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# Team 12

— Video Game Sales Rank —

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# Motivation

- What: Video games industry is a very lucrative
- How: optimize different genres platforms for video games
- Who: Demographics are significantly from region to region

Why visualization?



- The trend of overall market sales
- Analyze the empirical causes
- Infer strategy for companies and effects

# DataSet & Methodology

- From : VGChartz <http://www.vgchartz.com/gamedb/>
- Year[1980-2016]; 16323 rows × 16 columns

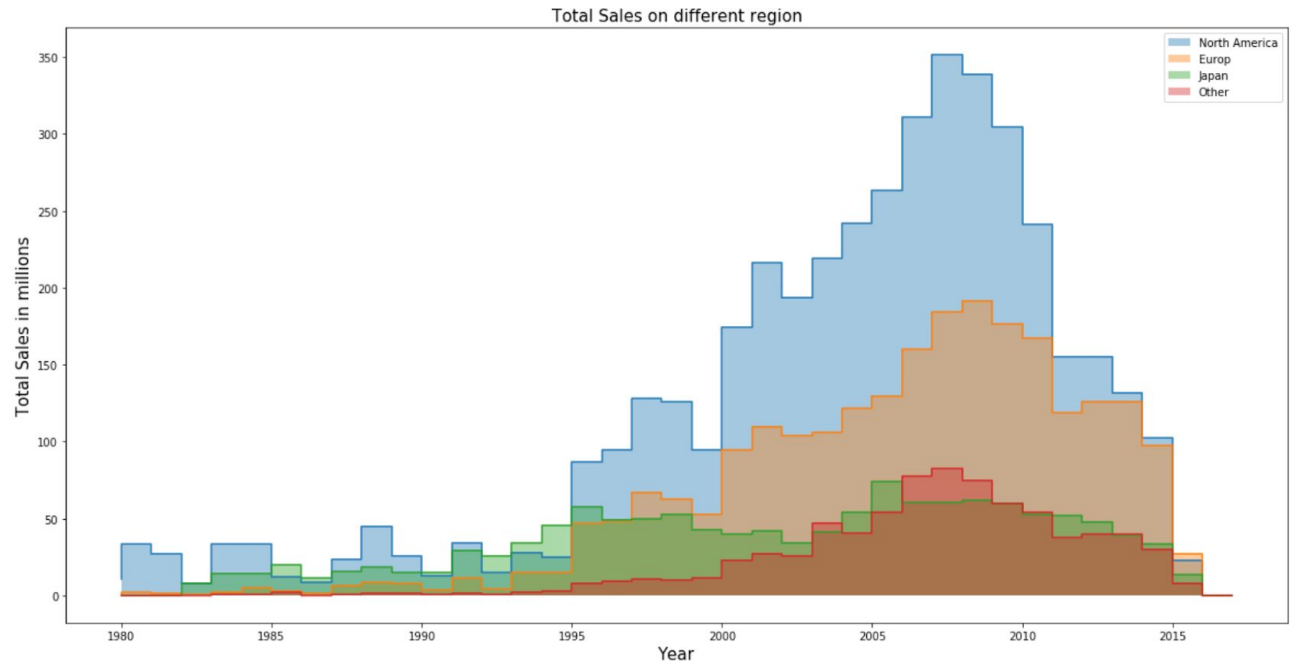


	Rank	Name	Platform	Year	Genre	Publisher	NA_Sales	EU_Sales	JP_Sales	Other_Sales	Global_Sales
0	1	Wii Sports	Wii	2006.0	Sports	Nintendo	41.49	29.02	3.77	8.46	82.74
1	2	Super Mario Bros.	NES	1985.0	Platform	Nintendo	29.08	3.58	6.81	0.77	40.24
2	3	Mario Kart Wii	Wii	2008.0	Racing	Nintendo	15.85	12.88	3.79	3.31	35.82
3	4	Wii Sports Resort	Wii	2009.0	Sports	Nintendo	15.75	11.01	3.28	2.96	33.00
4	5	Pokemon Red/Pokemon Blue	GB	1996.0	Role-Playing	Nintendo	11.27	8.89	10.22	1.00	31.37

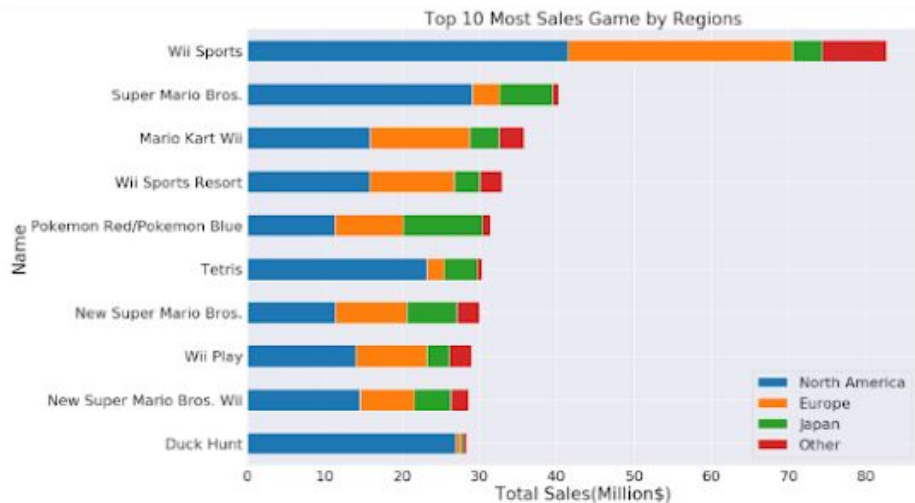
- Counting frequency; Sorting; Calculating Average
- Pandas; Seaborns; matplotlib

# Overall Sales Trend

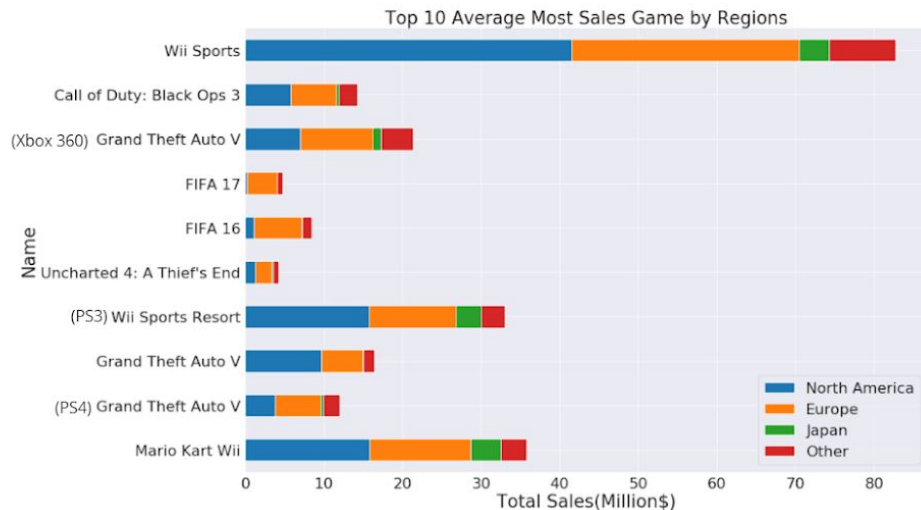
- Time Release Date vs. Regional Economic Constraint
- Japanese Debt Crisis 2013
- American Recession 2008
- European Debt crisis 2010



# Top Ten Game Sales



- Not normalized
- Most popular video games



- Normalized by years released
- New games have bigger market after

# Platform Classification



## PlayStation

PS2, PS3, PS4, PlayStation, PSP, PlayStation Vita



## Nintendo

Wii, WiiU, Nintendo Entertainment System, Game Boy, Nintendo DS, Nintendo 3DS, Nintendo 64, Super Nintendo Entertainment System, Nintendo Game Boy Advance



## Microsoft

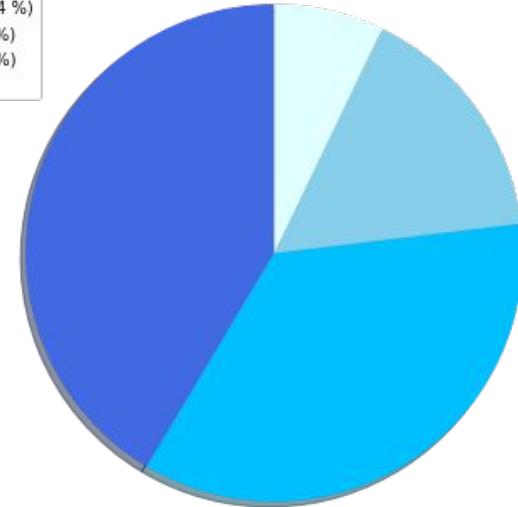
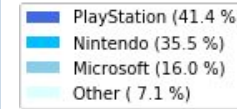
Xbox, Xbox One, Xbox 360

## Other

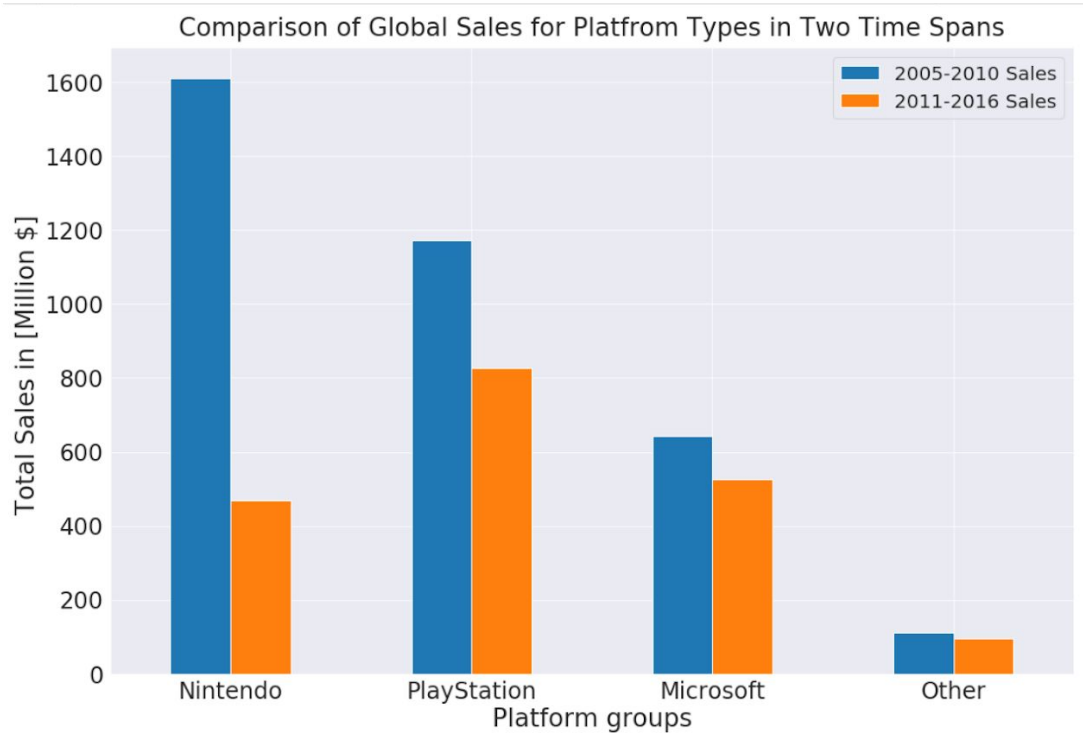
PC, 2600, GC, GG, GEN, DC, SAT, SCD, WS, NG, TurboGrafx-16, 3DO Interactive Multiplayer, NEC PC-FX

- PlayStation and Nintendo has relatively equivalent sales

Platform sales in Global



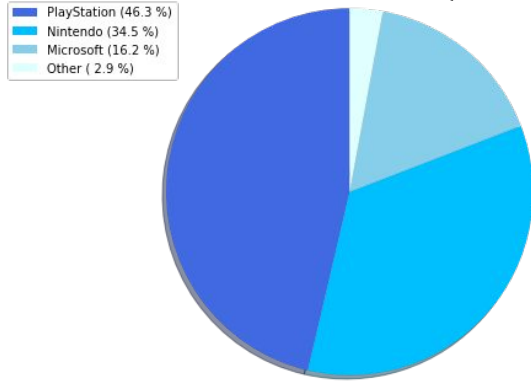
# Platform Sales Trend – Total



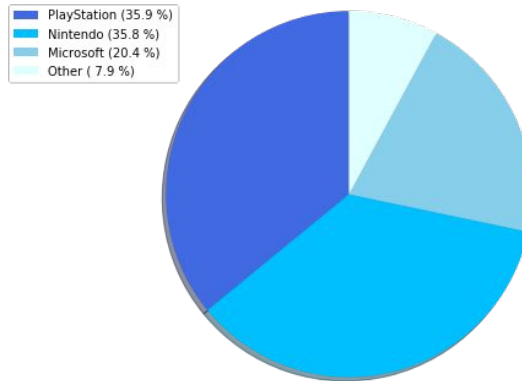
- Nintendo sales decreased dramatically

# Platform Sales Trend--Area

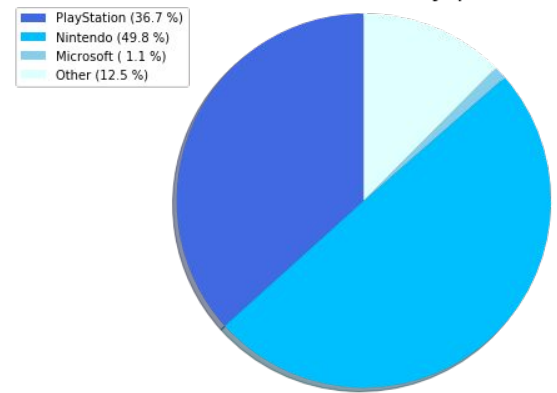
Platform sales in Europe



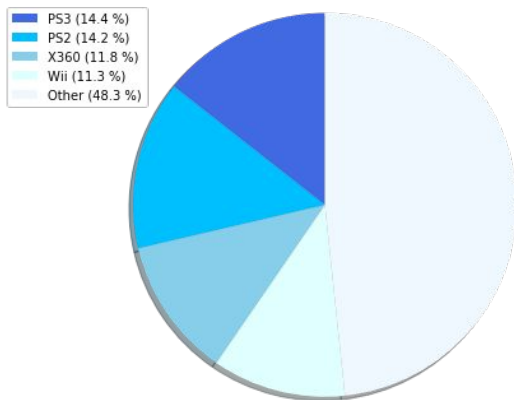
Platform sales in North America



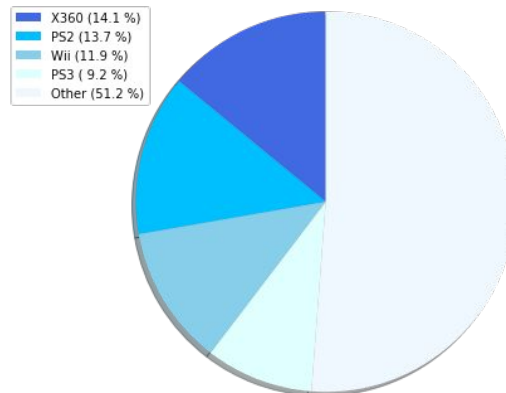
Platform sales in Japan



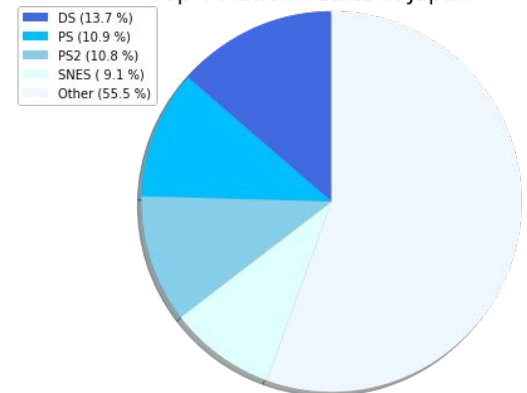
Top 4 Platform sales in Europe



Top 4 Platform sales in North America

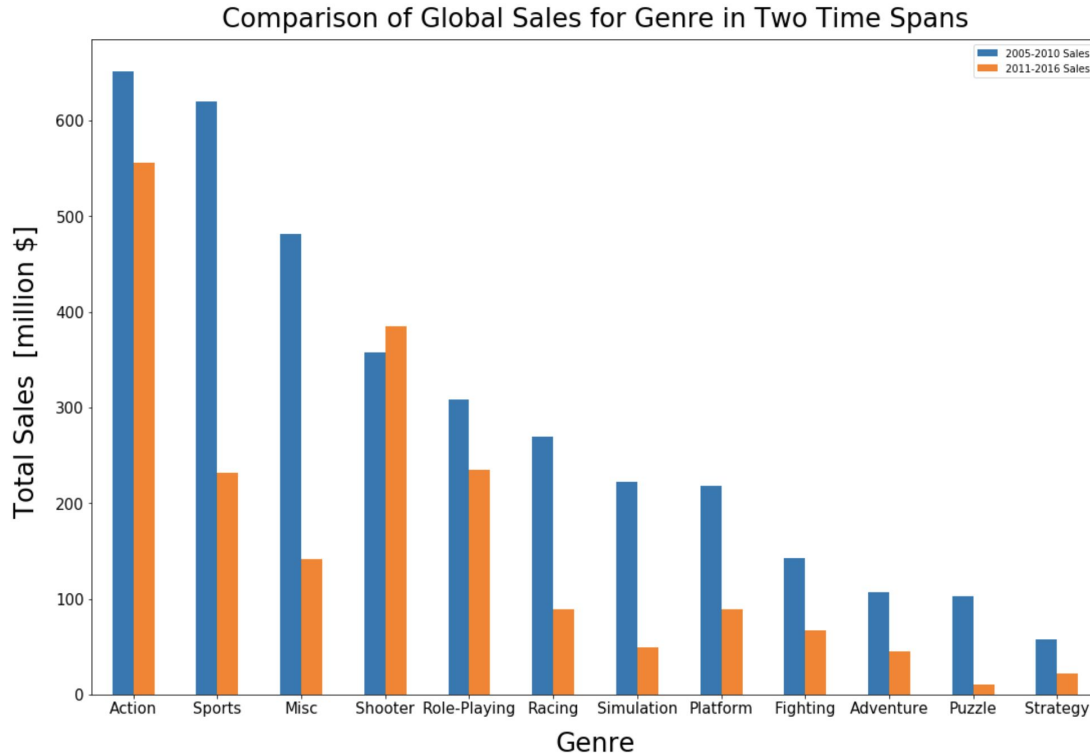


Top 4 Platform sales in Japan



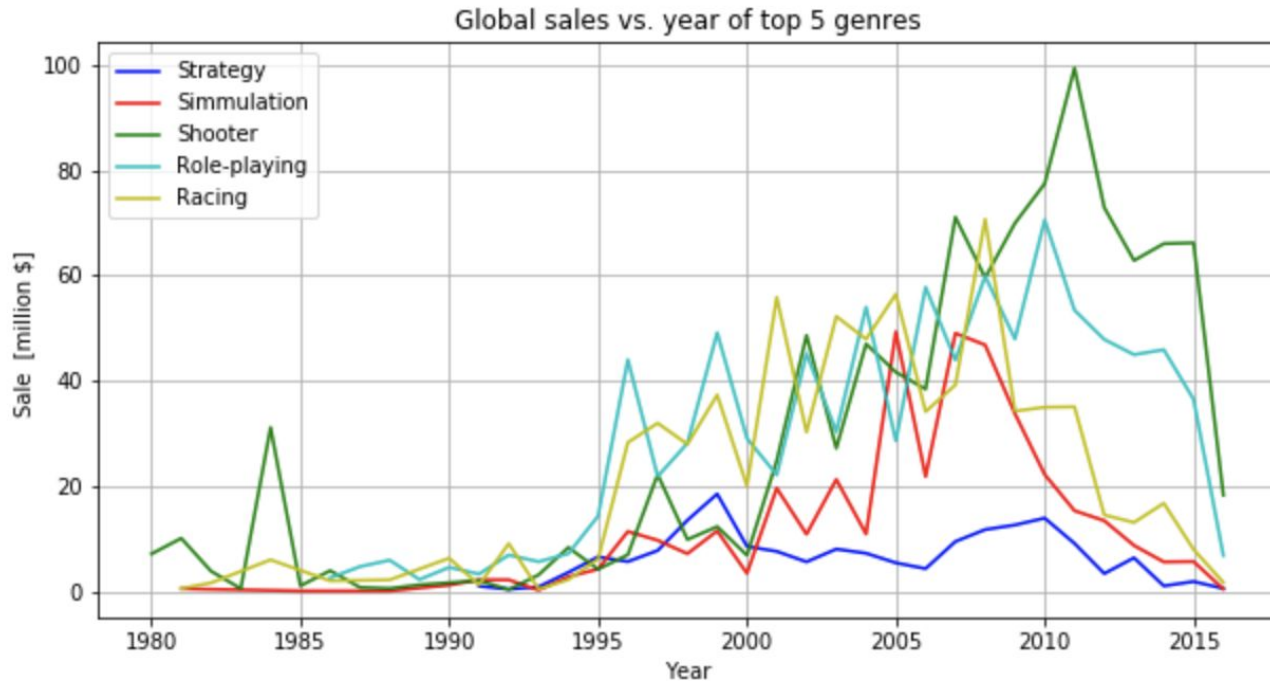


# Game types total sale — trend



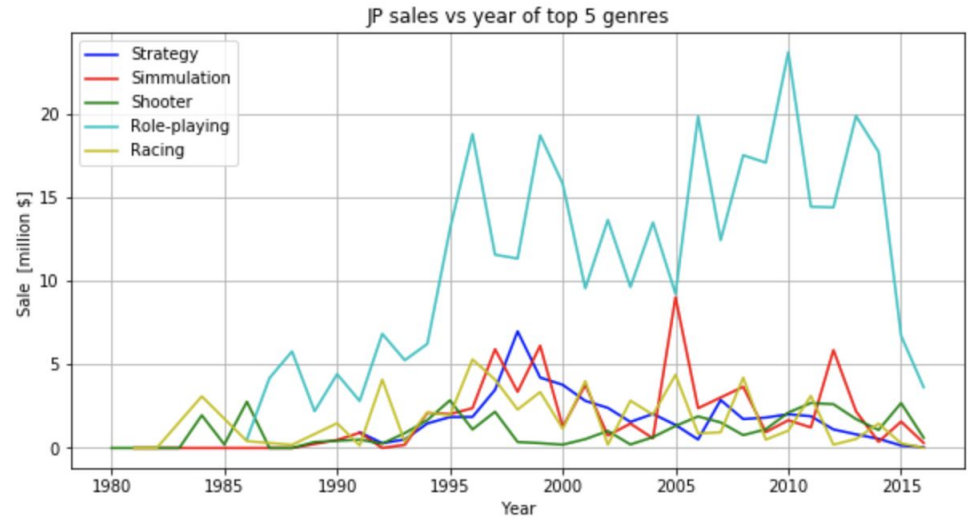
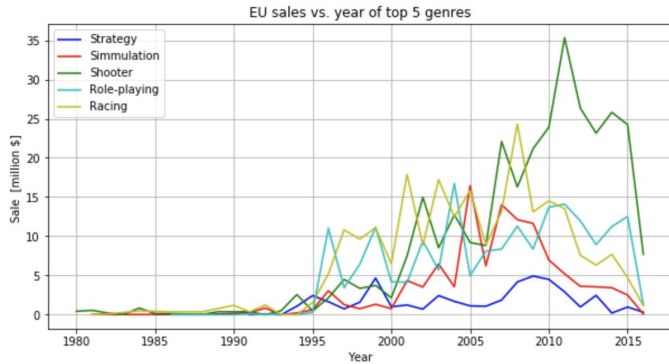
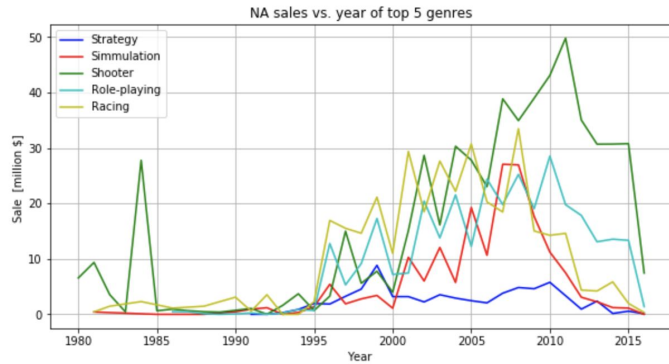
- The hot sale of shooter games lasts longer

# Game types total sale — — trend



- Independent of time fluctuation, preference of game types maintain consistency

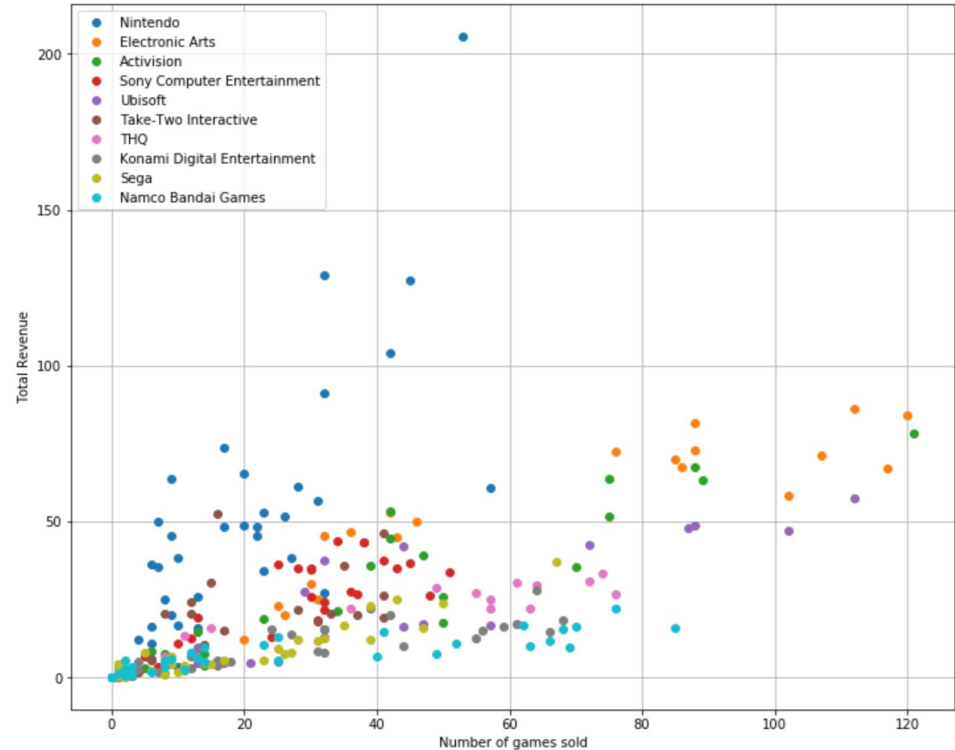
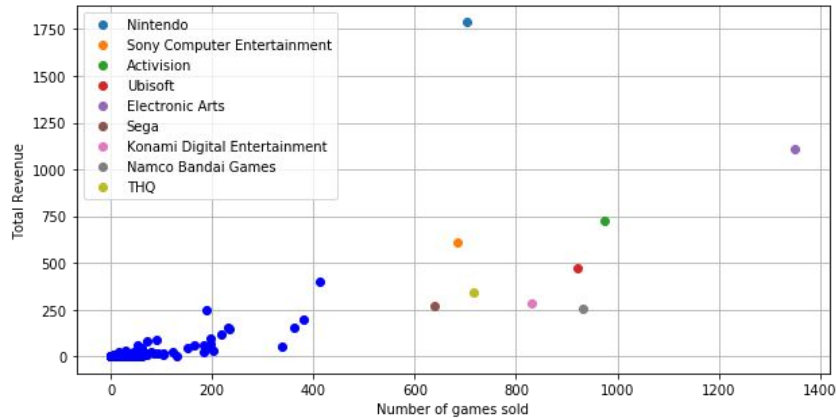
# Game types sale — trend (area)



- Japan shows the preference of different game types

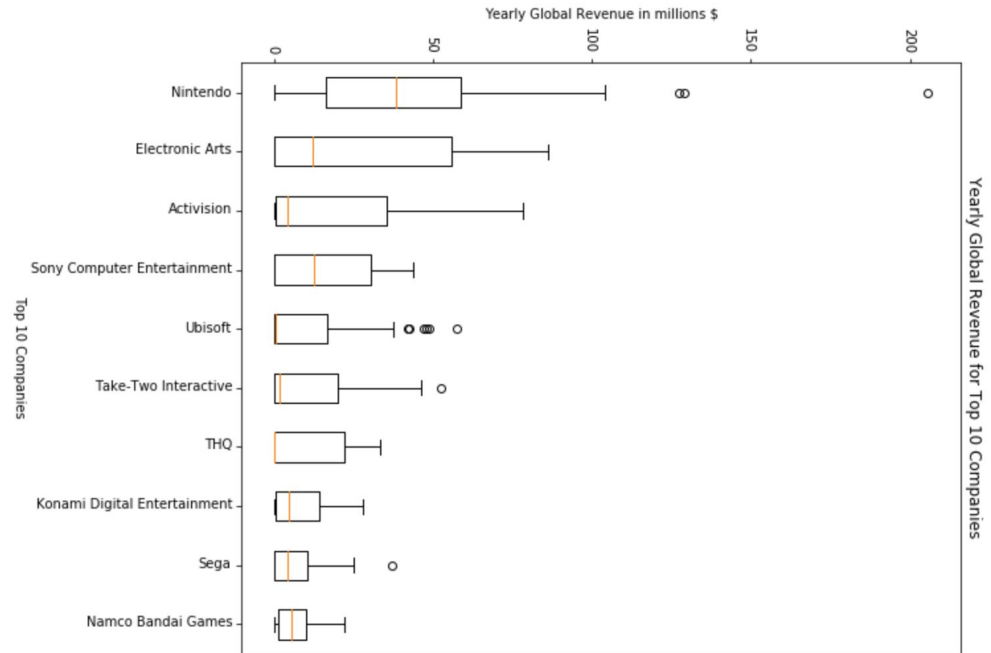
# Strategies

- It is better to specialize rather than brute-force release volumously



# Strategies

- On average per year
  - Yearly rate > overall gains



# Questions