

Lab 8

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```
packages <- c("openNLP", "sentimentr", "coreNLP", "cleanNLP", "magrittr", "NLP", "gridExtra",
              "stringr", "rvest", "doBy", "tm", "cshapes", "purrr", "dplyr", "spacyr", "tinyt
```

0.1 Deliverable 1: Get your working directory and paste below:

“/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents - Main/023. Programming Tools/R Studio/AdvTxtAnalytics”

1 Part 1: Parts of Speech (POS) Tagging in openNLP

1.1 Deliverable 2: Create Some Sample Test

```
s <- paste0(c('Pierre Vinken, 61 years old, will join the board as a ',
              'nonexecutive director Nov 29. ',
              'Mr. Vinken is chairman of Elsevier, N.V., ',
              'the Dutch publishing group.'),
            collapse = '')
s
```

```
[1] "Pierre Vinken, 61 years old, will join the board as a nonexecutive director Nov 29. Mr.
```

1.2 Deliverable 3: Create Sentence and Word Token Annotations

```
#sent_token_annotator <- openNLP::Maxent_Sent-Token_Annotator()
#word_token_annotator <- openNLP::Maxent_Word-Token_Annotator()

#a2 <- NLP::annotate(s, list(openNLP::Maxent_Sent-Token_Annotator(), openNLP::Maxent_Word-Token_Annotator())
#a2

#a3 <- NLP::annotate(s, openNLP::Maxent_Sent-Token_Annotator(), a2)
#a3
#a3w <- subset(a3, type == "word")
#a3w

#sapply(a3w$features,"[", "POS").

#tags <- sapply(a3w$features,"[", "POS")
#tags
#table(tags)
```

Every time I would run this code, my R session would terminate prematurely and reset my whole session, requiring me to re-load and library every single package. I was not able to find a solution for this, so I used an alternative method for POS tagging and moved on with the lab.

```
# download pre-trained English model
ud_model <- udpipe::udpipe_download_model(language = "english")
```

Downloading udpipe model from <https://raw.githubusercontent.com/jwijnffels/udpipe.models.ud.2.5/master/udpipe.models.ud.2.5.zip>

- This model has been trained on version 2.5 of data from <https://universaldependencies.org>
- The model is distributed under the CC-BY-SA-NC license: <https://creativecommons.org/licenses/by-sa/4.0/>
- Visit <https://github.com/jwijnffels/udpipe.models.ud.2.5> for model license details.
- For a list of all models and their licenses (most models you can download with this package)

Downloading finished, model stored at '/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/udpipe.models.ud.2.5.zip'

```
# load the model
ud_model <- udpipe::udpipe_load_model(file = ud_model$file_model)

# annotate text
anno <- udpipe::udpipe_annotate(ud_model, x = s)

# convert to a data frame
anno_df <- as.data.frame(anno)

# view POS tags
anno_df$upos
```

```
[1] "PROPN" "PROPN" "PUNCT" "NUM" "NOUN" "ADJ" "PUNCT" "AUX" "VERB"
[10] "DET" "NOUN" "ADP" "DET" "ADJ" "NOUN" "PROPN" "NUM" "PUNCT"
[19] "PROPN" "PROPN" "AUX" "NOUN" "ADP" "PROPN" "PUNCT" "PROPN" "PUNCT"
[28] "DET" "PROPN" "NOUN" "NOUN" "PUNCT"
```

```
anno_df$xpos
```

```
[1] "NNP" "NNP" ",," "CD" "NNS" "JJ" ",," "MD" "VB" "DT" "NN" "IN"
[13] "DT" "JJ" "NN" "NNP" "CD" "." "NNP" "NNP" "VBZ" "NN" "IN" "NNP"
[25] ",," "NNP" ",," "DT" "NNP" "NN" "NN" "."
```

1.3 Deliverable 3: Extract Tokens/POS Pairs

```
# create pairs structure
word_pos <- sprintf("%s/%s", anno_df$token, anno_df$xpos)

# view structure
print(word_pos)
```

```
[1] "Pierre/NNP" "Vinken/NNP" ",/,," "61/CD"
[5] "years/NNS" "old/JJ" ",/,," "will/MD"
[9] "join/VB" "the/DT" "board/NN" "as/IN"
[13] "a/DT" "nonexecutive/JJ" "director/NN" "Nov/NNP"
[17] "29/CD" "../." "Mr./NNP" "Vinken/NNP"
[21] "is/VBZ" "chairman/NN" "of/IN" "Elsevier/NNP"
[25] ",/,," "N.V./NNP" ",/,," "the/DT"
[29] "Dutch/NNP" "publishing/NN" "group/NN" "../."
```

2 Part 2: Applying Named Entity Recognition (NER) to the Clinton Email Dataset

2.1 Deliverable 4: Import Data and Organize the Clinton Email Dataset

```
tmp <- list.files(path = "/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents",  
emails <- pbapply::pblapply(tmp, readLines)
```

```
Warning in FUN(X[[i]], ...): incomplete final line found on  
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -  
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05758905.txt'
```

```
Warning in FUN(X[[i]], ...): incomplete final line found on  
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -  
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05758988.txt'
```

```
Warning in FUN(X[[i]], ...): incomplete final line found on  
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -  
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05759013.txt'
```

```
Warning in FUN(X[[i]], ...): incomplete final line found on  
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -  
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05759073.txt'
```

```
Warning in FUN(X[[i]], ...): incomplete final line found on  
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -  
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05759097.txt'
```

```
Warning in FUN(X[[i]], ...): incomplete final line found on  
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -  
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05759098.txt'
```

```
Warning in FUN(X[[i]], ...): incomplete final line found on  
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -  
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05760112.txt'
```

```
Warning in FUN(X[[i]], ...): incomplete final line found on  
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -  
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05760113.txt'
```

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05760773.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05761041.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05761346.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05761353.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05761354.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05761454.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05761908.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05762521.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05762607.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05762785.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05762831.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05762834.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05762972.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05762974.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763046.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763051.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763163.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763185.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763191.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763282.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763299.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763307.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763313.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763369.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763457.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763483.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763581.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05763792.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764448.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764489.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764576.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764577.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764578.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764579.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764580.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764581.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764582.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
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Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764779.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
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Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764792.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764890.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764900.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05764901.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05765108.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05765294.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05765319.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05765557.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05765781.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05765790.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05765793.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766132.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766147.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766257.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766259.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766262.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766267.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766268.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766270.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766305.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766361.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766365.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766533.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05766570.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05767430.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05767435.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05767983.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05767998.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05768028.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05768029.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05768141.txt'

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Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797572.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797574.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797575.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797601.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797602.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797605.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797610.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797612.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797614.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797619.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797630.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797634.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797644.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797653.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797700.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05797815.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05798022.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05798029.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05798032.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05798039.txt'

Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05798040.txt'

```
Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05798068.txt'
```

```
Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05798069.txt'
```

```
Warning in FUN(X[[i]], ...): incomplete final line found on
'/Users/coniecakes/Library/CloudStorage/OneDrive-Personal/001. Documents -
Main/023. Programming Tools/R Studio/AdvTxtAnalytics/Lab_8/data/C05798074.txt'
```

```
names(emails) <- gsub('.txt', '', list.files(pattern = '.txt'))
```

2.2 Deliverable 5: Examine the Clinton Email Dataset

```
emails[1]
```

```
$<NA>
```

```
[1] "UNCLASSIFIED U.S. Department of State Case No. F-2014-20439 Doc No. C05758905 Date: 02/20/2016"
[2] ""
[3] "RELEASE IN FULL"
[4] ""
[5] "From: Sent: To: Subject:"
[6] ""
[7] "H <hrod17@clintonemail.com > Monday, July 6, 2009 10:22 AM 'ValmoroU@state.gov' Re: Sch"
[8] ""
[9] "Either is fine w me."
[10] "Original Message From: Valmoro, Lona J <ValmoroU@state.gov> To: H Cc: Abedin, Huma <Ab"
[11] "Secretary Salazar's office just called -- he would like to meeting with you early this"
[12] ""
[13] "Lona Valmoro Special Assistant to the Secretary of State 202-647-9071 (direct)"
[14] ""
[15] "UNCLASSIFIED U.S. Department of State Case No. F-2014-20439 Doc No. C05758905 Date: 02/20/2016"
[16] ""
[17] "\\f"
```

2.3 Deliverable 6: Create a Custom Function to Clean the Emails

```
txtClean <- function(x) {  
  x <- x[-1]  
  x <- paste0(x, collapse = " ")  
  x <- stringr::str_replace_all(x, "[a-zA-Z0-9_.+-]+@[a-zA-Z0-9-]+\\.[a-zA-Z0-9-.]+", "")  
  x <- stringr::str_replace_all(x, "Doc No.", "")  
  x <- stringr::str_replace_all(x, "UNCLASSIFIED U.S. Department of State Case No.", "")  
  x <- tm::removeNumbers(x)  
  x <- toString(x)  
  return(x)  
}
```

2.4 Deliverable 7: Apply the Cleaning Function to the Clinton Email Dataset

```
txtClean(emails[[1]])[[1]]
```

```
[1] " RELEASE IN FULL From: Sent: To: Subject: H < > Monday, July , : AM '' Re: Schedule
```

```
allEmails <- pbapply::pblapply(emails,txtClean)
```

```
allEmails[[2]][[1]][1]
```

```
[1] " From: Sent: To: Subject: H < > Tuesday, July , : AM '' Re: Reminder geithner is in al
```

2.5 Deliverable 8: Apply POS Tagging to the Clinton Email Dataset

```
# load model  
ud_model <- udpipe::udpipe_load_model(file = "english-ewt-ud-2.5-191206.udpipe")  
  
# Initialize an empty list to store annotations  
annotationsData <- list()  
  
# Iterate through each cleaned email  
for (i in 1:length(allEmails)) {  
  print(paste0('Starting annotations on doc ', i))
```

```

# get the cleaned email text
email_text <- allEmails[[i]]
# annotate the email using udpipe
annotations <- udpipe::udpipe_annotate(ud_model, x = email_text)
# convert annotation to a data.frame
annDF <- as.data.frame(annotations)
# check if annDF has rows before subsetting columns
if (nrow(annDF) > 0) {
  # select only columns that exist in annDF
  columns_to_select <- intersect(c("doc_id", "paragraph_id", "sentence_id", "token_id",
                                   "token", "lemma", "upos", "xpos", "entity"),
                                colnames(annDF))

  annDF <- annDF[, columns_to_select, drop = FALSE]
} else {
  # if no annotation found, create an empty data frame
  annDF <- data.frame(doc_id = NA,
                      paragraph_id = NA,
                      sentence_id = NA,
                      token_id = NA,
                      token = NA,
                      lemma = NA,
                      upos = NA,
                      xpos = NA,
                      entity = NA)
}

# store the annotations in the list using the original email name
annotationsData[[names(allEmails)[i]]] <- annDF

print(paste0('Finished annotations on doc ', i))
}

```

```

[1] "Starting annotations on doc 1"
[1] "Finished annotations on doc 1"
[1] "Starting annotations on doc 2"
[1] "Finished annotations on doc 2"
[1] "Starting annotations on doc 3"
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[1] "Starting annotations on doc 5"

```

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[1] "Starting annotations on doc 532"
[1] "Finished annotations on doc 532"
[1] "Starting annotations on doc 533"
[1] "Finished annotations on doc 533"
[1] "Starting annotations on doc 534"
[1] "Finished annotations on doc 534"
[1] "Starting annotations on doc 535"
[1] "Finished annotations on doc 535"
[1] "Starting annotations on doc 536"
[1] "Finished annotations on doc 536"
[1] "Starting annotations on doc 537"
[1] "Finished annotations on doc 537"
[1] "Starting annotations on doc 538"
[1] "Finished annotations on doc 538"
[1] "Starting annotations on doc 539"
[1] "Finished annotations on doc 539"
[1] "Starting annotations on doc 540"
[1] "Finished annotations on doc 540"
[1] "Starting annotations on doc 541"
[1] "Finished annotations on doc 541"
[1] "Starting annotations on doc 542"
[1] "Finished annotations on doc 542"

```

[1] "Starting annotations on doc 543"
[1] "Finished annotations on doc 543"
[1] "Starting annotations on doc 544"
[1] "Finished annotations on doc 544"
[1] "Starting annotations on doc 545"
[1] "Finished annotations on doc 545"
[1] "Starting annotations on doc 546"
[1] "Finished annotations on doc 546"
[1] "Starting annotations on doc 547"
[1] "Finished annotations on doc 547"
[1] "Starting annotations on doc 548"
[1] "Finished annotations on doc 548"
[1] "Starting annotations on doc 549"
[1] "Finished annotations on doc 549"
[1] "Starting annotations on doc 550"
[1] "Finished annotations on doc 550"
[1] "Starting annotations on doc 551"
[1] "Finished annotations on doc 551"

```

```
print(head(annotationsData))
```

```
$<NA>
```

	doc_id	paragraph_id	sentence_id	token_id	token	lemma	upos	xpos
1	doc1	1	1	1	i	I	PRON	PRP
2	doc1	1	1	2	RELEASE	release	VERB	VBP
3	doc1	1	1	3	IN	in	ADP	IN
4	doc1	1	1	4	PART	part	PROPN	NNP
5	doc1	1	1	5	B,B	B,B	PROPN	NNP
6	doc1	1	1	6	From	from	ADP	IN
7	doc1	1	1	7	:	:	PUNCT	:
8	doc1	1	1	8	Sent	send	VERB	VBN
9	doc1	1	1	9	:	:	PUNCT	:
10	doc1	1	1	10	To	to	ADP	IN
11	doc1	1	1	11	:	:	PUNCT	:
12	doc1	1	1	12	Subject	subject	NOUN	NN
13	doc1	1	1	13	:	:	PUNCT	:
14	doc1	1	1	14	Abedin	Abedin	PROPN	NNP
15	doc1	1	1	15	,	,	PUNCT	,
16	doc1	1	1	16	Huma	Huma	PROPN	NNP
17	doc1	1	1	17	<>	<>	SYM	\$
18	doc1	1	2	1	Tuesday	Tuesday	PROPN	NNP
19	doc1	1	2	2	,	,	PUNCT	,

20	doc1	1	2	3	January	January	PROPN	NNP
21	doc1	1	2	4	,	,	PUNCT	,
22	doc1	1	2	5	:	:	PUNCT	:
23	doc1	1	2	6	PM	pm	NOUN	NN
24	doc1	1	2	7	H	h	X	GW
25	doc1	1	2	8	Update	update	NOUN	NN
26	doc1	1	2	9	I	I	PRON	PRP
27	doc1	1	2	10	'm	be	AUX	VBP
28	doc1	1	2	11	sorry	sorry	ADJ	JJ
29	doc1	1	2	12	you	you	PRON	PRP
30	doc1	1	2	13	are	be	AUX	VBP
31	doc1	1	2	14	tired	tired	ADJ	JJ
32	doc1	1	2	15	today	today	NOUN	NN
33	doc1	1	2	16	.	.	PUNCT	.
34	doc1	1	3	1			SYM	\$
35	doc1	1	3	2	jake	jake	NOUN	NN
36	doc1	1	3	3	is	be	AUX	VBZ
37	doc1	1	3	4	riding	ride	VERB	VBG
38	doc1	1	3	5	with	with	ADP	IN
39	doc1	1	3	6	you	you	PRON	PRP
40	doc1	1	3	7	for	for	ADP	IN
41	doc1	1	3	8	the	the	DET	DT
42	doc1	1	3	9	meeting	meeting	NOUN	NN
43	doc1	1	3	10	.	.	PUNCT	.
44	doc1	1	4	1	Capricia	Capricia	PROPN	NNP
45	doc1	1	4	2	will	will	AUX	MD
46	doc1	1	4	3	be	be	AUX	VB
47	doc1	1	4	4	at	at	ADP	IN
48	doc1	1	4	5	house	house	NOUN	NN
49	doc1	1	4	6	when	when	ADV	WRB
50	doc1	1	4	7	you	you	PRON	PRP
51	doc1	1	4	8	get	get	VERB	VBP
52	doc1	1	4	9	back	back	ADV	RB
53	doc1	1	4	10	F--	F--	PUNCT	HYPH
54	doc1	1	4	11	C	care	ADJ	JJ
55	doc1	1	4	12	Date	date	NOUN	NN
56	doc1	1	4	13	:	:	PUNCT	:
57	doc1	1	4	14	//	//	PUNCT	.
58	doc1	1	5	1	\f	\f	NOUN	NN

2.6 Deliverable 10: Extract Terms from the Clinton Email Dataset

```
# Initialize an empty list to store extracted terms and their metadata
allData <- list()

# Loop through each email (annotationsData + allEmails already exist from before)
#for (i in 1:length(allEmails)) {
#  x <- allEmails[[i]]
#  y <- annotationsData[[i]]
#  print(paste('Starting document:', i, 'of', length(allEmails)))
#  # Skip documents with empty annotation data frames
#  if (is.null(y) || nrow(y) == 0) {
#    print(paste("No annotations for document:", i))
#    next
#  }
#  POSls <- list()
#  # Loop through each annotation row
#  for (j in 1:nrow(y)) {
#    # Extract each field carefully with length and NA checks
#    doc_id_val <- ifelse(length(names(allEmails)[i]) > 0, names(allEmails)[i], NA)
#    type_val <- ifelse(!is.na(y$upos[j]) & length(y$upos[j]) > 0, y$upos[j], "")
#    token_id_val <- ifelse(!is.na(y$token_id[j]) & length(y$token_id[j]) > 0, y$token_id[j], "")
#    token_val <- ifelse(!is.na(y$token[j]) & length(y$token[j]) > 0, y$token[j], "")
#    lemma_val <- ifelse(!is.na(y$lemma[j]) & length(y$lemma[j]) > 0, y$lemma[j], "")
#    xpos_val <- ifelse(!is.na(y$xpos[j]) & length(y$xpos[j]) > 0, y$xpos[j], "")
#    entity_val <- ifelse(!is.na(y$entity[j]) & length(y$entity[j]) > 0, y$entity[j], "")
#    # Build the row as a data frame, ensure one row per token
#    z <- data.frame(
#      doc_id = doc_id_val,
#      type = type_val,
#      token_id = token_id_val,
#      token = token_val,
#      lemma = lemma_val,
#      xpos = xpos_val,
#      entity = entity_val,
#      stringsAsFactors = FALSE
#    )
#    # Add the single-token row to the POS list
#    POSls[[j]] <- z
#  }
#  # Bind all the token rows together for this document
#  docPOS <- do.call(rbind, POSls)
```

```

# Add this document's annotated data to the allData list
# allData[[i]] <- docPOS
# print(paste('Finished document:', i))
#}

# View first annotated document
#allData[[1]]

```

I could not make the above code loop work - the code from the lab will not run and I cannot work my way through the alternative here - I time bound my work on this section at 45 mins and I am moving on.

2.7 Deliverable 11: Subset the Clinton Email Dataset

```

# Add a dummy entity column to every dataframe if it's missing
annotationsData <- pbapply::pblapply(annotationsData, function(df) {
  if (!"entity" %in% base::names(df)) {
    df$entity <- NA
  }
  return(df)
})

# Subset for people entities
people <- pbapply::pblapply(annotationsData, function(df) {
  base::subset(df, base::grepl("person", df$entity, ignore.case = TRUE))
})

# Subset for location entities
location <- pbapply::pblapply(annotationsData, function(df) {
  base::subset(df, base::grepl("location", df$entity, ignore.case = TRUE))
})

# Subset for organization entities
organization <- pbapply::pblapply(annotationsData, function(df) {
  base::subset(df, base::grepl("organization", df$entity, ignore.case = TRUE))
})

# Combine all annotations into one flat data frame
POSdf <- base::do.call(base::rbind, annotationsData)

```

```
# Subset for people entities in document "doc1"
subset_people_doc1 <- base::subset(
  POSdf,
  doc_id == "doc1" &
  base::grepl("person", entity, ignore.case = TRUE)
)

# Count number of entities per document
people_counts <- base::sapply(people, base::nrow)
location_counts <- base::sapply(location, base::nrow)
organization_counts <- base::sapply(organization, base::nrow)

# View counts
people_counts
```

```
<NA>
0
```

```
location_counts
```

```
<NA>
0
```

```
organization_counts
```

```
<NA>
0
```

2.8 Deliverable 12: Using the Annotate Entities Process

2.9 Deliverable 13: Annotate Entities with OpenNLP

```
#annotate.entities <- function(doc, annotation.pipeline){
#  annotations <- annotate(doc, annotation.pipeline)
#    AnnotatedPlainTextDocument(doc, annotations)
#}
#ner.pipeline <- list(
#  Maxent_Sent-Token-Annotator(),
```

```
# Maxent_Word-Token_Annotator(),
# Maxent_POS_Tag_Annotator(),
# Maxent_Entity_Annotator(kind = "person"),
# Maxent_Entity_Annotator(kind = "location"),
# Maxent_Entity_Annotator(kind = "organization")
#)
```

The openNLP package caused positron to completely shut down every time I tried to run any of its methods - was not able to complete this section.

2.10 Deliverable 14: Apply the Annotation Function

```
#all.ner <- pblapply(allEmails, annotate.entities, ner.pipeline)
```

The openNLP package caused positron to completely shut down every time I tried to run any of its methods - was not able to complete this section.

3 Part 3: Conducting NLP Analysis with spacyr

3.1 Deliverable 15: Load the spacyr Package

```
spacyr::spacy_install()
```

Warning: Previous request to
`use_python("/Users/coniecakes/anaconda3/envs/datascience/bin/python", required = TRUE)` will be ignored. It is superseded by request to
`use_python("/Users/coniecakes/.virtualenvs/r-spacyr/bin/python")`

Warning in spacyr::spacy_install(): Skipping installation. Use `force` to force installation or update. Or use `spacy_download_langmodel()` if you just want to install a model.

```
txt <- c(d1 = "spaCy is great at fast natural language processing.",
        d2 = "Mr. Smith spent two years in North Carolina.")
parsedtxt <- spacyr::spacy_parse(txt)
```

successfully initialized (spaCy Version: 3.8.4, language model: en_core_web_sm)

```
parsedtxt
```

	doc_id	sentence_id	token_id	token	lemma	pos	entity
1	d1	1	1	spaCy	spacy	NUM	
2	d1	1	2	is	be	AUX	
3	d1	1	3	great	great	ADJ	
4	d1	1	4	at	at	ADP	
5	d1	1	5	fast	fast	ADJ	
6	d1	1	6	natural	natural	ADJ	
7	d1	1	7	language	language	NOUN	
8	d1	1	8	processing	processing	NOUN	
9	d1	1	9	.	.	PUNCT	
10	d2	1	1	Mr.	Mr.	PROPN	
11	d2	1	2	Smith	Smith	PROPN	PERSON_B
12	d2	1	3	spent	spend	VERB	
13	d2	1	4	two	two	NUM	DATE_B
14	d2	1	5	years	year	NOUN	DATE_I
15	d2	1	6	in	in	ADP	
16	d2	1	7	North	North	PROPN	GPE_B
17	d2	1	8	Carolina	Carolina	PROPN	GPE_I
18	d2	1	9	.	.	PUNCT	

3.2 Deliverable 16: Review the Parsed Text

```
spacyr::spacy_parse(txt, tag = TRUE, entity = FALSE, lemma = FALSE)
```

	doc_id	sentence_id	token_id	token	pos	tag
1	d1	1	1	spaCy	NUM	CD
2	d1	1	2	is	AUX	VBZ
3	d1	1	3	great	ADJ	JJ
4	d1	1	4	at	ADP	IN
5	d1	1	5	fast	ADJ	JJ
6	d1	1	6	natural	ADJ	JJ
7	d1	1	7	language	NOUN	NN
8	d1	1	8	processing	NOUN	NN
9	d1	1	9	.	PUNCT	.
10	d2	1	1	Mr.	PROPN	NNP
11	d2	1	2	Smith	PROPN	NNP

12	d2	1	3	spent	VERB	VBD
13	d2	1	4	two	NUM	CD
14	d2	1	5	years	NOUN	NNS
15	d2	1	6	in	ADP	IN
16	d2	1	7	North	PROPN	NNP
17	d2	1	8	Carolina	PROPN	NNP
18	d2	1	9	.	PUNCT	.

3.3 Deliverable 17: Parse the txt Object with spacyr

```
spacyr::spacy_tokenize(txt)
```

```
$d1
[1] "spaCy"      "is"         "great"      "at"         "fast"
[6] "natural"    "language"   "processing" "."
```

```
$d2
[1] "Mr."      "Smith"     "spent"     "two"        "years"     "in"        "North"
[8] "Carolina" "."
```

3.4 Deliverable 18: Tokenize Text into a Data Frame

```
spacyr::spacy_tokenize(txt, remove_punct = TRUE, output = "data.frame") %>%
  utils::tail()
```

	doc_id	token
11	d2	spent
12	d2	two
13	d2	years
14	d2	in
15	d2	North
16	d2	Carolina

3.5 Deliverable 19: Extract Named Entities From Parsed Text

```
spacyr::spacy_parse(txt, lemma = FALSE, entity = TRUE, nounphrase = TRUE)
```

	doc_id	sentence_id	token_id	token	pos	entity	nounphrase	whitespace
1	d1	1	1	spaCy	NUM			TRUE
2	d1	1	2	is	AUX			TRUE
3	d1	1	3	great	ADJ			TRUE
4	d1	1	4	at	ADP			TRUE
5	d1	1	5	fast	ADJ		beg	TRUE
6	d1	1	6	natural	ADJ		mid	TRUE
7	d1	1	7	language	NOUN		mid	TRUE
8	d1	1	8	processing	NOUN		end_root	FALSE
9	d1	1	9	.	PUNCT			FALSE
10	d2	1	1	Mr.	PROPN		beg	TRUE
11	d2	1	2	Smith	PROPN	PERSON_B	end_root	TRUE
12	d2	1	3	spent	VERB			TRUE
13	d2	1	4	two	NUM	DATE_B	beg	TRUE
14	d2	1	5	years	NOUN	DATE_I	end_root	TRUE
15	d2	1	6	in	ADP			TRUE
16	d2	1	7	North	PROPN	GPE_B	beg	TRUE
17	d2	1	8	Carolina	PROPN	GPE_I	end_root	FALSE
18	d2	1	9	.	PUNCT			FALSE

```
spacyr::entity_extract(parsedtxt)
```

	doc_id	sentence_id	entity	entity_type
1	d2	1	Smith	PERSON
2	d2	1	North_Carolina	GPE

3.6 Deliverable 20: Extract Extended Entity Set

```
spacyr::entity_extract(parsedtxt, type = "all")
```

	doc_id	sentence_id	entity	entity_type
1	d2	1	Smith	PERSON
2	d2	1	two_years	DATE
3	d2	1	North_Carolina	GPE

3.7 Deliverable 21: Consolidate Named Entities

```
spacyr::entity_consolidate(parsedtxt) %>%  
  utils::tail()
```

	doc_id	sentence_id	token_id	token	lemma	pos	entity_type
11	d2	1	2	Smith	Smith	ENTITY	PERSON
12	d2	1	3	spent	spend	VERB	
13	d2	1	4	two_years	two_year	ENTITY	DATE
14	d2	1	5	in	in	ADP	
15	d2	1	6	North_Carolina	North_Carolina	ENTITY	GPE
16	d2	1	7	.	.	PUNCT	

3.8 Deliverable 22: Extract Noun Phrases

```
# Parse text with noun phrases enabled  
parsedtxt <- spacyr::spacy_parse(  
  txt,  
  nounphrase = TRUE  
)  
  
# Now extract the noun phrases  
nounphrases <- spacyr::nounphrase_extract(parsedtxt)  
  
# View the noun phrases  
nounphrases
```

	doc_id	sentence_id	nounphrase
1	d1	1	fast_natural_language_processing
2	d2	1	Mr._Smith
3	d2	1	two_years
4	d2	1	North_Carolina

3.9 Deliverable 23: Extract Entities Without Parsing the Entire Text

```
spacyr::spacy_extract_entity(txt)
```

	doc_id	text	ent_type	start_id	length
1	d2	Smith	PERSON	2	1
2	d2	two years	DATE	4	2
3	d2	North Carolina	GPE	7	2

```
spacyr::spacy_extract_nounphrases(txt)
```

	doc_id	text	root_text	start_id	root_id	length
1	d1	fast natural language processing	processing	5	8	4
2	d2	Mr. Smith	Smith	1	2	2
3	d2	two years	years	4	5	2
4	d2	North Carolina	Carolina	7	8	2

```
spacyr::spacy_parse(txt, dependency = TRUE, lemma = FALSE, pos = FALSE)
```

	doc_id	sentence_id	token_id	token	head_token_id	dep_rel	entity
1	d1	1	1	spaCy	2	nsubj	
2	d1	1	2	is	2	ROOT	
3	d1	1	3	great	2	acomp	
4	d1	1	4	at	2	prep	
5	d1	1	5	fast	8	amod	
6	d1	1	6	natural	7	amod	
7	d1	1	7	language	8	compound	
8	d1	1	8	processing	4	pobj	
9	d1	1	9	.	2	punct	
10	d2	1	1	Mr.	2	compound	
11	d2	1	2	Smith	3	nsubj	PERSON_B
12	d2	1	3	spent	3	ROOT	
13	d2	1	4	two	5	nummod	DATE_B
14	d2	1	5	years	3	dobj	DATE_I
15	d2	1	6	in	3	prep	
16	d2	1	7	North	8	compound	GPE_B
17	d2	1	8	Carolina	6	pobj	GPE_I
18	d2	1	9	.	3	punct	

3.10 Deliverable 23: Extract Additional Attributes

```
spacyr::spacy_parse("I have six email addresses, including me@mymail.com.",
  additional_attributes = c("like_num", "like_email"),
  lemma = FALSE, pos = FALSE, entity = FALSE)
```

	doc_id	sentence_id	token_id	token	like_num	like_email
1	text1	1	1	I	FALSE	FALSE
2	text1	1	2	have	FALSE	FALSE
3	text1	1	3	six	TRUE	FALSE
4	text1	1	4	email	FALSE	FALSE
5	text1	1	5	addresses	FALSE	FALSE
6	text1	1	6	,	FALSE	FALSE
7	text1	1	7	including	FALSE	FALSE
8	text1	1	8	me@mymail.com	FALSE	TRUE
9	text1	1	9	.	FALSE	FALSE

3.11 Deliverable 24: Extract Additional Attributes

```
#library(quanteda, warn.conflicts = FALSE, quietly = TRUE)
# To identify the names of the documents
quanteda::docnames(parsedtxt)
```

Warning in .recacheSubclasses(def@className, def, env): undefined subclass "ndiMatrix" of class "replValueSp"; definition not updated

```
[1] "d1" "d2"
```

3.12 Deliverable 25: Extract Additional Attributes

```
parsedtxt <- spacyr::spacy_parse(txt, pos = TRUE, tag = TRUE)
quanteda::as.tokens(parsedtxt)
```

Tokens consisting of 2 documents.

d1 :

```
[1] "spaCy"      "is"         "great"      "at"         "fast"
[6] "natural"    "language"   "processing" "."
```

d2 :

```
[1] "Mr."        "Smith"      "spent"      "two"        "years"      "in"         "North"
[8] "Carolina"   "."
```

3.13 Deliverable 26: Using spacyr with tidytext

```
library(tidytext)

tidytext::unnest_tokens(parsedtxt, word, token) %>%
  dplyr::anti_join(stop_words)
```

Joining with `by = join_by(word)`

	doc_id	sentence_id	token_id	lemma	pos	tag	entity	word
1	d1	1	1	spacy	NUM	CD		spacy
2	d1	1	5	fast	ADJ	JJ		fast
3	d1	1	6	natural	ADJ	JJ		natural
4	d1	1	7	language	NOUN	NN		language
5	d1	1	8	processing	NOUN	NN		processing
6	d2	1	2	Smith	PROPN	NNP	PERSON_B	smith
7	d2	1	3	spend	VERB	VBD		spent
8	d2	1	7	North	PROPN	NNP	GPE_B	north
9	d2	1	8	Carolina	PROPN	NNP	GPE_I	carolina

3.14 Deliverable 27: POS Filtering

```
spacyr::spacy_parse("The cat in the hat ate green eggs and ham.", pos = TRUE) %>%
  tidytext::unnest_tokens(word, token) %>%
  dplyr::filter(pos == "NOUN")
```

	doc_id	sentence_id	token_id	lemma	pos	entity	word
1	text1	1	2	cat	NOUN		cat
2	text1	1	5	hat	NOUN		hat
3	text1	1	8	egg	NOUN		eggs
4	text1	1	10	ham	NOUN		ham

3.15 Deliverable 28: Finalizing the SpaCy Connection

```
spacyr::spacy_finalize()
```

Part 4 has been moved to a separate document due to rendering issues with python

Code below is an example, all outputs are in a jupyter notebook file.

4 Part 4: Conducting NLP Analysis in Python

```
#reticulate::use_condaenv("datascience", required = TRUE)
# Or point directly to Python binary:
#reticulate::use_python("/Users/coniecakes/anaconda3/envs/datascience/bin/python", required = TRUE)
```

4.1 Deliverable 29: Importing the nltk Package and Downloading Necessary POS Taggers

```
#import nltk
#nltk.download('punkt')
#nltk.download('averaged_perceptron_tagger')
#nltk.download('maxent_ne_chunker')
#nltk.download('words')
```

4.2 Deliverable 30: Downloading the Necessary Datasets

```
#from nltk.corpus import state_union
#nltk.download('state_union')
```

```
# Load a sample text
#sample_text = state_union.raw("2006-GWBush.txt")
#print(sample_text)
```

4.3 Deliverable 31: Tokenizing the Text

```
#from nltk.tokenize import sent_tokenize, word_tokenize

# tokenize sentences
#sentences = sent_tokenize(sample_text)

# tokenize words
#words = [word_tokenize(sentence) for sentence in sentences]
```

4.4 Deliverable 32: Perform POS Tagging and NER

```
#pos_tagged = [nltk.pos_tag(word) for word in words]
#print(pos_tagged)
```

4.5 Deliverable 33: Perform NER

```
#named_entities = []
#for tagged_sentence in pos_tagged:
#    chunked_sentence = nltk.ne_chunk(tagged_sentence, binary = True)
#    named_entities.extend([chunk for chunk in chunked_sentence if hasattr(chunk, 'label')])
#print(named_entities[:10])
```

I could not get this to run properly - time bound at 30 minutes.

4.6 Deliverable 34: Visualizing the Results

```
#from nltk import FreqDist
#import matplotlib.pyplot as plt

# Assuming `pos_tagged` contains your POS-tagged text
#pos_tags = [tag for sentence in pos_tagged for _, tag in sentence]

# Frequency distribution of POS tags
#pos_freq = FreqDist(pos_tags)
```

```
# Creating a bar plot for POS tags frequency
plt.figure(figsize=(12, 8))
pos_freq.plot(30, cumulative=False)

plt.show()
```