tip_of_the_day_slides

```
library(emojifont)
library(palmerpenguins)
library(ggplot2)
library(tidyverse)
```

```
-- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
v dplyr     1.1.4     v readr     2.1.5
v forcats   1.0.0     v stringr   1.5.1
v lubridate 1.9.4     v tibble    3.2.1
v purrr     1.0.4     v tidyr     1.3.1
-- Conflicts ------------------------------------------ tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to beco
```

```
library(dplyr)

penguins <- penguins
```

```
emoji(search_emoji('penguin'))
```

```
[1] " "
```

```
emoji(search_emoji("heart"))
```

```
 [1] " "    " "    " "    " "    " "    "  " " "  " " "      " "
[10] " "    " "    " "    " "    " "    " "      " "    " "    " "
[19] " "    " "    " "    " "    " "
```

```
search_emoji('heart')
```

```
 [1] "heart_eyes"                    "kissing_heart"
 [3] "heart_eyes_cat"                "couple_with_heart_woman_man"
 [5] "couple_with_heart"             "couple_with_heart_woman_woman"
 [7] "couple_with_heart_man_man"     "heart"
 [9] "yellow_heart"                  "green_heart"
[11] "blue_heart"                    "purple_heart"
[13] "black_heart"                   "broken_heart"
[15] "heavy_heart_exclamation"       "two_hearts"
[17] "revolving_hearts"              "heartbeat"
[19] "heartpulse"                    "sparkling_heart"
[21] "gift_heart"                    "heart_decoration"
[23] "hearts"
```

```
paste0("Hi ", emoji("smile"), "!")
```

```
[1] "Hi  !"
```

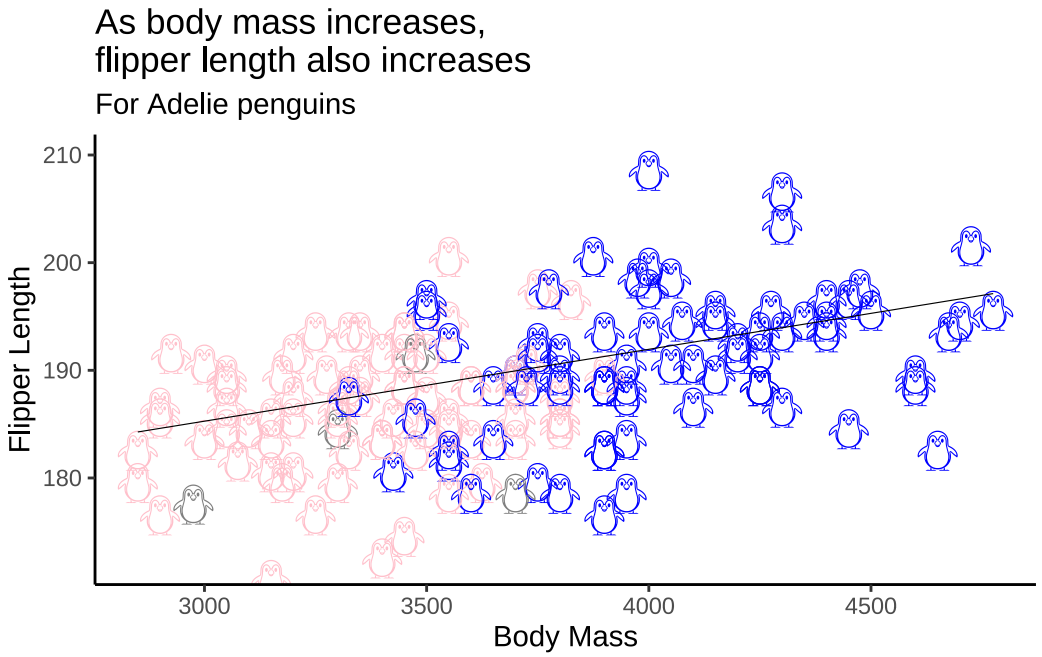
```
penguins_adelie <- penguins |>
  filter(species == "Adelie") |>
  mutate(label = emoji("penguin"),
         type = sex)

penguins_adelie |>
ggplot(aes(x = body_mass_g, y = flipper_length_mm)) +
  geom_text(aes(color = type, label = label), family = "EmojiOne", size = 6) +
  geom_smooth(method = lm, se = FALSE, size = 0.2, color = "black") +
  scale_color_manual(values = c("female" = "pink", "male" = "blue", "NA" = "black")) +
  labs(title = "As body mass increases, \nflipper length also increases",
       subtitle = paste0("For Adelie penguins"),
       x = "Body Mass",
       y = "Flipper Length",
       color = "Sex") +
  theme_classic() +
  theme(legend.position = "none")
```

```
Warning: Using `size` aesthetic for lines was deprecated in ggplot2 3.4.0.
i Please use `linewidth` instead.
```

```
`geom_smooth()` using formula = 'y ~ x'
```

```
Warning: Removed 1 row containing non-finite outside the scale range
(`stat_smooth()`).
```

```
Warning: Removed 1 row containing missing values or values outside the scale range
(`geom_text()`).
```




```
library(tidytext)
library(janeaustenr)

all_austen <- austen_books() |>
  group_by(book) |>
  mutate(
    linenumber = row_number(),
    chapter = cumsum(str_detect(text,
                                regex("^chapter [\\divxlc]",
                                      ignore_case = TRUE)))) |>
  ungroup()

all_austen
```

```
# A tibble: 73,422 x 4
   text                    book                linenumber chapter
   <chr>                   <fct>                    <int>   <int>
 1 "SENSE AND SENSIBILITY" Sense & Sensibility          1       0
 2 ""                      Sense & Sensibility          2       0
 3 "by Jane Austen"        Sense & Sensibility          3       0
 4 ""                      Sense & Sensibility          4       0
 5 "(1811)"                Sense & Sensibility          5       0
 6 ""                      Sense & Sensibility          6       0
 7 ""                      Sense & Sensibility          7       0
 8 ""                      Sense & Sensibility          8       0
 9 ""                      Sense & Sensibility          9       0
10 "CHAPTER 1"             Sense & Sensibility         10       1
# i 73,412 more rows
```

```
tidy_austen <- all_austen |>
  unnest_tokens(output = "word", input = text) |>
  filter(chapter > 0)

emma_words <- tidy_austen |>
  anti_join(stop_words, by = c("word" = "word")) |>
  count(book, word, name = "freq") |>
  filter(book == "Emma") |>
  slice_max(order_by = freq, n = 200, with_ties = FALSE) |>
  mutate(freq = as.numeric(freq),
         freq = freq/10) |>
  rename("words" = "word") |>
  select(-book)
```

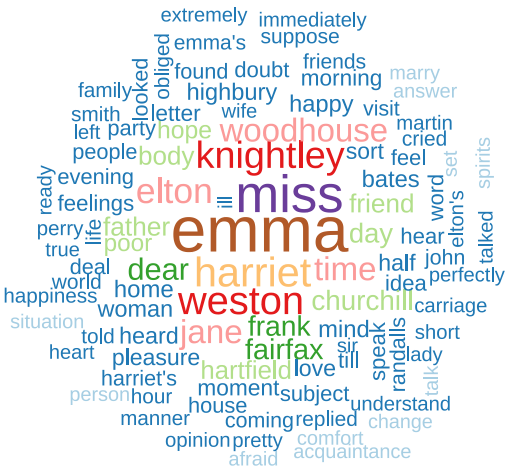
```
library(wordcloud)
```

```
Loading required package: RColorBrewer
```

```
library(RColorBrewer)

str(emma_words)
```

```
tibble [200 x 2] (S3: tbl_df/tbl/data.frame)
 $ words: chr [1:200] "emma" "miss" "harriet" "weston" ...
 $ freq : num [1:200] 78.5 59.9 41.5 38.9 35.6 31.9 28.1 27.9 27.7 24.1 ...
```

```
par(bg = "white")

with(emma_words, wordcloud(words = words,
                           freq = freq,
                           max.words = 100,
                           min.freq = 0.5,
                           scale = c(2, .5),
                           random.order = FALSE,
                           colors = brewer.pal(12, "Paired")
                           ))
```

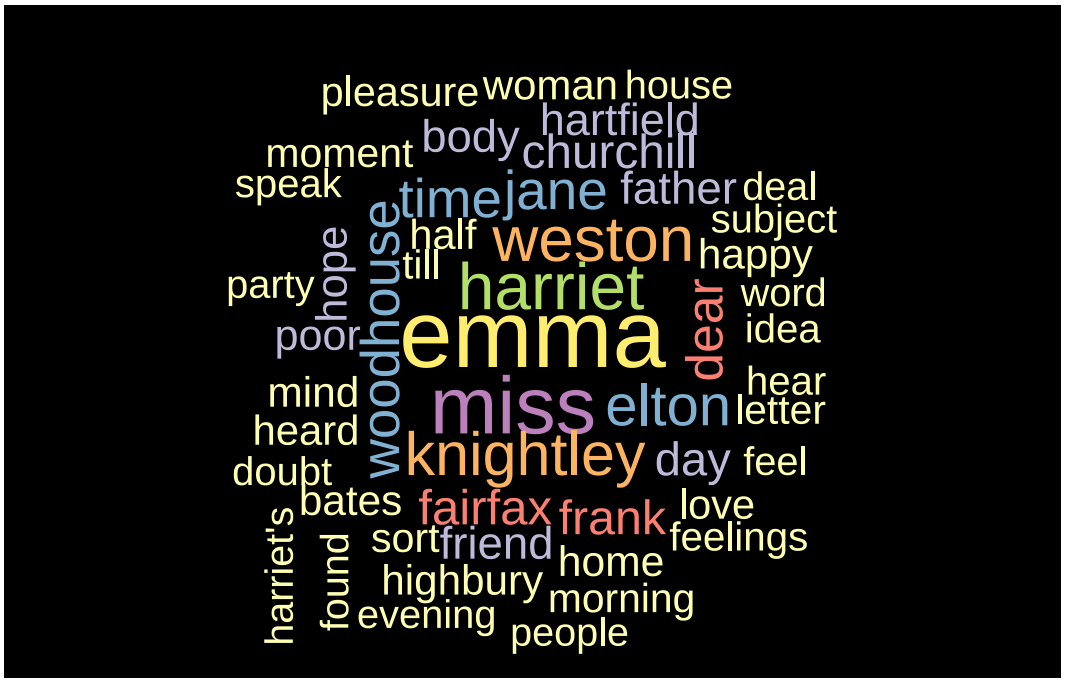



```
brewer.pal.info <- brewer.pal.info
```

```
library(wordcloud)
library(RColorBrewer)

str(emma_words)
```

```
tibble [200 x 2] (S3: tbl_df/tbl/data.frame)
 $ words: chr [1:200] "emma" "miss" "harriet" "weston" ...
 $ freq : num [1:200] 78.5 59.9 41.5 38.9 35.6 31.9 28.1 27.9 27.7 24.1 ...
```

```
par(bg = "black")

with(emma_words, wordcloud(words = words,
                           freq = freq,
                           max.words = 50,
                           min.freq = 0.5,
                           scale = c(3, 1),
                           random.order = FALSE,
                           colors = brewer.pal(12, "Set3")
                           ))
```




```
require(devtools)
```

```
Loading required package: devtools
```

```
Loading required package: usethis
```

```
install_github("lchiffon/wordcloud2")
```

```
Using GitHub PAT from the git credential store.
```

```
Skipping install of 'wordcloud2' from a github remote, the SHA1 (8a12a3b6) has not changed s
  Use `force = TRUE` to force installation
```

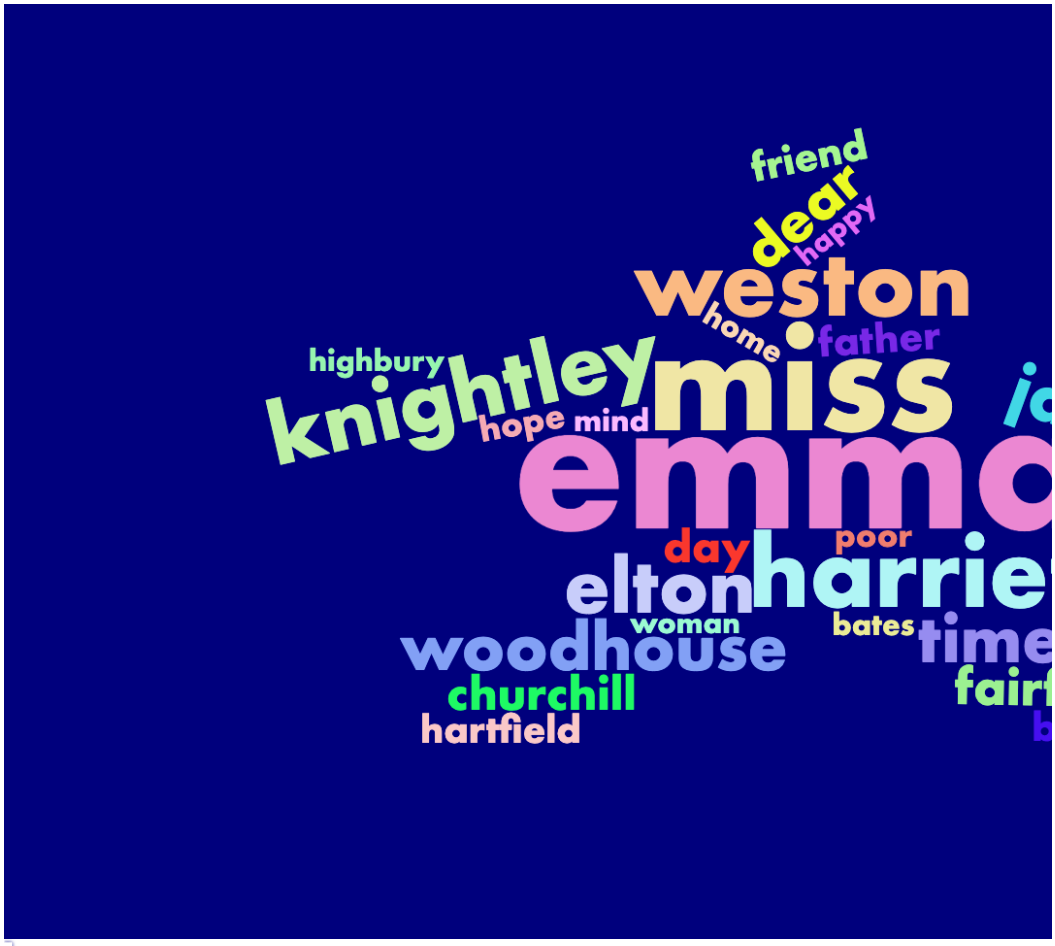
```
library(wordcloud2)

wordcloud2(data = emma_words,
           color = "random-dark")
```

```
file:////private/var/folders/gw/s40fn9791jncwh1kml0g12z40000gn/T/RtmpAcjUfY/file169252ef8e66
```


weston
miss
emma
harriet

```
wordcloud2(data = emma_words,
           fontFamily = "Futura",
           color = "random-light",
           backgroundColor = "navy",
           shape = 'star')
```

file:////private/var/folders/gw/s40fn9791jncwh1kml0g12z40000gn/T/RtmpAcjUfY/file16925aa8a8f1/


friend
dear
happy
weston
home
father
highbury
knightley
miss
hope
mind
emmo
day
poor
elton
harrie
woman
bates
time
woodhouse
churchill
hartfield

```r
figPath <- "/Users/bethsenf/Downloads/opened-book-3163 (1).png"

letterCloud(emma_words, word = "EMMA", size = 0.75)
```

file:////private/var/folders/gw/s40fn9791jncwh1kml0g12z40000gn/T/RtmpAcjUfY/file169255a38cef

```
file.exists(figPath)
```

```
[1] TRUE
```