# RWorksheet\_Jacildo#4c

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#### 2024-11-06

- 1. Use the dataset mpg
- a. Show your solutions on how to import a csv file into the environment.

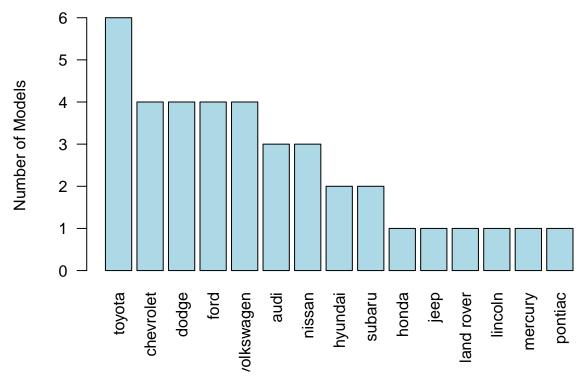
```
mpg <- read.csv("/cloud/project/worksheet#4/mpg.csv")</pre>
head(mpg)
     X manufacturer model displ year cyl
                                                trans drv cty hwy fl
                                                                        class
## 1 1
                             1.8 1999
               audi
                        a4
                                         4
                                             auto(15)
                                                        f
                                                           18
                                                                29
                                                                    p compact
## 2 2
               audi
                             1.8 1999
                                         4 manual(m5)
                                                                29
                                                                    p compact
## 3 3
                             2.0 2008
                                         4 manual(m6)
                                                            20
                                                                31
                                                                    p compact
               audi
                        a4
                                                        f
                                                                    p compact
## 4 4
               audi
                             2.0 2008
                                             auto(av)
                                                            21
                                                                30
                        a4
                                                        f
                             2.8 1999
## 5 5
                        a4
               audi
                                             auto(15)
                                                        f
                                                            16
                                                                26
                                                                    p compact
## 6 6
               audi
                             2.8 1999
                                         6 manual(m5)
                                                            18
                                                                    p compact
  b. Which variables from mpg dataset are categorical?
categorical_var <- names(mpg)[sapply(mpg, function(x) is.factor(x) || is.character(x))]</pre>
print("Categorical Variables:")
## [1] "Categorical Variables:"
print(categorical_var)
## [1] "manufacturer" "model"
                                                       "drv"
                                                                      "fl"
                                       "trans"
## [6] "class"
  c. Which are continuous variables?
continuous_var <- names(mpg)[sapply(mpg, is.numeric)]</pre>
print("Continuous Variables:")
## [1] "Continuous Variables:"
print(continuous var)
```

- ## [1] "X" "displ" "year" "cyl" "cty" "hwy'
  - 2. Which manufacturer has the most models in this data set? Which model has the most variations? Show your answer.
  - a. Group the manufacturers and find the unique models. Show your codes and result.

```
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
manufacturer <- mpg %>%
group_by(manufacturer) %>%
summarise(num_models = n_distinct(model)) %>%
arrange(desc(num_models))
print(manufacturer)
## # A tibble: 15 x 2
## manufacturer num_models
            <int>
##
     <chr>
## 1 toyota
## 2 chevrolet
## 3 dodge
## 4 ford
## 5 volkswagen
## 6 audi
                         3
## 7 nissan
                         3
## 8 hyundai
                         2
## 9 subaru
                         2
## 10 honda
                         1
## 11 jeep
## 12 land rover
## 13 lincoln
## 14 mercury
                          1
## 15 pontiac
barplot(manufacturer$num_models,
names.arg = manufacturer$manufacturer,
las = 2,
col = "lightblue",
main = "Number of Models by Manufacturer",
ylab = "Number of Models")
```

### **Number of Models by Manufacturer**



- 2. Same dataset will be used. You are going to show the relationship of the model and the manufacturer.
- a. What does ggplot(mpg, aes(model, manufacturer)) + geom\_point() show?

```
library(ggplot2)

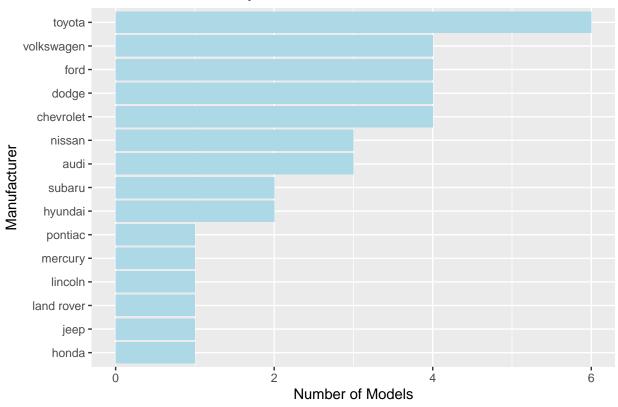
##
## Attaching package: 'ggplot2'

## The following object is masked _by_ '.GlobalEnv':

##
## mpg

ggplot(manufacturer, aes(x = reorder(manufacturer, num_models), y = num_models)) +
geom_bar(stat = "identity", fill = "lightblue") +
coord_flip() +
labs(title = "Number of Models by Manufacturer", x = "Manufacturer", y = "Number of Models")
```

### Number of Models by Manufacturer

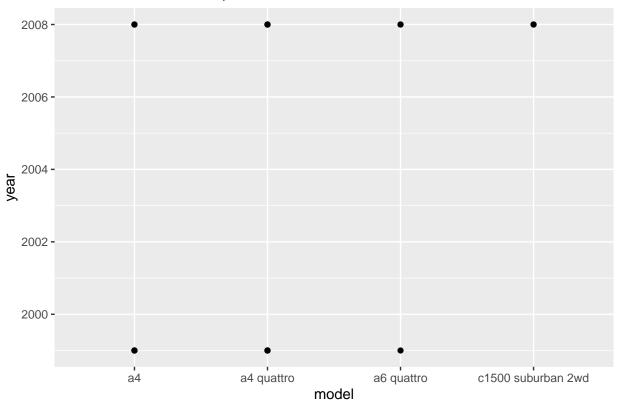


- b. For you, is it useful? If not, how could you modify the data to make it more informative?
- Yes, it is somewhat useful because it shows the relationship between models and manufacturers. To improve the data, Its better to provide a more precise count of models and enhance the graph's clarity for easier comparison.
- 3. Plot the model and the year using ggplot(). Use only the top 20 observations. Write the codes and its results.

```
library(ggplot2)

top_20 <- mpg %>% head(20)
ggplot(top_20, aes(x = model, y = year)) +
geom_point() +
labs(title = "Model and Year for Top 20 Observations")
```

### Model and Year for Top 20 Observations



4. Using the pipe (%>%), group the model and get the number of cars per model. Show codes and its result

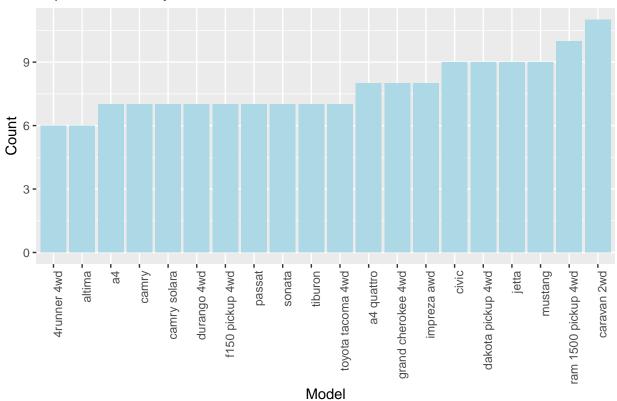
```
num <- mpg %%
group_by(model) %>%
summarise(count = n()) %>%
arrange(desc(count))
```

a. Plot using geom\_bar() using the top 20 observations only. The graphs should have a title, labels and colors. Show code and results.

```
library(ggplot2)

ggplot(num[1:20,],
aes(x = reorder(model, count), y = count)) +
geom_bar(stat = "identity", fill = "lightblue") +
labs(title = "Top 20 Models by Count", x = "Model", y = "Count") +
theme(axis.text.x = element_text(angle = 90, hjust = 1))
```

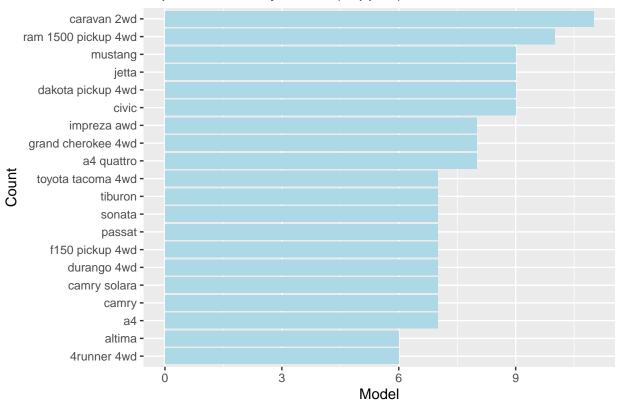
## Top 20 Models by Count



b. Plot using the geom\_bar() + coord\_flip() just like what is shown below. Show codes and its result.

```
ggplot(num[1:20,], aes(x = reorder(model, count), y = count)) +
geom_bar(stat = "identity", fill = "lightblue") +
coord_flip() +
labs(title = "Top 20 Models by Count (Flipped)", x = "Count", y = "Model")
```

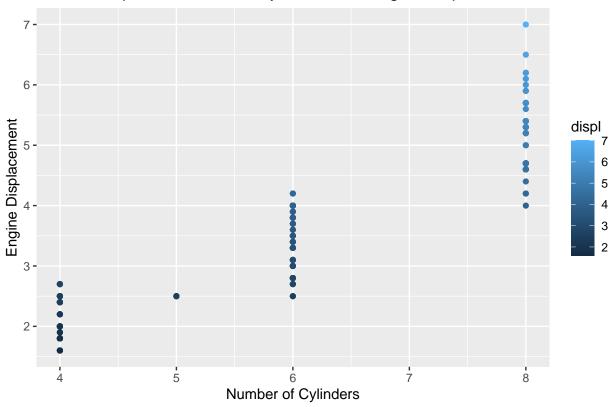
### Top 20 Models by Count (Flipped)



5. Plot the relationship between cyl - number of cylinders and displ - engine displacement using geom\_point with aesthetic color = engine displacement. Title should be "Relationship between No. of Cylinders and Engine Displacement".

```
ggplot(mpg, aes(x = cyl, y = displ, color = displ)) +
geom_point() +
labs(title = "Relationship between No. of Cylinders and Engine Displacement",
x = "Number of Cylinders",
y = "Engine Displacement")
```

### Relationship between No. of Cylinders and Engine Displacement

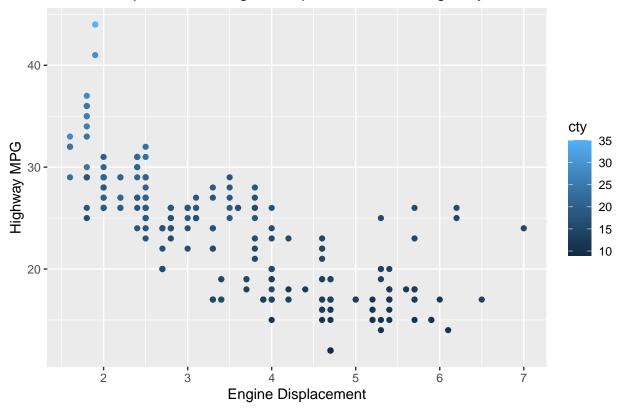


- a. How would you describe its relationship? Show the codes and its result.
- as the number of cylinders increases, engine displacement also increases
- 6. Plot the relationship between displ (engine displacement) and hwy(highway miles per gallon). Mapped it with a continuous variable you have identified in #1-c. What is its result? Why it produced suchoutput?

```
library(ggplot2)

ggplot(mpg, aes(x = displ, y = hwy, color = cty)) +
geom_point() +
labs(title = "Relationship between Engine Displacement and Highway MPG",
x = "Engine Displacement",
y = "Highway MPG")
```

### Relationship between Engine Displacement and Highway MPG



6. Import the traffic.csv onto your R environment.

2015-11-01 00:00:00

2015-11-01 01:00:00

## 1

## 2

a. How many numbers of observation does it have? What are the variables of the traffic dataset the Show your answer.

```
library(readr)
traffic <- read.csv("/cloud/project/worksheet#4/traffic.csv")</pre>
observations <- nrow(traffic)</pre>
variables <- names(traffic)</pre>
paste("Number of Observations: ", observations)
## [1] "Number of Observations: 48120"
paste("Variables of Traffic dataset: ", variables)
## [1] "Variables of Traffic dataset: DateTime"
## [2] "Variables of Traffic dataset:
                                          Junction"
## [3] "Variables of Traffic dataset:
                                         Vehicles"
## [4] "Variables of Traffic dataset:
                                         ID"
  b. subset the traffic dataset into junctions. What is the R codes and its output?
junc_data <- subset(traffic, Junction == TRUE)</pre>
print(junc_data)
                     DateTime Junction Vehicles
```

15 20151101001

13 20151101011

1

	_					
##	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		1	_	20151101071
##	9	2015-11-01		1	11	
##	10	2015-11-01		1		20151101091
##	11	2015-11-01		1	15	
##	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		1		20151101161
##	18	2015-11-01		1		20151101171
##	19	2015-11-01		1	17	
##	20	2015-11-01		1	20	
##	21	2015-11-01	20:00:00	1	17	
##	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		1		20151102021
##	29	2015-11-02		1		20151102041
	30	2015-11-02		1		20151102011
	31	2015-11-02		1	13	
##	32	2015-11-02		1		20151102071
	33	2015-11-02		1		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
##		2015-11-02		1		20151102151
##		2015-11-02		1		20151102161
	42	2015-11-02		1		20151102101
	43	2015-11-02		1		20151102181
	44	2015-11-02		1		20151102191
	45	2015-11-02		1		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		20151103031
##	53	2015-11-03		1		20151103041
	54	2015-11-03		1		20151103041
	55	2015-11-03		1		20151103051
##	56	2015-11-03	07:00:00	1	14	20151103071

##	57	2015-11-03	08:00:00	1	15	20151103081
##	58	2015-11-03	09:00:00	1	29	20151103091
##	59	2015-11-03	10:00:00	1	33	20151103101
##	60	2015-11-03	11:00:00	1	32	20151103111
##	61	2015-11-03	12:00:00	1	32	20151103121
##	62	2015-11-03	13:00:00	1	29	20151103131
##	63	2015-11-03	14:00:00	1	27	20151103141
##	64	2015-11-03	15:00:00	1	26	20151103151
##	65	2015-11-03	16:00:00	1	28	20151103161
##	66	2015-11-03	17:00:00	1	26	20151103171
##	67	2015-11-03	18:00:00	1	25	20151103181
##	68	2015-11-03	19:00:00	1	29	20151103191
##	69	2015-11-03	20:00:00	1	26	20151103201
##	70	2015-11-03	21:00:00	1	24	20151103211
##	71	2015-11-03	22:00:00	1	25	20151103221
##	72	2015-11-03	23:00:00	1	20	20151103231
##	73	2015-11-04	00:00:00	1	18	20151104001
##	74	2015-11-04	01:00:00	1	18	20151104011
##	75	2015-11-04		1	13	20151104021
##	76	2015-11-04	03:00:00	1	13	20151104031
##	77	2015-11-04		1	10	20151104041
##	78	2015-11-04		1		20151104051
##	79	2015-11-04		1	13	20151104061
##	80	2015-11-04		1	11	20151104071
##	81	2015-11-04		1	13	20151104081
##	82	2015-11-04		1	22	20151104091
##	83	2015-11-04		1	26	20151104031
##	84	2015-11-04		1	27	20151104111
##	85	2015-11-04		1	31	20151104111
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##	101	2015-11-05		1		20151105041
##	102	2015-11-05		1		20151105051
##	103	2015-11-05		1		20151105061
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##	105	2015-11-05		1		20151105081
##	106	2015-11-05		1		20151105091
##	107	2015-11-05		1		20151105101
##	108	2015-11-05		1		20151105111
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                                            43 20170630041
## 14574 2017-06-30 05:00:00
                                            41 20170630051
                                    1
## 14575 2017-06-30 06:00:00
                                    1
                                            44 20170630061
## 14576 2017-06-30 07:00:00
                                     1
                                             53 20170630071
## 14577 2017-06-30 08:00:00
                                    1
                                            57 20170630081
## 14578 2017-06-30 09:00:00
                                    1
                                             68 20170630091
## 14579 2017-06-30 10:00:00
                                    1
                                            88 20170630101
## 14580 2017-06-30 11:00:00
                                    1
                                          101 20170630111
## 14581 2017-06-30 12:00:00
                                    1
                                            99 20170630121
## 14582 2017-06-30 13:00:00
                                    1
                                            89 20170630131
```

```
104 20170630141
## 14583 2017-06-30 14:00:00
## 14584 2017-06-30 15:00:00
                                    1
                                           101 20170630151
## 14585 2017-06-30 16:00:00
                                    1
                                            95 20170630161
## 14586 2017-06-30 17:00:00
                                            90 20170630171
                                    1
## 14587 2017-06-30 18:00:00
                                    1
                                            95 20170630181
## 14588 2017-06-30 19:00:00
                                    1
                                           105 20170630191
## 14589 2017-06-30 20:00:00
                                    1
                                            96 20170630201
## 14590 2017-06-30 21:00:00
                                            90 20170630211
                                    1
## 14591 2017-06-30 22:00:00
                                    1
                                            84 20170630221
## 14592 2017-06-30 23:00:00
                                    1
                                            78 20170630231
```

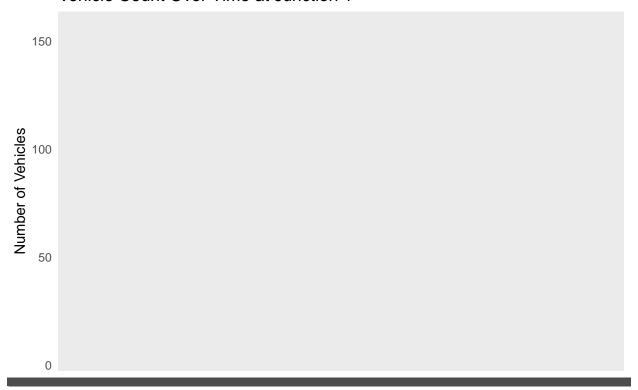
c. Plot each junction in a using geom\_line(). Show your solution and output.

```
library(ggplot2)
ggplot(junc_data, aes(x = DateTime, y = Vehicles)) +
  geom_line() +
  labs(title = "Vehicle Count Over Time at Junction 1", x = "Date Time", y = "Number of Vehicles") +
  theme_minimal()
```

## `geom\_line()`: Each group consists of only one observation.

## i Do you need to adjust the group aesthetic?

## Vehicle Count Over Time at Junction 1



## **Date Time**

7. From alexa file.xlsx, import it to your environment

```
library(readxl)
alexa_data <- read_excel("/cloud/project/worksheet#4/alexa_file.xlsx")
print(alexa_data)</pre>
```

## # A tibble: 3,150 x 5

```
##
      rating date
                                                       verified_reviews
                                                                              feedback
                                  variation
##
       <dbl> <dttm>
                                                                                  <dbl>
                                  <chr>
                                                       <chr>>
           5 2018-07-31 00:00:00 Charcoal Fabric
                                                       Love my Echo!
##
    1
                                                                                      1
##
           5 2018-07-31 00:00:00 Charcoal Fabric
                                                       Loved it!
                                                                                      1
    2
##
           4 2018-07-31 00:00:00 Walnut Finish
                                                       Sometimes while play~
                                                                                      1
    4
           5 2018-07-31 00:00:00 Charcoal Fabric
##
                                                       I have had a lot of ~
                                                                                      1
           5 2018-07-31 00:00:00 Charcoal Fabric
##
    5
                                                       Music
                                                                                      1
##
    6
           5 2018-07-31 00:00:00 Heather Gray Fabric I received the echo ~
                                                                                      1
##
    7
           3 2018-07-31 00:00:00 Sandstone Fabric
                                                       Without having a cel~
                                                                                      1
##
    8
           5 2018-07-31 00:00:00 Charcoal Fabric
                                                       I think this is the ~
                                                                                      1
##
    9
           5 2018-07-30 00:00:00 Heather Gray Fabric looks great
                                                                                      1
           5 2018-07-30 00:00:00 Heather Gray Fabric Love it! I've listen~
## 10
                                                                                      1
## # i 3,140 more rows
```

a. How many observations does alexa\_file has? What about the number of columns? Show your solution and answer.

```
alexa_observations <- nrow(alexa_data)
alexa_column <- ncol(alexa_data)

paste("Number of Observations: ", alexa_observations)

## [1] "Number of Observations: 3150"

paste("Number of columns: ", alexa_column)</pre>
```

## ## [1] "Number of columns: 5"

b. group the variations and get the total of each variations. Use dplyr package. Show solution and answer.

```
variation_counts <- alexa_data %>%
  group_by(variation) %>%
  summarise(Count = n())

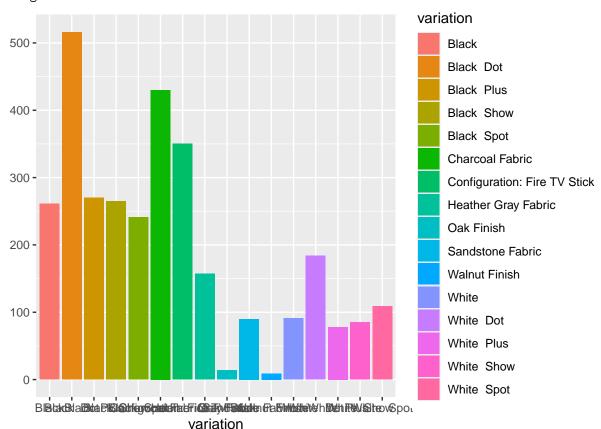
variation_counts
```

```
## # A tibble: 16 x 2
##
      variation
                                    Count
##
      <chr>
                                    <int>
##
   1 Black
                                      261
##
    2 Black Dot
                                      516
##
    3 Black Plus
                                      270
##
   4 Black
                                      265
            Show
##
    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
## 13 White Dot
                                      184
## 14 White Plus
                                       78
## 15 White
             Show
                                       85
## 16 White
             Spot
                                      109
```

c. Plot the variations using the ggplot() function. What did you observe? Complete the details of the graph. Show solution and answer.

```
qplot(variation, data = alexa_data,
geom = "bar",
fill = variation)
```

```
## Warning: `qplot()` was deprecated in ggplot2 3.4.0.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```



d. Plot a geom\_line() with the date and the number of verified reviews. Complete the details of the graphs. Show your answer and solution.

```
plot_rev <- ggplot(alexa_data, mapping = aes(x = date, y = verified_reviews)) +
    geom_line(color = "lightblue") +
    theme_light() +
    xlab("Date") +
    ylab("Number of Verified Reviews") +
    ggtitle("Verified Reviews Over Time")</pre>
```

e. Get the relationship of variations and ratings. Which variations got the most highest in rating? Plot a graph to show its relationship. Show your solution and answer.

## Variations vs Ratings

