RWorksheet_Subosa#4c.Rmd

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```
#1. Use dataset mpg
#a.) Show your solutions on how to import a csv file into the environment.
mpg_file <- read.csv("mpg.csv")</pre>
head(mpg_file)
    X manufacturer model displ year cyl
                                            trans drv cty hwy fl
## 1 1
                     a4 1.8 1999 4
              audi
                                         auto(15)
                                                    f 18
                                                          29 p compact
## 2 2
              audi
                         1.8 1999
                                     4 manual(m5)
                                                    f 21 29 p compact
## 3 3
                     a4 2.0 2008
                                                    f 20 31 p compact
                                     4 manual(m6)
              audi
                                         auto(av) f 21 30
                                                              p compact
## 4 4
                         2.0 2008
              audi
                     a4
## 5 5
              audi
                   a4
                         2.8 1999 6
                                         auto(15) f 16 26 p compact
## 6 6
              audi
                          2.8 1999
                                     6 manual(m5)
                                                    f 18 26 p compact
                      a4
str(mpg_file)
## 'data.frame':
                   234 obs. of 12 variables:
                 : int 1 2 3 4 5 6 7 8 9 10 ...
## $ manufacturer: chr "audi" "audi" "audi" "audi" ...
              : chr "a4" "a4" "a4" "a4" ...
## $ model
## $ displ
                 : num 1.8 1.8 2 2 2.8 2.8 3.1 1.8 1.8 2 ...
## $ year
                : int 1999 1999 2008 2008 1999 1999 2008 1999 1999 2008 ...
## $ cyl
                : int 4444666444 ...
                        "auto(15)" "manual(m5)" "manual(m6)" "auto(av)" ...
## $ trans
                 : chr
                 : chr "f" "f" "f" "f" ...
## $ cty
                 : int 18 21 20 21 16 18 18 18 16 20 ...
## $ hwy
                 : int 29 29 31 30 26 26 27 26 25 28 ...
                        "p" "p" "p" "p" ...
## $ fl
                 : chr
                       "compact" "compact" "compact" ...
## $ class
                 : chr
#b.) Which variables from mpg dataset are categorical?
#According to my observation, the variables from the mpg dataset that are seemly categoral are the foll
# - manufacturer: that indicates the manufacturer name
# - model: that indicates the model name
# - trans: the type of transmission system the vehicle uses
# - drv: indicating whether the vehicle is front-wheel drive (f), rear-wheel drive (r), or four-wheel d
# - fl: the type of fuel
# - class: the general category or type of the vehicle
#c.) Which are continuous variables?
#The following are the continuous variables in the mpg dataset:
# - dspl: the engine displacement in liters
```

```
# - year: the year of manufacture
# - cyl: the number of cylinders
# - cty: the city miles per hour
# - hwy: the highway miles per gallon
#2.1 Which manufacturer has the most models in this data set? Which model has the most variations?
#a.) Group the manufacturers and find the unique models
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
data(mpg, package = "ggplot2")
modelmanufacturer <- mpg %>%
  group_by(manufacturer) %>%
  summarize(unique_models = n_distinct(model)) %>%
  arrange(desc(unique_models))
print(modelmanufacturer)
## # A tibble: 15 x 2
##
      manufacturer unique_models
##
      <chr>
                          <int>
## 1 toyota
                               6
## 2 chevrolet
                               4
## 3 dodge
## 4 ford
## 5 volkswagen
## 6 audi
                               3
                               3
## 7 nissan
                               2
## 8 hyundai
## 9 subaru
                               2
## 10 honda
                               1
## 11 jeep
                               1
## 12 land rover
                               1
## 13 lincoln
                               1
## 14 mercury
                               1
## 15 pontiac
modelvariations <- mpg %>%
  group by(model) %>%
  summarize(variations = n()) %>%
  arrange(desc(variations))
print(modelvariations)
```

A tibble: 38 x 2

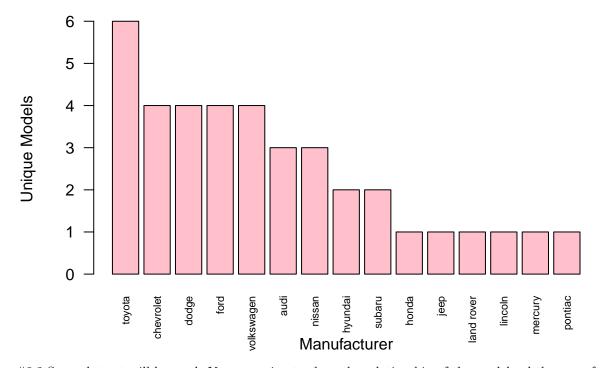
```
##
                           <chr>
                                                                                                                                         <int>
##
                 1 caravan 2wd
                                                                                                                                                      11
                 2 ram 1500 pickup 4wd
                                                                                                                                                      10
##
##
                 3 civic
                                                                                                                                                          9
                                                                                                                                                          9
##
                 4 dakota pickup 4wd
                                                                                                                                                          9
##
                 5 jetta
##
                 6 mustang
                                                                                                                                                          9
##
                 7 a4 quattro
                                                                                                                                                          8
                                                                                                                                                          8
##
                 8 grand cherokee 4wd
                 9 impreza awd
                                                                                                                                                          8
## 10 a4
## # i 28 more rows
#b.) Graph the result by using plot() and ggplot()
modelmanufacturer $manufacturer <- factor(modelmanufacturer $manufacturer, levels = modelmanufacturer $manufacturer $manufacture
barplot(modelmanufacturer$unique_models,
                                  names.arg = modelmanufacturer$manufacturer,
                                  main = "The Number of Unique Models by Manufacturer",
                                  xlab = "Manufacturer",
                                  ylab = "Unique Models",
                                   col = "pink",
                                  las = 2,
                                   cex.names = 0.7)
```

##

model

variations

The Number of Unique Models by Manufacturer

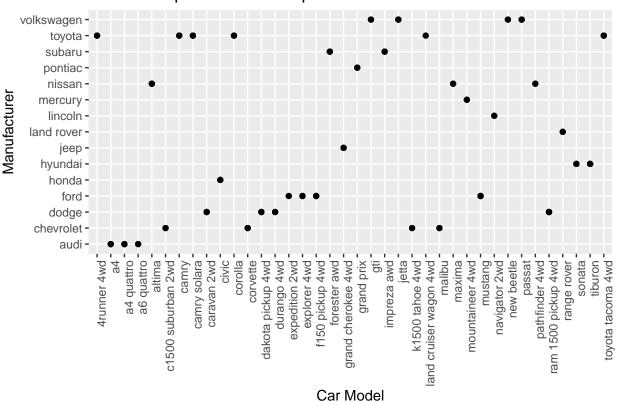


#2.2 Same dataset will be used. You are going to show the relationship of the modeland the manufacturer.

```
#a.) What does ggplot(mpg, aes(model, manufacturer)) + geom_point() show?
library(ggplot2)
ggplot(mpg, aes(x = model, y = manufacturer)) + geom_point() + theme(axis.text.x = element_text(angle =
```

```
labs(title = "Relationship of Car Models per Manufacturer",
    x = "Car Model",
    y = "Manufacturer"
)
```

Relationship of Car Models per Manufacturer



```
#The data is presented in the form of a scatter plot, with a point at each model and manufacturer combi
#b.) For you, is it useful? If not, how could you modify the data to make it more informative?

#Because of the overlapping points, this visualization is currently ineffective. A better approach coul

modelmanufacturer <- mpg %>%
    group_by(model, manufacturer) %>%
    summarize(variations = n())

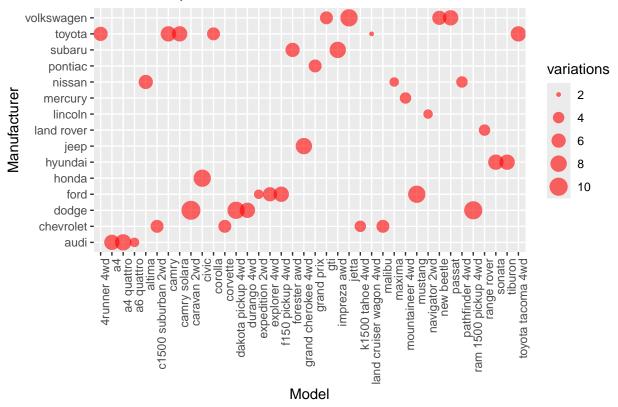
## `summarise()` has grouped output by 'model'. You can override using the
## `.groups` argument.

ggplot(modelmanufacturer, aes(x = model, y = manufacturer, size = variations)) +
    geom_point(color = "red", alpha = 0.6) +
```

labs(title = "Relationship of Model and Manufacturer Variations", x = "Model", y = "Manufacturer") +

theme(axis.text.x = element_text(angle = 90, hjust = 1))

Relationship of Model and Manufacturer Variations

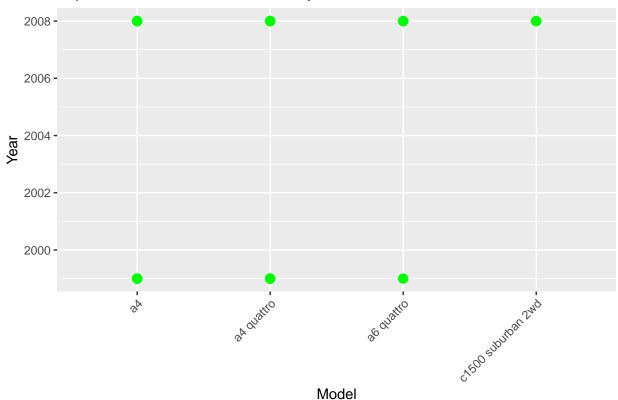


#3. Plot the model and the year using ggplot(). Use only the top 20 observations.

```
library(ggplot2)
top_20_mpg <- head(mpg, 20)

ggplot(top_20_mpg, aes(x = model, y = year)) +
    geom_point(color = "green", size = 3) +
    labs(title = "Top 20 Observations for Model by Year", x = "Model", y = "Year") +
    theme(axis.text.x = element_text(angle = 45, hjust = 1))</pre>
```





#4. Using the pipe (%>%), group the model and get the number of cars per model.

```
library(dplyr)
cars_p_model <- mpg %>%
  group_by(model) %>%
  summarise(count = n()) %>%
  arrange(desc(count))
print(cars_p_model)
## # A tibble: 38 x 2
##
      model
                          count
##
      <chr>
                          <int>
   1 caravan 2wd
##
                             11
    2 ram 1500 pickup 4wd
                              10
##
##
   3 civic
                              9
                              9
##
   4 dakota pickup 4wd
                              9
## 5 jetta
                              9
## 6 mustang
                              8
##
   7 a4 quattro
                              8
   8 grand cherokee 4wd
## 9 impreza awd
                              8
                              7
## 10 a4
## # i 28 more rows
#a.) Plot using geom_bar() using the top 20 observations only.
library(ggplot2)
```

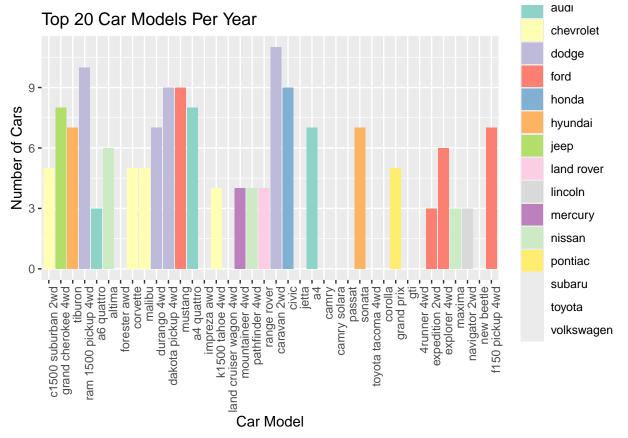
```
library(dplyr)

mpg_top_20 <- mpg %>%
    arrange(desc(year))
    head(20)

## [1] 20

ggplot(mpg_top_20, aes(x = reorder(model, -year), fill = manufacturer)) +
    geom_bar() +
    theme(axis.text.x = element_text(angle = 90, hjust = 1)) +
    labs(title = "Top 20 Car Models Per Year", x = "Car Model", y = "Number of Cars") +
    scale fill brewer(palette = "Set3")
```

Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set3 is 12 ## Returning the palette you asked for with that many colors



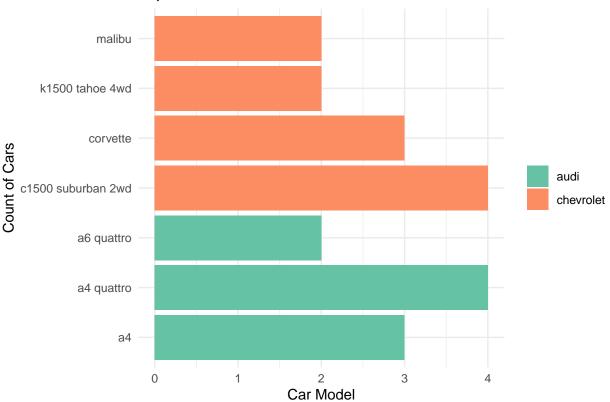
```
#b.) Plot using the geom_bar() + coord_flip() just like what is shown below
library(ggplot2)
library(dplyr)

mpg_top_20 <- mpg %>%
    arrange(desc(year)) %>%
    head(20)

ggplot(mpg_top_20, aes(x = reorder(model, -year), fill = manufacturer)) +
```

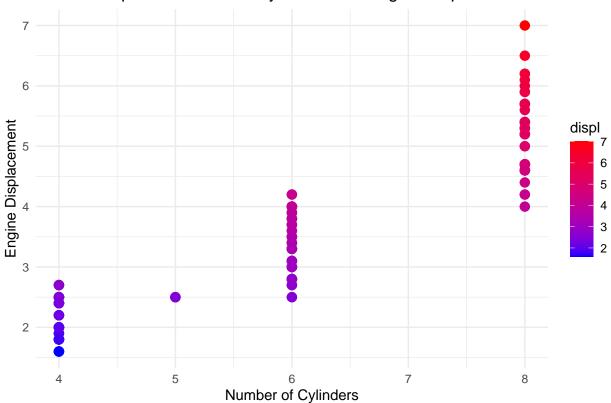
```
geom_bar() +
coord_flip() +
labs(title = "Top 20 Car Models Per Year", x = "Count of Cars", y = "Car Model") +
scale_fill_brewer(palette = "Set2") +
theme_minimal() +
theme(legend.title = element_blank())
```

Top 20 Car Models Per Year



#5. Plotting the relationship between cyl and displ

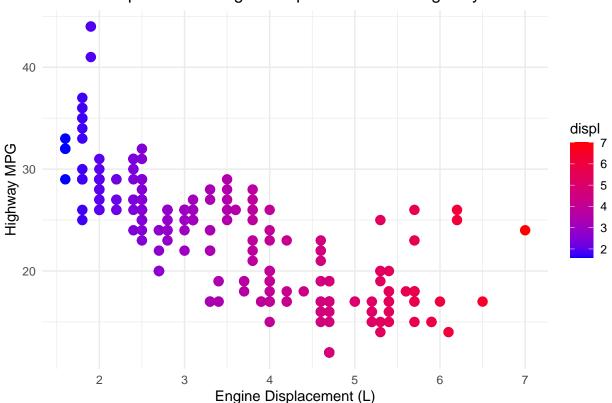




#The scatter plot indicates that engine displacement (displ) and cylinder count (cyl) are positively co

#6.1 Plot the relationship between displ (engine displacement) and hwy(highway miles per gallon). Mapped it with a continuous variable you have identified in #1-c. What is its result? Why it produced such output?

Relationship between Engine Displacement and Highway MPG



#This scatter plot depicts the relationship between displ and hwy, with color indicating the number of

#6.2 Import the traffic.csv onto your R environment.

```
#a.) How many numbers of observation does it have? What are the variables of the traffic dataset?
traffic_file <- read.csv("traffic.csv")
num_observations <- nrow(traffic_file)
num_observations</pre>
```

```
## [1] 48120
```

```
variable <- colnames(traffic_file)
variable</pre>
```

[1] "DateTime" "Junction" "Vehicles" "ID"

#The data has a total of 48120 observations and its variables are "DateTime", "Junction", "Vehicles", a

```
#b.) Subset the traffic dataset into junctions.
traffic_data <- read.csv("traffic.csv")
junctions_list <- split(traffic_data, traffic_data$Junction)
junctions_list[[1]]</pre>
```

##			${\tt DateTime}$	Junction	Vehicles	ID
##	1	2015-11-01	00:00:00	1	15	20151101001
##	2	2015-11-01	01:00:00	1	13	20151101011
##	3	2015-11-01	02:00:00	1	10	20151101021
##	4	2015-11-01	03:00:00	1	7	20151101031
##	5	2015-11-01	04:00:00	1	9	20151101041

##	6	2015-11-01	05:00:00	1	6	20151101051
##	7	2015-11-01	06:00:00	1	9	20151101061
##	8	2015-11-01	07:00:00	1	8	20151101071
##	9	2015-11-01	08:00:00	1	11	20151101081
##	10	2015-11-01	09:00:00	1	12	20151101091
##	11	2015-11-01	10:00:00	1	15	20151101101
##	12	2015-11-01	11:00:00	1	17	20151101111
##	13	2015-11-01	12:00:00	1	16	20151101121
##	14	2015-11-01	13:00:00	1	15	20151101131
##	15	2015-11-01	14:00:00	1	16	20151101141
##	16	2015-11-01	15:00:00	1	12	20151101151
##	17	2015-11-01	16:00:00	1	12	20151101161
##	18	2015-11-01	17:00:00	1	16	20151101171
##	19	2015-11-01	18:00:00	1	17	20151101181
##	20	2015-11-01	19:00:00	1	20	20151101191
##	21	2015-11-01	20:00:00	1	17	20151101201
##	22	2015-11-01	21:00:00	1	19	20151101211
##	23	2015-11-01	22:00:00	1	20	20151101221
##	24	2015-11-01	23:00:00	1	15	20151101231
##	25	2015-11-02	00:00:00	1	14	20151102001
##	26	2015-11-02	01:00:00	1	12	20151102011
##	27	2015-11-02	02:00:00	1	14	20151102021
##	28	2015-11-02	03:00:00	1	12	20151102031
##	29	2015-11-02	04:00:00	1	12	20151102041
##	30	2015-11-02	05:00:00	1	11	20151102051
##	31	2015-11-02	06:00:00	1	13	20151102061
##	32	2015-11-02	07:00:00	1	14	20151102071
##	33	2015-11-02	08:00:00	1	12	20151102081
##	34	2015-11-02	09:00:00	1	22	20151102091
##	35	2015-11-02	10:00:00	1	32	20151102101
##	36	2015-11-02	11:00:00	1	31	20151102111
##	37	2015-11-02	12:00:00	1	35	20151102121
##	38	2015-11-02	13:00:00	1	26	20151102131
##	39	2015-11-02	14:00:00	1	34	20151102141
##	40	2015-11-02	15:00:00	1	30	20151102151
##	41	2015-11-02	16:00:00	1	27	20151102161
##	42	2015-11-02	17:00:00	1	27	20151102171
##	43	2015-11-02		1	24	20151102181
##	44	2015-11-02	19:00:00	1	26	20151102191
##	45	2015-11-02	20:00:00	1	29	20151102201
##	46	2015-11-02	21:00:00	1	32	20151102211
##	47	2015-11-02	22:00:00	1	30	20151102221
##	48	2015-11-02	23:00:00	1	27	20151102231
##	49	2015-11-03	00:00:00	1	21	20151103001
##	50	2015-11-03	01:00:00	1	18	20151103011
##	51	2015-11-03		1		20151103021
##	52	2015-11-03		1	13	20151103031
	53	2015-11-03		1		20151103041
	54	2015-11-03		1		20151103051
	55	2015-11-03		1		20151103061
	56	2015-11-03		1		20151103071
	57	2015-11-03		1		20151103081
	58	2015-11-03		1		20151103091
##		2015-11-03		1		20151103101
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                                              24 20151105131
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         2015-11-05 14:00:00
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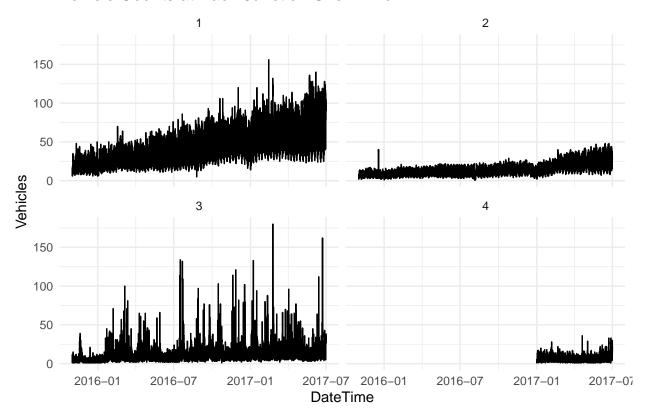
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## 14590 2017-06-30 21:00:00
                                     1
                                             90 20170630211
                                             84 20170630221
## 14591 2017-06-30 22:00:00
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## 14592 2017-06-30 23:00:00
                                             78 20170630231
#c.) Plot each junction in a using geom line()
library(ggplot2)
traffic_file <- read.csv("traffic.csv")</pre>
traffic_file$DateTime <- as.POSIXct(traffic_file$DateTime, format="%Y-%m-%d %H:%M:%S")
ggplot(traffic_file, aes(x = DateTime, y = Vehicles)) +
  geom_line() +
  facet_wrap(~ Junction) +
  labs(title = "Vehicle Counts at Each Junction Over Time", x = "DateTime", y = "Vehicles") +
  theme_minimal()
```

Vehicle Counts at Each Junction Over Time

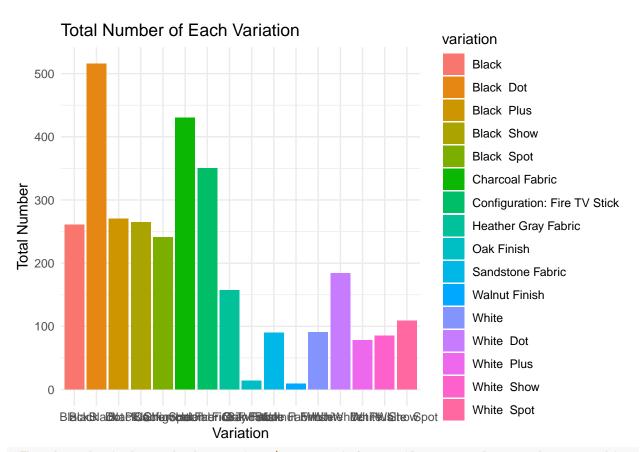


#7. From alexa_file.xlsx, import it to your environment

```
#a.) How many observations does alexa_file has? What about the number of columns?
library(readxl)
alexa_file <- read_excel("alexa_file.xlsx")
num_obs <- nrow(alexa_file)
num_cols <- ncol(alexa_file)</pre>
print(num_obs)
```

[1] 3150

```
print(num_cols)
## [1] 5
#The data shows that "alexa_file.xlsx" has a total of 3150 obsevations, and there are 5 number of column
#b.) Group the variations and get the total of each variations. Use dplyr package.
library(dplyr)
library(readxl)
alexa_file <- read_excel("alexa_file.xlsx")</pre>
total_variation <- alexa_file %>%
  group_by(variation) %>%
  summarise(total = n())
print(total_variation)
## # A tibble: 16 x 2
##
      variation
                                   total
##
      <chr>>
                                    <int>
## 1 Black
                                     261
## 2 Black Dot
                                     516
## 3 Black Plus
                                     270
## 4 Black Show
                                     265
## 5 Black Spot
                                     241
## 6 Charcoal Fabric
                                     430
## 7 Configuration: Fire TV Stick
                                     350
## 8 Heather Gray Fabric
                                     157
## 9 Oak Finish
                                      14
## 10 Sandstone Fabric
                                      90
## 11 Walnut Finish
                                       9
## 12 White
                                      91
                                     184
## 13 White Dot
## 14 White Plus
                                      78
## 15 White Show
                                      85
## 16 White Spot
                                     109
#c.) Plot the variations using the ggplot() function. What did you observe?
library(ggplot2)
library(dplyr)
library(readxl)
alexa_file <- read_excel("alexa_file.xlsx")</pre>
total_variation <- alexa_file %>%
  group_by(variation) %>%
  summarise(total = n())
ggplot(total_variation, aes(x = variation, y = total, fill = variation)) +
  geom_bar(stat = "identity") +
  labs(title = "Total Number of Each Variation", x = "Variation", y = "Total Number") +
  theme_minimal()
```

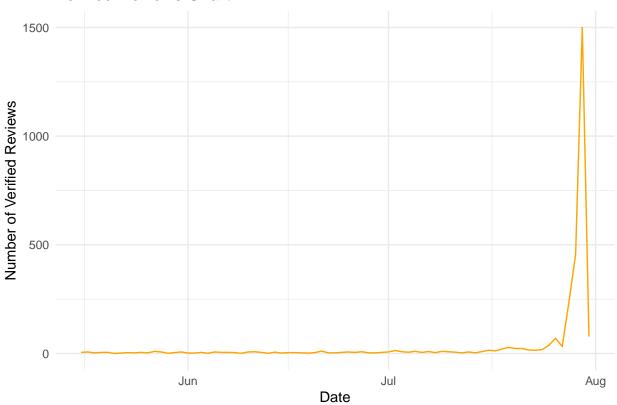


 $\textit{\#This bar chart shows which variation/s are most frequently reviewed, providing insight into consumer properties and the providing insight into consumer providing the providing providing insight into consumer providing the providing providing the providing providing providing providing the providing p$

```
#d.) Plot a geom_line() with the date and the number of verified reviews.
review_counts <- alexa_file %>%
  group_by(date) %>%
  summarise(verified_reviews = sum(feedback))

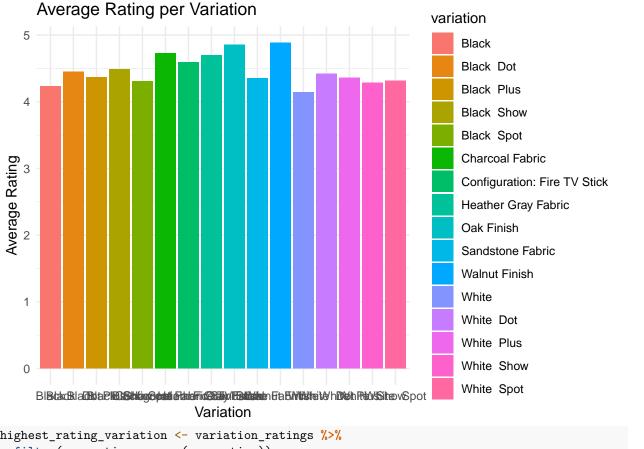
ggplot(review_counts, aes(x = date, y = verified_reviews)) +
  geom_line(color = "orange") +
  labs(
    title = "Verified Reviews Chart",
    x = "Date",
    y = "Number of Verified Reviews"
  ) +
  theme_minimal()
```

Verified Reviews Chart



```
#e.) Get the relationship of variations and ratings. Which variations got the most highest in rating? P
library(dplyr)
library(ggplot2)
library(readxl)
alexa_file <- read_excel("alexa_file.xlsx")
variation_ratings <- alexa_file %>%
    group_by(variation) %>%
    summarise(avg_rating = mean(rating, na.rm = TRUE))

ggplot(variation_ratings, aes(x = variation, y = avg_rating, fill = variation)) +
    geom_bar(stat = "identity") +
    labs(title = "Average Rating per Variation", x = "Variation", y = "Average Rating") +
    theme_minimal()
```



```
highest_rating_variation <- variation_ratings %>%
    filter(avg_rating == max(avg_rating))
print(highest_rating_variation)
```

 $\textit{\#According to the result, the "Walnut Finish" is the highest rating variation with 4.8 average \ rating. } \\$