Tidy Tuesday Billboard

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1 Packages

```
# load required packages
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.3.1 --
                  v purrr
## v ggplot2 3.3.5
                            0.3.4
## v tibble 3.1.4 v dplyr 1.0.7
## v tidyr 1.1.3 v stringr 1.4.0
## v readr 2.0.1 v forcats 0.5.1
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                  masks stats::lag()
library(tidytuesdayR)
library(ggridges)
library(ggtext)
theme_set(theme_light())
```

2 Data

```
data_tue <- tidytuesdayR::tt_load('2021-09-14')

## --- Compiling #TidyTuesday Information for 2021-09-14 ----

## --- There are 2 files available ---

## --- Starting Download ---

##

## Downloading file 1 of 2: 'billboard.csv'

## Downloading file 2 of 2: 'audio_features.csv'

## --- Download complete ---

We have two files for this tuesday data

billboard <- data_tue$billboard

spotify <- data_tue$audio_features
```

3 Function

Make a function to pick keywords, in this case colors

4 Subset

Make a list of colors and map the function

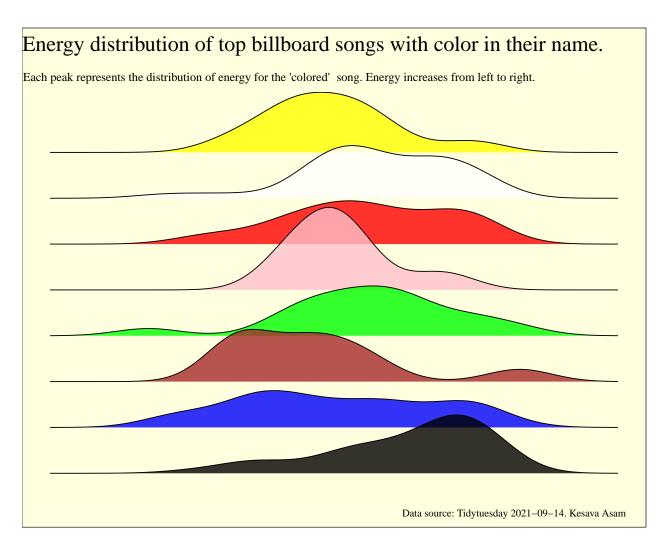
```
rygb <- c("Blue ", "Green ", "Yellow ", "Red ", "Black ", "White ", "Brown ", "Pink ")
# Note: Space next to the color is to get rid of words that are not colors
rygb_songs <- map_df(rygb, pick_color)</pre>
```

5 Visualization

Make ridges plot

```
rygb_songs %>%
  arrange(desc(color_theme)) %>%
  ggplot(aes(x = energy, y = color_theme, fill = color_theme)) +
  ggridges::geom_density_ridges(alpha = 0.8) +
  scale_color_identity(aesthetics = c("fill", "color")) +
  theme_void() +
  labs(title = "Energy distribution of top billboard songs with color in their name.",
      subtitle = "Each peak represents the distribution of energy for the 'colored' song. Energy incre
      caption = "Data source: Tidytuesday 2021-09-14. Kesava Asam") +
  theme(
    \#plot.margin = margin(160, 260, 40, 160),
   plot.background = element_rect(fill = "#FFFFE0"),
   plot.title = element_textbox_simple(colour = "black", family = "Times",
                                        size = 25, halign = 0.01, margin = margin(10,0,10,0)),
   plot.caption = element_textbox_simple(colour = "black", family = "Times",
                                          size = 12, halign = 0.95, margin = margin(10,0,10,0)),
   plot.subtitle = element_textbox_simple(colour = "black", family = "Times",
                                           size = 14, halign = 0.01, margin = margin(10,0,10,0))
```

Picking joint bandwidth of 0.0758



```
ggsave("tidy_tuesday_billboard_result.png",
    plot = last_plot(), width = 290, height = 190,
    units = "mm", dpi = 400)
```

Picking joint bandwidth of 0.0758

sessionInfo()

```
## R version 4.1.1 (2021-08-10)
## Platform: x86_64-apple-darwin17.0 (64-bit)
## Running under: macOS Mojave 10.14.6
## Matrix products: default
           /Library/Frameworks/R.framework/Versions/4.1/Resources/lib/libRblas.0.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/4.1/Resources/lib/libRlapack.dylib
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
## attached base packages:
## [1] stats
                 graphics grDevices utils
                                               datasets methods
                                                                   base
##
## other attached packages:
## [1] ggtext_0.1.1
                                              tidytuesdayR_1.0.1 forcats_0.5.1
                           ggridges_0.5.3
   [5] stringr 1.4.0
                           dplyr 1.0.7
                                              purrr 0.3.4
                                                                  readr 2.0.1
## [9] tidyr_1.1.3
                           tibble_3.1.4
                                              ggplot2_3.3.5
                                                                 tidyverse_1.3.1
##
## loaded via a namespace (and not attached):
## [1] Rcpp 1.0.7
                         lubridate_1.7.10 assertthat_0.2.1 digest_0.6.27
## [5] utf8_1.2.2
                         R6_2.5.1
                                          cellranger_1.1.0 plyr_1.8.6
## [9] backports_1.2.1 reprex_2.0.1
                                          evaluate_0.14
                                                           highr_0.9
## [13] httr_1.4.2
                         pillar_1.6.2
                                          rlang_0.4.11
                                                           curl_4.3.2
## [17] readxl_1.3.1
                         rstudioapi_0.13
                                          rmarkdown_2.10
                                                           labeling_0.4.2
## [21] selectr_0.4-2
                         bit_4.0.4
                                          munsell_0.5.0
                                                           gridtext_0.1.4
## [25] broom 0.7.9
                                          modelr 0.1.8
                                                           xfun 0.25
                         compiler_4.1.1
## [29] pkgconfig_2.0.3 htmltools_0.5.2
                                          tidyselect_1.1.1 fansi_0.5.0
## [33] crayon_1.4.1
                         tzdb_0.1.2
                                          dbplyr_2.1.1
                                                           withr 2.4.2
## [37] grid_4.1.1
                         jsonlite_1.7.2
                                          gtable_0.3.0
                                                           lifecycle_1.0.0
## [41] DBI_1.1.1
                         magrittr_2.0.1
                                          scales_1.1.1
                                                           vroom_1.5.4
## [45] cli 3.0.1
                                          farver 2.1.0
                         stringi 1.7.4
                                                           fs 1.5.0
## [49] xml2_1.3.2
                         ellipsis_0.3.2
                                          generics_0.1.0
                                                           vctrs 0.3.8
## [53] tools 4.1.1
                         bit64 4.0.5
                                          glue 1.4.2
                                                           markdown 1.1
## [57] hms 1.1.0
                         parallel_4.1.1
                                          fastmap_1.1.0
                                                           yaml_2.2.1
## [61] colorspace_2.0-2 rvest_1.0.1
                                          knitr_1.33
                                                           haven_2.4.3
## [65] usethis_2.0.1
```