# ggplot2 优雅的绘制卡通版棒棒糖图

阎俊安 2022-01-11

# 目录

1	安装并加载 R 包	1
2	导人数据	1
3	数据清洗	2
4	绘制棒棒糖图	2
太	节来介绍加何使用 ggnlot2 来绘制卡通版棒棒糖图 下面通过一个小栗子来进行展示	

# 1 安装并加载 R 包

```
package.list=c("tidyverse","corrplot","corrr","RColorBrewer","showtext","magrittr")

for (package in package.list) {
   if (!require(package,character.only=T, quietly=T)) {
      install.packages(package)
      library(package, character.only=T)
   }
}
```

## 2 导入数据

```
df <- read_csv("data.csv") %>% select(danceability:tempo) %>% select(-mode,-key)
```

3 数据清洗 2

#### 3 数据清洗

```
df %<>% correlate() %>% # 计算相关性
pivot_longer(-term, names_to = "group", values_to = "corr") %>%
filter(term == "danceability" & !is.na(corr)) %>%
mutate(group = str_to_title(group),
budge = case_when(corr > 0 ~ -.075,corr < 0 ~ .075, TRUE ~ 0),
align = case_when(corr > 0 ~ 1,corr < 0 ~ 0, TRUE ~ 0))
```

### 4 绘制棒棒糖图

```
df %>% ggplot(aes(reorder(group, corr), corr)) +
 geom_hline(yintercept = 0, linetype = 2) +
  geom_segment(aes(x = reorder(group, corr), xend = reorder(group, corr),
                  y = 0, yend = corr), linetype = 4, size = 1, color = "grey50") +
  geom_point(size = 12, aes(fill = corr), shape = 21) +
  geom_text(aes(label = round(corr, digits = 2), # 定义小数点位数
               color = ifelse(abs(corr) < .2, "black", "white")),</pre>
           size = 2, family = "rs") +
  geom text(aes(label = group,
               y = budge, hjust = align), family = "rs", color = "black") +
  scale fill gradient2(low = "#D12424", mid = "white", high = "#f28bd5") + # 定义点填充颜色
  scale_color_manual(values = c("black", "black")) + # 设置字体颜色
  scale_y_continuous(breaks = c(-.45, .55), labels = c("Less Danceable", "More Danceable")) +
  theme_minimal() + # 主题设置
  theme(legend.position = "none",
       text = element_text(family = "rs", color = "black"),
       panel.grid.major = element_blank(),
       panel.grid.minor = element_blank(),
       axis.text.y = element_blank(),
       axis.line.x = element_line(arrow = arrow(length = unit(.3, "cm"), ends = "both"),
                                  color = "black")) +
  coord_flip() # 图像反转
```

4 绘制棒棒糖图 3

