assignment_2_sentiment_analysis1

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Sentiment Analysis I

This assignment uses sentiment analysis to...xxx

...dates extracted [0.23 secs]

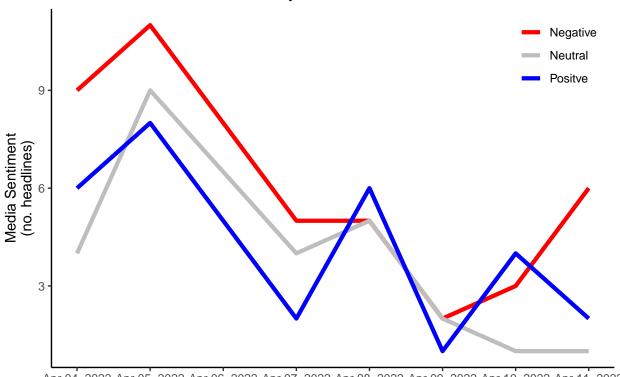
```
library(tidyr) #text analysis in R
library(lubridate) #working with date data
library(pdftools) #read in pdfs
library(tidyverse)
library(tidytext)
library(here)
library(LexisNexisTools) #Nexis Uni data wrangling
library(sentimentr)
library(readr)
```

Using the "IPCC" Nexis Uni data set from the class presentation and the pseudo code we discussed, recreate Figure 1A from Froelich et al. (Date x # of 1) positive, 2) negative, 3) neutral headlines):

```
## ...authors extracted [0.23 secs]
   ...sections extracted [0.23 secs]
   ...editions extracted [0.23 secs]
   ...dates converted [0.24 secs]
## ...metadata extracted [0.24 secs]
## ...article texts extracted [0.25 secs]
## ...superfluous whitespace removed [0.27 secs]
## Elapsed time: 0.27 secs
# lnt_read = read in a LexisNexis file
meta_df <- dat@meta</pre>
articles_df <- dat@articles</pre>
paragraphs_df <- dat@paragraphs</pre>
dat2<- data_frame(element_id = seq(1:length(meta_df$Headline)), Date = meta_df$Date, Headline = meta_df
## Warning: 'data_frame()' was deprecated in tibble 1.1.0.
## Please use 'tibble()' instead.
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was generated.
paragraphs_dat <- data_frame(element_id = paragraphs_df$Art_ID, Text = paragraphs_df$Paragraph)</pre>
dat3 <- inner_join(dat2,paragraphs_dat, by = "element_id")</pre>
mytext <- get_sentences(dat2$Headline)</pre>
sent <- sentiment(mytext)</pre>
sent_df <- inner_join(dat2, sent, by = "element_id")</pre>
sentiment <- sentiment_by(sent_df$Headline)</pre>
sent_df <- sent_df%>%
 arrange(sentiment)
sent_df_summary <- sent_df %>%
  mutate(sent_category = case_when(
    sentiment < 0 ~ "negative",</pre>
    sentiment > 0 ~ "positive",
    sentiment == 0 ~ "neutral")) %>%
  group_by(Date, sent_category) %>%
  summarise(num_headlines = n())
## 'summarise()' has grouped output by 'Date'. You can override using the '.groups'
```

argument.

IPCC Headline Sentiment Analysis



Apr 04, 2022 Apr 05, 2022 Apr 06, 2022 Apr 07, 2022 Apr 08, 2022 Apr 09, 2022 Apr 10, 2022 Apr 11, 2022 Date