tim)
      d \leftarrow 100*floor(nrow(tim)/100) + 1
    for (i in d:a)
tardis <- trixy[bigrams == aggy$bigrams[i],]</pre>
tardis$prob <- (tardis$tri_gram_ns_ns - downstream)/aggy$sum[i]</pre>
mid_tri <- rbind(mid_tri, tardis)</pre>
trixy <- trixy[bigrams != aggy$bigrams[i],]</pre>
}
   full_tri <- rbind(full_tri, mid_tri)</pre>
return(full_tri)
```

```
combi_tri_ns_ns <- read.csv("/Users/mutecypher/Documents/Documents - Michael's iMac/Coursera/Capstone P
combi_tri_ns_ns <- data.table(combi_tri_ns_ns)
trixy <- combi_tri_ns_ns[combi_tri_ns_ns$tri_gram_ns_ns >= 4,]
aggy <- trixy[,.(sum = sum(tri_gram_ns_ns)), by = bigrams]
aggy <- aggy[aggy$sum >= 10]
aggy <- data.table(aggy)
blah <- blocky(trixy, aggy, full_tri)
write.csv(blah,file = "/Users/mutecypher/Documents/Documents - Michael's iMac/Coursera/Capstone Project
rm(trixy)
rm(aggy)
rm(combi_tri_ns_ns)
rm(blah)</pre>
```

should run first

```
blocky <- function(trap, tim, ful_tri) {</pre>
a <- floor(nrow(tim)/100)
b <- 101
c <- a
d < -1
full_tri <- data.table()</pre>
 downstream <- 0.5
for (j in 1:b)
    mid_tri <- data.table()
    if(nrow(tim) - a \ge c)
setkey(trixy,trigrams)
      for (i in d:a)
{
tardis <- trixy[as.character(aggy$trigrams[i])]</pre>
tardis$prob <- (tardis$quad_gram_ns_ns - downstream)/aggy$sum[i]</pre>
mid_tri <- rbind(mid_tri, tardis)</pre>
    d < -a + 1
    a <- a + c
      }
    else {
      a <- nrow(tim)
      d \leftarrow 100*floor(nrow(tim)/100) + 1
    for (i in d:a)
tardis <- trixy[as.character(aggy$trigrams[i])]</pre>
tardis$prob <- (tardis$tri_gram_ns_ns - downstream)/aggy$sum[i]</pre>
mid_tri <- rbind(mid_tri, tardis)</pre>
}
   full_tri <- rbind(full_tri, mid_tri)</pre>
}
return(full_tri)
}
combi_quad_ns_ns <- read.csv("/Users/mutecypher/Documents/Documents - Michael's iMac/Coursera/Capstone</pre>
```

```
trixy <- combi_quad_ns_ns[combi_quad_ns_ns$quad_gram_ns_ns >= 4,]
aggy <- trixy[,.(sum = sum(quad_gram_ns_ns)), by = trigrams]</pre>
aggy <- aggy[aggy$sum >= 10]
aggy <- data.table(aggy)
blah <- blocky(trixy, aggy, full_tri)</pre>
write.csv(blah,file = "/Users/mutecypher/Documents/Documents - Michael's iMac/Coursera/Capstone Project
rm(trixy)
rm(aggy)
rm(combi_quad_ns_ns)
rm(blah)
Now the Quin-grams
blocky <- function(trap, tim, ful_tri) {</pre>
a <- floor(nrow(tim)/100)
b <- 100
c <- a
d < -1
full_tri <- data.table()</pre>
 downstream <- 0.5
for (j in 1:b)
    mid_tri <- data.table()
    if(nrow(tim) - a \ge c)
setkey(trixy,quadgrams)
      for (i in d:a)
{
tardis <- trixy[as.character(aggy$quadgrams[i])]</pre>
tardis$prob <- (tardis$quin_gram_ns_ns - downstream)/aggy$sum[i]</pre>
mid_tri <- rbind(mid_tri, tardis)</pre>
    d < -a + 1
    a <- a + c
      }
    else {
      a <- nrow(tim)
      d \leftarrow d \leftarrow 100*floor(nrow(tim)/100) + 1
    for (i in d:a)
tardis <- trixy[as.character(aggy$trigrams[i])]</pre>
tardis$prob <- (tardis$quad_gram_ns_ns - downstream)/aggy$sum[i]</pre>
mid_tri <- rbind(mid_tri, tardis)</pre>
}
   full_tri <- rbind(full_tri, mid_tri)</pre>
return(full tri)
}
combi_quin_ns_ns <- read.csv("/Users/mutecypher/Documents/Documents - Michael's iMac/Coursera/Capstone
combi_quin_ns_ns <- data.table(combi_quin_ns_ns)</pre>
trixy <- combi_quin_ns_ns[combi_quin_ns_ns$quin_gram_ns_ns >= 4,]
aggy <- trixy[,.(sum = sum(quin_gram_ns_ns)), by = quadgrams]</pre>
```

combi_quad_ns_ns <- data.table(combi_quad_ns_ns)</pre>

```
aggy <- aggy[aggy$sum >= 10]
aggy <- data.table(aggy)
blah <- blocky(trixy, aggy, full_tri)
write.csv(blah,file = "/Users/mutecypher/Documents/Documents - Michael's iMac/Coursera/Capstone Project
rm(trixy)
rm(aggy)
rm(combi_quin_ns_ns)
rm(blah)</pre>
```