## Untitled

#### 2024-12-16

#### R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

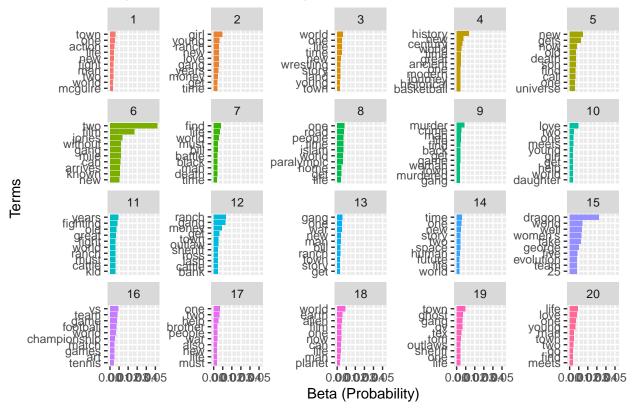
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
library(lexicon)
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
              1.1.4
                        v readr
                                     2.1.5
## v dplyr
## v forcats
              1.0.0
                         v stringr
                                     1.5.1
              3.5.1
                                     3.2.1
## v ggplot2
                         v tibble
## v lubridate 1.9.3
                         v tidyr
                                     1.3.1
## v purrr
              1.0.2
## -- Conflicts ------ tidyverse conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                     masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
library(topicmodels)
library(tidytext)
library(factoextra)
## Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3WBa
library(dplyr)
library(ggplot2)
library(wordcloud)
## Loading required package: RColorBrewer
library(RColorBrewer)
movies <- read.csv("movie_plots.csv")</pre>
movies <- movies %>%
mutate(Genre = case_when(
str_detect(Plot, "(?i)science|space|experiment|future|alien|
robot|technology|planet|human|new world|earth") ~ "Sci-Fi",
str_detect(Plot, "(?i)love|romance|relationship|affair|
wedding|couple|meets|girl") ~ "Romance",
str_detect(Plot, "(?i)war|battle|army|soldier|conflict|
military|enemy|tank|battlefield|dead") ~ "War",
str_detect(Plot, "(?i)ghost|haunt|horror|fear|terror|
scary|supernatural|creepy") ~ "Horror",
str_detect(Plot, "(?i)crime|detective|murder|investigate|
```

```
thriller | mafia | heist | mystery") ~ "Crime",
str_detect(Plot, "(?i)action|fight|fighting|adventure|hero|explosion|
battle|rescue") ~ "Action",
str_detect(Plot, "(?i)comedy|funny|humor|laugh|joke|
satire|parody") ~ "Comedy",
str_detect(Plot, "(?i)history|historical|biography|true story|
period drama|century|ancient") ~ "History",
str detect(Plot, "(?i)fantasy|magic|myth|legend|superhero|
kingdom|evil") ~ "Fantasy",
str_detect(Plot, "(?i)western|cowboy|wild west|sheriff|ranch|
town|outlaw") ~ "Western",
str_detect(Plot, "(?i)documentary|docu|true events|reality|
biopic") ~ "Documentary",
str_detect(Plot, "(?i)sport|game|team|match|championship|
wrestling") ~ "Sport",
str_detect(Plot, "(?i)home|people|brother|daughter|brothers|
friend|wife|son|father|mother") ~ "Family",
TRUE ~ "Other"
))
genre_frequency <- movies %>%
count(Genre, name = "Frequency")
plot_words <- movies %>%
unnest_tokens(word, Plot) %>%
anti_join(get_stopwords()) %>%
count(Genre, word, sort = TRUE)
## Joining with `by = join_by(word)`
nested_data <- plot_words %>%
group by (Genre) %>%
summarize(
Words = paste(unique(word), collapse = ", ")
) %>%
left_join(genre_frequency, by = "Genre")
view(nested_data)
dtm <- plot_words %>%
cast_dtm(Genre, word, n)
dtm
## <<DocumentTermMatrix (documents: 14, terms: 14842)>>
## Non-/sparse entries: 30812/176976
## Sparsity
                     : 85%
## Maximal term length: 17
## Weighting
                     : term frequency (tf)
k <- 20
lda model <- LDA(dtm, k = k, control = list(seed = 999))</pre>
topics <- tidy(lda_model, matrix = "beta")</pre>
top_terms <- topics %>%
group_by(topic) %>%
slice_max(beta, n = 10) %>%
ungroup() %>%
```

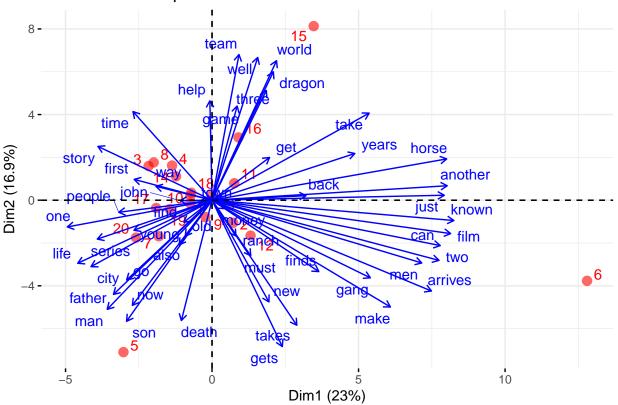
```
arrange(topic, -beta)
print(top_terms)
## # A tibble: 205 x 3
##
      topic term
                       beta
##
      <int> <chr>
                       <dbl>
##
    1
          1 town
                    0.00552
                    0.00545
##
    2
          1 one
          1 action 0.00474
##
    3
                    0.00427
##
          1 life
##
    5
          1 new
                    0.00387
##
          1 fight
                    0.00378
    7
                    0.00347
##
          1 man
                    0.00339
##
          1 two
##
    9
          1 world
                    0.00300
## 10
          1 mcguire 0.00296
## # i 195 more rows
ggplot(top_terms, aes(x = reorder_within(term, beta, topic), y = beta,
fill = factor(topic))) +
geom_col(show.legend = FALSE) +
facet_wrap(~ topic, scales = "free_y") +
coord_flip() +
scale_x_reordered() +
labs(title = "Top 10 Terms for Each Topic", x = "Terms",
y = "Beta (Probability)")
```

Top 10 Terms for Each Topic



```
filtered_topics <- topics %>%
group_by(term) %>%
summarize(total_beta = sum(beta)) %>%
top_n(50, total_beta)
topic_term_matrix <- topics %>%
filter(term %in% filtered_topics$term) %>%
spread(term, beta) %>%
column to rownames(var = "topic")
pca_result <- prcomp(topic_term_matrix, scale. = TRUE)</pre>
fviz_pca_biplot(pca_result,
repel = TRUE,
col.var = "blue",
col.ind = "red",
pointsize = 3,
alpha.ind = 0.6,
title = "Cluster Plot of Topics")
```

# **Cluster Plot of Topics**



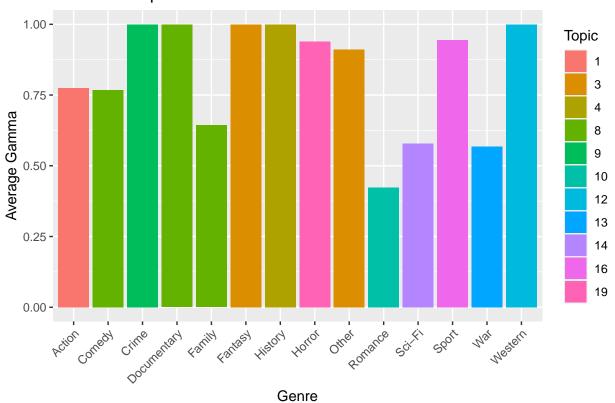
```
doc_topic_matrix <- tidy(lda_model, matrix = "gamma")

genre_topic_distribution <- doc_topic_matrix %>%
    rename(Genre = document) %>%
    group_by(Genre, topic) %>%
    summarize(avg_gamma = mean(gamma, na.rm = TRUE), .groups = "drop")

dominant_topics <- genre_topic_distribution %>%
```

```
group_by(Genre) %>%
slice_max(avg_gamma, n = 1) %>%
ungroup()
print(dominant_topics)
## # A tibble: 14 x 3
##
     Genre topic avg_gamma
##
     <chr>
              <int>
                        <dbl>
## 1 Action
                        0.775
                 1
## 2 Comedy
                 8
                        0.769
                 9 1.00
## 3 Crime
## 4 Documentary 8 0.998
## 5 Family
                 8 0.643
                 3 1.00
4 1.00
## 6 Fantasy
## 7 History
                19 0.939
## 8 Horror
## 9 Other
                  3
                        0.910
## 10 Romance
                 10
                        0.423
## 11 Sci-Fi
                 14 0.579
## 12 Sport
                 16
                        0.945
## 13 War
                        0.567
                  13
## 14 Western
                  12
                        1.00
ggplot(dominant_topics, aes(x = Genre, y = avg_gamma, fill = factor(topic))) +
geom_col() +
labs(title = "Dominant Topics for Each Genre",
x = "Genre",
y = "Average Gamma",
fill = "Topic") +
theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

## Dominant Topics for Each Genre



```
palette <- brewer.pal(8, "Dark2")

k <- 14
for (i in 1:k) {
  topic_words <- topics %>%
  filter(topic == i) %>%
  arrange(desc(beta))

wordcloud(words = topic_words$term,
freq = topic_words$beta,
max.words = 100,
  random.order = FALSE,
  colors = palette)
}
```

```
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## freedom could not be fit on page. It will not be plotted.

## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## discover could not be fit on page. It will not be plotted.

## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## california could not be fit on page. It will not be plotted.

## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## behind could not be fit on page. It will not be plotted.

## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## people could not be fit on page. It will not be plotted.
```

```
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : away
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : horse
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic words$term, freq = topic words$beta, : owner
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## scroll could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : jack
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : white
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## brother could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## championship could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : money
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : finds
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## saloon could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : gene
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : way
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : never
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## gunfighter could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : lives
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : round
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : brick
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : time
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : truck
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : stock
## could not be fit on page. It will not be plotted.
```

```
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : wife
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : game
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## american could not be fit on page. It will not be plotted.
                                                                  buck
                                                           mother
                                                                 never work SO
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## skateboarding could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## became could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## workout could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## illustrated could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : woman
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## becomes could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## swimsuit could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : crown
## could not be fit on page. It will not be plotted.
```

```
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## fellows could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## special could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## champion could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## business could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## mission could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## behind could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## everything could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic words$term, freq = topic words$beta, : takes
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : west
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : june
## could not be fit on page. It will not be plotted.
                                                                    20th 全 cnampionsnips
                                                               ewers
                                                  €
                                                          country
                                                               modern 🖁
                                                            kentucky
                                               game
```

```
group government
                                                                                       inlikely back
jackson frame
                                                                   traveling decided jackson frame wants wants mind gets learns carrying losing big together seven hunt just career can with out together seven hunt just career
                                                                                      unlikely
     youngslaves
                                                        gary
                                                                   looking tom can without
                                                                 pop roberts gangjones aid Ctake payevents
black;≡
takes
                                                                 place make
                                                 elfgroup
                                                                     horse
                                                              americanbring
vearstorm
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                                                                                      ena
                                                                             stop working
                                                                     leader
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                                                                           andy years trying &
                                       Chuilding
                                                                        meanwhile discover mus
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## discovered could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## indian could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## america could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## streets could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## justice could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## forced could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : great
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic words$term, freq = topic words$beta, : west
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
```

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

given everything

mile

order takes
works by vowed
works by asked

```
place story death try serialhunt offer land offer land offer events battle 5 dance lost one old bill world army get takes time find man war best richson 5 life must ogets like men back black black kill two go will be land and lane daughter town family
```

```
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## training could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## members could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : gang
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : thing
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## around could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## behind could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : story
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic words$term, freq = topic words$beta, : way
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : boy
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : watch
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## documentary could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## swimming could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## trials could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic words$term, freq = topic words$beta, : waves
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## saloon could not be fit on page. It will not be plotted.
```

```
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : lion
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## homesteaders could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : terry
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## muhammed could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : joan
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## interviews could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : dam
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic words$term, freq = topic words$beta, :
## explores could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## season could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : cup
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## sometimes could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : young
## could not be fit on page. It will not be plotted.
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## scenes could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## looking could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## government could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## person could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : santa
## could not be fit on page. It will not be plotted.
```

```
rio
Ø
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## escapes could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## crosby could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## cyclone could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## framed could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## investigate could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## shirley could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## toreno could not be fit on page. It will not be plotted.
                                                                      leads never
                                                                                    setanothercome
                                                                                    find drsecret
                                                           must high
                                                           partdead
                                                                horse
                                                           men
                                                        people o
                                                          team 🛣
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   help
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                                                                 localkilled takes
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : known
```

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

```
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : ned
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## become could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : night
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : men
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## protect could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## estranged could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## continues could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : save
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : death
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic words$term, freq = topic words$beta, :
## gunfight could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## making could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## gunfighter could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : quest
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : come
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## begins could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## masque could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : films
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : home
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : see
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## reputation could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : king
## could not be fit on page. It will not be plotted.
```

```
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## homesteaders could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : judge
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic words$term, freq = topic words$beta, :
## cowboy could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## framed could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## kobblestone could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## legend could not be fit on page. It will not be plotted.
                                                                               ck wade
                                                           brother
                                                           ranches
                                                                g
                                                          parker
                                                            john
                                                            uncle 🔿
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## saunders could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## together could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : night
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : must
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : mary
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## behind could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : based
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## johnny could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## government could not be fit on page. It will not be plotted.
```

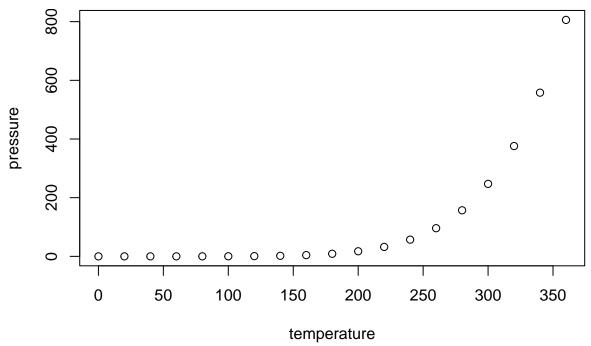
```
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : great
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## attack could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : star
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## mankind could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : named
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : james
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## government could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : every
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## attack could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : moon
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : small
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : may
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## mysterious could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, : ghost
## could not be fit on page. It will not be plotted.
## Warning in wordcloud(words = topic_words$term, freq = topic_words$beta, :
## escape could not be fit on page. It will not be plotted.
```

## Warning in wordcloud(words = topic\_words\$term, freq = topic\_words\$beta, : bring
## could not be fit on page. It will not be plotted.



# **Including Plots**

You can also embed plots, for example:



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.