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#####
#Analysis of Sales Report of a clothes Manufacturing Outlet . We will find current
#trends, and attributes affecting sales.
#####SECTION 4#####
#To increase Sales, the managment wants to analyze the attributes of dresses
#and find which are the leading factors affecting the sales of a dress
#####SECTION 4#####
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#Importing the libraries
library(dplyr)
library(readxl)

#####

#Importing the data file from the saved location
d <- read.csv("/Users/apple/Desktop/DressAttributes.csv",
             header=T)
head(d)
#To get information about the structure of the data
str(d)

#####

#Taking care of missing values
d[d==" "] <- NA
#removing null with NA
d[d=="null"] <- NA

#####
# Creating a subset from the dataframe of only those features which the managment
#wants to analyze i.e. Style, Season and Material
pricing <- na.omit(subset(d,select = c(2,3,6,10)))
head(pricing)
str(pricing)

#####

#Changing the categorical data into factors
pricing <- mutate_if(pricing,is.character,as.factor)
colSums(is.na(pricing))
str(pricing)
summary(pricing)

#####
#####Plotting#####
library(ggplot2)
pricing.freq <- table(pricing$Price)
d <- c(rep('gray',5),
      rgb(59,89,152,maxColorValue = 255))
barplot(pricing.freq[order(pricing.freq)],
        horiz = T,
        col = d, border = NA, xlim = c(0,100),
        main = "Price", xlab = "")

#####

#RESULT: Summary of the past data attributes show that Casual "Style",
#cotton material with average pricing are highly popular

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