

Game Design Analysis

다음 분기에 어떤 게임을 설계하는 것이 좋을까

AI_07 강동우

장르

플랫폼

게임

EDA & DATA PREPROCESSING

(16598, 9)

Year 데이터 이상치 보완 작업 9.0 → 2009, 97.0 → 1997

Publisher 데이터 결측값 보완 작업 NaN → Unknown

Sales 데이터 이상치 보완 작업 0.04 0.34M 2560K → 0.04 0.34 2.56

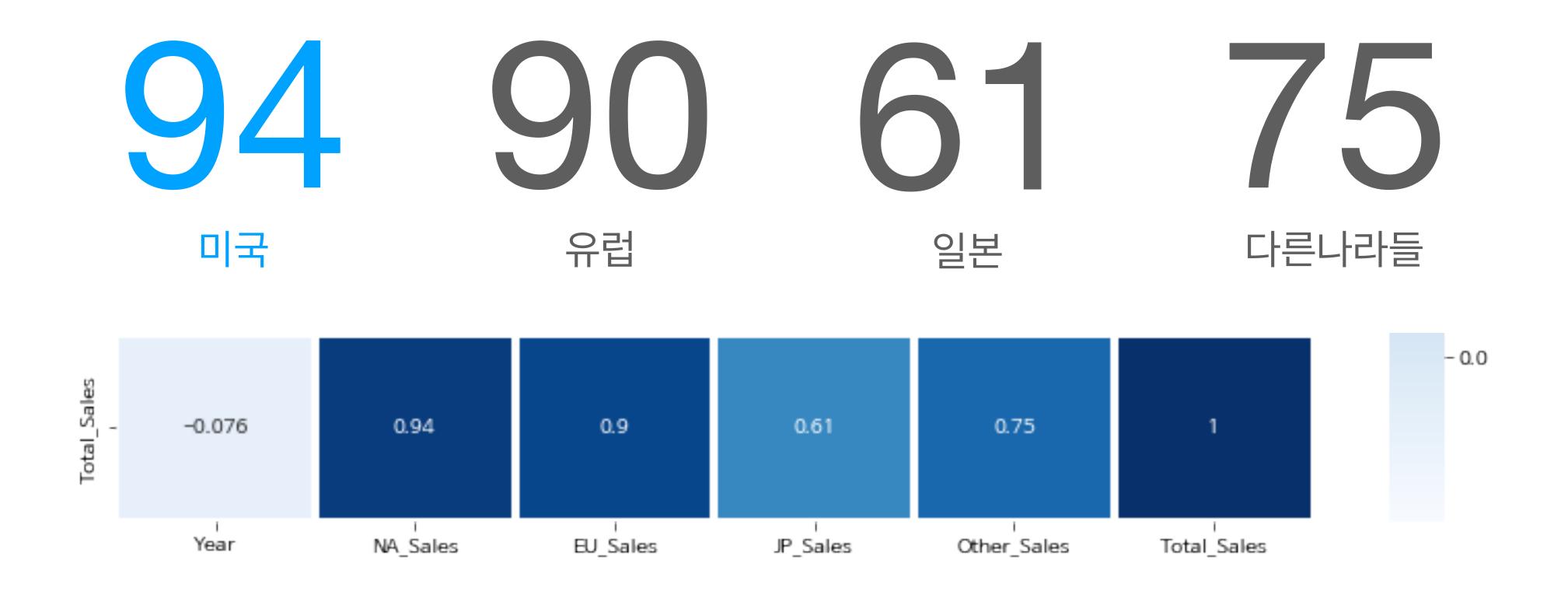
전체 출고량 열(컬럼) 생성

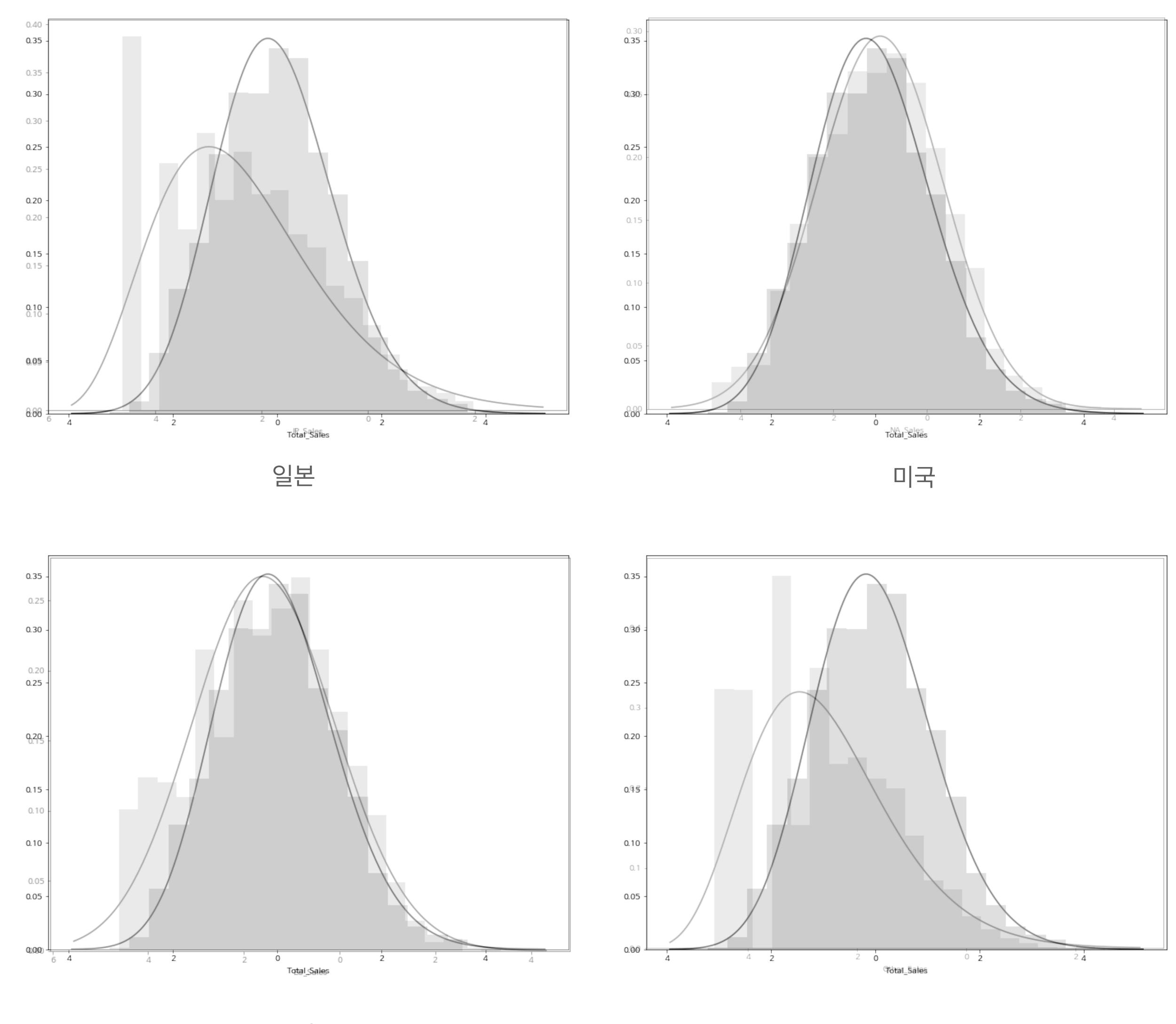
Total_Sales = (NA_Sales + EU_Sales + JP_Sales + Other_Sales)

나머지 결측데이터 제거 . drop

(16277, 10)

전체 출고량과 나라별 출고량의 연관성 정도 (상관계수)





유럽

다른 나라

Genre

국가에 따른 장르 선호도(히.

			\ :/	
Action -	858.78	513.64	156.61	183.99
Adventure -	101.92	63.71	51.89	16.70
Fighting -	. 220.35	99.90	87.14	36.15
Misc -	400.29	210.20	104.18	72.74
Platform -	445.38	200.65	130.53	51.45
Puzzle -	. 121.58	50.48	56.24	12.44
Racing -	354.70	235.03	56.32	76.51
Role-Playing -	318.76	183.10	342.93	56.73
Shooter -	574.48	310.23	38.18	101.86
Simulation -	181.43	113.17	63.54	31.32
Sports -	667.26	370.97	134.76	132.35
Strategy -	67.89	44.92	49.10	11.23
	마국	유럽	일본	나머지 국가

- 300

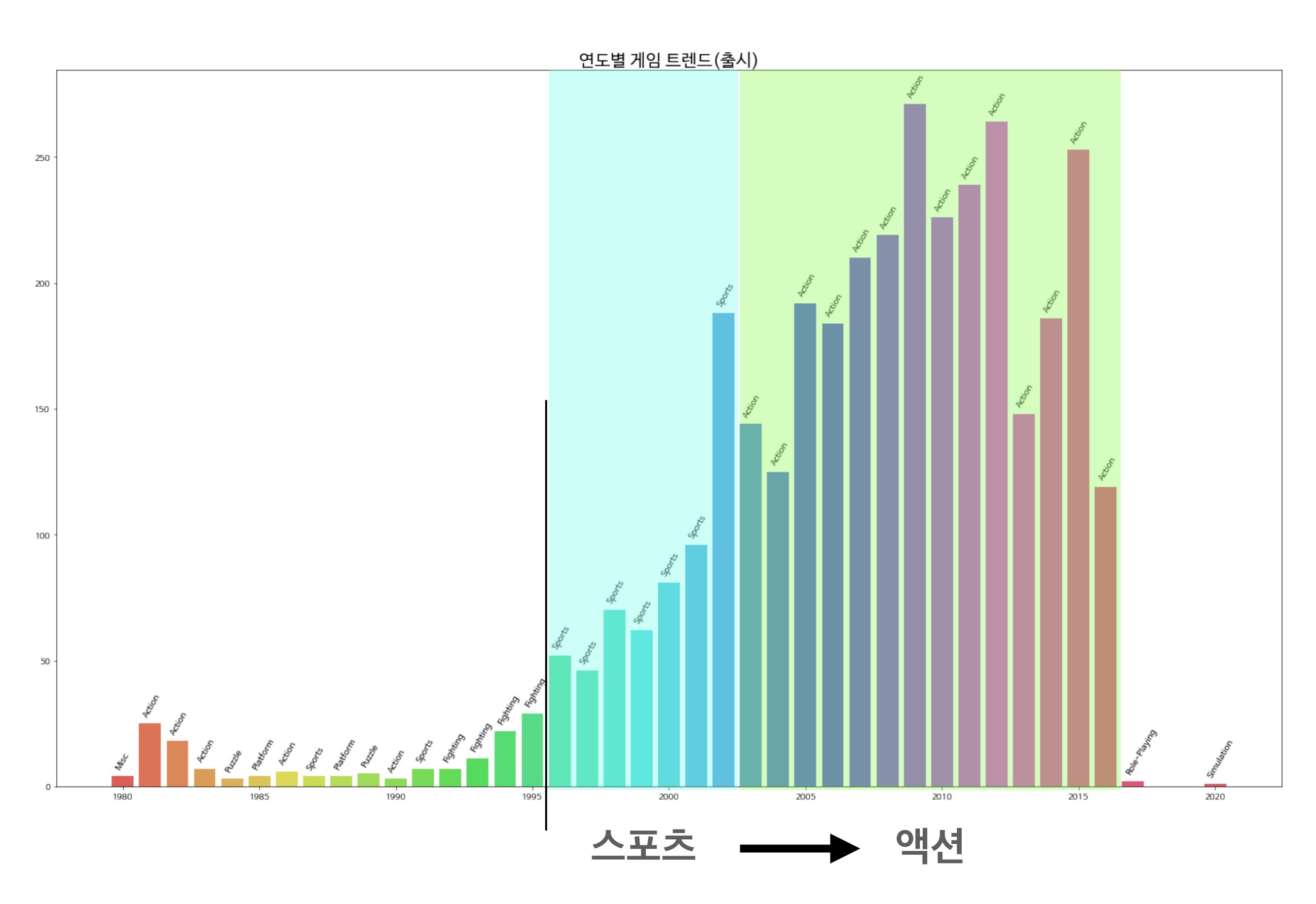
- 200

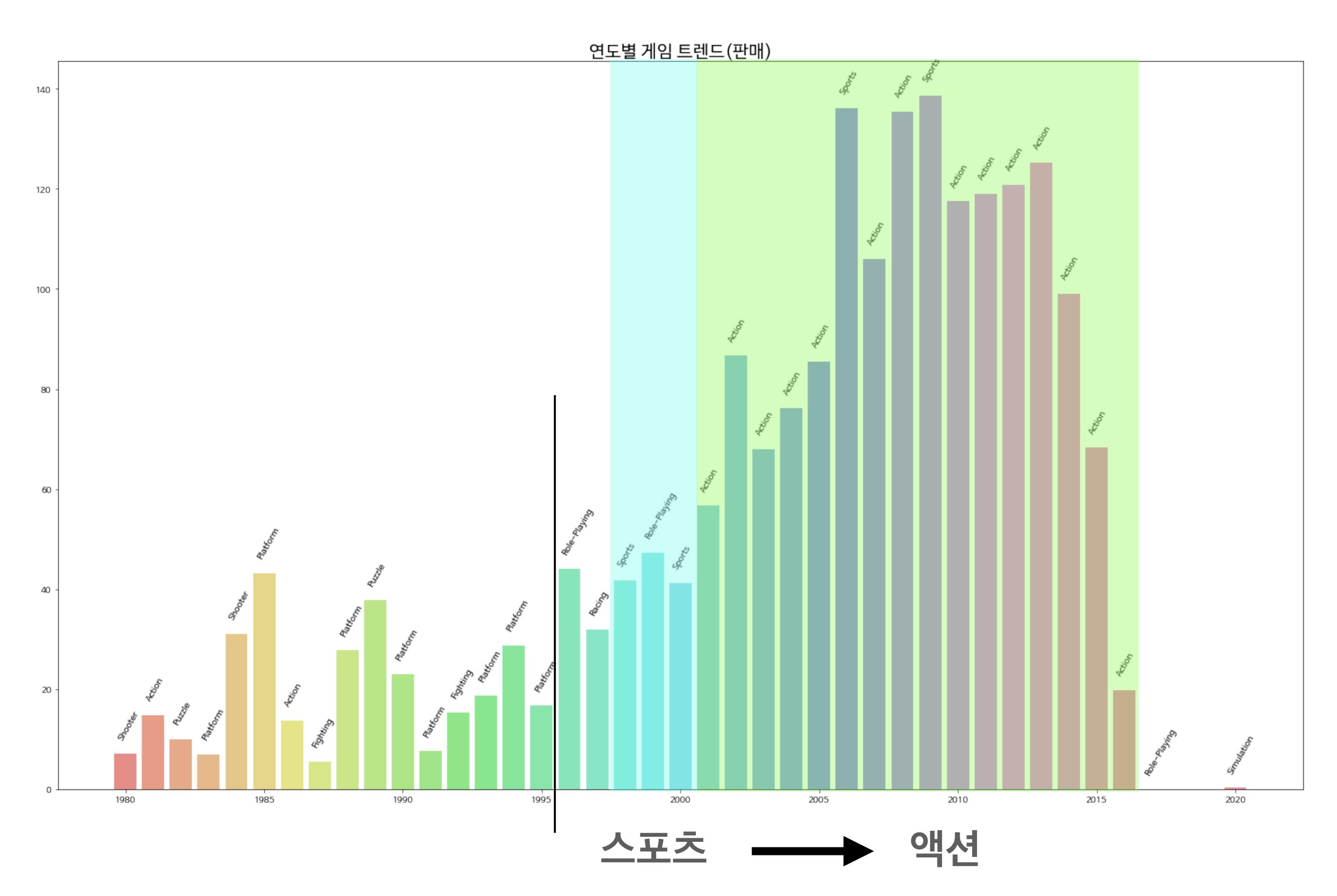
- 100

미국, 유럽, 나머지국가 액션 > 스포츠 > 슈팅

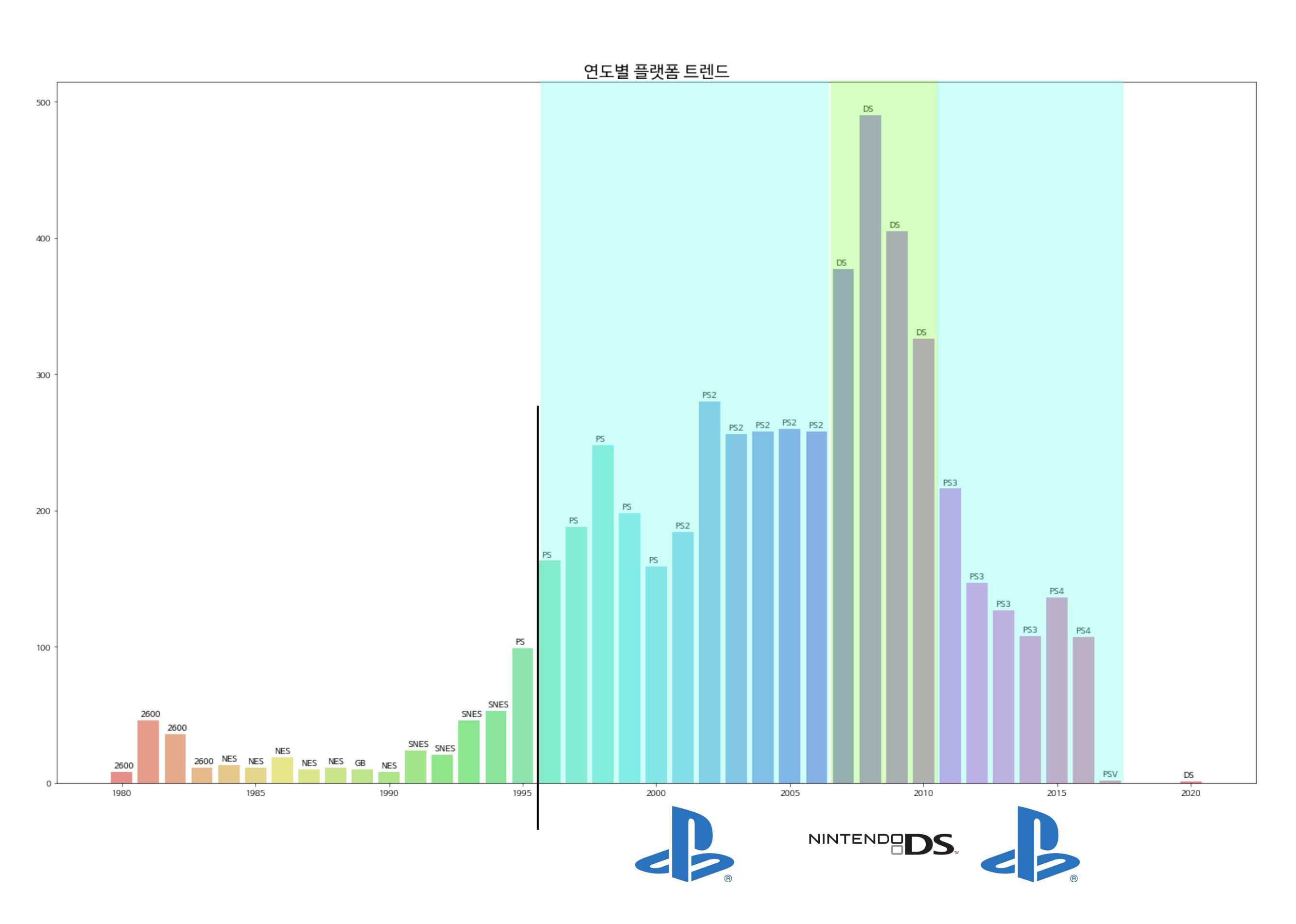
일본 롤플레잉 > 액션 > 스포츠

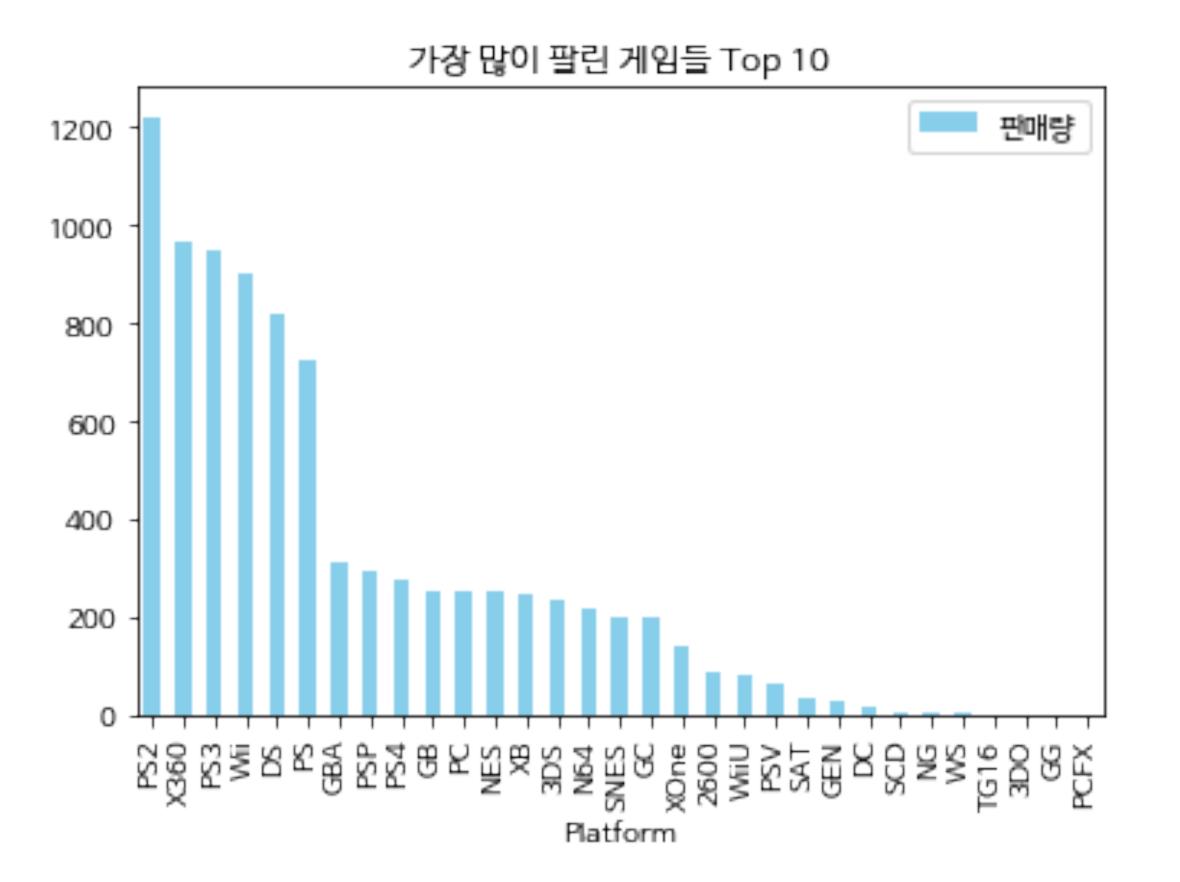
연도별 게임 장르의 트렌드

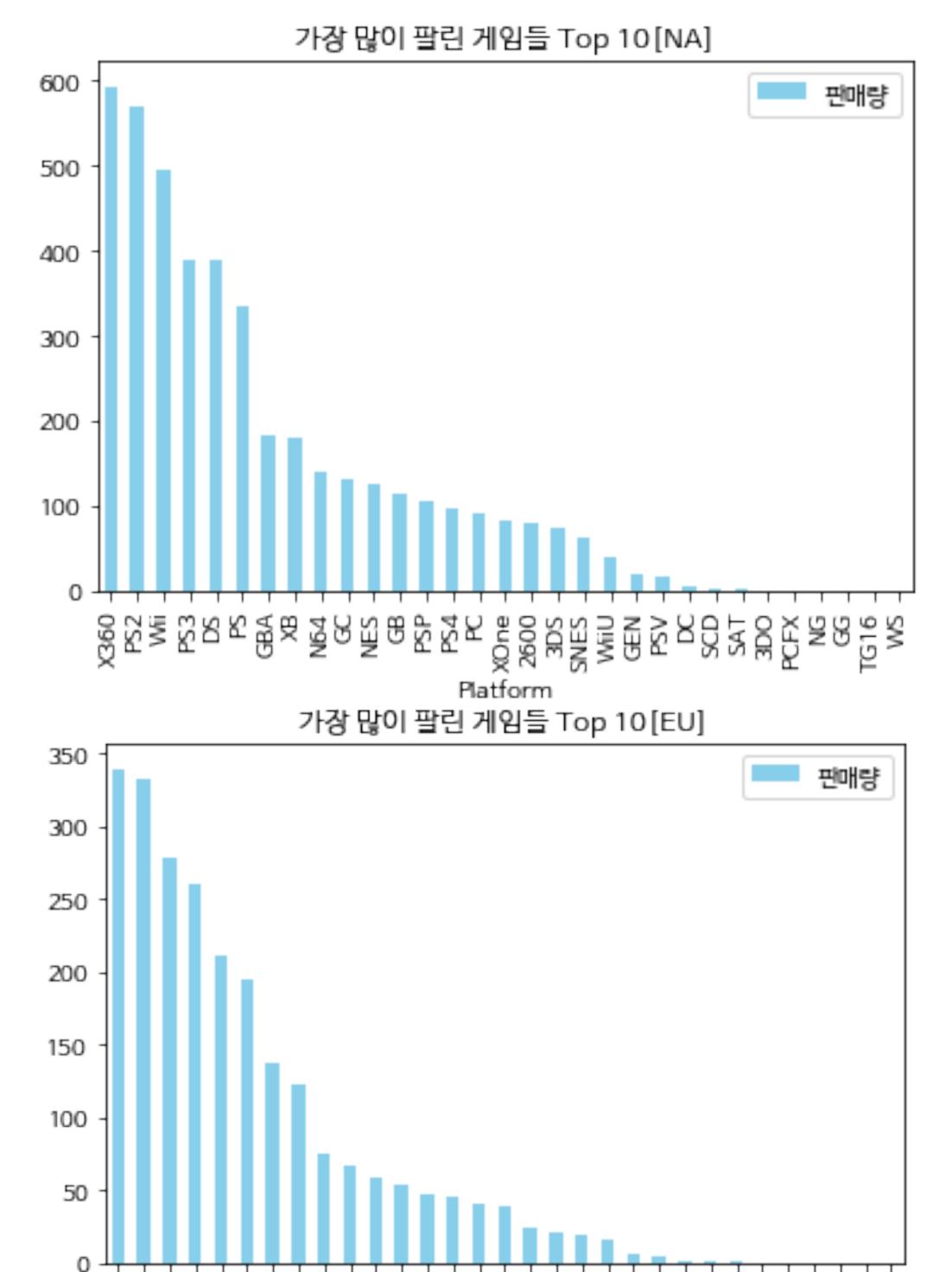




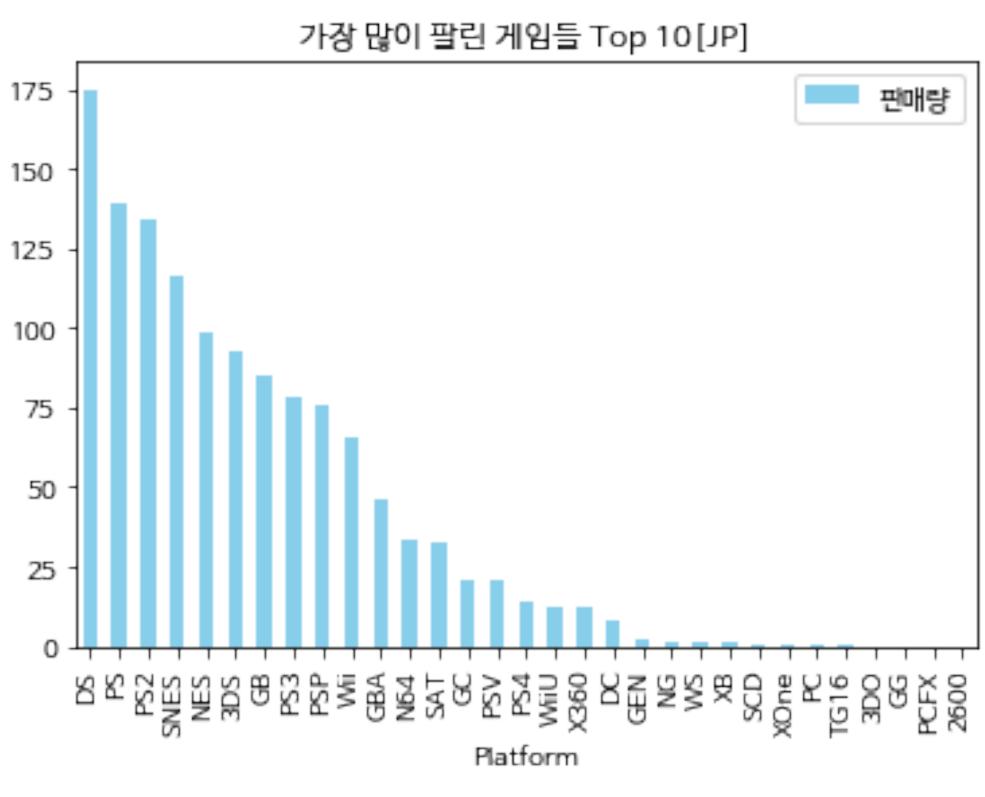
Platform

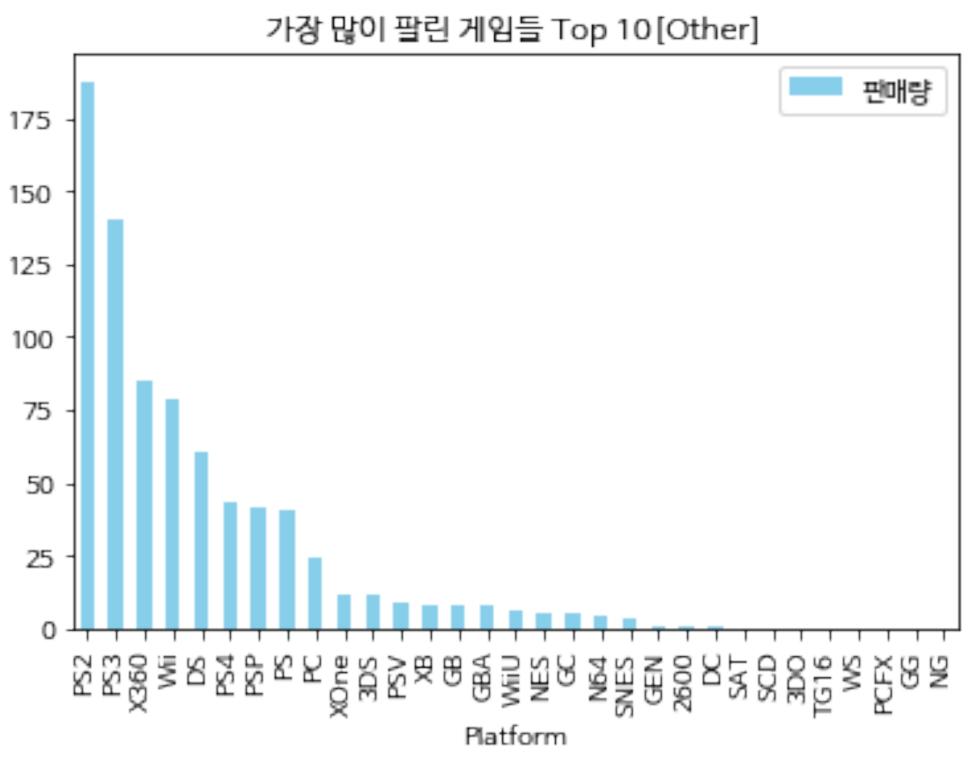


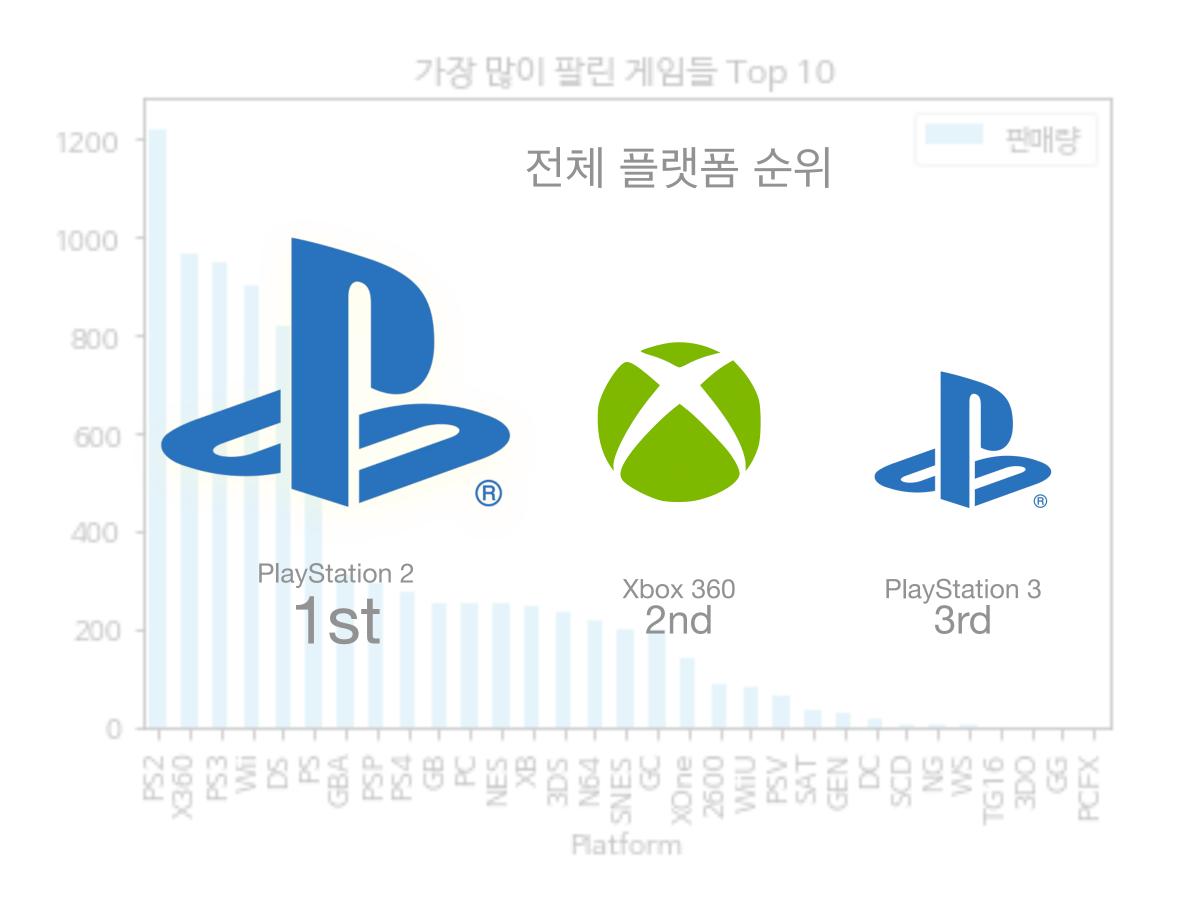




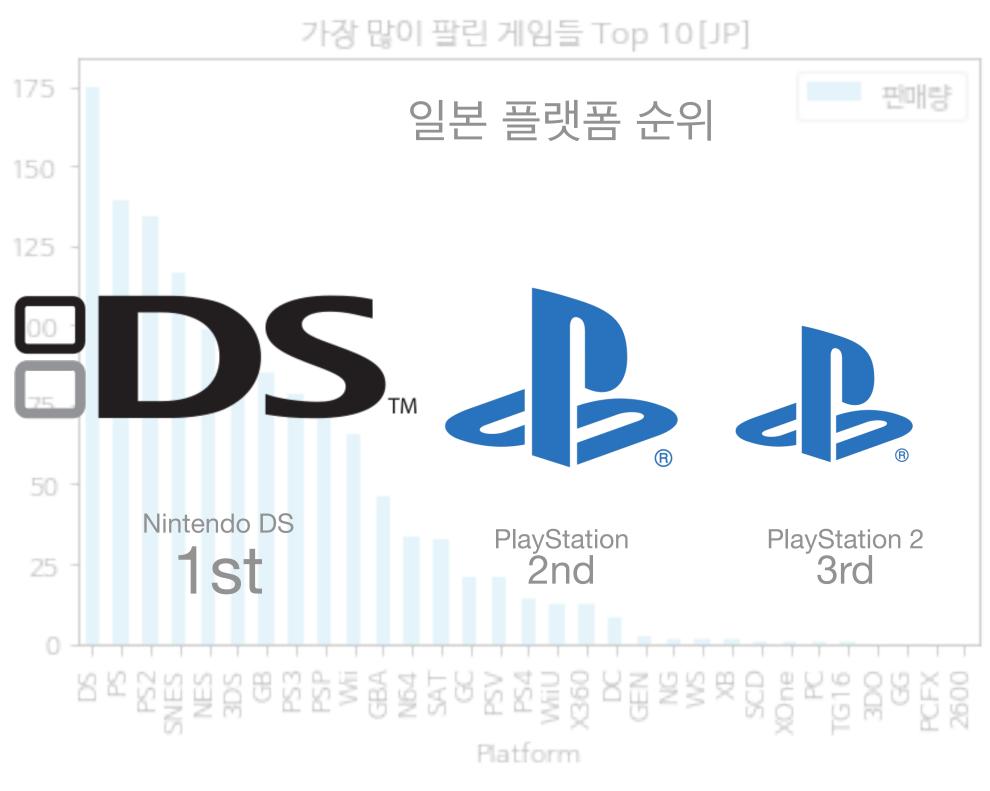
Platform

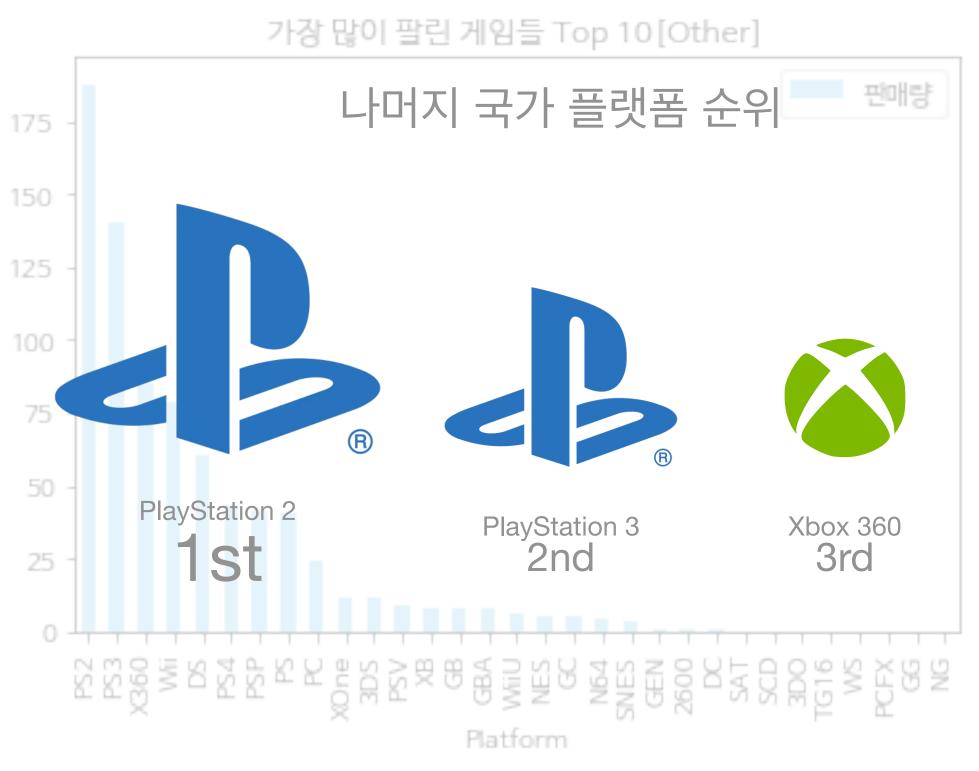




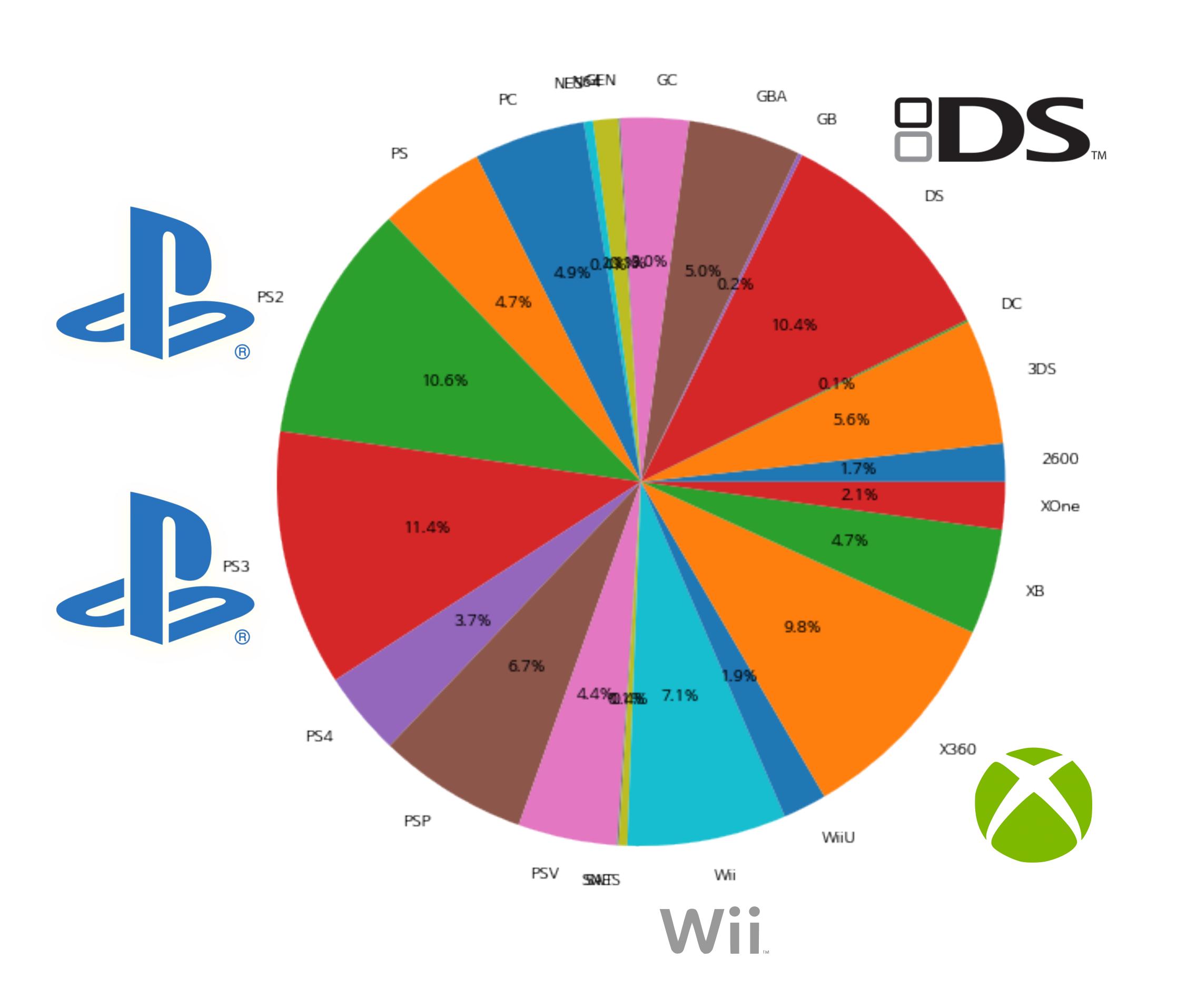






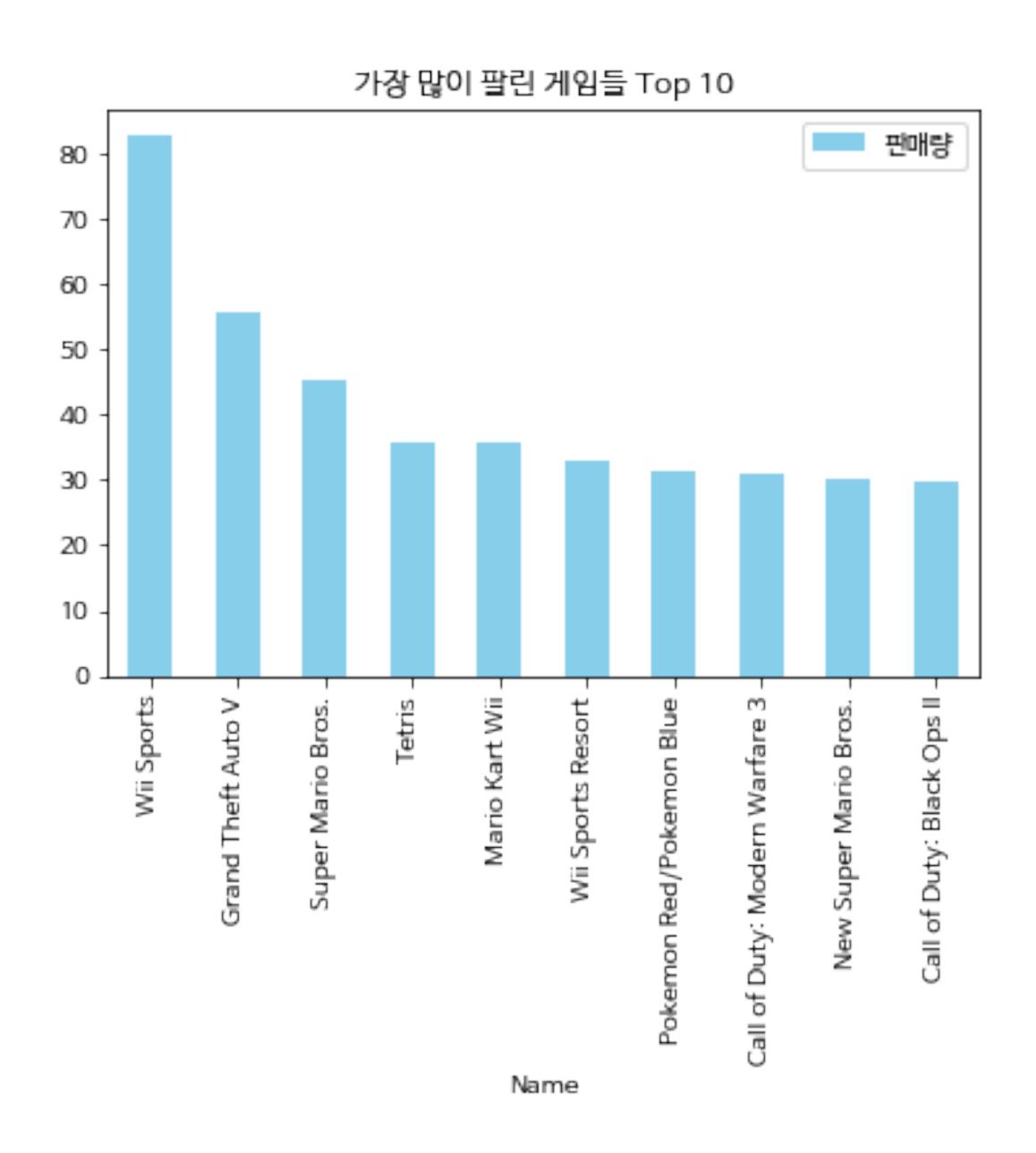


액션장르 게임의 플랫폼 비율



Game

발매사에 따른 게임의 출고량 분석





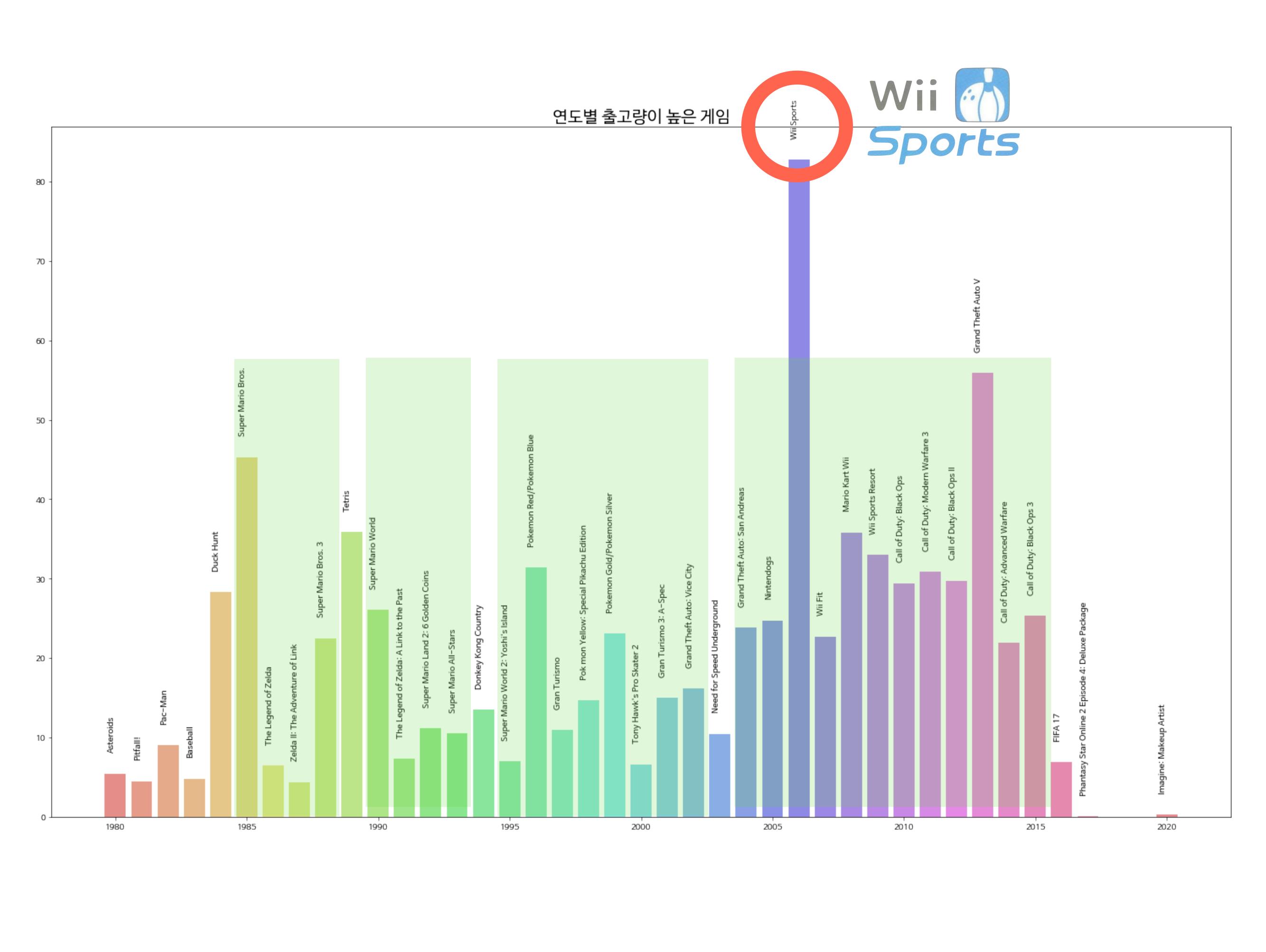
83M



56M



40M



Trend Similarity "Series"















Data Preprocessing

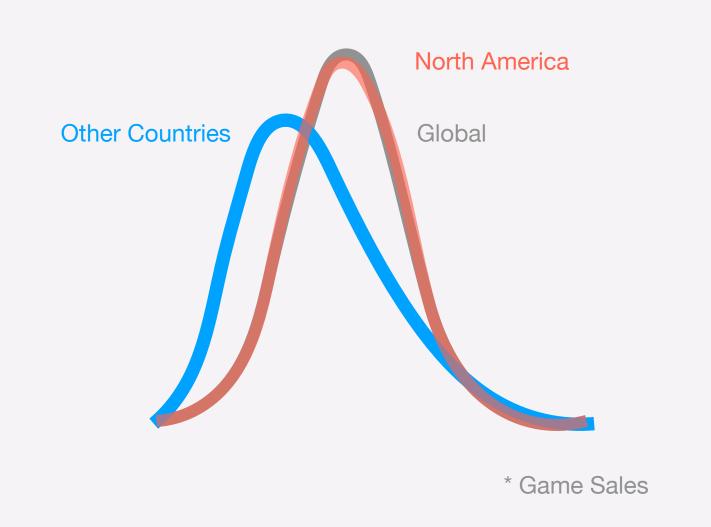


Missing Data & Outlier

Compared to other countries,

North America

has a similar correlation to the statistics of all countries.









Shooting

Which game had a good sales record?

* 1980 ~ 2019







83M

56M

40M

The most popular game platform



PlayStation 2 & PlayStation 3

2169M





The Publisher that sold a lot of games.



It seems to sell various game genres rather than action genres.

This statistic was overwhelming.

The ranking of Publisher based on Action genre sales.





Take - two interactive Publisher is the No. 1 action genre.

North America likes Action genre a lot.



Trend Similarity

"Series"







Since 2004

The Action genre has become a trend in video games.

다음 분기에 어떤 게임을 설계하는 것이 좋을까

액션 장르의 롤 플레잉적인 요소가 포함되어있는 시리즈물 게임









