

Music Insight

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Importing data

```
## install.packages('tidyverse')
suppressMessages(library("tidyverse"))

suppressMessages(surv <- read_csv("https://raw.githubusercontent.com/introdsci/MusicSurvey/master/music_survey.csv"))
suppressMessages(pref <- read_csv("https://raw.githubusercontent.com/introdsci/MusicSurvey/master/preferences.csv"))

N <- nrow(surv)
```

Changing column names for better understanding

```
colnames(surv)[colnames(surv) == "Timestamp"] <- "time_sub"
colnames(pref)[colnames(pref) == "Timestamp"] <- "time_sub"
colnames(surv)[colnames(surv) == "First, we are going to create a pseudonym for you to keep this survey safe"] <- "name"
colnames(surv)[colnames(surv) == "What is your pseudonym?"] <- "name"
colnames(pref)[colnames(pref) == "What was your pseudonym?"] <- "name"
colnames(surv)[colnames(surv) == "Sex"] <- "sex"
colnames(surv)[colnames(surv) == "Major"] <- "major"
colnames(surv)[colnames(surv) == "Academic Year"] <- "grade_level"
colnames(surv)[colnames(surv) == "Year you were born (YYYY)"] <- "year_born"
colnames(surv)[colnames(surv) == "Which musical instruments/talents do you play? (Select all that apply)"] <- "instrument"
colnames(surv)[colnames(surv) == "Artist"] <- "song_artist"
colnames(surv)[colnames(surv) == "Song"] <- "song"
colnames(surv)[colnames(surv) == "Link to song (on Youtube or Vimeo)"] <- "link"
colnames(surv)
```

```
## [1] "time_sub"      "generator"      "name"           "sex"            "major"
## [6] "grade_level"   "year_born"      "instrument"      "song_artist"    "song"
## [11] "link"
```

Making some Nice Tibbles

```
people <- tibble(generator = surv$generator, name = surv$name, sex = surv$sex, major = surv$major, grade_level = surv$grade_level, year_born = surv$year_born, instrument = surv$instrument, song_artist = surv$song_artist, song = surv$song, link = surv$link)

song_list <- tibble(song_artist = surv$song_artist, song = surv$song, link = surv$link, name = surv$name)

tempPref <- pref[2:45]

temp <- gather(tempPref, key = "song_name", value = "rating", -name)

ratings <- tibble(persName = temp$name, songName = temp$song_name, rating = temp$rating)
```

```

people$time <- as.POSIXlt(parse_datetime(people$time, format = "%D %H:%M"))

for(n in 1:N) {
  if(identical(x = people$generator[n], y = "Fake rapper name generator")) {
    people$generator[n] <- "rapper"
  } else {
    people$generator[n] <- "band"
  }
}

## install.packages("pracma")
suppressMessages(library("pracma"))
for(n in 1:N) {
  for(z in 1:N) {
    if(strcmpi(people$major[n], people$major[z])) {
      people$major[z] = people$major[n]
    }
  }
}
detach("package:pracma", unload=TRUE)

people$major <- as.factor(people$major)

levels(people$major)

```

```

## [1] "Computer Engineering"      "Computer information systems"
## [3] "Computer Science"         "Math"

```

Making a simple graph

```

ratings$songName <- as.factor(ratings$songName)

(p <- ggplot(data = ratings, aes(songName, rating, colour = factor(songName))) + geom_count() + theme(a

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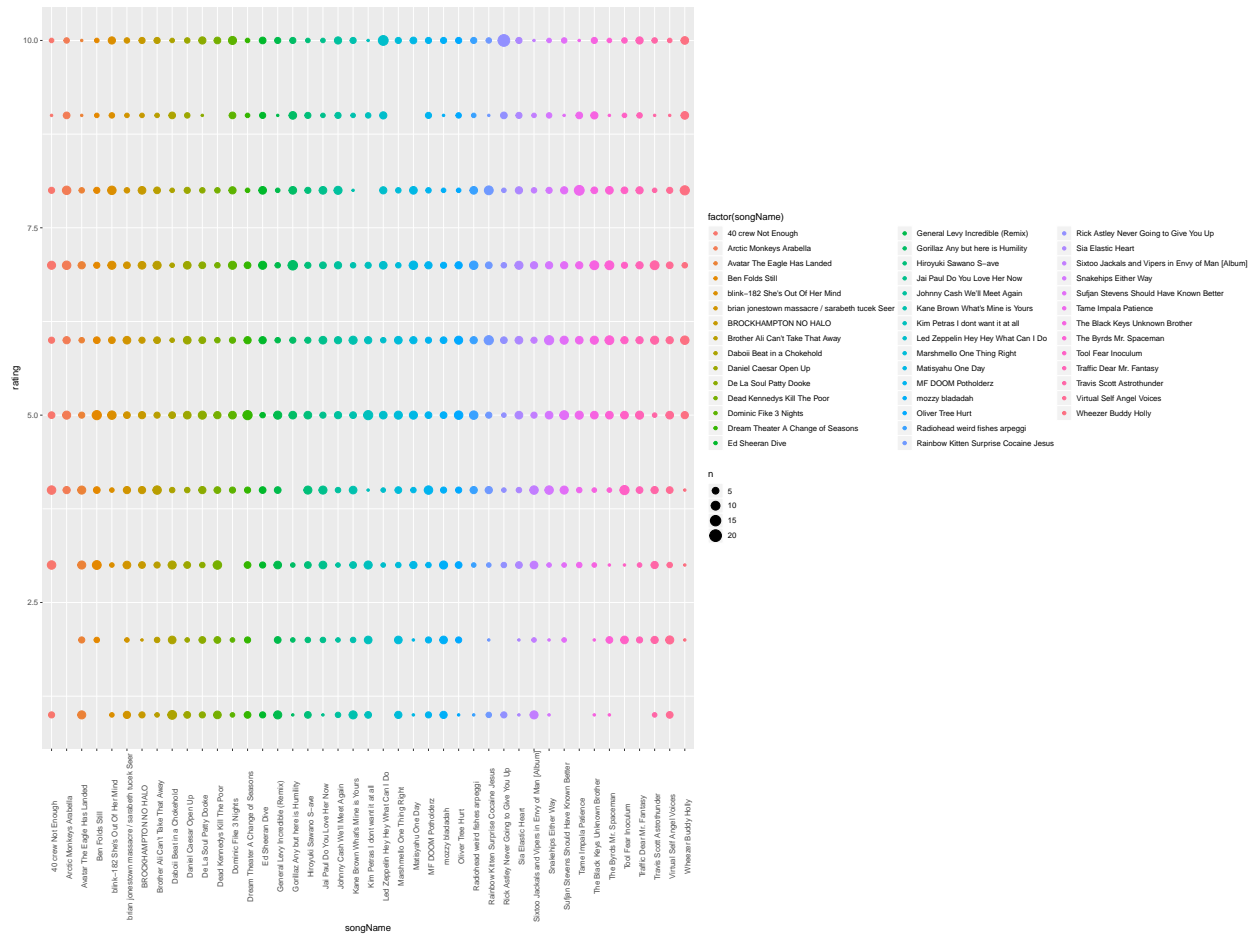
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```
(p2 <- ggplot(ratings, aes(persName, rating, colour = factor(as.factor(persName)))) + geom_count() + theme_minimal())
```



The graphs