

video games sales

1-Introduction

Data Set Description

There are **16 variables** in this data set:

- **6 categorical** variables,
- **9 continuous** variables, and
- **1** variable to accomodate video game name.

The following is the **structure of the data set**.

Variable Name	Description	Sample Data
Name	Title of video games	Super Mario Bros.; Wii Sports; ...
Platform	The platform of video games released	3DO; 3DS; ...
Year_of_Release	Year of video games released	1980 ; 2020; ...
Genre	Genre of video games	Action; Adventure; ...
Publisher	Publisher of video games	Nintendo; Activision; ...
NA_Sales	Video game sales in North America (in millions)	41.36; 29.08; ...
EU_Sales	Video game sales in Europe (in millions)	28.96; 3.58; ...
JP_Sales	Video game sales in Japan (in millions)	3.77; 6.81; ...
Other_Sales	Video game sales in other countries (in millions)	8.45; 0.77; ...
Global_Sales	Total of worldwide sales	82.53; 40.24; ...
Critic_Score	Score given by the media	76; 82; ...
Critic_Count	Number of critics given by media	51; 73; ...

Variable Name	Description	Sample Data
User_Score	Score given by the video games user	8; 8.3; ...
User_Count	Number of critics given by the user	322; 709; ...
Developer	Video games developer	Nintendo; Ubisoft; ...
Rating	Rating of video games based on ESRB ratings	AO; E10+; ...

Dataset Link: https://www.kaggle.com/sidtwr/videogames-sales-dataset?select=Video_Games_Sales_as_at_22_Dec_2016.csv

2-Importing Libraries

importing libraries that will be used in this notebook.

```
# Importing Libraries
library(readr)
library(dplyr)
```

Attachement du package : 'dplyr'

Les objets suivants sont masqués depuis 'package:stats':

```
filter, lag
```

Les objets suivants sont masqués depuis 'package:base':

```
intersect, setdiff, setequal, union
```

```
library(tidyr)
library(stringr)
library(ggplot2)
library(corrplot)
```

corrplot 0.92 loaded

```
library(broom)
library(DataExplorer)
library(gridExtra)
```

Attachement du package : 'gridExtra'

L'objet suivant est masqué depuis 'package:dplyr':

combine

```
library(caret)
```

Le chargement a nécessité le package : lattice

```
library(RColorBrewer)
library(missForest)
library(caTools)
library(jtools)
library(mice)
```

Attachement du package : 'mice'

L'objet suivant est masqué depuis 'package:stats':

filter

Les objets suivants sont masqués depuis 'package:base':

cbind, rbind

```
library(randomForest)
```

randomForest 4.7-1.1

Type `rfNews()` to see new features/changes/bug fixes.

Attachement du package : 'randomForest'

L'objet suivant est masqué depuis 'package:gridExtra':

`combine`

L'objet suivant est masqué depuis 'package:ggplot2':

`margin`

L'objet suivant est masqué depuis 'package:dplyr':

`combine`

```
library(e1071)
library(ROCR)
library(klaR)
```

Le chargement a nécessité le package : MASS

Attachement du package : 'MASS'

L'objet suivant est masqué depuis 'package:dplyr':

`select`

3-Reading Data Set

After importing libraries, the dataset will be imported as well. A glimpse of imported datasets will also shown in this section

```
library(readr)
df <- read_csv("C:/Users/21697/OneDrive/Bureau/Video_Games_Sales_as_at_22_Dec_2016.csv")
```

Rows: 16719 Columns: 16

-- Column specification -----

Delimiter: ","

chr (7): Name, Platform, Year_of_Release, Genre, Publisher, Developer, Rating

dbl (9): NA_Sales, EU_Sales, JP_Sales, Other_Sales, Global_Sales, Critic_Sco...

i Use `spec()` to retrieve the full column specification for this data.

i Specify the column types or set `show_col_types = FALSE` to quiet this message.

```
dim(df)
```

```
[1] 16719    16
```

retrieve the full column specification

```
spec(df)
```

```
cols(
  Name = col_character(),
  Platform = col_character(),
  Year_of_Release = col_character(),
  Genre = col_character(),
  Publisher = col_character(),
  NA_Sales = col_double(),
  EU_Sales = col_double(),
  JP_Sales = col_double(),
  Other_Sales = col_double(),
  Global_Sales = col_double(),
  Critic_Score = col_double(),
  Critic_Count = col_double(),
  User_Score = col_double(),
  User_Count = col_double(),
  Developer = col_character(),
  Rating = col_character()
)
```

Show first rows of data

```
head(df)
```

```
# A tibble: 6 x 16
  Name      Platform Year_of_Release Genre Publisher NA_Sales EU_Sales JP_Sales
  <chr>      <chr>      <chr>      <chr> <chr>      <dbl>   <dbl>   <dbl>
1 Wii Sports Wii      2006      Spor~ Nintendo  41.4    29.0    3.77
2 Super Mar~ NES      1985      Plat~ Nintendo  29.1     3.58    6.81
3 Mario Kar~ Wii      2008      Raci~ Nintendo  15.7    12.8    3.79
4 Wii Sport~ Wii      2009      Spor~ Nintendo  15.6    10.9    3.28
5 Pokemon R~ GB       1996      Role~ Nintendo  11.3     8.89   10.2
6 Tetris     GB       1989      Puzz~ Nintendo  23.2     2.26    4.22
# i 8 more variables: Other_Sales <dbl>, Global_Sales <dbl>,
#   Critic_Score <dbl>, Critic_Count <dbl>, User_Score <dbl>, User_Count <dbl>,
#   Developer <chr>, Rating <chr>
```

4-Data Exploration

Changing 'character' columns to factor

```
df$Platform=as.factor(df$Platform)
df$Genre=as.factor(df$Genre)
df$Publisher=as.factor(df$Publisher)
df$Developer=as.factor(df$Developer)
df$Rating=as.factor(df$Rating)
df$Year_of_Release=as.numeric(df$Year_of_Release)
```

Warning: NAs introduits lors de la conversion automatique

4.1 Categorical Variable

The first type of variable that I will explore is categorical variable.

4.1.1 Name

```
df %>% summarise(n_distinct(Name))
```

```
# A tibble: 1 x 1
  `n_distinct(Name)`
      <int>
1         11563
```

There are 11563 unique video games title in the dataset.

4.1.2 Platform

```
df %>% group_by(Platform) %>% summarise(Count = n(),Perc=round(n()/nrow(.)*100,2)) %>%
```



```
# A tibble: 31 x 3
  Platform Count  Perc
  <fct>      <int> <dbl>
1 PS2        2161 12.9
2 DS         2152 12.9
3 PS3        1331  7.96
4 Wii        1320  7.9
5 X360       1262  7.55
6 PSP        1209  7.23
7 PS         1197  7.16
8 PC          974  5.83
9 XB          824  4.93
10 GBA        822  4.92
# i 21 more rows
```

.There are 31 platforms of video games. Platform distribution can be seen above.
.In this dataset, PS2 have the highest percentage from all platforms (12.93%).

4.1.3 Genre

```
df %>%
  group_by(Genre) %>%
  summarise(Count = n(),Perc=round(n()/nrow(.)*100,2)) %>%
  arrange(desc(Count))
```



```
# A tibble: 13 x 3
  Genre      Count  Perc
  <fct>      <int> <dbl>
1 Action    3370 20.2
2 Sports    2348 14.0
3 Misc      1750 10.5
4 Role-Playing 1500  8.97
5 Shooter   1323  7.91
```

6	Adventure	1303	7.79
7	Racing	1249	7.47
8	Platform	888	5.31
9	Simulation	874	5.23
10	Fighting	849	5.08
11	Strategy	683	4.09
12	Puzzle	580	3.47
13	<NA>	2	0.01

.There are 13 different genres and ‘Action’ is the most popular genre (20.16%).

4.1.4 Publisher

```
df %>%
  group_by(Publisher) %>%
  summarise(Count = n(),Perc=round(n()/nrow(.)*100,2)) %>%
  arrange(desc(Count))
```

```
# A tibble: 582 x 3
  Publisher          Count  Perc
  <fct>             <int> <dbl>
1 Electronic Arts    1356  8.11
2 Activision         985  5.89
3 Namco Bandai Games 939  5.62
4 Ubisoft            933  5.58
5 Konami Digital Entertainment 834  4.99
6 THQ                715  4.28
7 Nintendo           706  4.22
8 Sony Computer Entertainment 687  4.11
9 Sega               638  3.82
10 Take-Two Interactive 422  2.52
# i 572 more rows
```

.There are 582 publishers of video games. ‘Electronic Arts’ is the most popular publisher (8.11%).

4.1.5 Developer

```
df %>%
  group_by(Developer) %>%
  summarise(Count = n(),Perc=round(n()/nrow(.)*100,2)) %>%
  arrange(desc(Count))
```

```
# A tibble: 1,697 x 3
  Developer      Count  Perc
  <fct>          <int> <dbl>
1 <NA>           6623 39.6
2 Ubisoft         204  1.22
3 EA Sports       172  1.03
4 EA Canada       167   1
5 Konami          162  0.97
6 Capcom          139  0.83
7 EA Tiburon      108  0.65
8 Electronic Arts  104  0.62
9 Ubisoft Montreal 101  0.6
10 Visual Concepts  99  0.59
# i 1,687 more rows
```

.There are 1697 developers of video games. In this dataset, 'Ubisoft' is the most popular developer (39.61%).

4.1.6 Rating

```
df %>%
  group_by(Rating) %>%
  summarise(Count = n(),Perc=round(n()/nrow(.)*100,2)) %>%
  arrange(desc(Count))
```

```
# A tibble: 9 x 3
  Rating Count  Perc
  <fct>   <int> <dbl>
1 <NA>    6769 40.5
2 E       3991 23.9
3 T       2961 17.7
4 M       1563  9.35
```

5	E10+	1420	8.49
6	EC	8	0.05
7	K-A	3	0.02
8	RP	3	0.02
9	AO	1	0.01

.There are 9 ratings of video games based on ESRB ratings.

.In this dataset, 'E' (everyone) rating is the highest rating in dataset (23.87%).

.There are also some null value in Rating column, this will be imputed in data manipulation process

4.2 Numerical Variable

The second variable that I will explore is categorical variable.

4.2.1 NA_Sales

```
df %>%
  summarise(is_NULL=sum(is.na(NA_Sales)==1),
            is_NOT_NULL=sum(!is.na(NA_Sales)==1)
  )
```

```
# A tibble: 1 x 2
  is_NULL is_NOT_NULL
  <int>      <int>
1       0      16719
```

```
df%>%
  filter(!is.na(NA_Sales))%>%
  summarise(
    Max=max(NA_Sales),
    Min=min(NA_Sales),
    Mean=mean(NA_Sales),
    Median=median(NA_Sales),
    QUA1=quantile(NA_Sales,1/4),
    QUA3=quantile(NA_Sales,3/4),
    IQR=IQR(NA_Sales)
  )
```

```
# A tibble: 1 x 7
  Max   Min Mean Median QUA1 QUA3 IQR
<dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1  41.4     0 0.263   0.08     0  0.24  0.24
```

.There is no null value on NA_Sales column. However, for minimum value, there are “0” values on column.

4.2.2 EU_Sales

```
df %>%
  summarise(is_NULL=sum(is.na(EU_Sales)==1),
            is_NOT_NULL=sum(!is.na(EU_Sales)==1)
  )
```

```
# A tibble: 1 x 2
  is_NULL is_NOT_NULL
  <int>      <int>
1      0      16719
```

```
df %>%
  filter(!is.na(EU_Sales)) %>%
  summarise(
    Max=max(EU_Sales),
    Min=min(EU_Sales),
    Mean=mean(EU_Sales),
    Median=median(EU_Sales),
    QUA1=quantile(EU_Sales,1/4),
    QUA3=quantile(EU_Sales,3/4),
    IQR=IQR(EU_Sales)
  )
```

```
# A tibble: 1 x 7
  Max   Min Mean Median QUA1 QUA3 IQR
<dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1  29.0     0 0.145   0.02     0  0.11  0.11
```

.There is no null value on EU_Sales column but for minimum value, there are “0” values on column.

4.2.3 JP_Sales

```
df %>%
  summarise(is_NULL=sum(is.na(JP_Sales)==1),
            is_NOT_NULL=sum(!is.na(JP_Sales)==1)
  )
```

```
# A tibble: 1 x 2
  is_NULL is_NOT_NULL
  <int>     <int>
1       0       16719
```

```
df %>%
  filter(!is.na(JP_Sales))%>%
  summarise(
    Max=max(JP_Sales),
    Min=min(JP_Sales),
    Mean=mean(JP_Sales),
    Median=median(JP_Sales),
    QUA1=quantile(JP_Sales,1/4),
    QUA3=quantile(JP_Sales,3/4),
    IQR=IQR(JP_Sales)
  )
```

```
# A tibble: 1 x 7
  Max    Min    Mean Median  QUA1  QUA3  IQR
  <dbl> <dbl>  <dbl>  <dbl> <dbl> <dbl> <dbl>
1  10.2    0 0.0776    0    0  0.04  0.04
```

.There is no null value on JP_Sales column.

.However, for minimum value, there is “0” values on column.

4.2.4 Other_Sales

```
df %>%
  summarise(is_NULL=sum(is.na(Other_Sales)==1),
            is_NOT_NULL=sum(!is.na(Other_Sales)==1)
  )
```

```
# A tibble: 1 x 2
  is_NULL is_NOT_NULL
  <int>      <int>
1      0      16719
```

```
df %>%
  filter(!is.na(Other_Sales))%>%
  summarise(
    Max=max(Other_Sales),
    Min=min(Other_Sales),
    Mean=mean(Other_Sales),
    Median=median(Other_Sales),
    QUA1=quantile(Other_Sales,1/4),
    QUA3=quantile(Other_Sales,3/4),
    IQR=IQR(Other_Sales)
  )
```

```
# A tibble: 1 x 7
  Max    Min    Mean Median  QUA1  QUA3  IQR
<dbl> <dbl>  <dbl>  <dbl> <dbl> <dbl> <dbl>
1  10.6    0 0.0473  0.01    0  0.03  0.03
```

.There is no null value on Other_Sales column but for minimum value, there are “0” values on column.

4.2.5 Global Sales

```
df %>%
  summarise(is_NULL=sum(is.na(Global_Sales)==1),
            is_NOT_NULL=sum(!is.na(Global_Sales)==1)
  )
```

```
# A tibble: 1 x 2
  is_NULL is_NOT_NULL
  <int>      <int>
1      0      16719
```

```
df%>%
  filter(!is.na(Global_Sales))%>%
  summarise(
    Max=max(Global_Sales),
    Min=min(Global_Sales),
    Mean=mean(Global_Sales),
    Median=median(Global_Sales),
    QUA1=quantile(Global_Sales,1/4),
    QUA3=quantile(Global_Sales,3/4),
    IQR=IQR(Global_Sales)
  )
```

```
# A tibble: 1 x 7
  Max   Min  Mean Median  QUA1  QUA3  IQR
<dbl> <dbl> <dbl>  <dbl> <dbl> <dbl> <dbl>
1  82.5  0.01 0.534   0.17  0.06  0.47  0.41
```

.There is no null or “0” values on Global_Sales column. The max sales is 82.53 and min sales is 0.01.

4.2.6 Critic_Score

```
df %>%
  summarise(is_NULL=sum(is.na(Critic_Score)==1),
            is_NOT_NULL=sum(!is.na(Critic_Score)==1)
  )
```

```
# A tibble: 1 x 2
  is_NULL is_NOT_NULL
  <int>      <int>
1    8582         8137
```

```
df %>%
  filter(!is.na(Critic_Score))%>%
  summarise(
    Max=max(Critic_Score),
    Min=min(Critic_Score),
    Mean=mean(Critic_Score),
    Median=median(Critic_Score),
```

```

    QUA1=quantile(Critic_Score,1/4),
    QUA3=quantile(Critic_Score,3/4),
    IQR=IQR(Critic_Score)
)

```

```

# A tibble: 1 x 7
  Max   Min Mean Median QUA1 QUA3 IQR
<dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1    98    13  69.0    71    60    79    19

```

.The result show that Critic_Score column has 5952 null values.

.When excluding the null values, the max score is 98 and the minimum score is 13.

4.2.7 Critic_Count

```

df %>%
  summarise(is_NULL=sum(is.na(Critic_Count)==1),
            is_NOT_NULL=sum(!is.na(Critic_Count)==1)
  )

```

```

# A tibble: 1 x 2
  is_NULL is_NOT_NULL
  <int>    <int>
1    8582      8137

```

```

df %>%
  filter(!is.na(Critic_Count))%>%
  summarise(
    Max=max(Critic_Count),
    Min=min(Critic_Count),
    Mean=mean(Critic_Count),
    Median=median(Critic_Count),
    QUA1=quantile(Critic_Count,1/4),
    QUA3=quantile(Critic_Count,3/4),
    IQR=IQR(Critic_Count)
  )

```

```
# A tibble: 1 x 7
  Max   Min Mean Median QUA1 QUA3 IQR
<dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1  113     3 26.4    21    12    36    24
```

.The result show that Critic_Count column has 5952 null values.

.When excluding the null values, the max number of media give critics is 113 and the min number of media give critics is 3.

4.2.8 User_Score

```
df %>%
  summarise(is_NULL=sum(is.na(User_Score)==1),
            is_NOT_NULL=sum(!is.na(User_Score)==1),
            is_tbd=sum(User_Score=="tbd")
  )
```

```
# A tibble: 1 x 3
  is_NULL is_NOT_NULL is_tbd
  <int>      <int>   <int>
1    9129      7590     NA
```

```
df %>%
  mutate(User_Score = as.numeric(User_Score)) %>%
  filter(!is.na(User_Score) & User_Score!="tbd") %>%
  summarise(
    Max=max(User_Score),
    Min=min(User_Score),
    Mean=mean(User_Score),
    Median=median(User_Score),
    QUA1=quantile(User_Score,1/4),
    QUA3=quantile(User_Score,3/4),
    IQR=IQR(User_Score)
  )
```

```
# A tibble: 1 x 7
  Max   Min Mean Median QUA1 QUA3 IQR
<dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1   9.7     0  7.13    7.5   6.4   8.2  1.80
```


. There is no null value on User_Score column, however there are “0” values and “tbd” values on column.

4.2.9 User_Count

```
df %>%
  summarise(is_NULL=sum(is.na(User_Count)==1),
            is_NOT_NULL=sum(!is.na(User_Count)==1)
  )
```

```
# A tibble: 1 x 2
  is_NULL is_NOT_NULL
  <int>      <int>
1     9129         7590
```

```
df %>%
  filter(!is.na(User_Count))%>%
  summarise(
    Max=max(User_Count),
    Min=min(User_Count),
    Mean=mean(User_Count),
    Median=median(User_Count),
    QUA1=quantile(User_Count,1/4),
    QUA3=quantile(User_Count,3/4),
    IQR=IQR(User_Count)
  )
```

```
# A tibble: 1 x 7
  Max    Min  Mean Median  QUA1  QUA3  IQR
  <dbl> <dbl> <dbl>  <dbl> <dbl> <dbl> <dbl>
1 10665     4  162.    24    10    81    71
```

.The result show that User_Count column has 6327 null values.

.When excluding the null values, the max number of users give critics is 10665 and the min number of users give critics is 4.

4.3 Dataset Summary

A quick summary of the dataset will be shown here.

```
summary(df)
```

Name	Platform	Year_of_Release	Genre
Length:16719	PS2 :2161	Min. :1980	Action :3370
Class :character	DS :2152	1st Qu.:2003	Sports :2348
Mode :character	PS3 :1331	Median :2007	Misc :1750
	Wii :1320	Mean :2006	Role-Playing:1500
	X360 :1262	3rd Qu.:2010	Shooter :1323
	PSP :1209	Max. :2020	(Other) :6426
	(Other):7284	NA's :269	NA's : 2
	Publisher	NA_Sales	EU_Sales
Electronic Arts	: 1356	Min. : 0.0000	Min. : 0.000
Activision	: 985	1st Qu.: 0.0000	1st Qu.: 0.000
Namco Bandai Games	: 939	Median : 0.0800	Median : 0.020
Ubisoft	: 933	Mean : 0.2633	Mean : 0.145
Konami Digital Entertainment:	834	3rd Qu.: 0.2400	3rd Qu.: 0.110
THQ	: 715	Max. :41.3600	Max. :28.960
(Other)	:10957		
JP_Sales	Other_Sales	Global_Sales	Critic_Score
Min. : 0.0000	Min. : 0.00000	Min. : 0.0100	Min. :13.00
1st Qu.: 0.0000	1st Qu.: 0.00000	1st Qu.: 0.0600	1st Qu.:60.00
Median : 0.0000	Median : 0.01000	Median : 0.1700	Median :71.00
Mean : 0.0776	Mean : 0.04733	Mean : 0.5335	Mean :68.97
3rd Qu.: 0.0400	3rd Qu.: 0.03000	3rd Qu.: 0.4700	3rd Qu.:79.00
Max. :10.2200	Max. :10.57000	Max. :82.5300	Max. :98.00
			NA's :8582
Critic_Count	User_Score	User_Count	Developer
Min. : 3.00	Min. :0.000	Min. : 4.0	Ubisoft : 204
1st Qu.: 12.00	1st Qu.:6.400	1st Qu.: 10.0	EA Sports: 172
Median : 21.00	Median :7.500	Median : 24.0	EA Canada: 167
Mean : 26.36	Mean :7.125	Mean : 162.2	Konami : 162
3rd Qu.: 36.00	3rd Qu.:8.200	3rd Qu.: 81.0	Capcom : 139
Max. :113.00	Max. :9.700	Max. :10665.0	(Other) :9252
NA's :8582	NA's :9129	NA's :9129	NA's :6623
Rating			
E :3991			
T :2961			
M :1563			
E10+ :1420			
EC : 8			
(Other): 7			
NA's :6769			

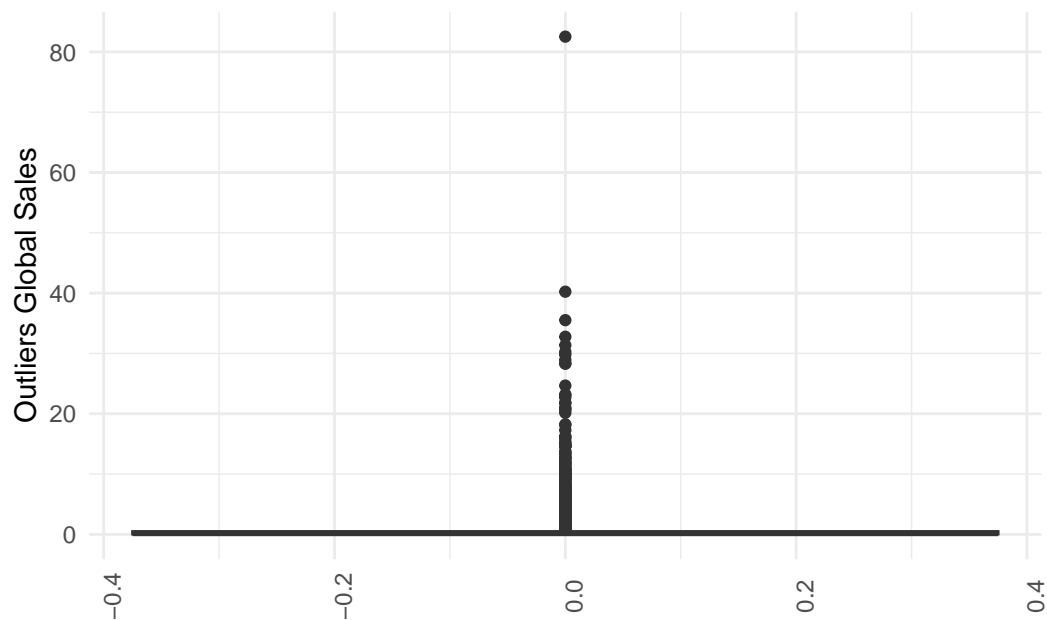
4.4 Detecting Outliers in Global_Sales

.Since this notebook focuses on implementing the models to predict Global_Sales, it requires outliers detection in this column.

```
outlier_global_sales <- qplot(y = Global_Sales, ylab = "Outliers Global Sales", data = df,
```

Warning: `qplot()` was deprecated in ggplot2 3.4.0.

```
outlier_global_sales
```



5. Data Preprocessing

This section focuses on cleaning/preparing the dataset before implement it to the models.

5.1 Creating and Dropping Features and Observations

5.1.1 Dropping Unrelated Features

Unrelated variables (such as NA_Sales, EU_Sales, JP_Sales, Other_Sales)

```
df = subset(df, select = -c(NA_Sales,EU_Sales,JP_Sales,Other_Sales))
```

5.1.2 Delete “PCFX” and “GG” in Platform

Since PCFX and GG only have 1 observations, these observations will be deleted to simplify the sampling process.

```
df <- subset(df, df$Platform != "PCFX")  
df <- subset(df, df$Platform != "GG")
```

5.1.3 Creating New Features

```
df$Year_of_Release <- 2024 - df$Year_of_Release  
names(df)[3] <- "Age"
```

5.2 Data Cleaning

Cleaning the null values and dirty data.

5.2.1 Deleting Null Rows

In the name and genre column, there are 2 null values.
In this case, the data/rows will be deleted.

```
df <- subset(df, df$Name != "" | df$Genre != "")
```

5.2.2 Fill Blank/Null Values with NA

The dataset contains some blank/null values.
In order to make good analysis, the null values should be filled with NA.

```
is.na(df) <- df == ''
```

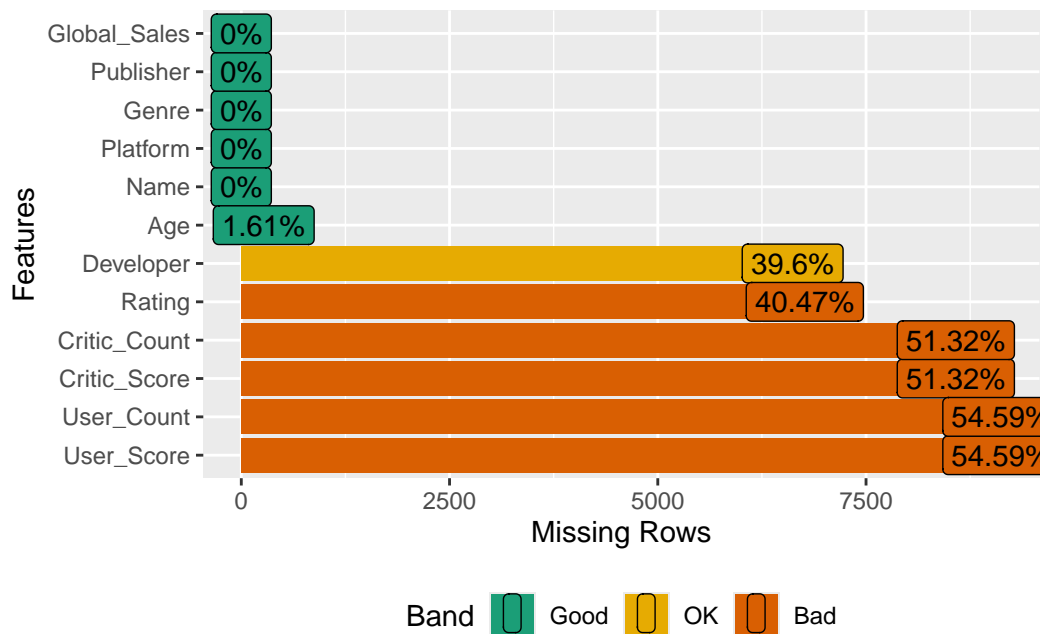
5.2.3 Cleaning Dirty Data

In user score column, there are some “tbd” values.
The “tbd” values will be replaced with NA to make good analysis.

```
df$User_Score <- as.character(df$User_Score)
df$User_Score[df$User_Score == "tbd"] <- ""
```

5.2.4 Plot Missing Values

```
plot_missing(df)
```



After deleting, filling blank values with NA values, it still shows high percentages of missing data in the video games sales dataset.

5.3 Data Imputation

.In this section, missing values will be filled using the data imputation technique.

5.3.1 Imputation w/ MICE

.This section will impute the missing values with MICE package.

.In order to fill missing categorical value in dataset, it is necessary to convert the categorical values into numbers before calling MICE package.

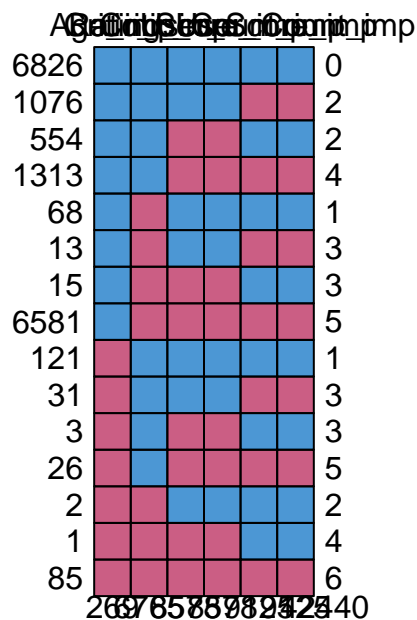
```
# Convert categorical to numbers
df$User_Score=as.double(df$User_Score)

df_imputation <- data.frame(df$Age, df$Rating, df$Critic_Score, df$Critic_Count, df$User_Score)
names(df_imputation) <- c("Age_imp", "Rating_imp", "Critic_Score_imp", "Critic_Count_imp", "User_Score_imp")

df_imputation$Rating_imp = factor(df_imputation$Rating_imp,
                                  levels = c('AO', 'E', 'E10+', 'EC', 'K-A', 'M', 'RP', 'T'), labels = c(1, 2, 3, 4, 5, 6, 7, 8))

# Imputation w/ MICE

md.pattern(df_imputation)
```



	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp
6826	1	1	1	1	1
1076	1	1	1	1	0

554	1	1	0	0	1
1313	1	1	0	0	0
68	1	0	1	1	1
13	1	0	1	1	0
15	1	0	0	0	1
6581	1	0	0	0	0
121	0	1	1	1	1
31	0	1	1	1	0
3	0	1	0	0	1
26	0	1	0	0	0
2	0	0	1	1	1
1	0	0	0	0	1
85	0	0	0	0	0

269	6765	8578	8578	9125
-----	------	------	------	------

User_Count_imp

6826	1	0
1076	0	2
554	1	2
1313	0	4
68	1	1
13	0	3
15	1	3
6581	0	5
121	1	1
31	0	3
3	1	3
26	0	5
2	1	2
1	1	4
85	0	6

9125	42440
------	-------

```
df_imputation_imp <- mice(df_imputation, m=5, seed = 123)
```

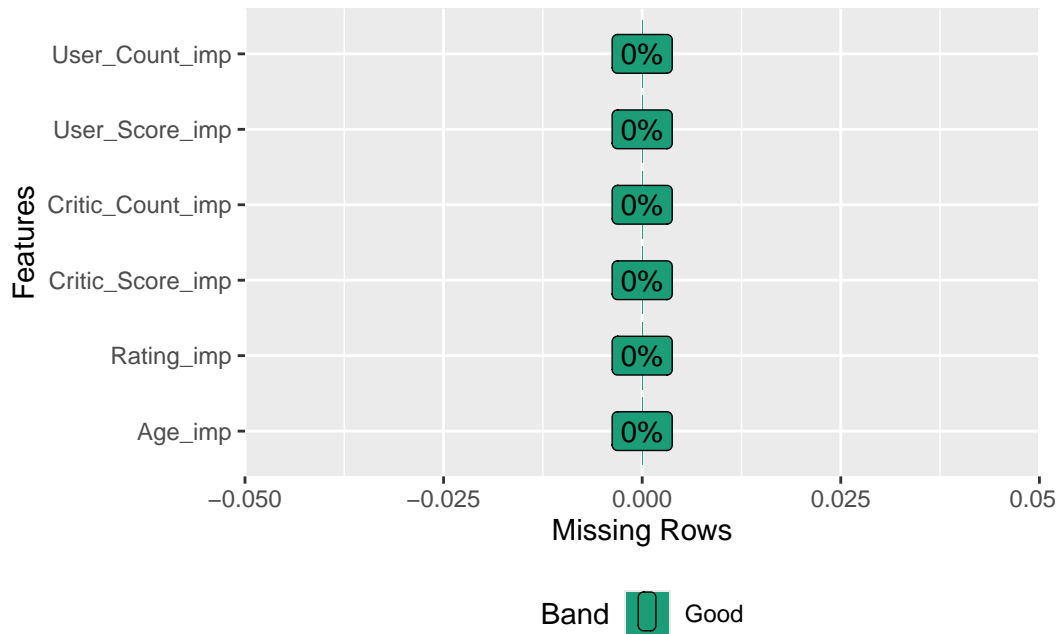
iter imp variable

1	1	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
1	2	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
1	3	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
1	4	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
1	5	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.

2	1	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
2	2	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
2	3	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
2	4	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
2	5	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
3	1	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
3	2	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
3	3	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
3	4	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
3	5	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
4	1	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
4	2	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
4	3	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
4	4	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
4	5	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
5	1	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
5	2	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
5	3	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
5	4	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.
5	5	Age_imp	Rating_imp	Critic_Score_imp	Critic_Count_imp	User_Score_imp	User_Count.

Warning: Number of logged events: 114

```
df_imputation <- complete(df_imputation_imp, 1)
plot_missing(df_imputation)
```

```
# Revert numbers to categorical

df_imputation$Rating_imp = factor(df_imputation$Rating_imp,
                                  levels = c(1, 2, 3, 4, 5, 6, 7, 8), labels = c('A0', 'E', 'E10+', 'E10+', 'E10+', 'E10+', 'E10+', 'E10+'))
df <- df %>% mutate(ID = row_number())
df_imputation <- df_imputation %>% mutate(ID = row_number())
df <- merge(df, df_imputation, by="ID")
df = subset(df, select = -c(ID, Rating, Age, Critic_Score, Critic_Count, User_Score, User_Count))
```

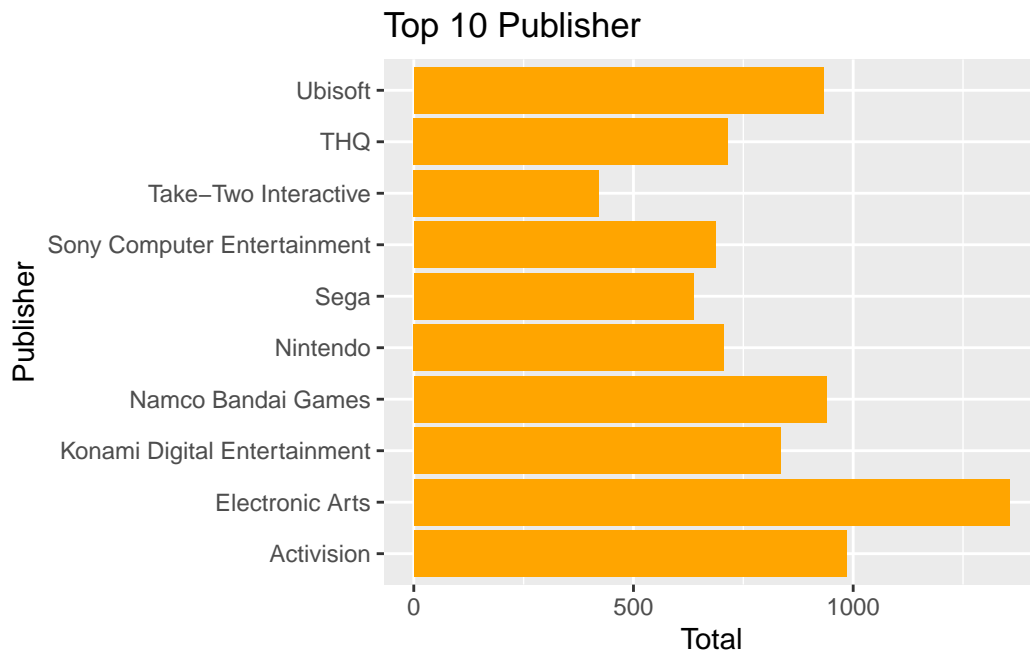
6. Data visualization and analysis

6.1 Top 10 Publisher

```
publisher_data <- df %>%
  group_by(Publisher) %>%
  summarise(count = n()) %>%
  top_n(n = 10, wt = count)

publisher_charts <- ggplot(publisher_data, aes(x = Publisher, y = count, fill=count)) + geom_bar()
```

```
labs(title = "Top 10 Publisher", x="Publisher",y="Total") + coord_flip()
publisher_charts
```

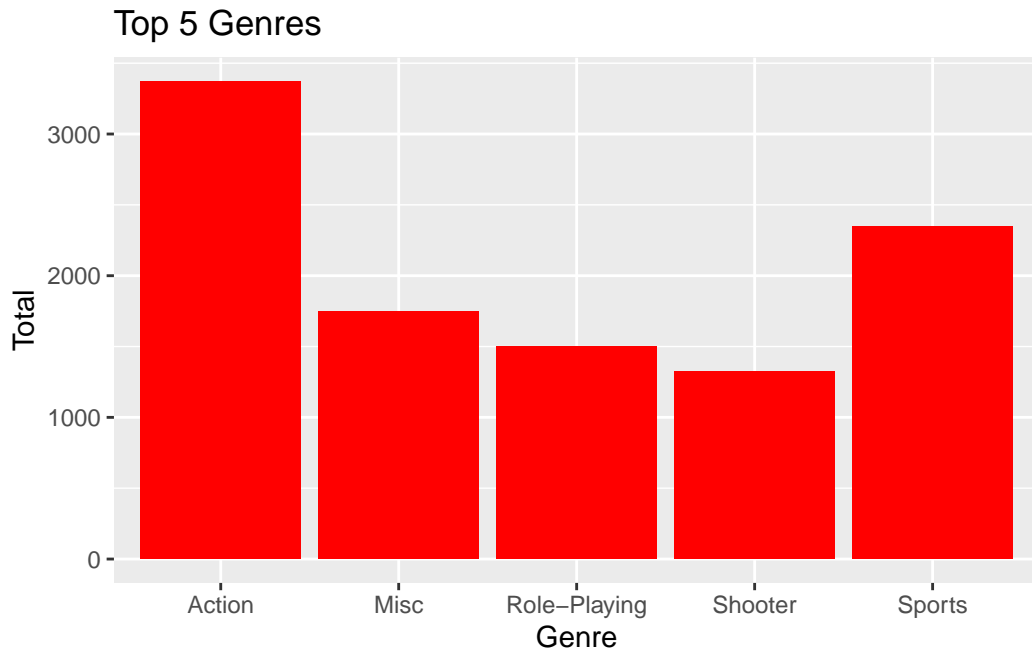


.Electronic Arts became the publisher with the most released games on the market, followed by Activision and Namco Bandai Games.

6.2 Top 5 Genre

```
genre_data <- df %>%
  group_by(Genre) %>%
  summarise(count = n()) %>%
  top_n(n = 5, wt = count)

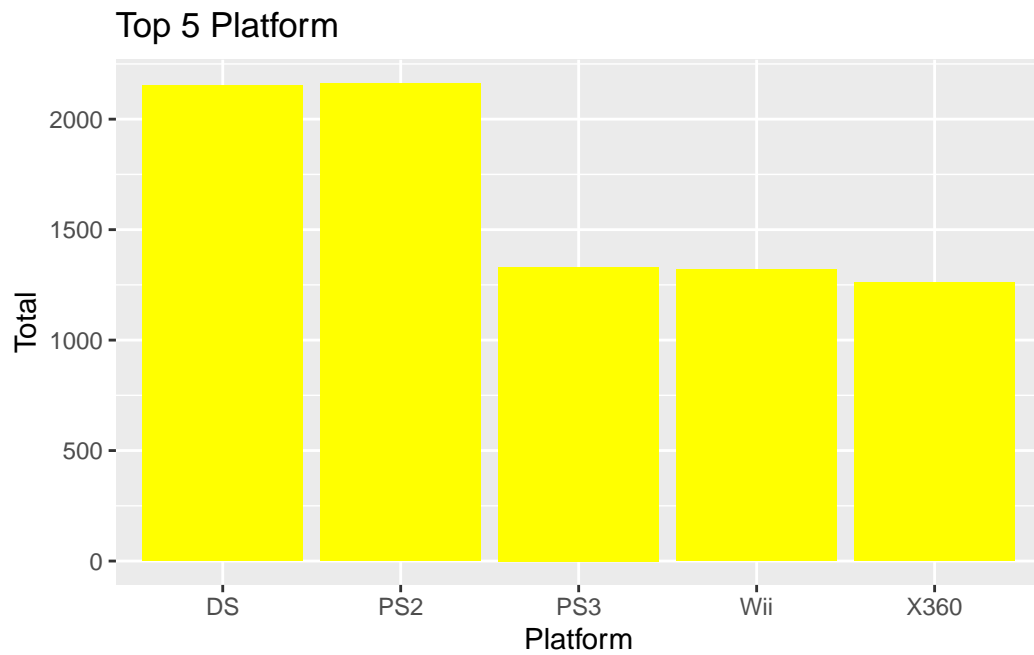
genre_charts <- ggplot(genre_data, aes(x = Genre, y = count, fill=count)) + geom_col(fill=
  labs(title = "Top 5 Genres", x="Genre",y="Total")
genre_charts
```



.Action is the most popular video game genre on the market, followed by Sports and Misc.

6.3 Top 5 Platform

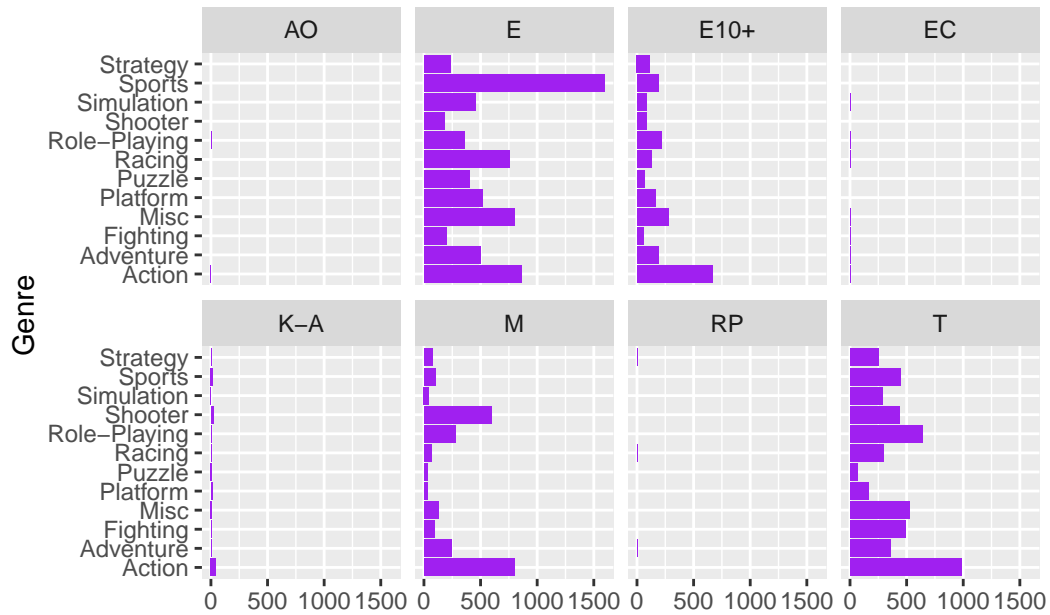
```
platform_data <- df %>%  
  group_by(Platform) %>%  
  summarise(count = n()) %>%  
  top_n(n = 5, wt = count)  
  
platform_charts <- ggplot(platform_data, aes(x = Platform, y = count, fill=count)) + geom_bar()  
  labs(title = "Top 5 Platform", x="Platform",y="Total")  
platform_charts
```



.PS2 became the platform that had the most video games, followed by DS and PS3.

6.4 Genre based on Rating

```
qplot(x = Genre, data = df) + geom_bar(fill = "purple") + coord_flip() + facet_wrap(~Rating)
```

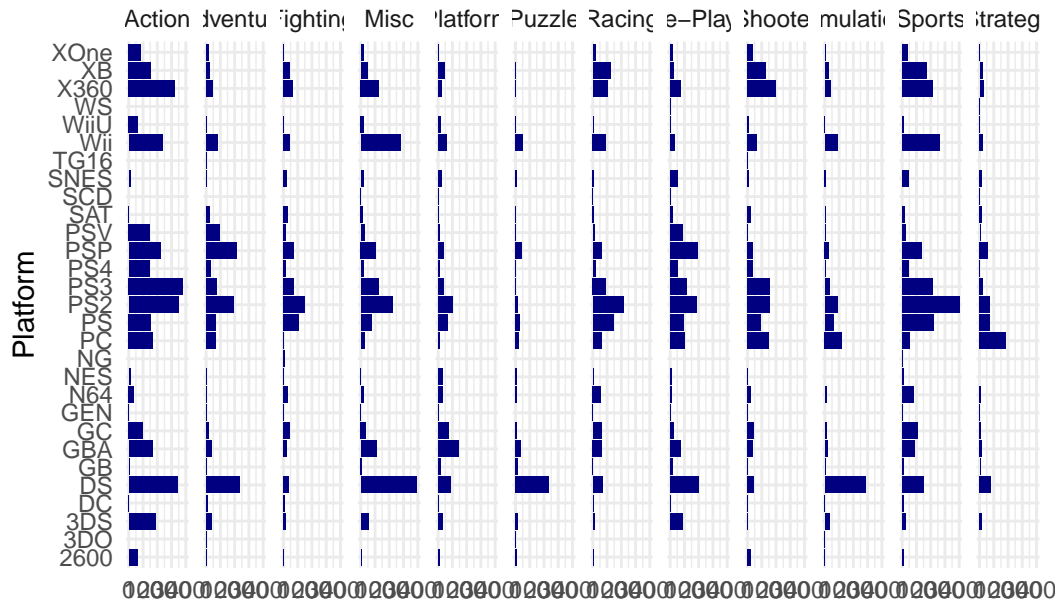


.Most of the video games on the market are rated E and the majority of genres rated E are the Sports genre.

.Moreover, the T and M ratings are other ratings that have the most video games on the market, with Action being the majority of the genres for the T and M ratings.

6.5 Platform based on Genre

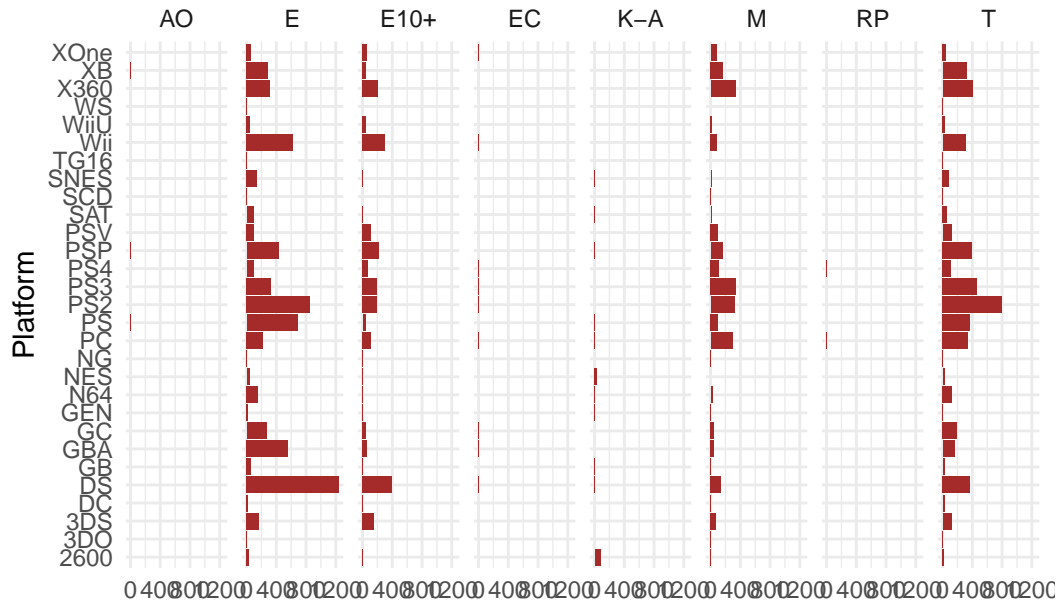
```
qplot(x=Platform,data=df)+ geom_bar(fill="navy") + theme(axis.text = element_text) + coord
```



.Most of the video games on the market are video games for PS2, DS, PS3 and X360.
 .The majority of game genres for those platforms are Action and Sports.

6.6 Platform based on Rating

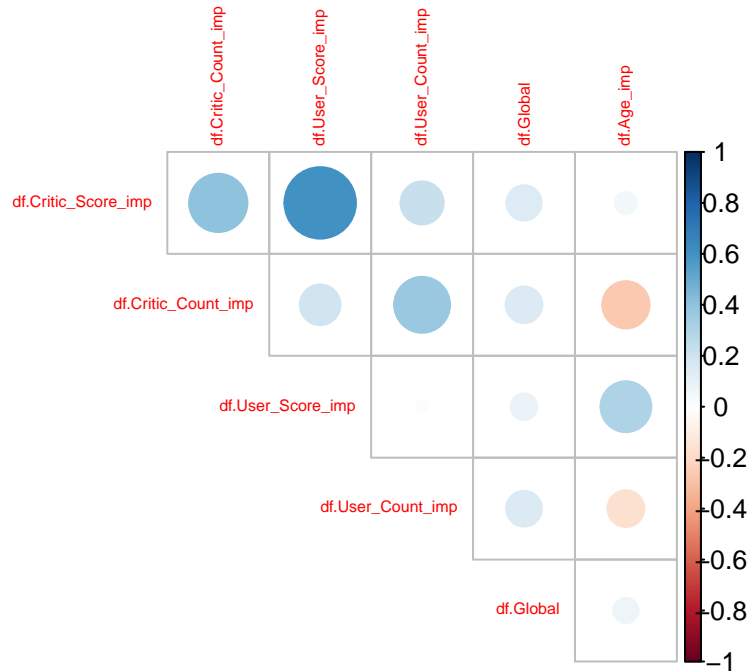
```
qplot(x=Platform,data=df)+ geom_bar(fill="brown") + theme(axis.text = element_text) + coord
```



.The DS platform has video games rated E followed by PS2 and Wii the most.
 .As for video games with a T rating, PS2 became the platform that had the most video games for that rating, followed by PS and PS3.

6.7 Correlation Matrix

```
cor_df <- data.frame(df$Age_imp, df$Critic_Score_imp, df$Critic_Count_imp, df$User_Score_i
cor_matrix<-cor(cor_df)
corrplot(cor_matrix, diag = FALSE, order = "FPC", tl.pos = "td", tl.cex = 0.5, method = "c
```



.It can be seen that the Critic_Count_imp column and User_Score_imp column have a high correlation (close to 1).

7. Dataset Preparation

```
df1 = subset(df, select = -c(Name, Publisher, Developer))
```

```
# Exp 1 - train:test 70:30, seed 555
```

```
set.seed(555)
```

```
split = sample.split(df1$Global, SplitRatio = 0.7)
```

```
train_dataset1 = subset(df1, split == TRUE)
```

```
test_dataset1 = subset(df1, split == FALSE)
```

```
# Exp 2 - train:test 70:30, seed 555, outliers removed, data scaling
```

```
Q <- quantile(df1$Global_Sales, probs=c(.25, .75), na.rm = FALSE)
```

```
iqr <- IQR(df1$Global_Sales)
```

```
df1_clean<- subset(df1, df1$Global_Sales > (Q[1] - 1.5*iqr) & df1$Global_Sales < (Q[2]+1.5
```



```

set.seed(555)
split = sample.split(df1_clean$Global, SplitRatio = 0.7)
train_dataset2 = subset(df1_clean, split == TRUE)
test_dataset2 = subset(df1_clean, split == FALSE)

train_dataset2[,3] = scale(train_dataset2[,3], center = TRUE, scale = TRUE)
test_dataset2[,3] = scale(test_dataset2[,3], center = TRUE, scale = TRUE)
train_dataset2[,6:9] = scale(train_dataset2[,6:9], center = TRUE, scale = TRUE)
test_dataset2[,6:9] = scale(test_dataset2[,6:9], center = TRUE, scale = TRUE)

```

8. Prediction

8.1 Multiple Linear Regression

```

### Exp 1 - Multiple Linear Regression
regressor1 = lm(formula = Global_Sales ~ .,
                 data = train_dataset1)
summary(regressor1)

```

Call:

```
lm(formula = Global_Sales ~ ., data = train_dataset1)
```

Residuals:

Min	1Q	Median	3Q	Max
-5.518	-0.487	-0.189	0.132	81.001

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	-1.760e+00	1.240e+00	-1.419	0.155936
Platform3D0	2.255e-01	1.219e+00	0.185	0.853185
Platform3DS	1.336e+00	2.805e-01	4.763	1.93e-06 ***
PlatformDC	4.869e-01	3.505e-01	1.389	0.164765
PlatformDS	1.071e+00	2.538e-01	4.221	2.45e-05 ***
PlatformGB	3.170e+00	2.973e-01	10.662	< 2e-16 ***
PlatformGBA	7.688e-01	2.463e-01	3.121	0.001807 **
PlatformGC	7.366e-01	2.519e-01	2.925	0.003456 **
PlatformGEN	5.406e-01	4.466e-01	1.210	0.226142
PlatformN64	9.185e-01	2.513e-01	3.655	0.000258 ***

PlatformNES	2.325e+00	2.773e-01	8.383	< 2e-16	***
PlatformNG	8.212e-02	5.598e-01	0.147	0.883384	
PlatformPC	7.068e-01	2.615e-01	2.703	0.006892	**
PlatformPS	7.946e-01	2.325e-01	3.417	0.000634	***
PlatformPS2	1.072e+00	2.439e-01	4.397	1.11e-05	***
PlatformPS3	1.339e+00	2.645e-01	5.062	4.21e-07	***
PlatformPS4	1.538e+00	2.930e-01	5.250	1.55e-07	***
PlatformPSP	9.157e-01	2.580e-01	3.549	0.000388	***
PlatformPSV	9.642e-01	2.871e-01	3.359	0.000785	***
PlatformSAT	2.766e-01	2.701e-01	1.024	0.305913	
PlatformSCD	5.437e-01	1.003e+00	0.542	0.587734	
PlatformSNES	9.115e-01	2.547e-01	3.579	0.000347	***
PlatformTG16	2.597e-01	1.218e+00	0.213	0.831125	
PlatformWii	1.492e+00	2.586e-01	5.769	8.19e-09	***
PlatformWiiU	1.238e+00	3.138e-01	3.944	8.06e-05	***
PlatformWS	5.828e-01	7.297e-01	0.799	0.424490	
PlatformX360	1.303e+00	2.618e-01	4.979	6.47e-07	***
PlatformXB	6.639e-01	2.479e-01	2.678	0.007412	**
PlatformXOne	1.480e+00	3.026e-01	4.890	1.02e-06	***
GenreAdventure	-2.983e-01	6.759e-02	-4.414	1.03e-05	***
GenreFighting	1.939e-02	7.995e-02	0.243	0.808360	
GenreMisc	-1.034e-01	6.160e-02	-1.679	0.093113	.
GenrePlatform	3.578e-01	7.868e-02	4.548	5.47e-06	***
GenrePuzzle	-2.427e-01	9.304e-02	-2.609	0.009094	**
GenreRacing	5.039e-02	6.911e-02	0.729	0.465908	
GenreRole-Playing	2.000e-02	6.351e-02	0.315	0.752817	
GenreShooter	1.667e-01	6.741e-02	2.473	0.013399	*
GenreSimulation	-1.108e-01	7.890e-02	-1.404	0.160294	
GenreSports	-5.576e-02	5.777e-02	-0.965	0.334449	
GenreStrategy	-2.672e-01	8.773e-02	-3.045	0.002331	**
Age_imp	5.397e-02	6.568e-03	8.217	2.31e-16	***
Rating_impE	-4.362e-01	1.199e+00	-0.364	0.715948	
Rating_impE10+	-5.713e-01	1.199e+00	-0.476	0.633779	
Rating_impEC	-1.330e+00	1.303e+00	-1.020	0.307689	
Rating_impK-A	-7.914e-02	1.221e+00	-0.065	0.948306	
Rating_impM	-6.036e-01	1.199e+00	-0.503	0.614653	
Rating_impRP	-2.450e-01	1.548e+00	-0.158	0.874296	
Rating_impT	-6.304e-01	1.199e+00	-0.526	0.598963	
Critic_Score_imp	1.099e-02	1.559e-03	7.052	1.86e-12	***
Critic_Count_imp	1.156e-02	1.107e-03	10.444	< 2e-16	***
User_Score_imp	-2.952e-02	1.398e-02	-2.112	0.034722	*
User_Count_imp	3.999e-04	3.337e-05	11.986	< 2e-16	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 1.693 on 11705 degrees of freedom

Multiple R-squared: 0.103, Adjusted R-squared: 0.09906

F-statistic: 26.35 on 51 and 11705 DF, p-value: < 2.2e-16

```
summ(regressor1, confint = TRUE)
```

MODEL INFO:

Observations: 11757

Dependent Variable: Global_Sales

Type: OLS linear regression

MODEL FIT:

$F(51,11705) = 26.35$, $p = 0.00$

$R^2 = 0.10$

Adj. $R^2 = 0.10$

Standard errors: OLS

	Est.	2.5%	97.5%	t val.	p
(Intercept)	-1.76	-4.19	0.67	-1.42	0.16
Platform3D0	0.23	-2.16	2.61	0.19	0.85
Platform3DS	1.34	0.79	1.89	4.76	0.00
PlatformDC	0.49	-0.20	1.17	1.39	0.16
PlatformDS	1.07	0.57	1.57	4.22	0.00
PlatformGB	3.17	2.59	3.75	10.66	0.00
PlatformGBA	0.77	0.29	1.25	3.12	0.00
PlatformGC	0.74	0.24	1.23	2.92	0.00
PlatformGEN	0.54	-0.33	1.42	1.21	0.23
PlatformN64	0.92	0.43	1.41	3.66	0.00
PlatformNES	2.33	1.78	2.87	8.38	0.00
PlatformNG	0.08	-1.02	1.18	0.15	0.88
PlatformPC	0.71	0.19	1.22	2.70	0.01
PlatformPS	0.79	0.34	1.25	3.42	0.00
PlatformPS2	1.07	0.59	1.55	4.40	0.00
PlatformPS3	1.34	0.82	1.86	5.06	0.00
PlatformPS4	1.54	0.96	2.11	5.25	0.00
PlatformPSP	0.92	0.41	1.42	3.55	0.00
PlatformPSV	0.96	0.40	1.53	3.36	0.00

PlatformSAT	0.28	-0.25	0.81	1.02	0.31
PlatformSCD	0.54	-1.42	2.51	0.54	0.59
PlatformSNES	0.91	0.41	1.41	3.58	0.00
PlatformTG16	0.26	-2.13	2.65	0.21	0.83
PlatformWii	1.49	0.98	2.00	5.77	0.00
PlatformWiiU	1.24	0.62	1.85	3.94	0.00
PlatformWS	0.58	-0.85	2.01	0.80	0.42
PlatformX360	1.30	0.79	1.82	4.98	0.00
PlatformXB	0.66	0.18	1.15	2.68	0.01
PlatformXOne	1.48	0.89	2.07	4.89	0.00
GenreAdventure	-0.30	-0.43	-0.17	-4.41	0.00
GenreFighting	0.02	-0.14	0.18	0.24	0.81
GenreMisc	-0.10	-0.22	0.02	-1.68	0.09
GenrePlatform	0.36	0.20	0.51	4.55	0.00
GenrePuzzle	-0.24	-0.43	-0.06	-2.61	0.01
GenreRacing	0.05	-0.09	0.19	0.73	0.47
GenreRole-Playing	0.02	-0.10	0.14	0.31	0.75
GenreShooter	0.17	0.03	0.30	2.47	0.01
GenreSimulation	-0.11	-0.27	0.04	-1.40	0.16
GenreSports	-0.06	-0.17	0.06	-0.97	0.33
GenreStrategy	-0.27	-0.44	-0.10	-3.05	0.00
Age_imp	0.05	0.04	0.07	8.22	0.00
Rating_impE	-0.44	-2.79	1.91	-0.36	0.72
Rating_impE10+	-0.57	-2.92	1.78	-0.48	0.63
Rating_impEC	-1.33	-3.88	1.23	-1.02	0.31
Rating_impK-A	-0.08	-2.47	2.31	-0.06	0.95
Rating_impM	-0.60	-2.95	1.75	-0.50	0.61
Rating_impRP	-0.24	-3.28	2.79	-0.16	0.87
Rating_impT	-0.63	-2.98	1.72	-0.53	0.60
Critic_Score_imp	0.01	0.01	0.01	7.05	0.00
Critic_Count_imp	0.01	0.01	0.01	10.44	0.00
User_Score_imp	-0.03	-0.06	-0.00	-2.11	0.03
User_Count_imp	0.00	0.00	0.00	11.99	0.00

```

y1 = predict(regressor1, train_dataset1)
table(y1, train_dataset1$Global_Sales)

```

y1	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.1	0.11
-1.26512591722624	0	0	0	0	0	0	0	0	0	0	0

-1.22766073985063	0	0	0	0	0	0	0	0	0	0	0
-0.948450654359902	0	0	0	0	1	0	0	0	0	0	0
-0.944749817583361	0	0	0	0	0	0	0	0	0	0	0
-0.928355362488957	0	0	0	0	0	0	0	0	0	0	0
-0.919152510499744	0	1	0	0	0	0	0	0	0	0	0
-0.919000293104241	0	0	1	0	0	0	0	0	0	0	0
-0.887447592288989	0	1	0	0	0	0	0	0	0	0	0
-0.874953954804815	0	0	0	0	0	0	0	0	0	0	0
-0.839144905411306	0	0	0	0	0	0	0	0	0	0	0
-0.837401453492783	0	1	0	0	0	0	0	0	0	0	0
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-0.484998660448184	0	0	0	0	0	0	0	0	0	0	0
-0.482116303305338	0	0	0	0	0	0	0	0	0	0	0
-0.481790980867904	0	0	0	0	0	0	0	0	0	0	0
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-0.480564189252868	0	0	0	0	0	0	0	0	0	0	0
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-0.479323294554929	0	0	0	0	0	0	0	0	0	0	0
-0.478960534141769	0	0	0	0	0	0	0	0	0	0	0
-0.477633474268175	0	0	0	0	0	0	0	0	0	0	0
-0.475945536110044	1	0	0	0	0	0	0	0	0	0	0
-0.473596392137902	0	0	0	0	0	0	0	0	0	0	0
-0.473288187681774	0	0	0	0	0	0	0	0	0	0	0
-0.472727534695493	0	0	0	0	0	0	0	0	0	0	0
-0.470575698680059	0	0	0	0	0	0	0	0	0	0	0
-0.469151895927158	0	0	0	0	0	0	0	0	0	0	0
-0.46849523401165	0	0	0	0	0	0	0	0	0	0	0
-0.468380785383012	0	0	0	0	0	0	0	0	0	0	0
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-0.424889128925932	0	0	0	0	0	0	0	0	0	0	0
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-0.412459396354572	0	0	0	0	0	0	0	0	0	0	0
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y1	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.3	0.31	0.32	0.33
-1.26512591722624	0	0	0	0	0	0	0	0	0	0	0
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-0.469151895927158	0	0	0	0	0	0	0	0	0	0	0
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-0.39750216065798	0	0	0	0	0	0	0	0	0	0	0
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y1	0.34	0.35	0.36	0.37	0.38	0.39	0.4	0.41	0.42	0.43	0.44
-1.26512591722624	0	0	0	0	0	0	0	0	0	0	0
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-0.477633474268175	0	0	0	0	0	0	0	0	0	0	0
-0.475945536110044	0	0	0	0	0	0	0	0	0	0	0
-0.473596392137902	0	0	0	0	0	0	0	0	0	0	0
-0.473288187681774	0	0	0	0	0	0	0	0	0	0	0
-0.472727534695493	0	0	0	0	0	0	0	0	0	0	0
-0.470575698680059	0	0	0	0	0	0	0	0	0	0	0
-0.469151895927158	0	0	0	0	0	0	0	0	0	0	0
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-0.45205870793676	0	0	0	0	0	0	0	0	0	0	0
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-0.426313746317936	0	0	0	0	0	0	0	0	0	0	0
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-0.424889128925932	0	0	0	0	0	0	0	0	0	0	0
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y1	0.56	0.57	0.58	0.59	0.6	0.61	0.62	0.63	0.64	0.65	0.66
-1.26512591722624	0	0	0	0	0	0	0	0	0	0	0
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y1	0.67	0.68	0.69	0.7	0.71	0.72	0.73	0.74	0.75	0.76	0.77
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-0.468380785383012	0	0	0	0	0	0	0	0	0	0	0
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-0.469151895927158	0	0	0	0	0	0	0	0	0	0	0
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y1	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.3	1.31	1.32	1.33
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y1	1.34	1.35	1.36	1.37	1.38	1.39	1.4	1.41	1.42	1.43	1.44
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-0.454444061009192	0	0	0	0	0	0	0	0	0	0	0
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-0.43748391091258	0	0	0	0	0	0	0	0	0	0	0
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-0.424889128925932	0	0	0	0	0	0	0	0	0	0	0
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y1	1.67	1.68	1.69	1.7	1.71	1.72	1.73	1.74	1.75	1.76	1.77
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-0.438619701467558	0	0	0	0	0	0	0	0	0	0	0
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-0.43748391091258	0	0	0	0	0	0	0	0	0	0	0
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-0.434568322507019	0	0	0	0	0	0	0	0	0	0	0
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-0.429716515991466	0	0	0	0	0	0	0	0	0	0	0
-0.429158716250792	0	0	0	0	0	0	0	0	0	0	0
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-0.426313746317936	0	0	0	0	0	0	0	0	0	0	0
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-0.424889128925932	0	0	0	0	0	0	0	0	0	0	0
-0.422245462877058	0	0	0	0	0	0	0	0	0	0	0
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-0.412459396354572	0	0	0	0	0	0	0	0	0	0	0
-0.412066097649874	0	0	0	0	0	0	0	0	0	0	0
-0.412043952185561	0	0	0	0	0	0	0	0	0	0	0

-0.41099804068348	0	0	0	0	0	0	0	0	0	0	0
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-0.408471504992465	0	0	0	0	0	0	0	0	0	0	0
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y1	1.89	1.9	1.91	1.92	1.93	1.94	1.95	1.96	1.97	1.98	1.99 2
-1.26512591722624	0	0	0	0	0	0	0	0	0	0	0 0
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-0.948450654359902	0	0	0	0	0	0	0	0	0	0	0 0
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-0.928355362488957	0	0	0	0	0	0	0	0	0	0	0 0
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-0.874953954804815	0	0	0	0	0	0	0	0	0	0	0 0
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-0.837401453492783	0	0	0	0	0	0	0	0	0	0	0 0
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y1	2.01	2.02	2.03	2.04	2.05	2.06	2.07	2.08	2.09	2.1	2.11	
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-0.438308096497958	0	0	0	0	0	0	0	0	0	0	0
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-0.429158716250792	0	0	0	0	0	0	0	0	0	0	0
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-0.428649356745641	0	0	0	0	0	0	0	0	0	0	0
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-0.426313746317936	0	0	0	0	0	0	0	0	0	0	0
-0.425958385993551	0	0	0	0	0	0	0	0	0	0	0
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-0.424889128925932	0	0	0	0	0	0	0	0	0	0	0
-0.422245462877058	0	0	0	0	0	0	0	0	0	0	0
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-0.421525441812567	0	0	0	0	0	0	0	0	0	0	0
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y1	2.23	2.24	2.25	2.26	2.27	2.28	2.29	2.3	2.31	2.32	2.34
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y1	2.35	2.36	2.37	2.38	2.39	2.4	2.41	2.42	2.43	2.44	2.45
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-0.429005294959085	0	0	0	0	0	0	0	0	0	0	0
-0.428649356745641	0	0	0	0	0	0	0	0	0	0	0

-0.427714096016939	0	0	0	0	0	0	0	0	0	0	0
-0.426313746317936	0	0	0	0	0	0	0	0	0	0	0
-0.425958385993551	0	0	0	0	0	0	0	0	0	0	0
-0.425938685918219	0	0	0	0	0	0	0	0	0	0	0
-0.424889128925932	0	0	0	0	0	0	0	0	0	0	0
-0.422245462877058	0	0	0	0	0	0	0	0	0	0	0
-0.422202189259206	0	0	0	0	0	0	0	0	0	0	0
-0.421525441812567	0	0	0	0	0	0	0	0	0	0	0
-0.420307289603077	0	0	0	0	0	0	0	0	0	0	0
-0.417704225552684	0	0	0	0	0	0	0	0	0	0	0
-0.414937342905731	0	0	0	0	0	0	0	0	0	0	0
-0.412459396354572	0	0	0	0	0	0	0	0	0	0	0
-0.412066097649874	0	0	0	0	0	0	0	0	0	0	0
-0.412043952185561	0	0	0	0	0	0	0	0	0	0	0
-0.41099804068348	0	0	0	0	0	0	0	0	0	0	0
-0.410367935575953	0	0	0	0	0	0	0	0	0	0	0
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y1	2.59	2.6	2.61	2.62	2.63	2.65	2.66	2.67	2.68	2.69	2.7
-1.26512591722624	0	0	0	0	0	0	0	0	0	0	0
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-0.948450654359902	0	0	0	0	0	0	0	0	0	0	0
-0.944749817583361	0	0	0	0	0	0	0	0	0	0	0
-0.928355362488957	0	0	0	0	0	0	0	0	0	0	0
-0.919152510499744	0	0	0	0	0	0	0	0	0	0	0
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y1	2.71	2.73	2.75	2.76	2.77	2.78	2.79	2.8	2.81	2.82	2.83
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-0.422202189259206	0	0	0	0	0	0	0	0	0	0	0
-0.421525441812567	0	0	0	0	0	0	0	0	0	0	0
-0.420307289603077	0	0	0	0	0	0	0	0	0	0	0
-0.417704225552684	0	0	0	0	0	0	0	0	0	0	0
-0.414937342905731	0	0	0	0	0	0	0	0	0	0	0
-0.412459396354572	0	0	0	0	0	0	0	0	0	0	0
-0.412066097649874	0	0	0	0	0	0	0	0	0	0	0
-0.412043952185561	0	0	0	0	0	0	0	0	0	0	0
-0.41099804068348	0	0	0	0	0	0	0	0	0	0	0
-0.410367935575953	0	0	0	0	0	0	0	0	0	0	0
-0.408471504992465	0	0	0	0	0	0	0	0	0	0	0
-0.407565188777385	0	0	0	0	0	0	0	0	0	0	0
-0.400974286724901	0	0	0	0	0	0	0	0	0	0	0
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-0.39750216065798	0	0	0	0	0	0	0	0	0	0	0
-0.394085067200062	0	0	0	0	0	0	0	0	0	0	0

y1	2.95	2.96	2.99	3	3.01	3.02	3.03	3.04	3.05	3.06	3.07
-1.26512591722624	0	0	0	0	0	0	0	0	0	0	0
-1.22766073985063	0	0	0	0	0	0	0	0	0	0	0
-0.948450654359902	0	0	0	0	0	0	0	0	0	0	0
-0.944749817583361	0	0	0	0	0	0	0	0	0	0	0
-0.928355362488957	0	0	0	0	0	0	0	0	0	0	0
-0.919152510499744	0	0	0	0	0	0	0	0	0	0	0
-0.919000293104241	0	0	0	0	0	0	0	0	0	0	0
-0.887447592288989	0	0	0	0	0	0	0	0	0	0	0
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-0.837401453492783	0	0	0	0	0	0	0	0	0	0	0
-0.814058196164178	0	0	0	0	0	0	0	0	0	0	0

-0.798488826131181	0	0	0 0	0	0	0	0	0	0	0
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-0.772372086084108	0	0	0 0	0	0	0	0	0	0	0
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-0.721483894034584	0	0	0 0	0	0	0	0	0	0	0
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-0.71730724280265	0	0	0 0	0	0	0	0	0	0	0
-0.715874619047462	0	0	0 0	0	0	0	0	0	0	0
-0.699888325927469	0	0	0 0	0	0	0	0	0	0	0
-0.699514951001413	0	0	0 0	0	0	0	0	0	0	0
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-0.613913543259377	0	0	0 0	0	0	0	0	0	0	0
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-0.547288369757506	0	0	0 0	0	0	0	0	0	0	0
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-0.526414478777756	0	0	0 0	0	0	0	0	0	0	0
-0.52613495335085	0	0	0 0	0	0	0	0	0	0	0
-0.524307404944149	0	0	0 0	0	0	0	0	0	0	0
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-0.520324196208962	0	0	0 0	0	0	0	0	0	0	0
-0.516892985246031	0	0	0 0	0	0	0	0	0	0	0
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-0.506842537401842	0	0	0 0	0	0	0	0	0	0	0
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-0.495552893197357	0	0	0 0	0	0	0	0	0	0	0
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-0.495380895932269	0	0	0 0	0	0	0	0	0	0	0
-0.495042226241572	0	0	0 0	0	0	0	0	0	0	0
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-0.482116303305338	0	0	0 0	0	0	0	0	0	0	0
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-0.422245462877058	0	0	0 0	0	0	0	0	0	0	0	
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-0.421525441812567	0	0	0 0	0	0	0	0	0	0	0	
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-0.417704225552684	0	0	0 0	0	0	0	0	0	0	0	
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-0.412459396354572	0	0	0 0	0	0	0	0	0	0	0	
-0.412066097649874	0	0	0 0	0	0	0	0	0	0	0	
-0.412043952185561	0	0	0 0	0	0	0	0	0	0	0	
-0.41099804068348	0	0	0 0	0	0	0	0	0	0	0	
-0.410367935575953	0	0	0 0	0	0	0	0	0	0	0	
-0.408471504992465	0	0	0 0	0	0	0	0	0	0	0	
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-0.400974286724901	0	0	0 0	0	0	0	0	0	0	0	
-0.399016237845824	0	0	0 0	0	0	0	0	0	0	0	
-0.39750216065798	0	0	0 0	0	0	0	0	0	0	0	
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y1	3.08	3.09	3.1	3.11	3.12	3.13	3.14	3.15	3.17	3.18	3.19
-1.26512591722624	0	0	0	0	0	0	0	0	0	0	0
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-0.948450654359902	0	0	0	0	0	0	0	0	0	0	0
-0.944749817583361	0	0	0	0	0	0	0	0	0	0	0
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-0.919000293104241	0	0	0	0	0	0	0	0	0	0	0
-0.887447592288989	0	0	0	0	0	0	0	0	0	0	0
-0.874953954804815	0	0	0	0	0	0	0	0	0	0	0
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-0.76248689299778	0	0	0	0	0	0	0	0	0	0	0
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-0.737370129536133	0	0	0	0	0	0	0	0	0	0	0
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-0.400974286724901	0	0	0	0	0	0	0	0	0	0	0
-0.399016237845824	0	0	0	0	0	0	0	0	0	0	0
-0.39750216065798	0	0	0	0	0	0	0	0	0	0	0
-0.394085067200062	0	0	0	0	0	0	0	0	0	0	0

y1	3.33	3.34	3.35	3.36	3.37	3.38	3.39	3.4	3.41	3.42	3.44
-1.26512591722624	0	0	0	0	0	0	0	0	0	0	0
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-0.948450654359902	0	0	0	0	0	0	0	0	0	0	0
-0.944749817583361	0	0	0	0	0	0	0	0	0	0	0
-0.928355362488957	0	0	0	0	0	0	0	0	0	0	0

-0.919152510499744	0	0	0	0	0	0	0	0	0	0	0
-0.919000293104241	0	0	0	0	0	0	0	0	0	0	0
-0.887447592288989	0	0	0	0	0	0	0	0	0	0	0
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-0.839144905411306	0	0	0	0	0	0	0	0	0	0	0
-0.837401453492783	0	0	0	0	0	0	0	0	0	0	0
-0.814058196164178	0	0	0	0	0	0	0	0	0	0	0
-0.798488826131181	0	0	0	0	0	0	0	0	0	0	0
-0.784993663493408	0	0	0	0	0	0	0	0	0	0	0
-0.783848037553734	0	0	0	0	0	0	0	0	0	0	0
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-0.72240444018	0	0	0	0	0	0	0	0	0	0	0
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-0.718001619958551	0	0	0	0	0	0	0	0	0	0	0
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-0.506842537401842	0	0	0	0	0	0	0	0	0	0	0
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y1	3.45	3.46	3.47	3.48	3.49	3.5	3.51	3.52	3.53	3.54	3.56
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-0.944749817583361	0	0	0	0	0	0	0	0	0	0	0
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-0.887447592288989	0	0	0	0	0	0	0	0	0	0	0
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-0.524307404944149	0	0	0	0	0	0	0	0	0	0	0
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-0.511857001640259	0	0	0	0	0	0	0	0	0	0	0
-0.509611841054949	0	0	0	0	0	0	0	0	0	0	0
-0.507876826452668	0	0	0	0	0	0	0	0	0	0	0
-0.506842537401842	0	0	0	0	0	0	0	0	0	0	0
-0.505873171597391	0	0	0	0	0	0	0	0	0	0	0
-0.502837961512303	0	0	0	0	0	0	0	0	0	0	0
-0.50072170801691	0	0	0	0	0	0	0	0	0	0	0
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-0.499508879629262	0	0	0	0	0	0	0	0	0	0	0
-0.495552893197357	0	0	0	0	0	0	0	0	0	0	0
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-0.495380895932269	0	0	0	0	0	0	0	0	0	0	0
-0.495042226241572	0	0	0	0	0	0	0	0	0	0	0
-0.484998660448184	0	0	0	0	0	0	0	0	0	0	0
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y1	3.58	3.59	3.6	3.61	3.62	3.63	3.64	3.65	3.66	3.67	3.7
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-0.524307404944149	0	0	0	0	0	0	0	0	0	0	0
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y1	3.71	3.72	3.73	3.74	3.76	3.77	3.79	3.8	3.83	3.84	3.85
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-0.502837961512303	0	0	0	0	0	0	0	0	0	0	0
-0.50072170801691	0	0	0	0	0	0	0	0	0	0	0
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-0.495552893197357	0	0	0	0	0	0	0	0	0	0	0
-0.49552303294176	0	0	0	0	0	0	0	0	0	0	0
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-0.495042226241572	0	0	0	0	0	0	0	0	0	0	0
-0.484998660448184	0	0	0	0	0	0	0	0	0	0	0

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-0.477633474268175	0	0	0	0	0	0	0	0	0	0	0
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-0.482116303305338	0	0	0	0	0	0	0	0	0	0	0
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-0.477633474268175	0	0	0	0	0	0	0	0	0	0	0
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-0.473596392137902	0	0	0	0	0	0	0	0	0	0	0
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y1	4.61	4.62	4.63	4.67	4.68	4.7	4.71	4.73	4.76	4.79	4.8
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-0.473288187681774	0	0	0	0	0	0	0	0	0 0	0
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-0.470575698680059	0	0	0	0	0	0	0	0	0 0	0
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-0.45205870793676	0	0	0	0	0	0	0	0	0 0	0
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-0.446407314478699	0	0	0	0	0	0	0	0	0 0	0
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-0.440241056192087	0	0	0	0	0	0	0	0	0 0	0
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-0.438619701467558	0	0	0	0	0	0	0	0	0	0	0
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y1	5.02	5.03	5.05	5.07	5.08	5.09	5.1	5.12	5.13	5.14	5.15
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y1	5.16	5.19	5.2	5.21	5.22	5.23	5.24	5.26	5.27	5.29	5.3
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-0.45504315242888	0	0	0	0	0	0	0	0	0	0	0
-0.454444061009192	0	0	0	0	0	0	0	0	0	0	0

-0.45205870793676	0	0	0	0	0	0	0	0	0	0	0
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-0.4467616356644	0	0	0	0	0	0	0	0	0	0	0
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-0.444267585181572	0	0	0	0	0	0	0	0	0	0	0
-0.440241056192087	0	0	0	0	0	0	0	0	0	0	0
-0.439244953807057	0	0	0	0	0	0	0	0	0	0	0
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-0.434568322507019	0	0	0	0	0	0	0	0	0	0	0
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-0.429716515991466	0	0	0	0	0	0	0	0	0	0	0
-0.429158716250792	0	0	0	0	0	0	0	0	0	0	0
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-0.426313746317936	0	0	0	0	0	0	0	0	0	0	0
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-0.425938685918219	0	0	0	0	0	0	0	0	0	0	0
-0.424889128925932	0	0	0	0	0	0	0	0	0	0	0
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y1	5.54	5.55	5.58	5.63	5.64	5.74	5.78	5.82	5.87	5.95	5.99
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y1	6.03	6.05	6.08	6.09	6.19	6.21	6.27	6.29	6.3	6.31	6.32
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-0.440241056192087	0	0	0	0	0	0	0	0	0	0	0
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-0.438619701467558	0	0	0	0	0	0	0	0	0	0	0
-0.438308096497958	0	0	0	0	0	0	0	0	0	0	0
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-0.436580382419874	0	0	0	0	0	0	0	0	0	0	0
-0.434568322507019	0	0	0	0	0	0	0	0	0	0	0
-0.434545640340351	0	0	0	0	0	0	0	0	0	0	0
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-0.429716515991466	0	0	0	0	0	0	0	0	0	0	0
-0.429158716250792	0	0	0	0	0	0	0	0	0	0	0
-0.429005294959085	0	0	0	0	0	0	0	0	0	0	0
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-0.426313746317936	0	0	0	0	0	0	0	0	0	0	0
-0.425958385993551	0	0	0	0	0	0	0	0	0	0	0
-0.425938685918219	0	0	0	0	0	0	0	0	0	0	0
-0.424889128925932	0	0	0	0	0	0	0	0	0	0	0
-0.422245462877058	0	0	0	0	0	0	0	0	0	0	0
-0.422202189259206	0	0	0	0	0	0	0	0	0	0	0
-0.421525441812567	0	0	0	0	0	0	0	0	0	0	0
-0.420307289603077	0	0	0	0	0	0	0	0	0	0	0
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-0.412459396354572	0	0	0	0	0	0	0	0	0	0	0
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y1	6.65	6.66	6.68	6.71	6.74	6.75	6.76	6.82	6.83	6.9	6.95
-1.26512591722624	0	0	0	0	0	0	0	0	0	0	0
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-0.495042226241572	0	0	0	0	0	0	0	0	0	0	0
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y1	7.07	7.09	7.13	7.14	7.15	7.16	7.17	7.2	7.32	7.38	7.39
-1.26512591722624	0	0	0	0	0	0	0	0	0	0	0
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-0.928355362488957	0	0	0	0	0	0	0	0	0	0	0
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-0.422245462877058	0	0	0	0	0	0	0	0	0	0	0
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y1	8.76	8.79	8.91	9.16	9.18	9.3	9.31	9.36	9.44	9.49	9.71
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[getOption("max.print") est atteint -- 11597 lignes omises ]

```

```

y_pred1 = predict(regressor1, test_dataset1)
table(y_pred1, test_dataset1$Global_Sales)

```

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-0.716340488728466	1	0	0	0	0	0	0	0	0	0	0
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y_pred1	0.34	0.35	0.36	0.37	0.38	0.39	0.4	0.41	0.42	0.43	0.44
-1.08436204026949	0	0	0	0	1	0	0	0	0	0	0
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y_pred1	0.45	0.46	0.47	0.48	0.49	0.5	0.51	0.52	0.53	0.54	0.55
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y_pred1	0.89	0.9	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1
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y_pred1	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.1	1.11	
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y_pred1	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.2	1.21	1.22
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y_pred1	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.3	1.31	1.32	1.33
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y_pred1	1.34	1.35	1.36	1.37	1.38	1.39	1.4	1.41	1.42	1.43	1.44
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-0.142140601354274	0	0	0	0	0	0	0	0	0	0	0
y_pred1	1.45	1.46	1.47	1.48	1.49	1.5	1.51	1.52	1.53	1.54	1.55
-1.08436204026949	0	0	0	0	0	0	0	0	0	0	0
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-0.875476789222111	0	0	0	0	0	0	0	0	0	0	0
-0.842292814803352	0	0	0	0	0	0	0	0	0	0	0
-0.779479256660043	0	0	0	0	0	0	0	0	0	0	0
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-0.716340488728466	0	0	0	0	0	0	0	0	0	0	0
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-0.635131743242374	0	0	0	0	0	0	0	0	0	0	0
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y_pred1	1.56	1.57	1.58	1.59	1.6	1.61	1.62	1.63	1.64	1.65	1.66
-1.08436204026949	0	0	0	0	0	0	0	0	0	0	0
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y_pred1	1.67	1.68	1.69	1.7	1.71	1.72	1.73	1.74	1.75	1.76	1.77
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y_pred1	1.78	1.79	1.8	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.88
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y_pred1	1.89	1.91	1.92	1.93	1.94	1.95	1.96	1.97	1.98	1.99	2 2.01
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-0.265821264347981	0	0	0	0	0	0	0	0	0	0	0
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-0.264203802699899	0	0	0	0	0	0	0	0	0	0	0
-0.263276442080381	0	0	0	0	0	0	0	0	0	0	0
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-0.258679613989215	0	0	0	0	0	0	0	0	0	0	0
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-0.143916982646606	0	0	0	0	0	0	0	0	0	0	0
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y_pred1	2.13	2.14	2.15	2.16	2.17	2.18	2.19	2.2	2.21	2.22	2.23
-1.08436204026949	0	0	0	0	0	0	0	0	0	0	0
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-0.779479256660043	0	0	0	0	0	0	0	0	0	0	0
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-0.307678272305995	0	0	0	0	0	0	0	0	0	0	0
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y_pred1	2.24	2.25	2.26	2.27	2.28	2.29	2.3	2.31	2.32	2.34	2.35
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-0.334767994259323	0	0	0	0	0	0	0	0	0	0	0
-0.333981445035758	0	0	0	0	0	0	0	0	0	0	0
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y_pred1	2.37	2.38	2.39	2.4	2.41	2.42	2.43	2.45	2.47	2.48	2.49
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y_pred1	2.5	2.52	2.53	2.54	2.56	2.57	2.58	2.6	2.61	2.62	2.63
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y_pred1	2.65	2.66	2.67	2.68	2.69	2.7	2.73	2.75	2.76	2.77	2.78
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y_pred1	2.79	2.8	2.81	2.82	2.83	2.85	2.86	2.87	2.89	2.9	2.91
-1.08436204026949	0	0	0	0	0	0	0	0	0	0	0
-0.937202577116247	0	0	0	0	0	0	0	0	0	0	0
-0.875476789222111	0	0	0	0	0	0	0	0	0	0	0
-0.842292814803352	0	0	0	0	0	0	0	0	0	0	0
-0.779479256660043	0	0	0	0	0	0	0	0	0	0	0
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-0.716340488728466	0	0	0	0	0	0	0	0	0	0	0
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-0.650234788173015	0	0	0	0	0	0	0	0	0	0	0
-0.635131743242374	0	0	0	0	0	0	0	0	0	0	0
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y_pred1	2.92	2.94	2.95	2.96	2.99	3	3.01	3.02	3.03	3.04	3.05	3.07
-1.08436204026949	0	0	0	0	0	0	0	0	0	0	0	0
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-0.212851803918252	0	0	0	0	0	0	0	0	0	0	0
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y_pred1	3.24	3.25	3.28	3.31	3.32	3.33	3.36	3.39	3.41	3.42	3.44
-1.08436204026949	0	0	0	0	0	0	0	0	0	0	0
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y_pred1	3.46	3.48	3.49	3.5	3.51	3.52	3.53	3.54	3.58	3.59	3.61
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-0.248524857679251	0	0	0	0	0	0	0	0	0	0	0
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y_pred1	3.62	3.63	3.65	3.66	3.67	3.7	3.71	3.72	3.76	3.77	3.83
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-0.258679613989215	0	0	0	0	0	0	0	0	0	0	0
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-0.257845534801209	0	0	0	0	0	0	0	0	0	0	0
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y_pred1	3.84	3.85	3.87	3.88	3.9	3.94	3.95	3.97	4.05	4.12	4.16
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-0.303148699540222	0	0	0	0	0	0	0	0	0	0	0
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-0.143916982646606	0	0	0	0	0	0	0	0	0	0	0
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y_pred1	4.19	4.21	4.22	4.23	4.32	4.33	4.34	4.36	4.38	4.48	4.53
-1.08436204026949	0	0	0	0	0	0	0	0	0	0	0
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-0.334767994259323	0	0	0	0	0	0	0	0	0	0	0
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y_pred1	4.6	4.62	4.73	4.87	4.93	4.98	5.07	5.09	5.12	5.13	5.19
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y_pred1	5.23	5.26	5.27	5.29	5.48	5.49	5.55	5.64	5.82	6.03	6.41
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-0.154291066786653	0	0

```

-0.153385009226354      0  0
-0.151622601811518      0  0
-0.15131517976377       0  0
-0.150907140447969      0  0
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-0.147239158081943      0  0
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-0.143991501053095      0  0
-0.143916982646606      0  0
-0.142140601354274      0  0
[getOption("max.print") est atteint -- 4695 lignes omises ]

```

```

# RMSE on training set
RMSE(y1, train_dataset1$Global_Sales)

```

```
[1] 1.68908
```

```

# RMSE on test set
RMSE(y_pred1, test_dataset1$Global_Sales)

```

```
[1] 0.7457198
```

```

# MAE train dataset
MAE(y1, train_dataset1$Global_Sales)

```

```
[1] 0.6173533
```

```

# MAE test dataset
MAE(y_pred1, test_dataset1$Global_Sales)

```

```
[1] 0.4962644
```



```
### Exp 2 - Multiple Linear Regression
regressor2 = lm(formula = Global_Sales ~ .,
                data = train_dataset2)
summary(regressor2)
```

Call:

```
lm(formula = Global_Sales ~ ., data = train_dataset2)
```

Residuals:

Min	1Q	Median	3Q	Max
-2.4165	-0.6333	-0.2690	0.3424	4.1947

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
(Intercept)	0.3232195	0.6910537	0.468	0.639995	
Platform3DO	-1.1628674	0.5618146	-2.070	0.038492	*
Platform3DS	-0.2750087	0.1750407	-1.571	0.116187	
PlatformDC	-0.7425681	0.2250334	-3.300	0.000971	***
PlatformDS	-0.3532309	0.1612132	-2.191	0.028468	*
PlatformGB	-0.0466449	0.2219486	-0.210	0.833546	
PlatformGBA	-0.3461044	0.1576409	-2.196	0.028148	*
PlatformGC	-0.3676007	0.1604850	-2.291	0.022009	*
PlatformGEN	-1.1188389	0.3074466	-3.639	0.000275	***
PlatformN64	-0.1870811	0.1624351	-1.152	0.249460	
PlatformNES	1.2384378	0.2469646	5.015	5.40e-07	***
PlatformNG	-0.9795242	0.3858799	-2.538	0.011150	*
PlatformPC	-0.6234054	0.1653581	-3.770	0.000164	***
PlatformPS	-0.2237647	0.1505046	-1.487	0.137108	
PlatformPS2	-0.1258547	0.1562289	-0.806	0.420504	
PlatformPS3	0.1373929	0.1669878	0.823	0.410657	
PlatformPS4	-0.0656876	0.1827204	-0.359	0.719230	
PlatformPSP	-0.4114401	0.1634798	-2.517	0.011859	*
PlatformPSV	-0.5234913	0.1779074	-2.942	0.003263	**
PlatformSAT	-0.6436377	0.1685250	-3.819	0.000135	***
PlatformSCD	-1.1321007	0.5615856	-2.016	0.043836	*
PlatformSNES	-0.3479887	0.1644502	-2.116	0.034362	*
PlatformTG16	-1.4780331	0.9507886	-1.555	0.120088	
PlatformWii	-0.0009218	0.1638422	-0.006	0.995511	
PlatformWiiU	0.0007743	0.1937494	0.004	0.996812	
PlatformWS	-0.2975437	0.6813679	-0.437	0.662348	
PlatformX360	0.0996483	0.1654175	0.602	0.546918	

PlatformXB	-0.4099169	0.1580581	-2.593	0.009515	**
PlatformXOne	0.0920531	0.1888214	0.488	0.625904	
GenreAdventure	-0.4662454	0.0382124	-12.201	< 2e-16	***
GenreFighting	-0.0278802	0.0475143	-0.587	0.557368	
GenreMisc	-0.1697798	0.0357758	-4.746	2.11e-06	***
GenrePlatform	0.0706464	0.0490541	1.440	0.149849	
GenrePuzzle	-0.3211794	0.0553773	-5.800	6.83e-09	***
GenreRacing	-0.0694861	0.0408462	-1.701	0.088942	.
GenreRole-Playing	-0.0598227	0.0380620	-1.572	0.116047	
GenreShooter	-0.0006137	0.0412381	-0.015	0.988126	
GenreSimulation	-0.0259599	0.0451645	-0.575	0.565449	
GenreSports	0.0043960	0.0337900	0.130	0.896491	
GenreStrategy	-0.2381664	0.0495170	-4.810	1.53e-06	***
Age_imp	0.0288456	0.0039136	7.371	1.83e-13	***
Rating_impE	-0.4813503	0.6653253	-0.723	0.469401	
Rating_impE10+	-0.4551016	0.6655801	-0.684	0.494138	
Rating_impEC	-0.6413264	0.7287051	-0.880	0.378831	
Rating_impK-A	-0.5673187	0.6855000	-0.828	0.407917	
Rating_impM	-0.5263073	0.6657239	-0.791	0.429208	
Rating_impRP	-0.3778271	0.8151691	-0.463	0.643019	
Rating_impT	-0.5495275	0.6652858	-0.826	0.408822	
Critic_Score_imp	0.0984679	0.0130298	7.557	4.47e-14	***
Critic_Count_imp	0.1068277	0.0116746	9.150	< 2e-16	***
User_Score_imp	-0.0055190	0.0125731	-0.439	0.660702	
User_Count_imp	-0.0069147	0.0103810	-0.666	0.505369	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.939 on 10331 degrees of freedom
Multiple R-squared: 0.1225, Adjusted R-squared: 0.1182
F-statistic: 28.29 on 51 and 10331 DF, p-value: < 2.2e-16

```
summ(regressor2, confint = TRUE)
```

MODEL INFO:

Observations: 10383

Dependent Variable: Global_Sales

Type: OLS linear regression

MODEL FIT:

F(51,10331) = 28.29, p = 0.00

$R^2 = 0.12$

Adj. $R^2 = 0.12$

Standard errors: OLS

	Est.	2.5%	97.5%	t val.	p
(Intercept)	0.32	-1.03	1.68	0.47	0.64
Platform3D0	-1.16	-2.26	-0.06	-2.07	0.04
Platform3DS	-0.28	-0.62	0.07	-1.57	0.12
PlatformDC	-0.74	-1.18	-0.30	-3.30	0.00
PlatformDS	-0.35	-0.67	-0.04	-2.19	0.03
PlatformGB	-0.05	-0.48	0.39	-0.21	0.83
PlatformGBA	-0.35	-0.66	-0.04	-2.20	0.03
PlatformGC	-0.37	-0.68	-0.05	-2.29	0.02
PlatformGEN	-1.12	-1.72	-0.52	-3.64	0.00
PlatformN64	-0.19	-0.51	0.13	-1.15	0.25
PlatformNES	1.24	0.75	1.72	5.01	0.00
PlatformNG	-0.98	-1.74	-0.22	-2.54	0.01
PlatformPC	-0.62	-0.95	-0.30	-3.77	0.00
PlatformPS	-0.22	-0.52	0.07	-1.49	0.14
PlatformPS2	-0.13	-0.43	0.18	-0.81	0.42
PlatformPS3	0.14	-0.19	0.46	0.82	0.41
PlatformPS4	-0.07	-0.42	0.29	-0.36	0.72
PlatformPSP	-0.41	-0.73	-0.09	-2.52	0.01
PlatformPSV	-0.52	-0.87	-0.17	-2.94	0.00
PlatformSAT	-0.64	-0.97	-0.31	-3.82	0.00
PlatformSCD	-1.13	-2.23	-0.03	-2.02	0.04
PlatformSNES	-0.35	-0.67	-0.03	-2.12	0.03
PlatformTG16	-1.48	-3.34	0.39	-1.55	0.12
PlatformWii	-0.00	-0.32	0.32	-0.01	1.00
PlatformWiiU	0.00	-0.38	0.38	0.00	1.00
PlatformWS	-0.30	-1.63	1.04	-0.44	0.66
PlatformX360	0.10	-0.22	0.42	0.60	0.55
PlatformXB	-0.41	-0.72	-0.10	-2.59	0.01
PlatformXOne	0.09	-0.28	0.46	0.49	0.63
GenreAdventure	-0.47	-0.54	-0.39	-12.20	0.00
GenreFighting	-0.03	-0.12	0.07	-0.59	0.56
GenreMisc	-0.17	-0.24	-0.10	-4.75	0.00
GenrePlatform	0.07	-0.03	0.17	1.44	0.15
GenrePuzzle	-0.32	-0.43	-0.21	-5.80	0.00
GenreRacing	-0.07	-0.15	0.01	-1.70	0.09
GenreRole-Playing	-0.06	-0.13	0.01	-1.57	0.12

GenreShooter	-0.00	-0.08	0.08	-0.01	0.99
GenreSimulation	-0.03	-0.11	0.06	-0.57	0.57
GenreSports	0.00	-0.06	0.07	0.13	0.90
GenreStrategy	-0.24	-0.34	-0.14	-4.81	0.00
Age_imp	0.03	0.02	0.04	7.37	0.00
Rating_impE	-0.48	-1.79	0.82	-0.72	0.47
Rating_impE10+	-0.46	-1.76	0.85	-0.68	0.49
Rating_impEC	-0.64	-2.07	0.79	-0.88	0.38
Rating_impK-A	-0.57	-1.91	0.78	-0.83	0.41
Rating_impM	-0.53	-1.83	0.78	-0.79	0.43
Rating_impRP	-0.38	-1.98	1.22	-0.46	0.64
Rating_impT	-0.55	-1.85	0.75	-0.83	0.41
Critic_Score_imp	0.10	0.07	0.12	7.56	0.00
Critic_Count_imp	0.11	0.08	0.13	9.15	0.00
User_Score_imp	-0.01	-0.03	0.02	-0.44	0.66
User_Count_imp	-0.01	-0.03	0.01	-0.67	0.51

```
y2 = predict(regressor2, train_dataset2)
table(y2, train_dataset2$Global_Sales)
```

y2	-0.908847347790785	-0.867440393749452
-1.27524207800314	1	0
-1.22155003069645	0	0
-1.21583632582024	0	1
-1.20399612475912	0	0
-1.17145980093398	0	0
-1.16573487095782	0	0
-1.14898041239003	0	1
-1.14215249469208	1	0
-1.13647914699548	0	1
-1.1237506962003	1	0
-1.10655531746308	0	1
-1.104776303976	0	0
-1.09205975702889	1	0
-1.09117649204933	0	1
-1.08392477087301	1	0
-1.0765493916802	0	1
-1.0641595876819	0	0
-1.05216383582851	0	0

-1.0431681219502	0	0
-1.04131280228741	1	0
-1.02188757494955	0	0
-1.01807617718282	1	0
-1.01126516400757	0	1
-1.00416669893451	0	0
-1.00375212845179	1	0
-1.00075313034539	0	1
-0.996302164819597	0	0
-0.989932838838171	0	0
-0.986231777243827	0	0
-0.985543350833378	0	1
-0.978937100907446	0	0
-0.978653661118407	0	0
-0.978008708711643	0	0
-0.973543379954553	0	0
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[getOption("max.print") est atteint -- 9458 lignes omises]

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table(y_pred2, test_dataset2$Global_Sales)
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-0.287527782328975	0
-0.28733501804412	0
-0.287034591489781	0
-0.286974244825744	0
-0.286639848643557	0
-0.285660365914232	0
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-0.285190788217321	0
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-0.284227988258585	0
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-0.283065886500742	0
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-0.28024369949361	0
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-0.279682439736107	0
-0.279645021720998	0
-0.279131097418639	0
-0.279080820449785	0
-0.278886614113052	0
-0.278821226880508	0
-0.277538586824547	0

```

-0.277285460810114      0
-0.277034751709368      0
-0.276843341890873      0
-0.276821725391045      0
-0.276734406126814      0
-0.276334845680133      0
-0.275671327661123      0
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-0.275020427995157      0
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-0.274777240176981      0
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-0.274600455940291      0
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-0.273631126904863      0
-0.273175839275938      0
-0.272372711437807      0
-0.272266140484219      0
-0.272193576946545      0
-0.27214102156972       0
-0.272078057729202      0
-0.271935054602824      0
-0.271084552787751      0
-0.271032085567842      0
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-0.270688904678416      0
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-0.269388350764425      0
-0.268877072974571      0
-0.267947189686871      0
-0.267451394802041      0
-0.267409779865081      0
[ getOption("max.print") est atteint -- 3516 lignes omises ]

```

```

# RMSE on training set
RMSE(y2, train_dataset2$Global_Sales)

```

```
[1] 0.9366878
```

```
# RMSE on test set  
RMSE(y_pred2, test_dataset2$Global_Sales)
```

```
[1] 0.9392499
```

```
# MAE train dataset  
MAE(y2, train_dataset2$Global_Sales)
```

```
[1] 0.7052507
```

```
# MAE test dataset  
MAE(y_pred2, test_dataset2$Global_Sales)
```

```
[1] 0.7104325
```

.It can be concluded that data scaling, outlier deletion, and differences in data splitting make the RMSE and MAE training value with the RMSE and MAE test value not have a significant difference.