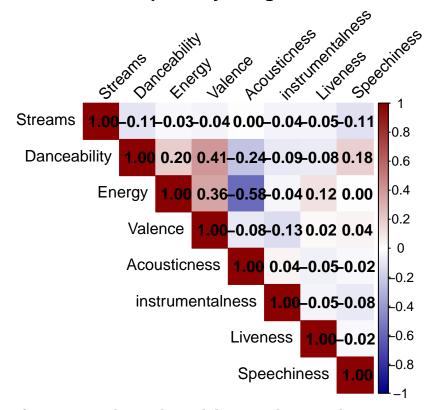
1. Correlation heatmap between key music features and stream counts.

```
# install.packages("ggplot2")
# install.packages("reshape2")
# install.packages("RColorBrewer")
# install.packages(corrplot)
library(ggplot2)
library(reshape2)
library(RColorBrewer)
library(corrplot)
## corrplot 0.95 loaded
# Load the data
spotify_data <- read.csv("Spotify Most Streamed Songs.csv")</pre>
# Select relevant features for correlation analysis
correlation_features <- spotify_data[, c("streams", "danceability_.", "energy_.", "valence_.", "acousti
colnames(correlation_features) <- c("Streams", "Danceability", "Energy", "Valence", "Acousticness", "ins</pre>
# Convert columns to numeric if necessary and handle NA values
correlation_features <- data.frame(lapply(correlation_features, function(x) as.numeric(as.character(x))</pre>
## Warning in FUN(X[[i]], ...): NAs introduced by coercion
# Remove rows with NA values to ensure complete pairs for correlation
correlation_features <- na.omit(correlation_features)</pre>
# Calculate the correlation matrix
correlation_matrix <- cor(correlation_features, use = "complete.obs")</pre>
# Create a heatmap using corrplot
heatmap_plot<-corrplot(correlation_matrix, method = "color", type = "upper", tl.col = "black", tl.srt =
```

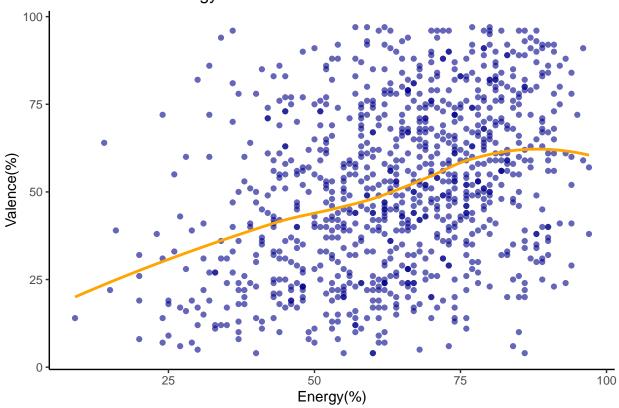
Correlation Heatmap of Key Song Features and Streams



2. Scatterplot of energy vs valence, danceability vs valence, and energy vs acounstiness.

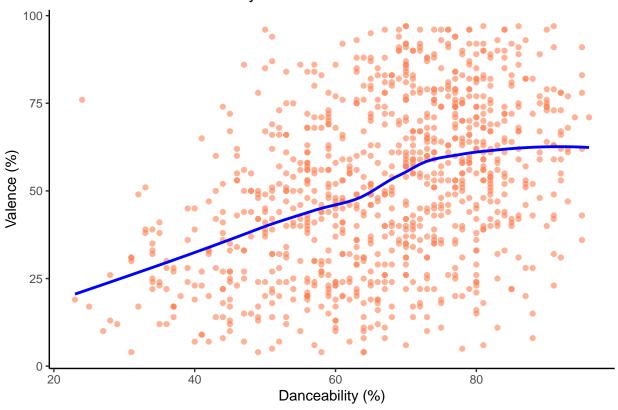
^{## &#}x27;geom_smooth()' using formula = 'y ~ x'

Scatter Plot of Energy vs Valence



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

Scatter Plot of Danceability vs Valence



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

