Alex Jones - EDA

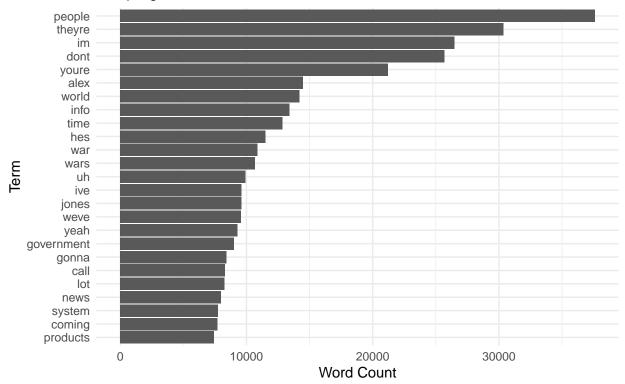
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Exploratory Data Analysis

```
## Joining, by = "word"
## 'summarise()' has grouped output by 'word'. You can override using the
## '.groups' argument.
## Joining, by = "date"
## 'summarise()' has grouped output by 'ep_year'. You can override using the
## '.groups' argument.
#top 25 all time
year_metrics %>%
  group_by(word) %>%
  summarise(word_count = sum(count)) %>%
  top_n(25, word_count) %>%
  mutate(work = reorder(word, word_count)) %>%
  ggplot(aes(work, word_count)) +
  geom_col() +
  xlab(NULL) +
  coord_flip() +
  labs(title = 'Word Frequency in the Alex Jones Show', subtitle = 'Sampling from 2002 to 2023', x = "To
  theme_minimal()
```

Word Frequency in the Alex Jones Show Sampling from 2002 to 2023

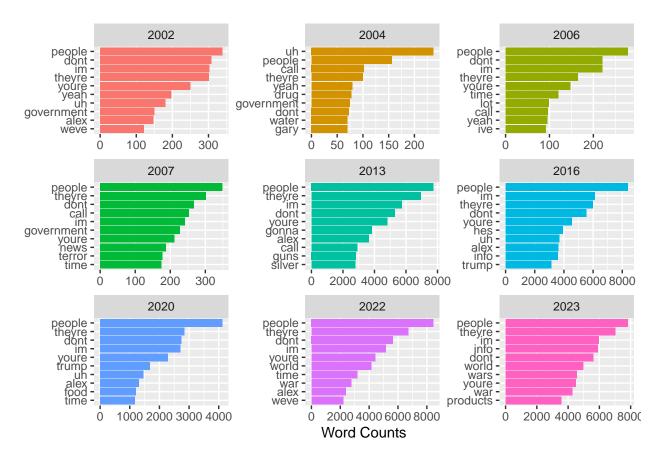


```
#word cloud
year_metrics %>%
group_by(word) %>%
summarise(word_count = sum(count)) %>%
with(wordcloud(word, word_count, random.order = FALSE, max.words = 50))
```

```
weve products
news real jones stuff
country world youre talking
whats
food trump dont iminfo theyve
yeah people system people coming
silver hes they re control war alex time
doesnt day wars uh dot
government gonna
infowarstorecom
```

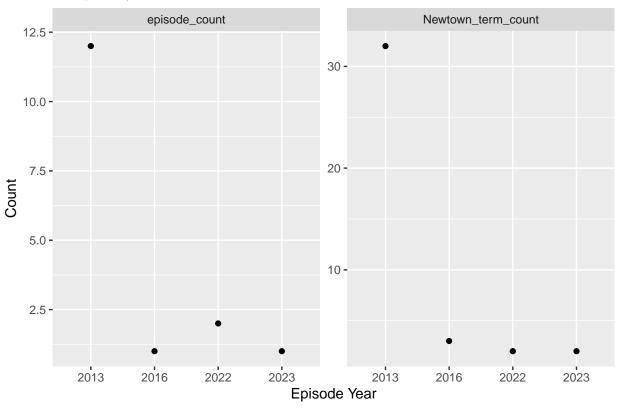
```
#Top 20 words by count in each time period
year_metrics %>%
  group_by(ep_year, word) %>%
  summarise(word_count=sum(count)) %>%
  top_n(10, word_count) %>%
  ungroup %>%
  ggplot(aes(reorder_within(word, word_count, ep_year), word_count, fill = ep_year)) +
    geom_col(show.legend = FALSE) +
    scale_x_reordered() +
    facet_wrap(~ep_year, scales = "free") +
    coord_flip()+
    labs(x = NULL, y="Word Counts")
```

'summarise()' has grouped output by 'ep_year'. You can override using the
'.groups' argument.



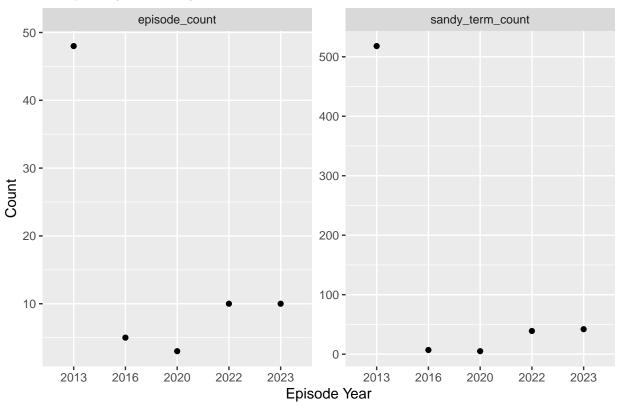
```
#plots are skewed due to uneven sampling across years
some_metrics %>%
  filter(word == "newtown") %>%
  group_by(ep_year) %>%
  summarize(
    episode_count = n_distinct(date),
    Newtown_term_count = sum(count)
) %>%
  gather(key = "type", value = "count", 2:3) %>%
  ggplot(aes(ep_year, count)) +
  geom_point() +
  facet_wrap(~ type, scales = "free") +
  labs(title = 'Frequency of Netwon Mentions', y = 'Count', x = 'Episode Year')
```

Frequency of Netwon Mentions



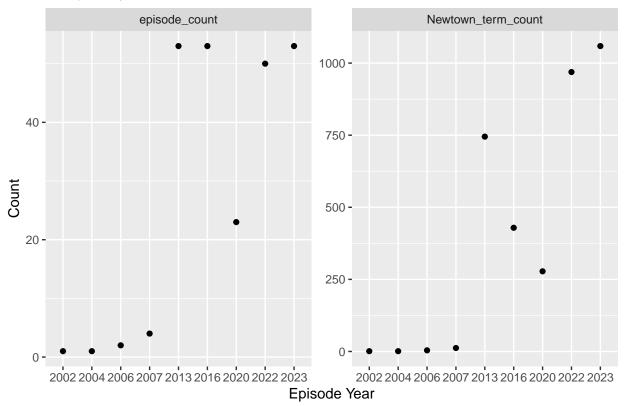
```
some_metrics %>%
filter(word == 'sandy') %>%
group_by(ep_year) %>%
summarize(
   episode_count = n_distinct(date),
    sandy_term_count = sum(count)
) %>%
gather(key = "type", value = "count", 2:3) %>%
ggplot(aes(ep_year, count)) +
geom_point() +
facet_wrap(~ type, scales = "free") +
labs(title = 'Frequency of Sandy Mentions', y = 'Count', x = 'Episode Year')
```

Frequency of Sandy Mentions



```
#plots are skewed due to uneven sampling across years
some_metrics %>%
filter(word == "globalist") %>%
group_by(ep_year) %>%
summarize(
   episode_count = n_distinct(date),
   Newtown_term_count = sum(count)
) %>%
gather(key = "type", value = "count", 2:3) %>%
ggplot(aes(ep_year, count)) +
geom_point() +
facet_wrap(~ type, scales = "free") +
labs(title = 'Frequency of Globalist Mentions', y = 'Count', x = 'Episode Year')
```

Frequency of Globalist Mentions



library(scales)

##

```
## Attaching package: 'scales'
## The following object is masked from 'package:purrr':
##
##
       discard
## The following object is masked from 'package:readr':
##
##
       col_factor
year_metrics %>%
   filter(ep_year == '2013' | ep_year == '2023') %>% #compare two years
   filter(count>500) %>%
   group_by(ep_year, word) %>%
    summarize(n = sum(count)) %>%
   mutate(proportion = n / sum(n)) %>%
   pivot_wider(id_cols = word, names_from = ep_year, values_from = proportion) %>%
   ggplot(aes(x = `2013`, y = `2023`, color = abs(`2013` - `2023`))) +
     geom_abline(color = "gray40", lty = 2) +
     geom_jitter(alpha = 0.1, size = 2.5, width = 0.3, height = 0.3) +
     geom_text(aes(label = word), check_overlap = TRUE, vjust = 1.5) +
```

```
scale_x_log10(labels = percent_format()) +
scale_y_log10(labels = percent_format()) +
scale_color_gradient(limits = c(0, 0.001), low = "darkslategray4", high = "gray75") +
theme(legend.position="none") +
labs(y = '2023', x = '2013', title = 'Word Frequency Changes Between 2013 & 2023')
```

'summarise()' has grouped output by 'ep_year'. You can override using the
'.groups' argument.

Word Frequency Changes Between 2013 & 2023

