# Movie Script Keyness

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#### 2022-05-12

```
library(tidyr) #text analysis in R
## Warning: package 'tidyr' was built under R version 4.1.2
library(pdftools)
## Warning: package 'pdftools' was built under R version 4.1.2
## Using poppler version 22.02.0
library(lubridate) #working with date data
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
       date, intersect, setdiff, union
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.3.1 --
## v ggplot2 3.3.6 v dplyr 1.0.9
## v tibble 3.1.7 v stringr 1.4.0
## v readr 2.1.2 v forcats 0.5.1
## v purrr 0.3.4
## Warning: package 'ggplot2' was built under R version 4.1.2
## Warning: package 'tibble' was built under R version 4.1.2
## Warning: package 'readr' was built under R version 4.1.2
## Warning: package 'dplyr' was built under R version 4.1.2
```

```
## -- Conflicts -----
                                            ----- tidyverse_conflicts() --
## x lubridate::as.difftime() masks base::as.difftime()
## x dplyr::filter()
                           masks stats::filter()
## x lubridate::intersect() masks base::intersect()
## x dplyr::lag()
                    masks stats::lag()
## x lubridate::setdiff() masks base::setdiff()
## x lubridate::union() masks base::union()
library(tidytext)
library(readr)
library(quanteda)
## Warning: package 'quanteda' was built under R version 4.1.2
## Package version: 3.2.1
## Unicode version: 13.0
## ICU version: 69.1
## Parallel computing: 8 of 8 threads used.
## See https://quanteda.io for tutorials and examples.
library(readtext) #quanteda subpackage for reading pdf
library(quanteda.textstats)
library(quanteda.textplots)
## Warning: package 'quanteda.textplots' was built under R version 4.1.2
library(ggplot2)
library(forcats)
library(stringr)
library(quanteda.textplots)
library(widyr)# pairwise correlations
library(igraph) #network plots
## Warning: package 'igraph' was built under R version 4.1.2
## Attaching package: 'igraph'
## The following object is masked from 'package:quanteda.textplots':
##
##
       as.igraph
## The following objects are masked from 'package:dplyr':
##
       as_data_frame, groups, union
```

```
## The following objects are masked from 'package:purrr':
##
       compose, simplify
##
## The following object is masked from 'package:tibble':
##
##
       as_data_frame
## The following objects are masked from 'package:lubridate':
##
##
       %--%, union
## The following object is masked from 'package:tidyr':
##
##
       crossing
## The following objects are masked from 'package:stats':
##
##
       decompose, spectrum
## The following object is masked from 'package:base':
##
##
       union
library(ggraph)
library(here)
```

## here() starts at /Users/marierivers/Documents/UCSB\_Environmental\_Data\_Science/EDS\_231\_Text\_and\_Senting

```
library(patchwork)
```

Table 1: Summary of Scripts Corpus

Text	Types	Tokens	Sentences	title1	title2	title3
an inconvenient truth.pdf	2245	10936	685	an	inconvenient	truth

Text	Types	Tokens	Sentences	title1	title2	title3
before_the_flood.pdf	2540	13634	863	before	the	flood
dont_look_up.pdf	4620	28016	2825	dont	look	up

```
# Add some additional, context-specific stop words to stop word lexicon
more_stops <-c("randall", "kate", "dr", "president", "int", "oglethorpe", "jason", "brie", "orlean", "p
add_stops <- tibble(word = c(stop_words$word, more_stops))
stop_vec <- as_vector(add_stops)</pre>
```

Create different data objects that will be used for the subsequent analyses

```
#convert to tidy format and apply my stop words
raw text <- tidy(scripts corp)</pre>
#Distribution of most frequent words across documents
raw_words <- raw_text %>%
 mutate(title = as.factor(title1)) %>%
  mutate(title = case_when(title == "dont" ~ "dont_look_up",
                            title == "an" ~ "an_inconvenient_truth",
                            title == "before" ~ "before_the_flood")) %>%
  unnest_tokens(word, text) %>%
  anti_join(add_stops, by = 'word') %>%
  count(title, word, sort = TRUE)
#number of total words by document
total_words <- raw_words %>%
  group_by(title) %>%
  summarize(total = sum(n))
script_words <- left_join(raw_words, total_words)</pre>
## Joining, by = "title"
par_tokens <- unnest_tokens(raw_text, output = paragraphs, input = text, token = "paragraphs")</pre>
par_tokens <- par_tokens %>%
mutate(par id = 1:n())
par_words <- unnest_tokens(par_tokens, output = word, input = paragraphs, token = "words") %>%
  mutate(title = case_when(title1 == "dont" ~ "dont_look_up",
                            title1 == "an" ~ "an_inconvenient_truth",
                            title1 == "before" ~ "before_the_flood")) %>%
 anti_join(add_stops, by = 'word')
tokens <- tokens(scripts_corp, remove_punct = TRUE)</pre>
toks1<- tokens_select(tokens, min_nchar = 3)</pre>
toks1 <- tokens_tolower(toks1)</pre>
toks1 <- tokens_remove(toks1, pattern = (stop_vec))</pre>
dfm <- dfm(toks1)</pre>
dfm\full_title <- c("an_inconvenient_truth", "before_the_flood", "dont_look_up")
docvars(dfm)
```

```
title1
                  title2 title3
                                            full_title
## 1
         an inconvenient truth an_inconvenient_truth
## 2 before
                     the
                          flood
                                      before_the_flood
## 3
       dont
                                          dont_look_up
                    look
                             up
dfm
## Document-feature matrix of: 3 documents, 5,030 features (56.59% sparse) and 4 docvars.
                               features
## docs
                                inconvenient truth transcript
##
                                           2
     an_inconvenient_truth.pdf
                                                 4
                                                 2
##
     before_the_flood.pdf
                                           0
                                                            0
##
     dont_look_up.pdf
                                           0
                                                 7
                                                            0
##
                               features
## docs
                                http://forumpolitics.com/blogs/2007/03/17/an-inconvient-truth-transcript
##
     an_inconvenient_truth.pdf
     before_the_flood.pdf
##
##
     dont_look_up.pdf
##
                               features
## docs
                                march 2007 introduction river gently flowing
                                                            3
##
     an_inconvenient_truth.pdf
                                    1
                                         1
                                                      1
                                                                    1
##
     before_the_flood.pdf
                                         0
                                                      0
                                                            1
                                                                    0
                                                                            0
                                    1
                                                      0
                                                            0
                                                                    0
##
     dont_look_up.pdf
                                    0
                                         0
                                                                            0
## [ reached max_nfeat ... 5,020 more features ]
par_words_inconvenient_truth <- par_words %>%
  filter(title == "an_inconvenient_truth")
par_words_before_the_flood <- par_words %>%
  filter(title == "before_the_flood")
par_words_dont_look_up <- par_words %>%
  filter(title == "dont_look_up")
word_cors_all <- par_words %>%
  add_count(par_id) %>%
  filter(n \ge 25) \%
  select(-n) %>%
  pairwise_cor(word, par_id, sort = TRUE)
word_cors_inconvenient_truth <- par_words_inconvenient_truth %>%
  add_count(par_id) %>%
  filter(n \ge 25) \%\%
  select(-n) %>%
  pairwise_cor(word, par_id, sort = TRUE)
word_cors_before_the_flood <- par_words_before_the_flood %>%
  add_count(par_id) %>%
  filter(n \ge 25) \%
  select(-n) %>%
  pairwise_cor(word, par_id, sort = TRUE)
word_cors_dont_look_up <- par_words_dont_look_up %>%
```

0

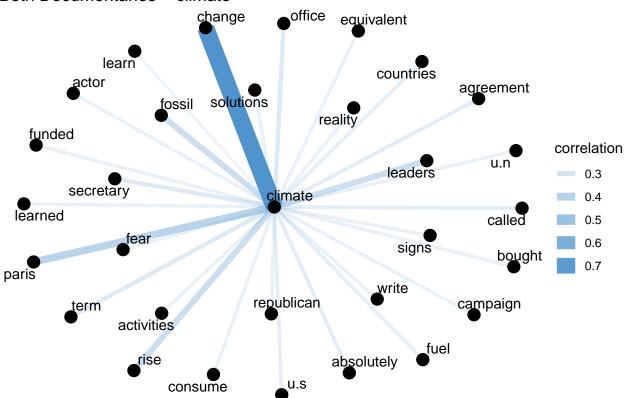
```
add_count(par_id) %>%
filter(n >= 25) %>%
select(-n) %>%
pairwise_cor(word, par_id, sort = TRUE)

#first the basic frequency stat
tstat_freq <- textstat_frequency(dfm, n = 5, groups = title1)
head(tstat_freq, 15) %>%
knitr::kable(caption = "Subset of Top 5 Words")
```

Table 2: Subset of Top 5 Words

feature	frequency	$\operatorname{rank}$	docfreq	group
ice	54	1	1	an
earth	32	2	1	an
time	32	2	1	an
warming	28	4	1	an
world	27	5	1	an
climate	69	1	1	before
change	52	2	1	before
people	48	3	1	before
world	38	4	1	before
time	27	5	1	before
comet	82	1	1	$\operatorname{dont}$
time	78	2	1	$\operatorname{dont}$
ext	70	3	1	$\operatorname{dont}$
evantee	59	4	1	$\operatorname{dont}$
jack	54	5	1	dont

# Both Documentaries - climate



you can compare the use of "climate" in the 2 documentations to see how this word is used differently, but don't look up never mentions the word climate or climate change

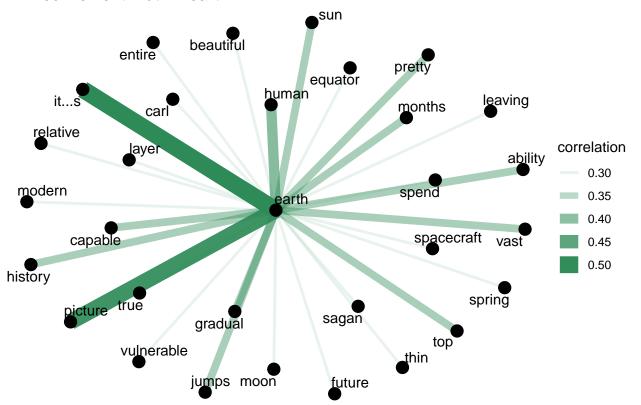
```
#let's zoom in on just one of our key terms
inconvenient_truth_earth_cors <- word_cors_inconvenient_truth %>%
  filter(item1 == "earth") %>%
  mutate(n = 1:n())
inconvenient_truth_earth_cors_plot <- inconvenient_truth_earth_cors %%
  filter(n <= 30) %>%
  graph_from_data_frame() %>%
  ggraph(layout = "fr") +
  geom_edge_link(aes(edge_alpha = correlation, edge_width = correlation), edge_colour = "seagreen") +
  geom_node_point(size = 4) +
  geom_node_text(aes(label = name), repel = TRUE,
                 point.padding = unit(0.2, "lines")) +
  theme void() +
  ggtitle("An Inconvenient Truth - earth")
inconvenient_truth_earth_cors_plot
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
```

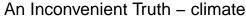
```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
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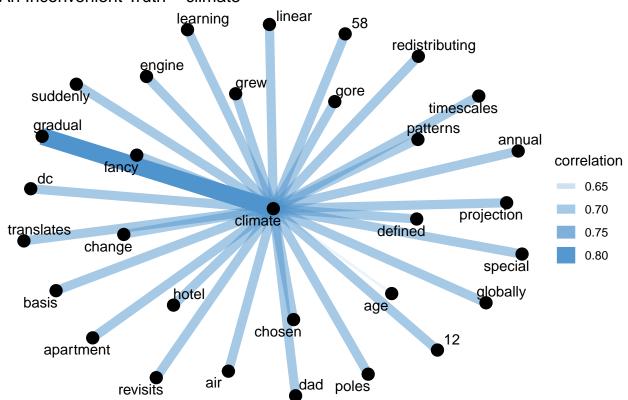
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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```

# An Inconvenient Truth – earth







```
#let's zoom in on just one of our key terms
inconvenient_truth_time_cors <- word_cors_inconvenient_truth %>%
  filter(item1 == "time") %>%
  mutate(n = 1:n())
inconvenient_truth_time_cors_plot <- inconvenient_truth_time_cors %>%
  filter(n <= 30) %>%
  graph_from_data_frame() %>%
  ggraph(layout = "fr") +
  geom_edge_link(aes(edge_alpha = correlation, edge_width = correlation), edge_colour = "firebrick") +
  geom_node_point(size = 4) +
  geom_node_text(aes(label = name), repel = TRUE,
                 point.padding = unit(0.2, "lines")) +
  theme_void() +
  ggtitle("An Inconvenient Truth - climate")
inconvenient_truth_time_cors_plot
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <99>

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <e2>
```

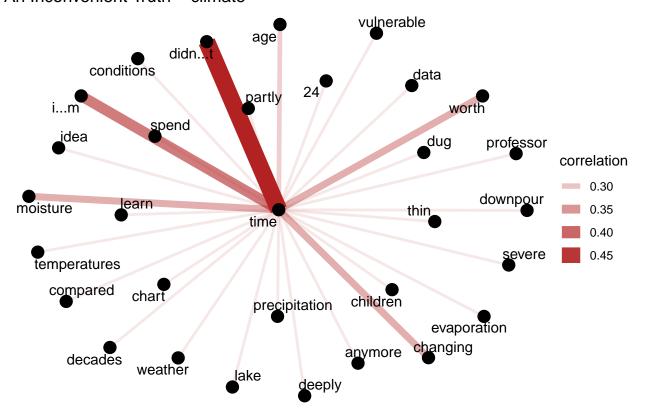
```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <99>
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## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <80>
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## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <80>
```

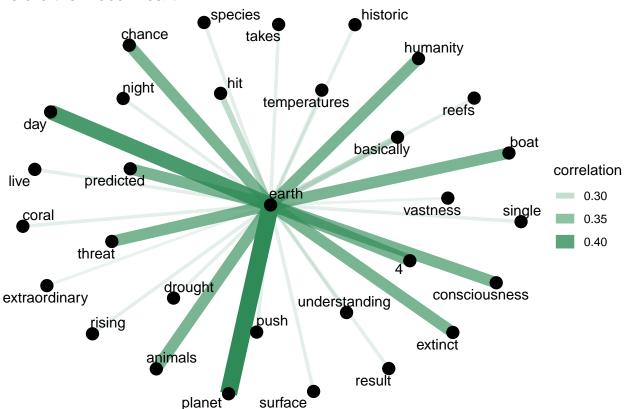
```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <80>
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <e2>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <80>
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <99>
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <80>
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## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <99>
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <99>
```

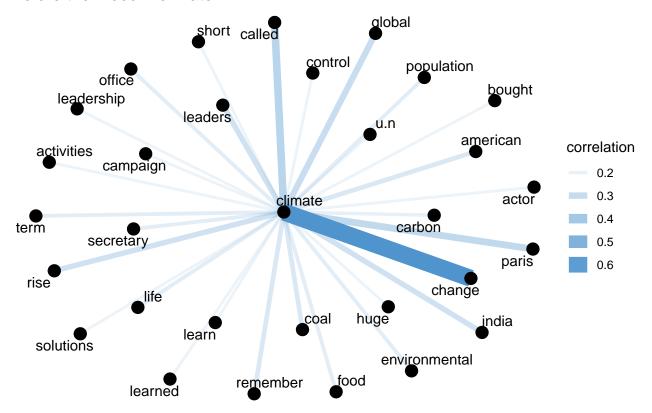
# An Inconvenient Truth - climate



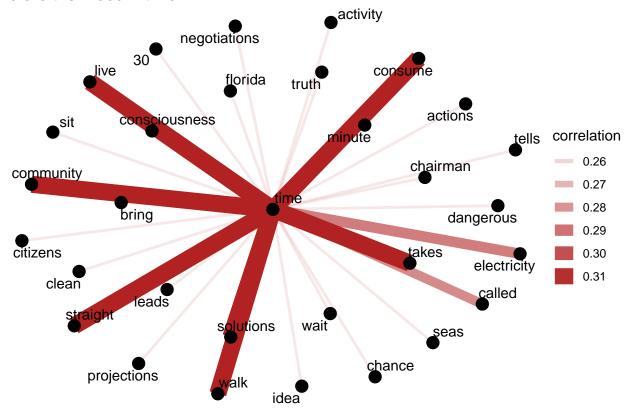




# Before the Flood - climate

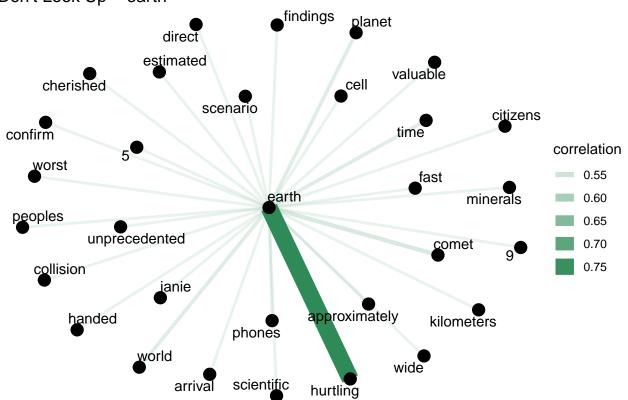


#### Before the Flood - time



```
# don't look up never mentions climate or climate change
#let's zoom in on just one of our key terms
dont_look_up_earth_cors <- word_cors_dont_look_up %>%
 filter(item1 == "earth") %>%
 mutate(n = 1:n())
dont_look_up_earth_cors_plot <- dont_look_up_earth_cors %>%
  filter(n <= 30) %>%
  graph_from_data_frame() %>%
  ggraph(layout = "fr") +
  geom_edge_link(aes(edge_alpha = correlation, edge_width = correlation), edge_colour = "seagreen") +
  geom_node_point(size = 4) +
  geom_node_text(aes(label = name), repel = TRUE,
                 point.padding = unit(0.2, "lines")) +
  theme_void() +
  ggtitle("Don't Look Up - earth")
dont_look_up_earth_cors_plot
```

# Don't Look Up - earth



```
# don't look up never mentions climate or climate change
#let's zoom in on just one of our key terms
dont_look_up_time_cors <- word_cors_dont_look_up %>%
  filter(item1 == "time") %>%
  mutate(n = 1:n())
dont_look_up_time_cors_plot <- dont_look_up_time_cors %>%
  filter(n <= 30) %>%
  graph_from_data_frame() %>%
  ggraph(layout = "fr") +
  geom_edge_link(aes(edge_alpha = correlation, edge_width = correlation), edge_colour = "firebrick") +
  geom_node_point(size = 4) +
  geom_node_text(aes(label = name), repel = TRUE,
                 point.padding = unit(0.2, "lines")) +
  theme_void() +
  ggtitle("Don't Look Up - time")
dont_look_up_time_cors_plot
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'let's' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'let's' in 'mbcsToSbcs': dot substituted for <80>
```

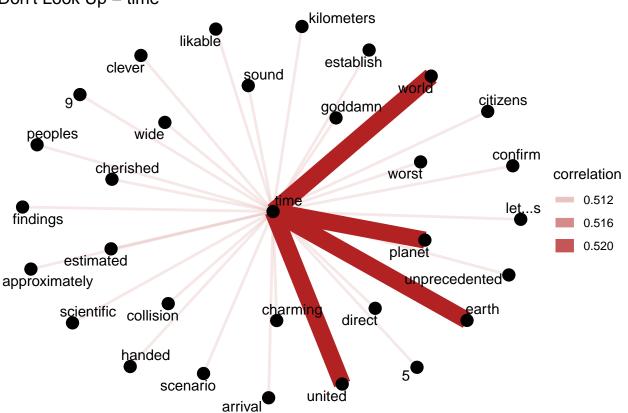
## Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
## conversion failure on 'let's' in 'mbcsToSbcs': dot substituted for <99>

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'let's' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'let's' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'let's' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'let's' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'let's' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'let's' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'let's' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'let's' in 'mbcsToSbcs': dot substituted for <99>
```

# Don't Look Up - time



earth\_cors\_plots <- (inconvenient\_truth\_earth\_cors\_plot + before\_the\_flood\_earth\_cors\_plot + dont\_look\_
earth\_cors\_plots</pre>

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <2>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
```

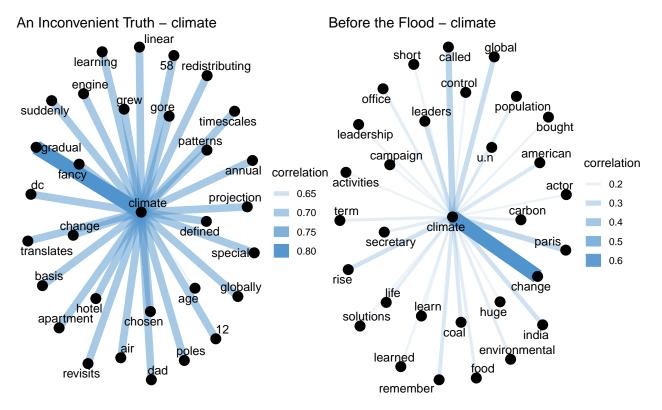
```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
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## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'it's' in 'mbcsToSbcs': dot substituted for <99>
An Inconvenient Truth – earth
                                Before the Flood - earth
                                                                 Don't Look Up - earth
                                  species
                                                                       findings
     beautiful
                                                                  direct-
                                         takes historic
                                                                              planet
   entire
                                  chance
                                                                    estimated
                                        hit humanity
                                                                                valuable
          equator
                                                                            cell
                                                                  cherished
                                   niaht
                leaving
                                                                         scenario
                                                                                 time
                                                  reefs
                                                                  confirm
     carl
        human
                                          basically
               months
                                                                                 citizens
 relativ
                                                                                         correlation
                       correlation
                 ability
                                  predicted
    laye
                                                        correlation worst
                           0.30
                                                                                minerals
                                                                                            0.55
                                 live
          arth spend
                                            astness
 modern
                                                                           earth fast
                           0.35
                                                        0.30
                                                                                            0.60
                                                                      unprecedented
  capable
                                 coral
                                                                                            0.65
                           0.40
                                                            0.35
                                                single
                  vast
                                                                 peoples
                           0.45
                                                            0.40
                                                                                            0.70
        spacecraft
                                   threat
                           0.50
                                                                                            0.75
history
                                                                                comet
                                                                   collision
                                 extraordinar
                 spring
                                                                           approximately
           sagan
                                            nsciousness
                                                                      janie
                                  drought
          gradual
                                                                              kilometers
                                             derstanding
                                                                   anded
   picture
                 top
                                                 extinct
                                                                                  wide
                                 rising
vulnerable
                                                                    world
                                               result
                                   animals
          moon
    jumps
                                             ırface
                                                                      arrival
                                                                    scientific
              future
                                    planet
```

```
ggsave(here("figs", "earth_cors_plots.png"), plot = earth_cors_plots)
```

## Saving 8 x 5 in image

climate\_cors\_plots <- (inconvenient\_truth\_climate\_cors\_plot + before\_the\_flood\_climate\_cors\_plot)
climate\_cors\_plots</pre>



ggsave(here("figs", "climate\_cors\_plots.png"), plot = climate\_cors\_plots)

## Saving 8 x 5 in image

time\_cors\_plots <- (inconvenient\_truth\_time\_cors\_plot + before\_the\_flood\_time\_cors\_plot + dont\_look\_up\_
time cors plots</pre>

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <80>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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```

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## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <99>
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <e2>
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <80>
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## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <99>
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <80>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <99>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <80>
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <80>
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```

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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <80>
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## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <99>
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## conversion failure on 'didn't' in 'mbcsToSbcs': dot substituted for <99>
```

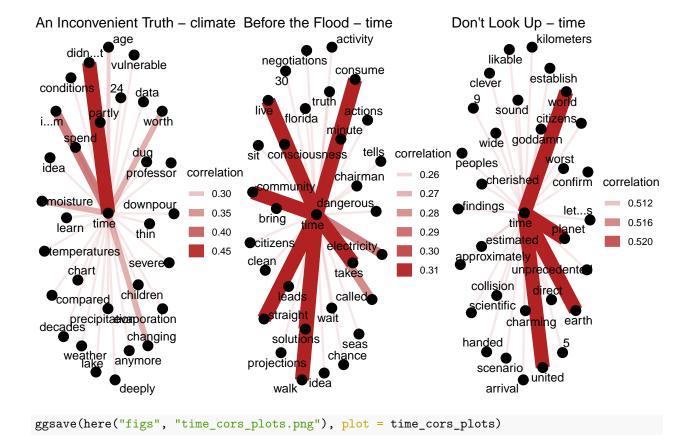
```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm' in 'mbcsToSbcs': dot substituted for <e2>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
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```

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```

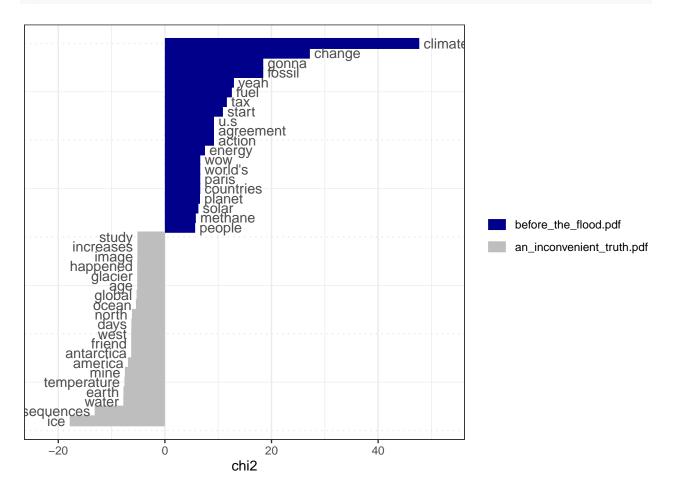


#### ## Saving 8 x 5 in image

```
keyness_function <- function(reference_report_title, target_report_title) {</pre>
  files <- list.files(path = here("data"),
                     pattern = "pdf$", full.names = TRUE)
  scripts <- lapply(files, pdf_text)</pre>
  scripts_pdf <- readtext(file = here("data", "*.pdf"),</pre>
                    docvarsfrom = "filenames",
                    docvarnames = c("title1", "title2", "title3"),
                    sep = " ")
  scripts_corp <- corpus(x = scripts_pdf, text_field = "text" )</pre>
  tokens <- tokens(scripts_corp, remove_punct = TRUE)</pre>
  toks1<- tokens_select(tokens, min_nchar = 3)</pre>
  toks1 <- tokens tolower(toks1)</pre>
  toks1 <- tokens_remove(toks1, pattern = (stop_vec))</pre>
  dfm <- dfm(toks1)</pre>
  dfm$full_title <- c("an_inconvenient_truth", "before_the_flood", "dont_look_up")</pre>
  keyness_function_plot <- dfm %>%
    dfm_subset(full_title %in% c(reference_report_title, target_report_title)) %>%
    textstat_keyness(target = paste0(target_report_title, ".pdf")) %>%
    textplot_keyness()
  keyness function plot
}
```

## # an\_inconvenient\_truth vs. before\_the\_flood

keyness\_inconveniet\_vs\_before <- keyness\_function(reference\_report\_title = "an\_inconvenient\_truth", tarkeyness\_inconveniet\_vs\_before</pre>



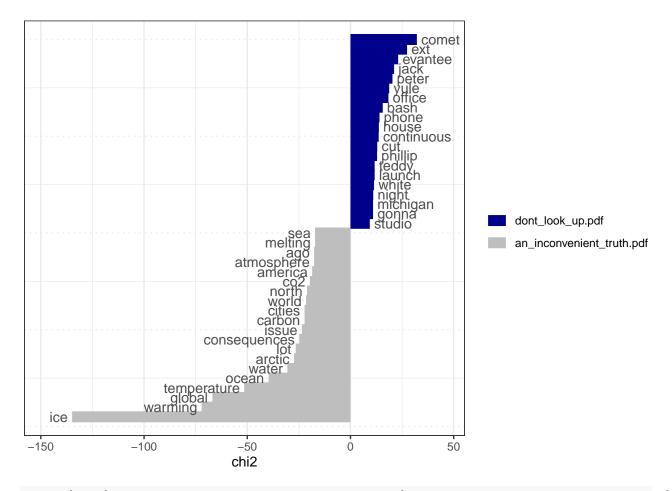
ggsave(here("figs", "keyness\_inconveniet\_vs\_before.png"), plot = keyness\_inconveniet\_vs\_before)

### ## Saving $7 \times 5$ in image

# before\_the\_flood vs. an\_inconvenient\_truth
#keyness\_function(reference\_report\_title = "before\_the\_flood", target\_report\_title = "an\_inconvenient\_t")

# an\_inconvenient\_truth vs. don't look up

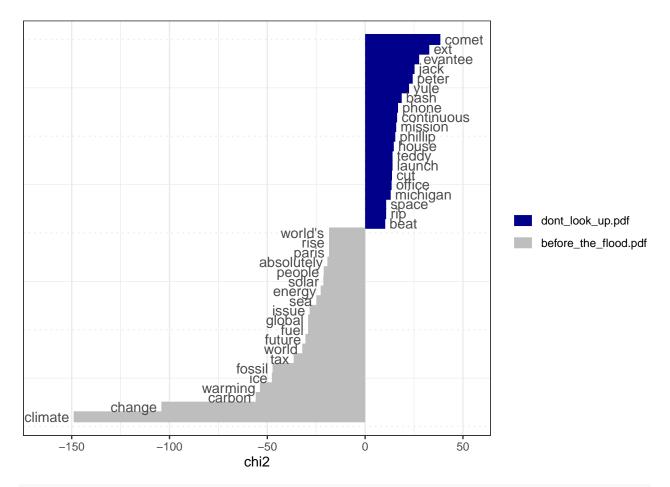
keyness\_inconvenient\_vs\_dont <- keyness\_function(reference\_report\_title = "an\_inconvenient\_truth", targ
keyness\_inconvenient\_vs\_dont</pre>



ggsave(here("figs", "keyness\_inconvenient\_vs\_dont.png"), plot = keyness\_inconvenient\_vs\_dont)

# ## Saving $7 \times 5$ in image

```
# an_inconvenient_truth vs. don't look up
keyness_before_vs_dont <- keyness_function(reference_report_title = "before_the_flood", target_report_t
keyness_before_vs_dont</pre>
```



```
ggsave(here("figs", "keyness_before_vs_dont.png"), plot = keyness_before_vs_dont)
```

## Saving 7 x 5 in image

```
# wordcloud with stop words removed
wordcloud_no_stop_words <- textplot_wordcloud(
    dfm,
    comparison = T,
    max_words = 300,
    color = c("dodgerblue", "darkgreen", "red"),
    labeloffset = .1
)

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## 650,000 could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## caused could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## factors could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## formed could not be fit on page. It will not be plotted.</pre>
```

```
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## diseases could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## tobacco could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## friend could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## teacher could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## broke could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## patterns could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## trees could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## technology could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## orleans could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## thickness could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## form could not be fit on page. It will not be plotted.
## Warning in wordcloud comparison(x, min size, max size, min count, max words, :
## rivers could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## ability could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## measured could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## hurricanes could not be fit on page. It will not be plotted.
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## japan could not be fit on page. It will not be plotted.
```

## Warning in wordcloud\_comparison(x, min\_size, max\_size, min\_count, max\_words, :

## atlantic could not be fit on page. It will not be plotted.

```
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## storm could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_words, :
## amount could not be fit on page. It will not be plotted.
```

an inconvenient truth.pdf

```
hundred happen mountains mileage capable largest deeply cars focus human stopped earth's warnings wind permatrost layer pattern nature greenlandstarted 2005 glaciers radiation worth affice head colddays econotific mountains mileage capable largest deeply cars focus head permatrost layer pattern radiation worth
                            companies from pointed cold days scientific melting pressure drought coming current atmosphere age south reasons couple killed
                                                                                      africa heat colddays scientific
                                                              solve time cap consequences record europe pole gos scientists thin co2 energy water
                      significant
      called basically energy water taxes taxes agreement fossil mine
minute island methane carbon lots island methane carbon lots million poor absolutely fuel people science gonna oil action from the science gon
                                                                                                                                                          lotglobal ocean picture billion
                                                                                                                                                                                                                                        cities image sun's ago increases ago measure framerica damage north antarctica arctic west impact
                                                                                                                          oil action fit
                   stands of tax
                                                                                                                                                                                                                                                   er
                                                                                                                                                                                                                                                                   screen half auto
                                                                                                                                                                                                                                                realize percent u.s tax
                                                                                                                                                                                                                                   v.o adul bina mom
                                                         world's yeah
                                                                                                                                                   houseriphey of adul bina momphy launch door launch door ovan headnews pursus look of the mes die
                         palm
                                                                                     future
                       uniteddegrees
                                                                                             solar
   islands
sustainable countries
decades paris
      breathe electricity
                                                                                                                                                                                                                                                     of sky to listen in
                                                   panel leaders <u></u>huge o
                                                                                                                              themes
                                                                                 entire o
                                massive
                                                                            entire by studio center by director doctor walks didly studio center by director doctor with the space chiefhell nights paula randall's drones benedict fucking media graph drones telescope manager battleship heraid coffee
```

dont\_look\_up.pdf

#### wordcloud\_no\_stop\_words

before\_the\_flood.pdf

```
## $xlog
## [1] FALSE
## $ylog
## [1] FALSE
##
## $adj
## [1] 0.5
##
```

```
## $ann
## [1] TRUE
##
## $ask
## [1] FALSE
##
## $bg
## [1] "transparent"
##
## $bty
## [1] "o"
##
## $cex
## [1] 1
##
## $cex.axis
## [1] 1
##
## $cex.lab
## [1] 1
##
## $cex.main
## [1] 1.2
## $cex.sub
## [1] 1
##
## $col
## [1] "black"
##
## $col.axis
## [1] "black"
##
## $col.lab
## [1] "black"
## $col.main
## [1] "black"
##
## $col.sub
## [1] "black"
##
## $crt
## [1] 0
## $err
## [1] 0
##
## $family
## [1] ""
##
## $fg
## [1] "black"
```

##

```
## $fig
## [1] 0 1 0 1
##
## $fin
## [1] 15 10
##
## $font
## [1] 1
##
## $font.axis
## [1] 1
##
## $font.lab
## [1] 1
##
## $font.main
## [1] 2
##
## $font.sub
## [1] 1
##
## $lab
## [1] 5 5 7
## $las
## [1] 0
##
## $lend
## [1] "round"
##
## $lheight
## [1] 1
##
## $1join
## [1] "round"
##
## $lmitre
## [1] 10
##
## $1ty
## [1] "solid"
##
## $1wd
## [1] 1
##
## $mai
## [1] 0 0 0 0
##
## $mar
## [1] 5.1 4.1 4.1 2.1
##
## $mex
## [1] 1
```

##

```
## $mfcol
## [1] 1 1
##
## $mfg
## [1] 1 1 1 1
##
## $mfrow
## [1] 1 1
##
## $mgp
## [1] 3 1 0
##
## $mkh
## [1] 0.001
##
## $new
## [1] TRUE
##
## $oma
## [1] 0 0 0 0
##
## $omd
## [1] 0 1 0 1
##
## $omi
## [1] 0 0 0 0
##
## $pch
## [1] 1
##
## $pin
## [1] 13.76 8.16
##
## $plt
## [1] 0.04133333 0.95866667 0.09200000 0.90800000
## $ps
## [1] 12
##
## $pty
## [1] "m"
##
## $smo
## [1] 1
##
## $srt
## [1] 0
##
## $tck
## [1] NA
##
## $tcl
## [1] -0.5
##
```

```
## $usr
## [1] -0.472 1.472 -0.148 1.148
## $xaxp
## [1] 0 1 5
##
## $xaxs
## [1] "r"
##
## $xaxt
## [1] "s"
##
## $xpd
## [1] FALSE
##
## $yaxp
## [1] 0 1 5
##
## $yaxs
## [1] "r"
##
## $yaxt
## [1] "s"
##
## $ylbias
## [1] 0.2
```