# Nintendo Sales

# Gigi

## 2023-02-23

## Video Game Sales

For this analysis, I am isolating Nintendo games from this Video Game Sales data set. The dataset consists of games with sales greater than 100,000, sales figures are in millions. Data downloaded from: https://www.kaggle.com/datasets/gregorut/videogamesales

## Loading necessary packages

```
library(tidyverse)
library(dplyr)
library(magrittr)
```

## Importing and previewing the Video Games dataset

```
vg_sales <- read.csv('vgsales.csv')
head(vg_sales)</pre>
```

##		Rank		Name	Platform	Year	Genre	Publisher	NA_Sales
##	1	1		Wii Sports	Wii	2006	Sports	Nintendo	41.49
##	2	2	Super	Mario Bros.	NES	1985	Platform	Nintendo	29.08
##	3	3	Mar	Wii	2008	Racing	Nintendo	15.85	
##	4	4	Wii Sp	orts Resort	Wii	2009	Sports	Nintendo	15.75
##	5	5 Poke	5 Pokemon Red/Pokemon Blue			1996	Role-Playing	Nintendo	11.27
##	6	6		Tetris	GB	1989	Puzzle	Nintendo	23.20
##		${\tt EU\_Sales}$	JP_Sales	${\tt Other\_Sales}$	Global_Sa	ales			
##	1	29.02	3.77	8.46	82	2.74			
##	2	3.58	6.81	0.77	40	).24			
##	3	12.88	3.79	3.31	35	5.82			
##	4	11.01	3.28	2.96	33	3.00			
##	5	8.89	10.22	1.00	31	1.37			
##	6	2.26	4.22	0.58	30	.26			

#### Filter vg\_sales for Nintendo publisher

```
nintendo_sales <- vg_sales %>% filter(Publisher == 'Nintendo', Year != 'N/A')
head(nintendo_sales)
```

```
##
     Rank
                              Name Platform Year
                                                         Genre Publisher NA_Sales
## 1
                        Wii Sports
                                        Wii 2006
                                                        Sports Nintendo
                                                                            41.49
## 2
        2
                 Super Mario Bros.
                                        NES 1985
                                                      Platform Nintendo
                                                                            29.08
## 3
                    Mario Kart Wii
                                        Wii 2008
                                                        Racing Nintendo
                                                                            15.85
## 4
        4
                 Wii Sports Resort
                                        Wii 2009
                                                        Sports Nintendo
                                                                            15.75
## 5
        5 Pokemon Red/Pokemon Blue
                                         GB 1996 Role-Playing Nintendo
                                                                            11.27
## 6
                                                        Puzzle Nintendo
                                                                            23.20
                            Tetris
                                         GB 1989
     EU_Sales JP_Sales Other_Sales Global_Sales
## 1
        29.02
                  3.77
                              8.46
                                           82.74
## 2
        3.58
                  6.81
                              0.77
                                           40.24
## 3
                                           35.82
        12.88
                  3.79
                              3.31
## 4
        11.01
                  3.28
                              2.96
                                           33.00
## 5
        8.89
                 10.22
                              1.00
                                           31.37
## 6
         2.26
                  4.22
                              0.58
                                           30.26
```

#### Summarizing Nintendo Sales

```
by_platform <- nintendo_sales %>% group_by(Platform, Year) %>%
    summarize(NA_sales = sum(NA_Sales),
    EU_sales = sum(EU_Sales),
    JP_sales = sum(JP_Sales),
    Other_sales = sum(Other_Sales),
    Global_total_sales = sum(Global_Sales),
    game_count = n_distinct(Name)) %>% arrange(desc(Global_total_sales))
```

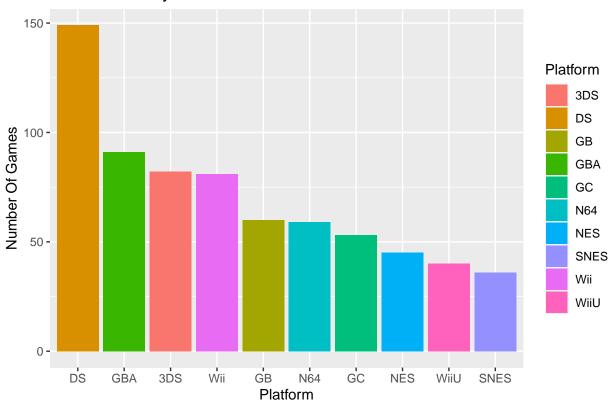
#### Taking a quick look at our new summarized data frame

#### head(by\_platform)

```
## # A tibble: 6 x 8
## # Groups:
               Platform [3]
     Platform Year NA_sales EU_sales JP_sales Other_sales Global_total_s~1 game_~2
##
     <chr>>
                        <dbl>
                                  <dbl>
                                            <dbl>
                                                        <dbl>
##
               <chr>>
                                                                           <dbl>
                                                                                   <int>
## 1 Wii
               2006
                         61.9
                                   41.9
                                            8.54
                                                        12.5
                                                                           125.
                                                                                       9
## 2 DS
               2005
                         36.2
                                   39.8
                                            26.0
                                                         9.75
                                                                                      25
                                                                           112.
## 3 Wii
              2009
                         43.0
                                   28.6
                                            13.2
                                                         7.66
                                                                                      16
                                                                            92.5
## 4 DS
              2006
                         27.2
                                   18.0
                                            26.8
                                                         5.59
                                                                            77.8
                                                                                      36
                                    7.6
                                                                            63.9
## 5 GB
              1989
                         39.8
                                            15.1
                                                          1.4
                                                                                       9
## 6 Wii
               2007
                         28.6
                                   20.7
                                            8.55
                                                         5.46
                                                                            63.3
                                                                                      16
## # ... with abbreviated variable names 1: Global_total_sales, 2: game_count
```

#### Nintendo Games by Platform

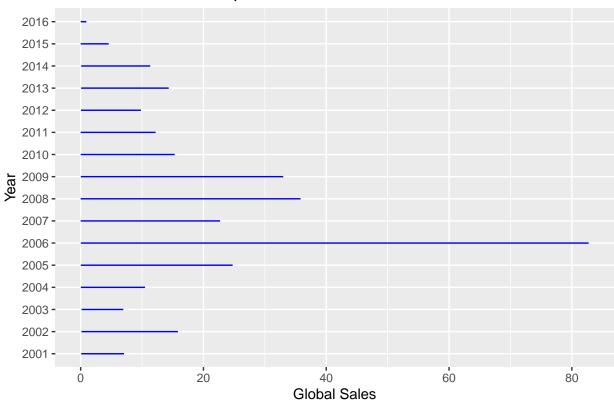
# Game Count by Platform



## Global Sales from 2000 forward

```
sales_from_2000 <- nintendo_sales %>% filter(Year > 2000)
ggplot(sales_from_2000, mapping = aes(y = Year, x=Global_Sales)) + geom_line(color= 'blue') +labs(title
```

# YOY Global Sales Comparison: Nintendo



#### Viewing year over year change of global sales

#### Plotting change from year to year

```
ggplot(yoy_sales, aes(x= Year, y= change, fill = change)) + geom_col()+labs(title = "YOY Sales Change:
```

## Warning: Removed 1 rows containing missing values (`position\_stack()`).

# YOY Sales Change: Nintendo

