

Project2Visual

Group3

2022-05-25

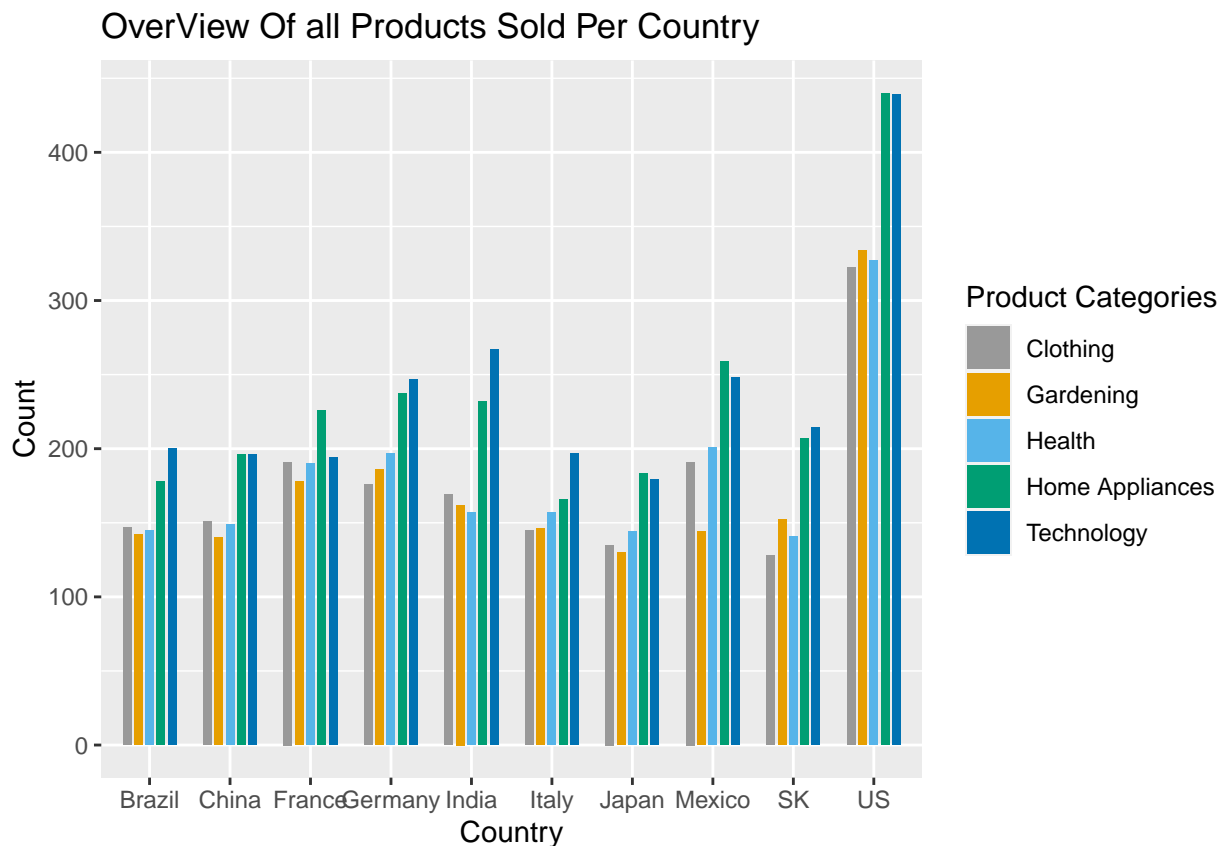
```
knitr::opts_chunk$set(echo = FALSE)
```

```
library(ggplot2)
```

```
mydata<-read.csv("/Users/jodimitchell/updatedFinal.csv", header=TRUE)
```

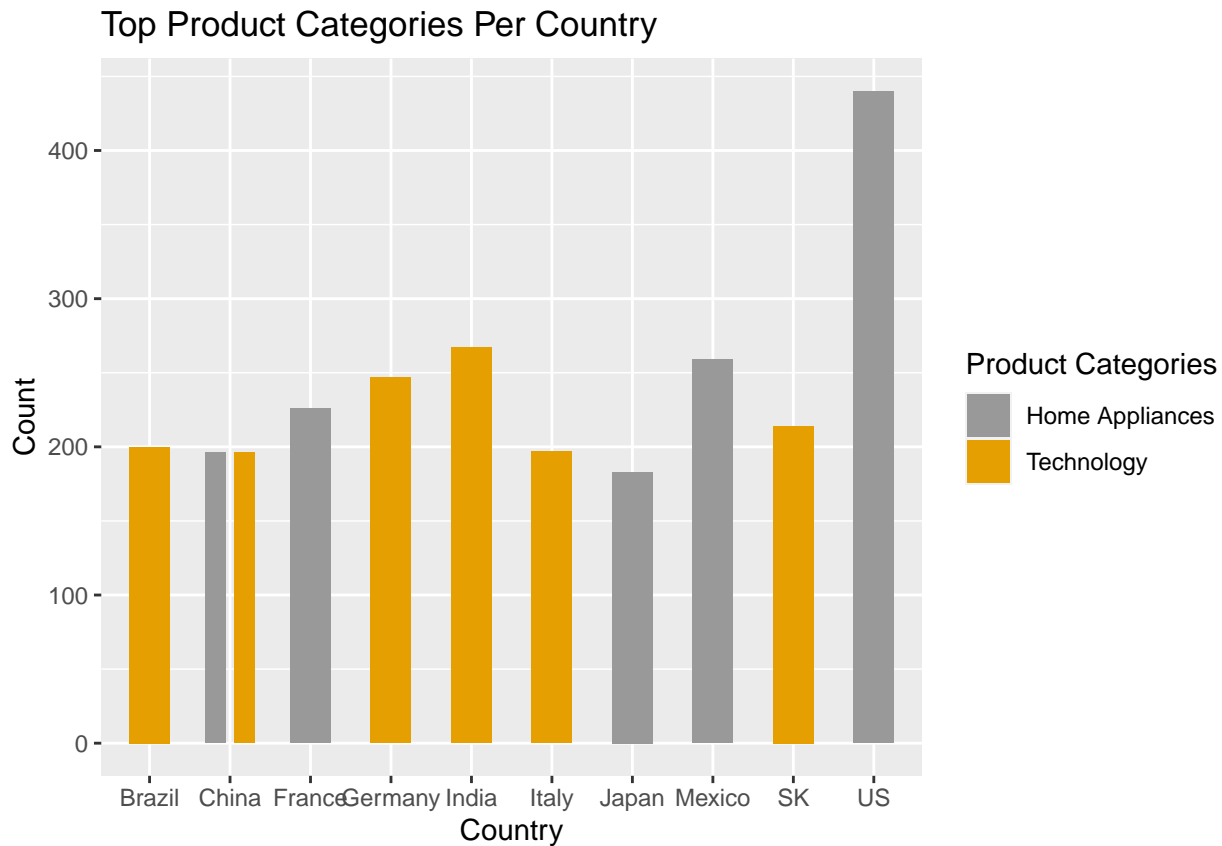
```
### Question 1 ###
```

```
ggplot(mydata, aes(COUNTRY, fill = PRODUCT_CAT))+  
  scale_fill_manual(name = "Product Categories", values=c("#999999", "#E69F00", "#56B4E9", "#009E73", "#000000"))+  
  geom_bar(width = 0.5, position = position_dodge(0.7))+  
  ggtitle("OverView Of all Products Sold Per Country")+  
  scale_x_discrete("Country", labels = c("South Korea" = "SK", "United States" = "US"))+  
  ylab("Count")+  
  labs()
```



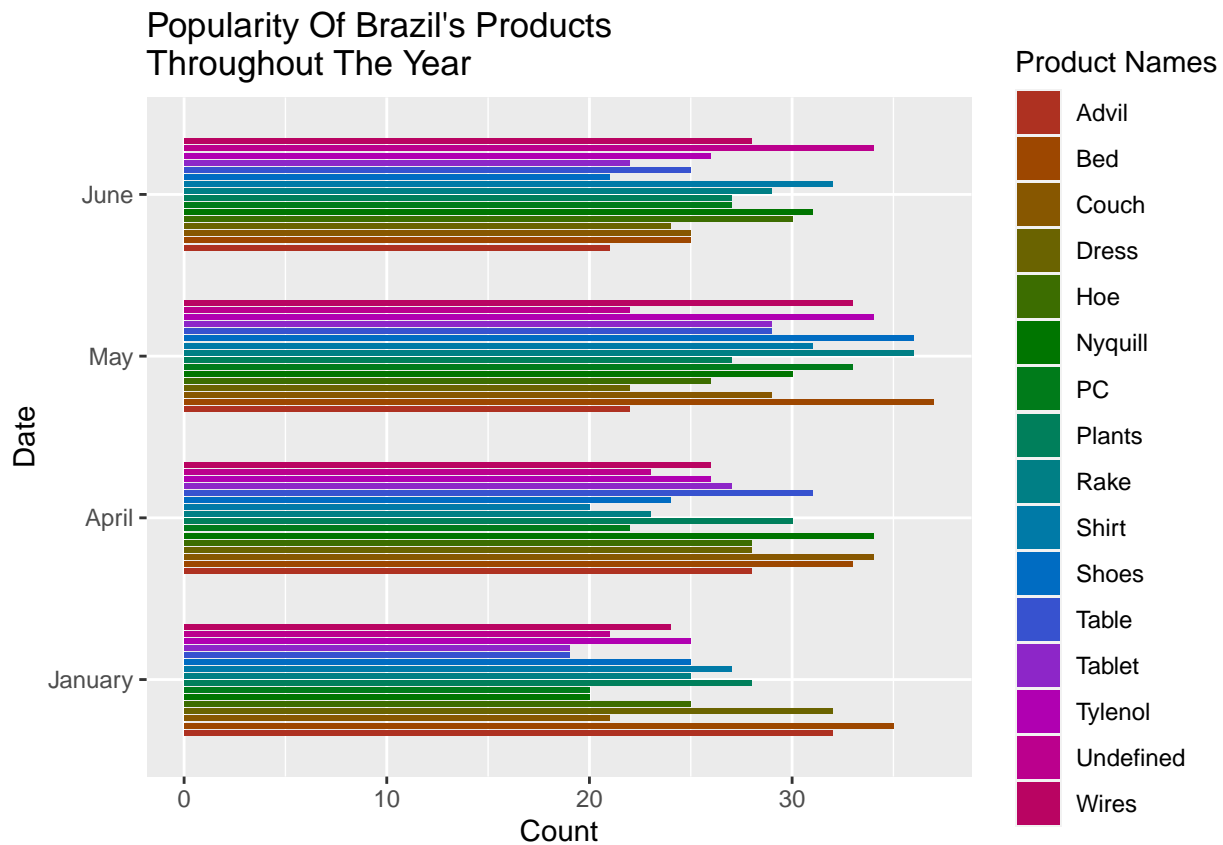
```
topCat <- read.csv("/Users/jodimitchell/project2/answer1/topCategory.csv", header=TRUE)  
ggplot(topCat, aes(x= COUNTRY, y = MAXCOUNT, fill= PRODUCT_CAT))+
```

```
scale_fill_manual(name = "Product Categories", values=c("#999999", "#E69F00", "#56B4E9", "#009E73", "#FF7F00"),
geom_bar(width = 0.5, stat='identity', position = position_dodge(0.7))+
ggtitle("Top Product Categories Per Country")+
scale_x_discrete("Country", labels = c("South Korea" = "SK", "United States" = "US"))+
ylab("Count")+
labs()
```



```
### Question 2 ###
popProduct <- read.csv("/Users/jodimitchell/popProduct.csv", header=TRUE)

## All products for Brazil
brazilP<-subset(popProduct, COUNTRY = 'Brazil')
ggplot(brazilP, aes(y = DATETIME,x= PCOUNT,fill = PRODUCT_NAME))+
  scale_fill_hue(name= 'Product Names',l=40)+
  geom_bar(width = 0.5, position = position_dodge(0.7), stat='identity')+
  scale_y_discrete("Date", labels = c("2022-06-23 05:15" = "June", "2022-05-18 02:33" = "May", "2022-04-18 02:33" = "April"))+
  ggtitle("Popularity Of Brazil's Products\nThroughout The Year")+
  ylab("Date")+
  xlab("Count")
```



labs()

```
## named list()
## attr("class")
## [1] "labels"
```

```
## All products for China
```

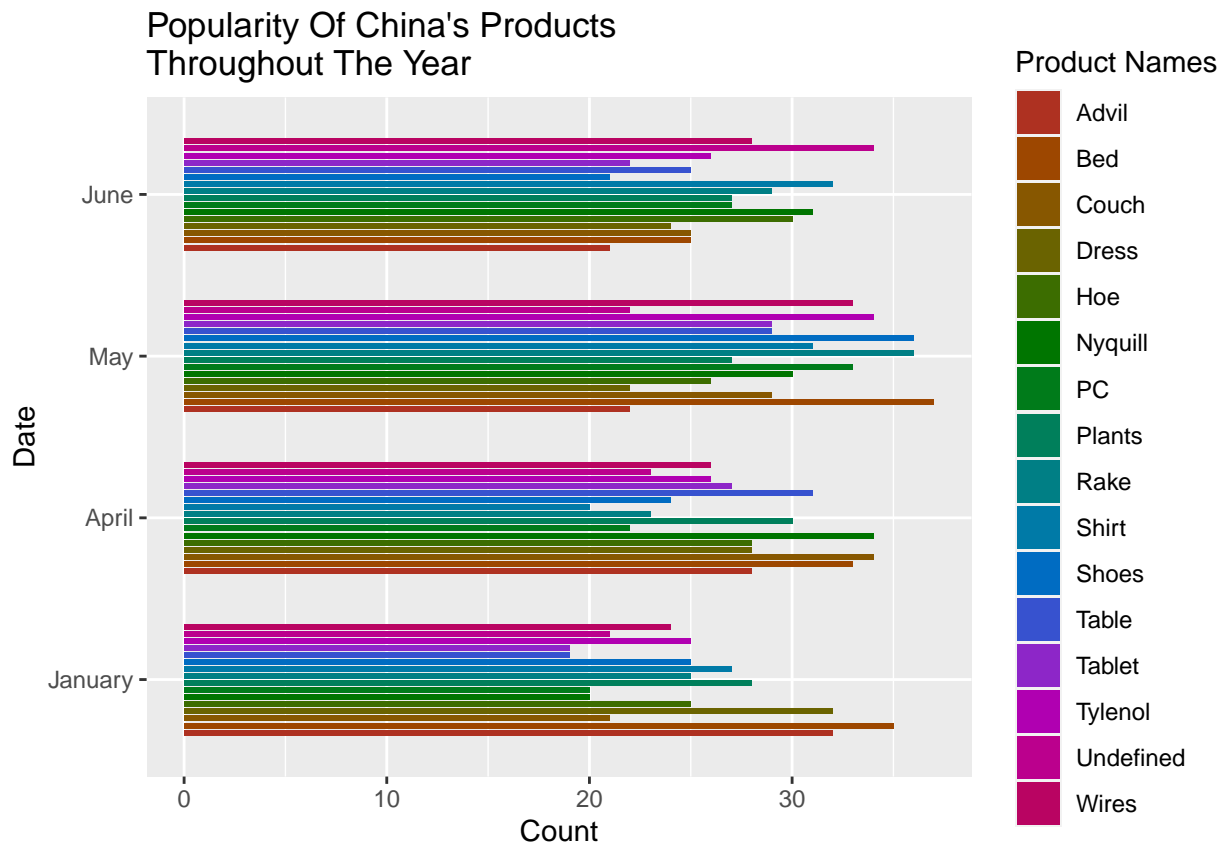
```
chinaP<-subset(popProduct, COUNTRY = 'China')
```

```
ggplot(chinaP, aes(y = DATETIME,x= PCOUNT,fill = PRODUCT_NAME))+
```

```
  scale_fill_hue(name= 'Product Names',l=40)+
```

```
  geom_bar(width = 0.5, position = position_dodge(0.7), stat='identity')+
```

```
  scale_y_discrete("Date", labels = c("2022-06-23 05:15" = "June", "2022-05-18 02:33" = "May","2022-04-18 02:33" = "April","2022-01-18 02:33" = "January"))+
  ggtitle("Popularity Of China's Products\nThroughout The Year")+
  ylab("Date")+
  xlab("Count")
```



labs()

```
## named list()
## attr("class")
## [1] "labels"
```

All products for France

```
franceP<-subset(popProduct, COUNTRY = 'France')
```

```
ggplot(franceP, aes(y = DATETIME,x= PCOUNT,fill = PRODUCT_NAME))+
```

```
  scale_fill_hue(name= 'Product Names',l=40)+
```

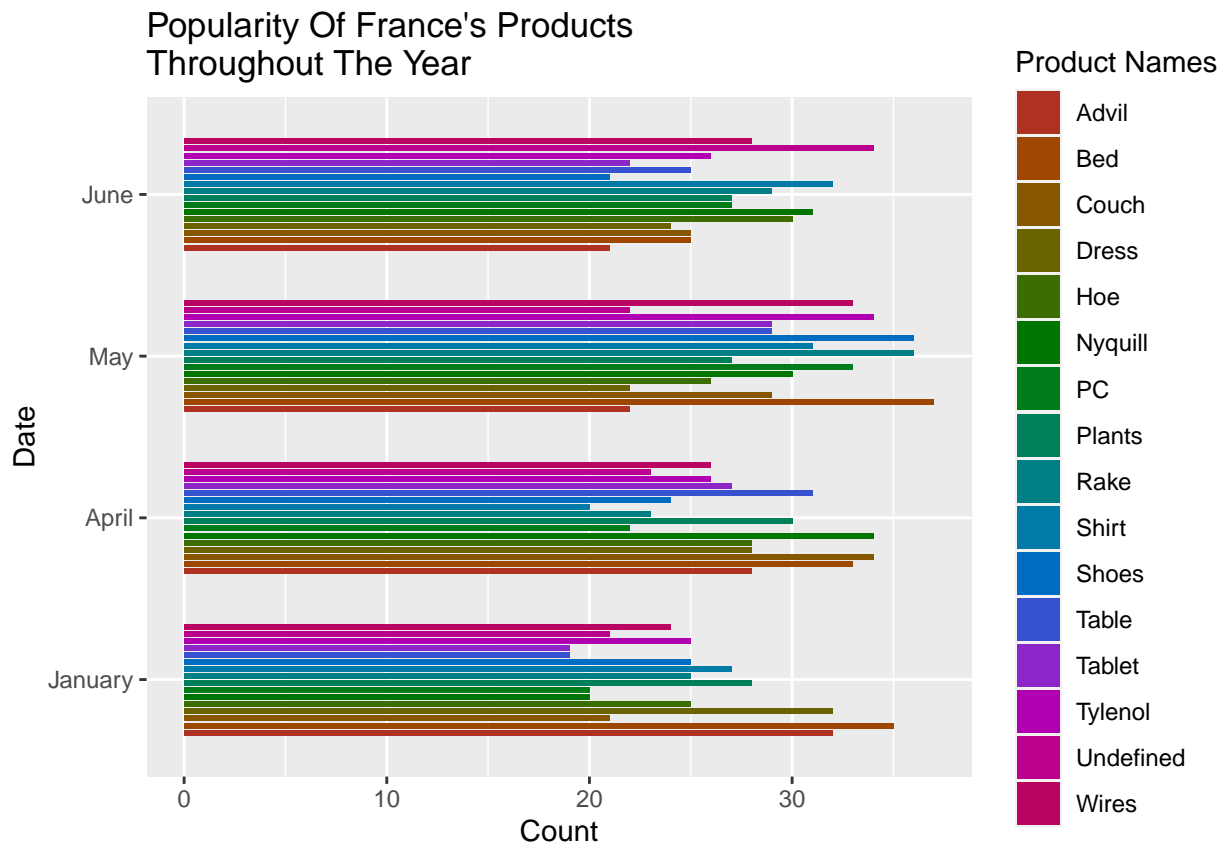
```
  geom_bar(width = 0.5, position = position_dodge(0.7), stat='identity')+
```

```
  scale_y_discrete("Date", labels = c("2022-06-23 05:15" = "June", "2022-05-18 02:33" = "May","2022-04-18 02:33" = "April","2022-01-18 02:33" = "January"))
```

```
  ggtitle("Popularity Of France's Products\nThroughout The Year")+
```

```
  ylab("Date")+
```

```
  xlab("Count")
```



labs()

```
## named list()
## attr("class")
## [1] "labels"
```

```
## All products for Germany
```

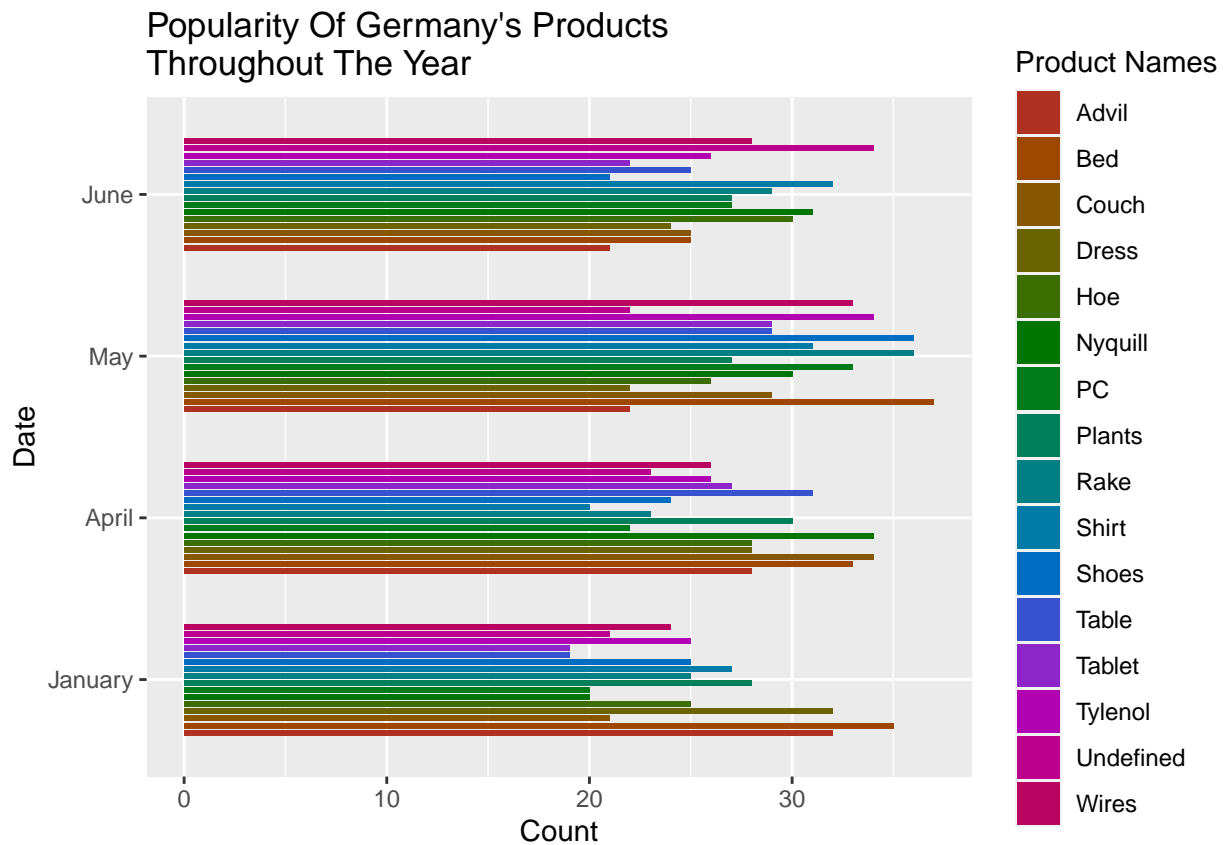
```
germanyP<-subset(popProduct, COUNTRY = 'Germany')
```

```
ggplot(germanyP, aes(y = DATETIME,x= PCOUNT,fill = PRODUCT_NAME))+
```

```
  scale_fill_hue(name= 'Product Names',l=40)+
```

```
  geom_bar(width = 0.5, position = position_dodge(0.7), stat='identity')+
```

```
  scale_y_discrete("Date", labels = c("2022-06-23 05:15" = "June", "2022-05-18 02:33" = "May","2022-04-18 02:33" = "April","2022-01-18 02:33" = "January"))+
  ggtitle("Popularity Of Germany's Products\nThroughout The Year")+
  ylab("Date")+
  xlab("Count")
```



```
labs()
```

```
## named list()
## attr("class")
## [1] "labels"
```

```
## All products for India
```

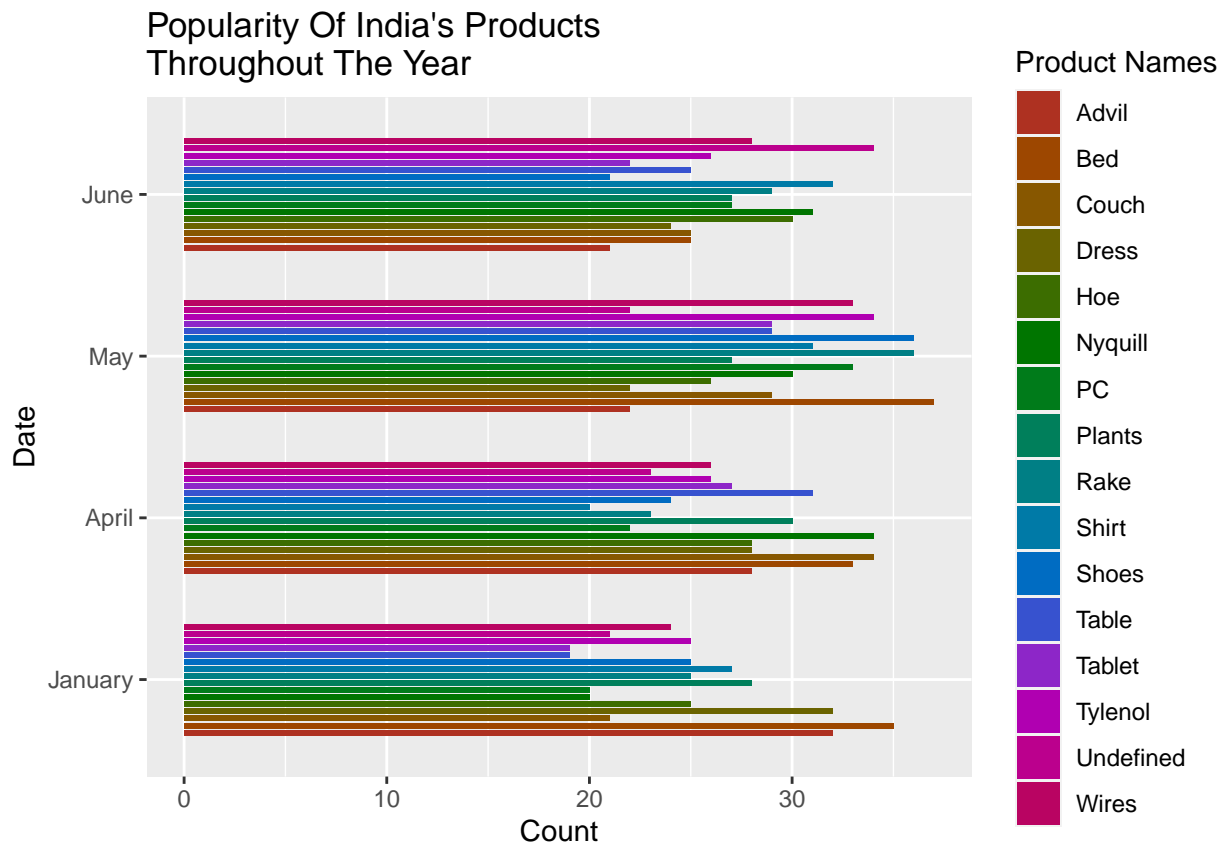
```
indiaP<-subset(popProduct, COUNTRY = 'India')
```

```
ggplot(indiaP, aes(y = DATETIME,x= PCOUNT,fill = PRODUCT_NAME))+
```

```
  scale_fill_hue(name= 'Product Names',l=40)+
```

```
  geom_bar(width = 0.5, position = position_dodge(0.7), stat='identity')+
```

```
  scale_y_discrete("Date", labels = c("2022-06-23 05:15" = "June", "2022-05-18 02:33" = "May", "2022-04-18 02:33" = "April", "2022-01-18 02:33" = "January"))+
  ggtitle("Popularity Of India's Products\nThroughout The Year")+
  ylab("Date")+
  xlab("Count")
```



labs()

```
## named list()
## attr("class")
## [1] "labels"
```

```
## All products for Italy
```

```
italyP<-subset(popProduct, COUNTRY = 'Italy')
```

```
ggplot(italyP, aes(y = DATETIME,x= PCOUNT,fill = PRODUCT_NAME))+
```

```
  scale_fill_hue(name= 'Product Names',l=40)+
```

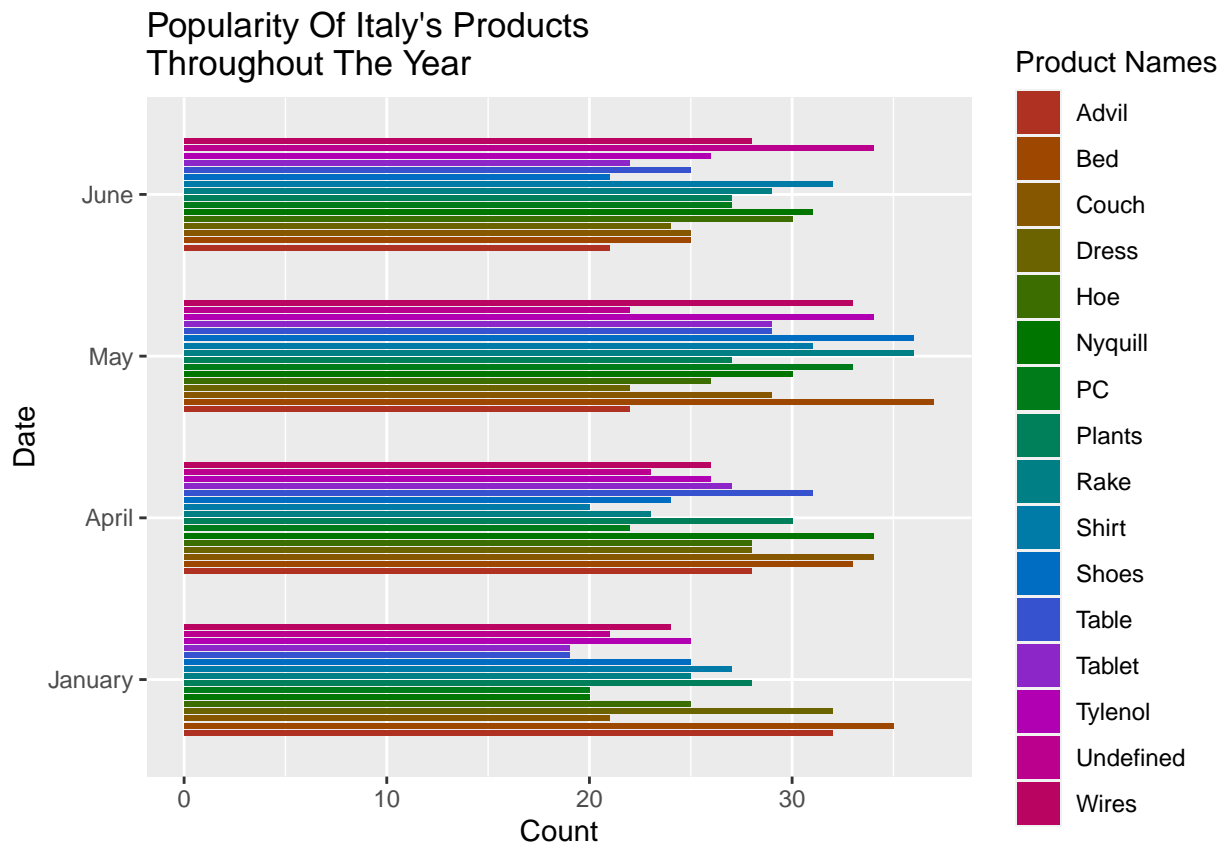
```
  geom_bar(width = 0.5, position = position_dodge(0.7), stat='identity')+
```

```
  scale_y_discrete("Date", labels = c("2022-06-23 05:15" = "June", "2022-05-18 02:33" = "May","2022-04-18 02:33" = "April","2022-01-18 02:33" = "January"))
```

```
  ggtitle("Popularity Of Italy's Products\nThroughout The Year")+
```

```
  ylab("Date")+
```

```
  xlab("Count")
```



```
labs()
```

```
## named list()
## attr("class")
## [1] "labels"
```

```
## All products for Japan
```

```
japanP<-subset(popProduct, COUNTRY = 'Japan')
```

```
ggplot(japanP, aes(y = DATETIME,x= PCOUNT,fill = PRODUCT_NAME))+
```

```
  scale_fill_hue(name= 'Product Names',l=40)+
```

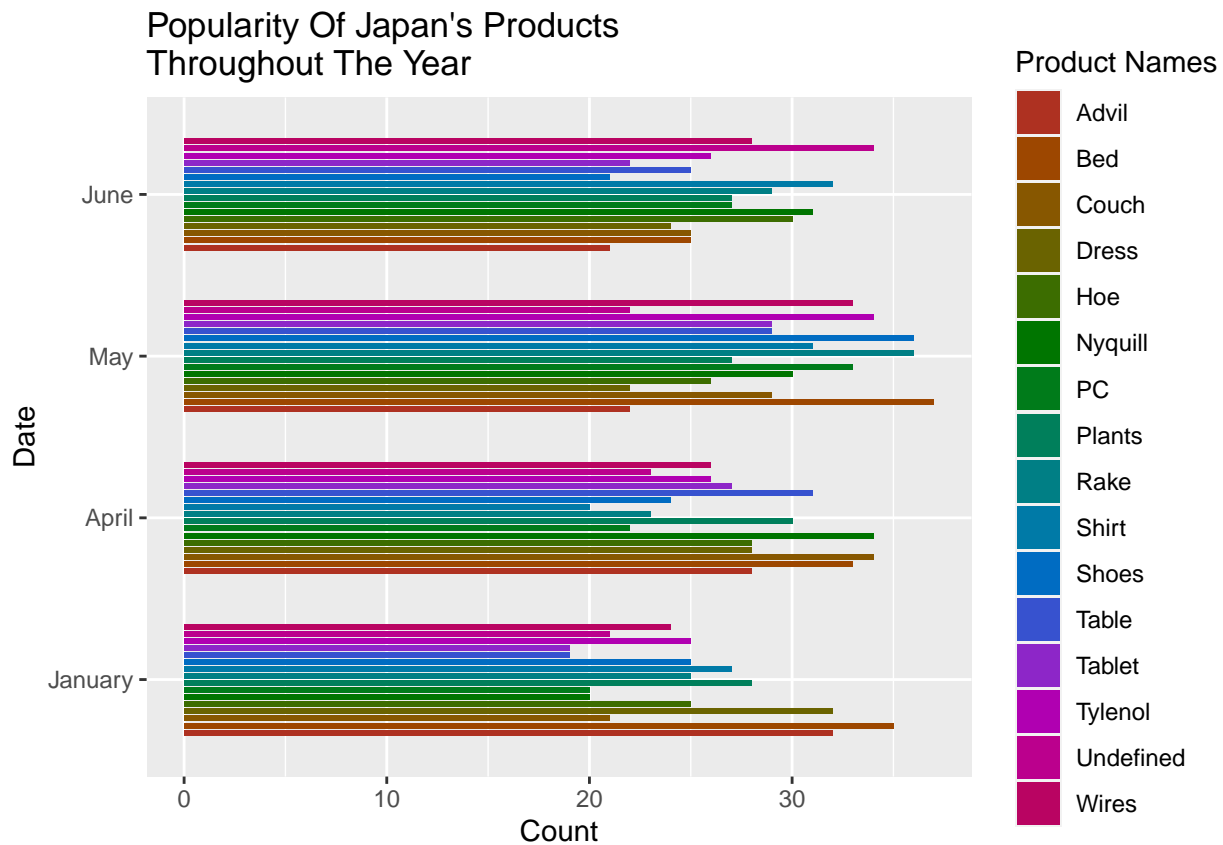
```
  geom_bar(width = 0.5, position = position_dodge(0.7), stat='identity')+
```

```
  scale_y_discrete("Date", labels = c("2022-06-23 05:15" = "June", "2022-05-18 02:33" = "May","2022-04-18 02:33" = "April","2022-01-18 02:33" = "January"))
```

```
  ggtitle("Popularity Of Japan's Products\nThroughout The Year")+
```

```
  ylab("Date")+
```

```
  xlab("Count")
```

```
labs()
```

```
## named list()
## attr("class")
## [1] "labels"
```

```
## All products for Mexico
```

```
mexicoP<-subset(popProduct, COUNTRY = 'Mexico')
```

```
ggplot(mexicoP, aes(y = DATETIME,x= PCOUNT,fill = PRODUCT_NAME))+
```

```
  scale_fill_hue(name= 'Product Names',l=40)+
```

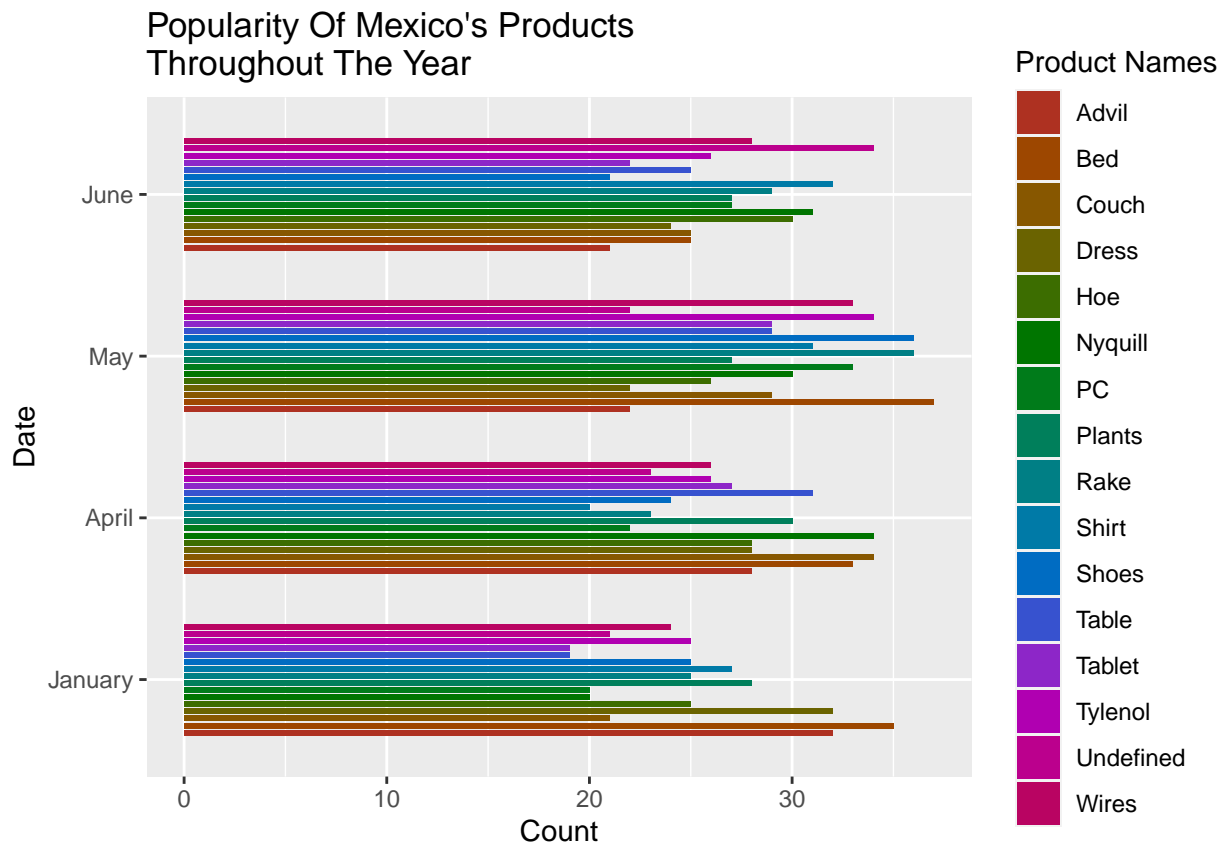
```
  geom_bar(width = 0.5, position = position_dodge(0.7), stat='identity')+
```

```
  scale_y_discrete("Date", labels = c("2022-06-23 05:15" = "June", "2022-05-18 02:33" = "May","2022-04-18 02:33" = "April","2022-01-18 02:33" = "January"))
```

```
  ggtitle("Popularity Of Mexico's Products\nThroughout The Year")+
```

```
  ylab("Date")+
```

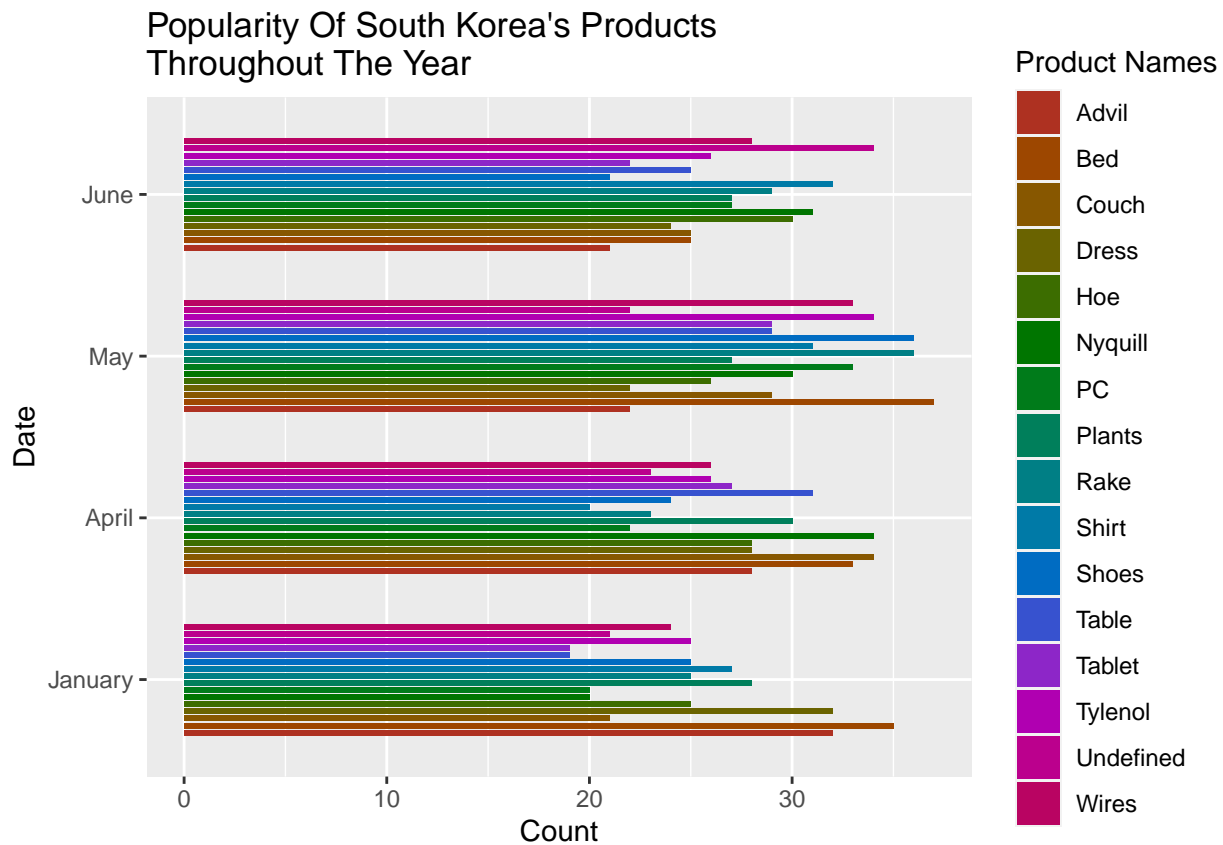
```
  xlab("Count")
```



labs()

```
## named list()
## attr("class")
## [1] "labels"
```

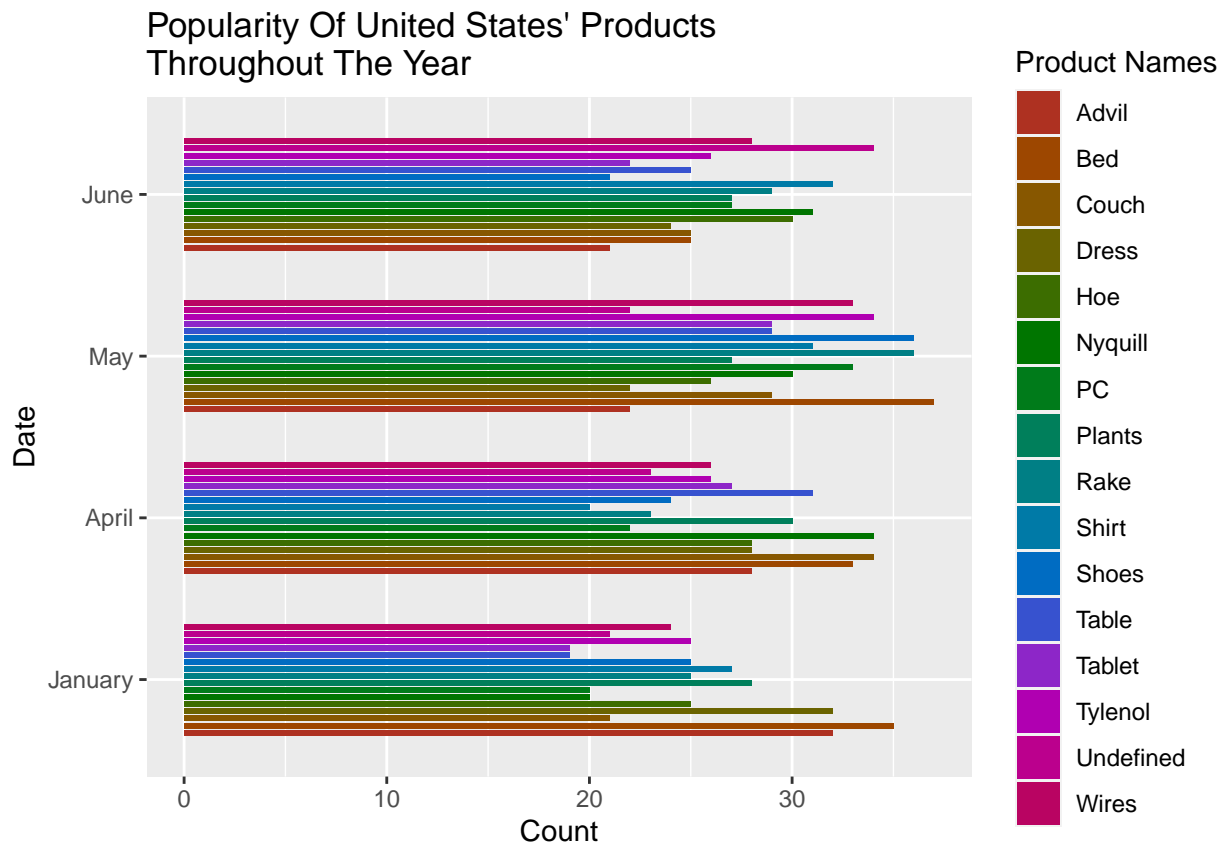
```
## All products for South Korea
skP<-subset(popProduct, COUNTRY = 'South Korea')
ggplot(skP, aes(y = DATETIME,x= PCOUNT,fill = PRODUCT_NAME))+
  scale_fill_hue(name= 'Product Names',l=40)+
  geom_bar(width = 0.5, position = position_dodge(0.7), stat='identity')+
  scale_y_discrete("Date", labels = c("2022-06-23 05:15" = "June", "2022-05-18 02:33" = "May","2022-04-18 02:33" = "April","2022-01-18 02:33" = "January"))+
  ggtitle("Popularity Of South Korea's Products\nThroughout The Year")+
  ylab("Date")+
  xlab("Count")
```



labs()

```
## named list()
## attr("class")
## [1] "labels"
```

```
## All products for United States
usP<-subset(popProduct, COUNTRY = 'United States')
ggplot(usP, aes(y = DATETIME,x= PCOUNT,fill = PRODUCT_NAME))+
  scale_fill_hue(name= 'Product Names',l=40)+
  geom_bar(width = 0.5, position = position_dodge(0.7), stat='identity')+
  scale_y_discrete("Date", labels = c("2022-06-23 05:15" = "June", "2022-05-18 02:33" = "May","2022-04-18 02:33" = "April","2022-01-18 02:33" = "January"))+
  ggtitle("Popularity Of United States' Products\nThroughout The Year")+
  ylab("Date")+
  xlab("Count")
```



labs()

```
## named list()
## attr("class")
## [1] "labels"
```

question 4

```
sales<-read.csv("/Users/jodimitchell/priceSales.csv", header=TRUE)
```

```
ggplot(sales, aes(x = DATE, y = SALES, fill =COUNTRY))+
```

```
  geom_bar(width = 0.5, stat='identity', position = position_dodge(0.7))+
```

```
  ggtitle("Sales Through the year Per Country")+
```

```
  scale_x_discrete("Date", labels = c("2022-06-23 05:15" = "June", "2022-05-18 02:33" = "May", "2022-04-15 00:00" = "April", "2022-01-01 00:00" = "January"))
```

```
  ylab("Sales")+
```

```
  labs()
```

