

Game Sales Markdown

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An Analysis on video game sales data across the big three console platforms

This analysis takes data from three different set from this Kaggle source and cleans each set for computing analyses on each and combining sets for clearer pictures

Setting up the environment

Notes: Setting up my environment by loading the various packages used during the analysis and loading our datasets

```
library(tidyverse)
library(here)
library(ggplot2)
library(skimr)
library(janitor)
library(dplyr)
library(knitr)
```

```
## [1] "PS4 Sales"
```

```
##           Game Year      Genre      Publisher North.America
## 1      Grand Theft Auto V 2014      Action  Rockstar Games      6.06
## 2 Call of Duty: Black Ops 3 2015      Shooter   Activision      6.18
## 3      Red Dead Redemption 2 2018 Action-Adventure  Rockstar Games      5.26
## 4      Call of Duty: WWII 2017      Shooter   Activision      4.67
## 5           FIFA 18 2017      Sports     EA Sports      1.27
## 6           FIFA 17 2016      Sports Electronic Arts      1.26
##   Europe Japan Rest.of.World Global
## 1   9.71  0.60         3.02  19.39
## 2   6.05  0.41         2.44  15.09
## 3   6.21  0.21         2.26  13.94
## 4   6.21  0.40         2.12  13.40
## 5   8.64  0.15         1.73  11.80
## 6   7.95  0.12         1.61  10.94
```

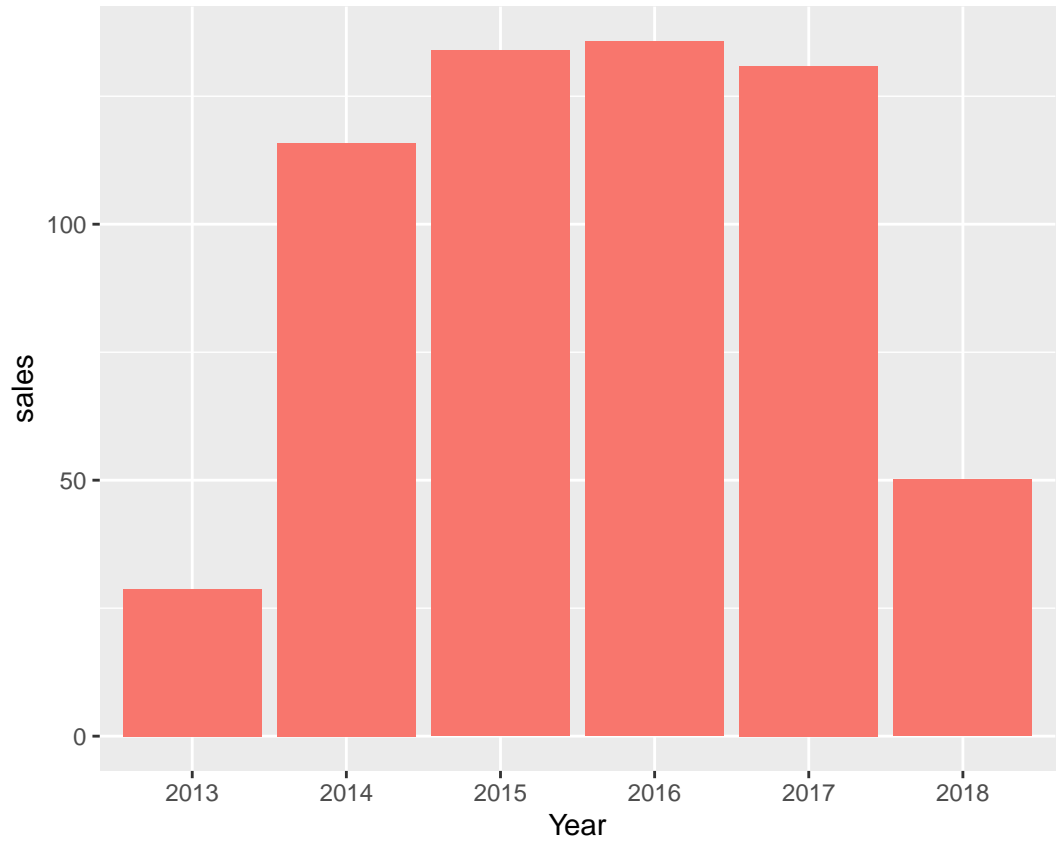
```
## [1] "XBox Sales"
```

```
##   Pos           Game Year      Genre      Publisher
## 1   1      Grand Theft Auto V 2014      Action  Rockstar Games
```

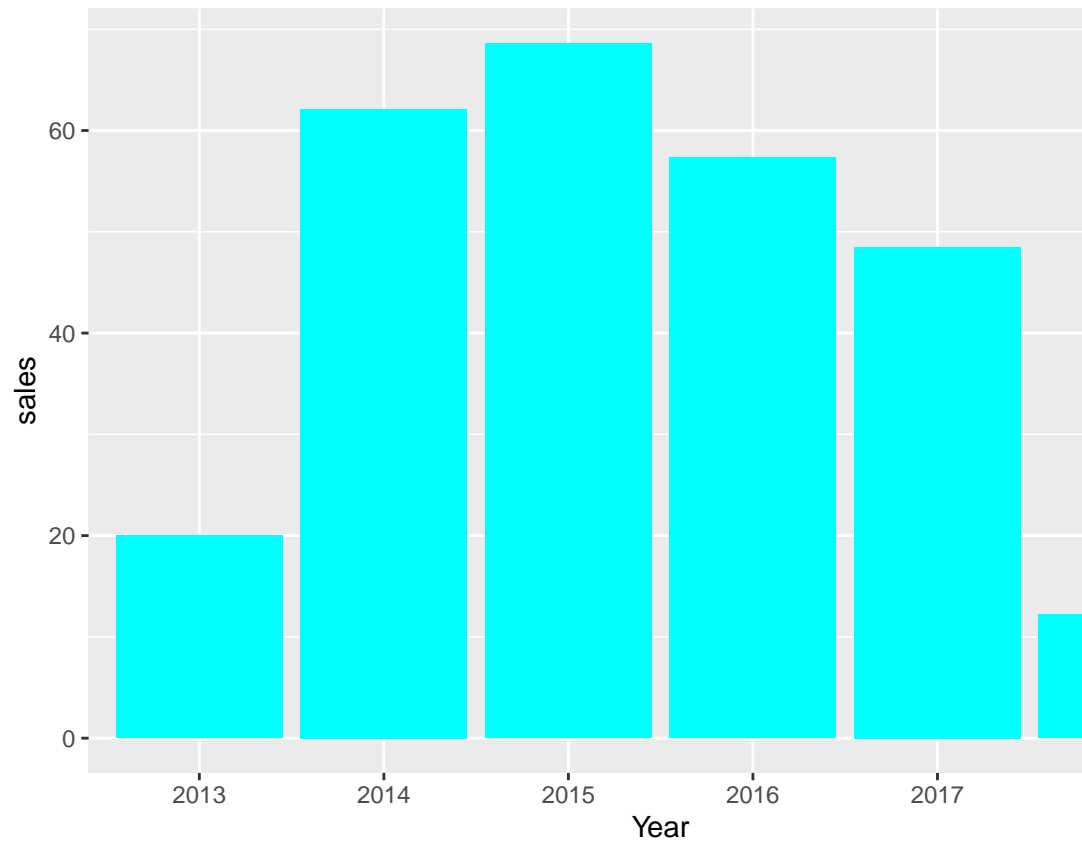
## 2	2	Call of Duty: Black Ops 3	2015	Shooter	Activision	
## 3	3	Call of Duty: WWII	2017	Shooter	Activision	
## 4	4	Red Dead Redemption 2	2018	Action-Adventure	Rockstar Games	
## 5	5	MineCraft	2014	Misc	Microsoft Studios	
## 6	6	Call of Duty: Advanced Warfare	2014	Shooter	Activision	
##		North.America	Europe	Japan	Rest.of.World	Global
## 1		4.70	3.25	0.01	0.76	8.72
## 2		4.63	2.04	0.02	0.68	7.37
## 3		3.75	1.91	0.00	0.57	6.23
## 4		3.76	1.47	0.00	0.54	5.77
## 5		3.23	1.71	0.00	0.49	5.43
## 6		3.25	1.49	0.01	0.48	5.22

[1] "General Video Game Sales"

##		Name	Platform	Year_of_Release	Genre	Publisher		
## 1		Wii Sports	Wii	2006	Sports	Nintendo		
## 2		Super Mario Bros.	NES	1985	Platform	Nintendo		
## 3		Mario Kart	Wii	2008	Racing	Nintendo		
## 4		Wii Sports Resort	Wii	2009	Sports	Nintendo		
## 5		Pokemon Red/Pokemon Blue	GB	1996	Role-Playing	Nintendo		
## 6		Tetris	GB	1989	Puzzle	Nintendo		
##		NA_Sales	EU_Sales	JP_Sales	Other_Sales	Global_Sales	Critic_Score	Critic_Count
## 1		41.36	28.96	3.77	8.45	82.53	76	51
## 2		29.08	3.58	6.81	0.77	40.24	NA	NA
## 3		15.68	12.76	3.79	3.29	35.52	82	73
## 4		15.61	10.93	3.28	2.95	32.77	80	73
## 5		11.27	8.89	10.22	1.00	31.37	NA	NA
## 6		23.20	2.26	4.22	0.58	30.26	NA	NA
##		User_Score	User_Count	Developer	Rating			
## 1		8.0	322	Nintendo	E			
## 2		NA	NA					
## 3		8.3	709	Nintendo	E			
## 4		8.0	192	Nintendo	E			
## 5		NA	NA					
## 6		NA	NA					

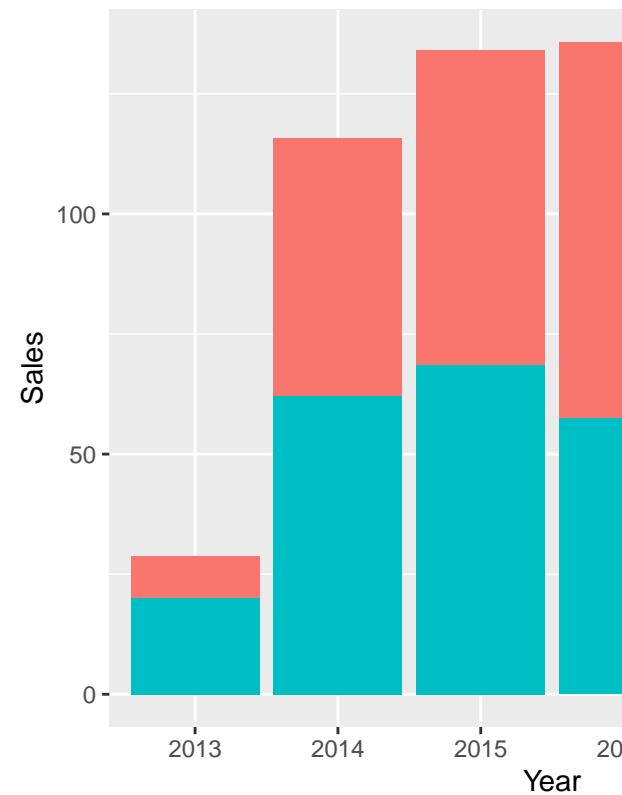


Visualizing PS4 sales by Year



Visualizing Xbox sales by Year

Ps4 vs Xbox Game Sales



Comparing the two, we can see a clear lead for Ps4 sales during each year

Analyzing best selling genres of video games

```
## [1] "PS4 sales by Genre"
```

```
## # A tibble: 17 x 2
##   Genre      sales
##   <chr>      <dbl>
## 1 Action    137.
## 2 Shooter   135.
## 3 Sports    92.8
## 4 Role-Playing 62.7
## 5 Action-Adventure 61.9
## 6 Racing     25.3
## 7 Fighting   19.4
## 8 Platform   17.8
## 9 Adventure   15.2
## 10 Misc       12.5
## 11 Music       5.03
## 12 Simulation  4.52
## 13 MMO         3.52
## 14 Strategy    1.28
## 15 Party       0.65
## 16 Puzzle      0.52
## 17 Visual Novel 0.46
```

```
## [1] "Xbox sales by Genre"
```

```
## # A tibble: 16 x 2
##   Genre      sales
##   <chr>      <dbl>
## 1 Shooter    92.2
## 2 Action     50.5
## 3 Sports     42.4
## 4 Racing     18.0
## 5 Action-Adventure 17.5
## 6 Role-Playing 16.1
## 7 Misc        8.89
## 8 Fighting     6.3
## 9 Adventure     4.82
## 10 Music        4.41
## 11 Platform     2.57
## 12 Simulation     2.5
## 13 MMO          1.52
## 14 Strategy      0.93
## 15 Puzzle        0.23
## 16 Visual Novel   0.02
```

It seems Action games have more popularity on ps4 and shooters have most popularity on xbox although shooters are a very close second place for ps4