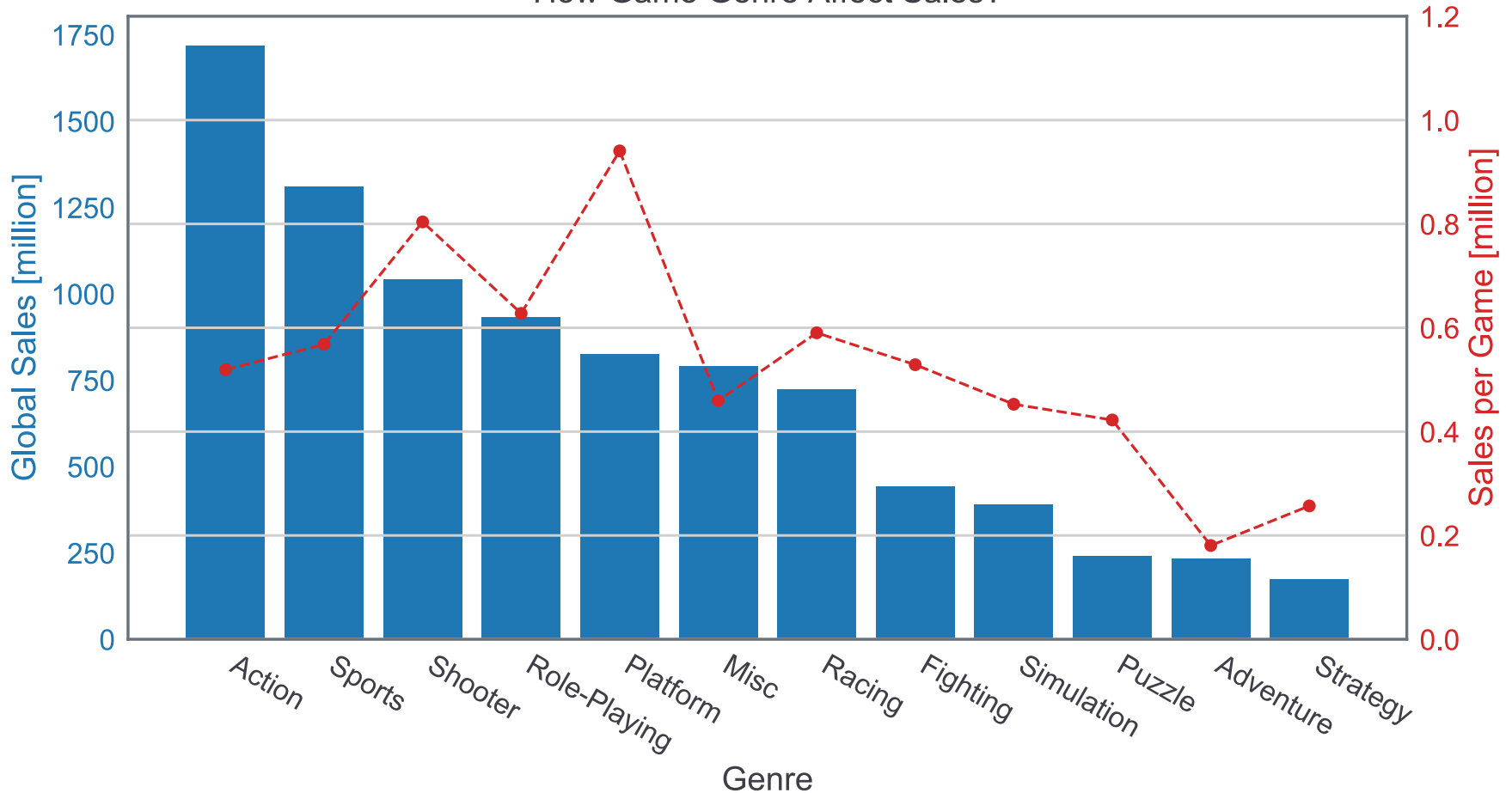
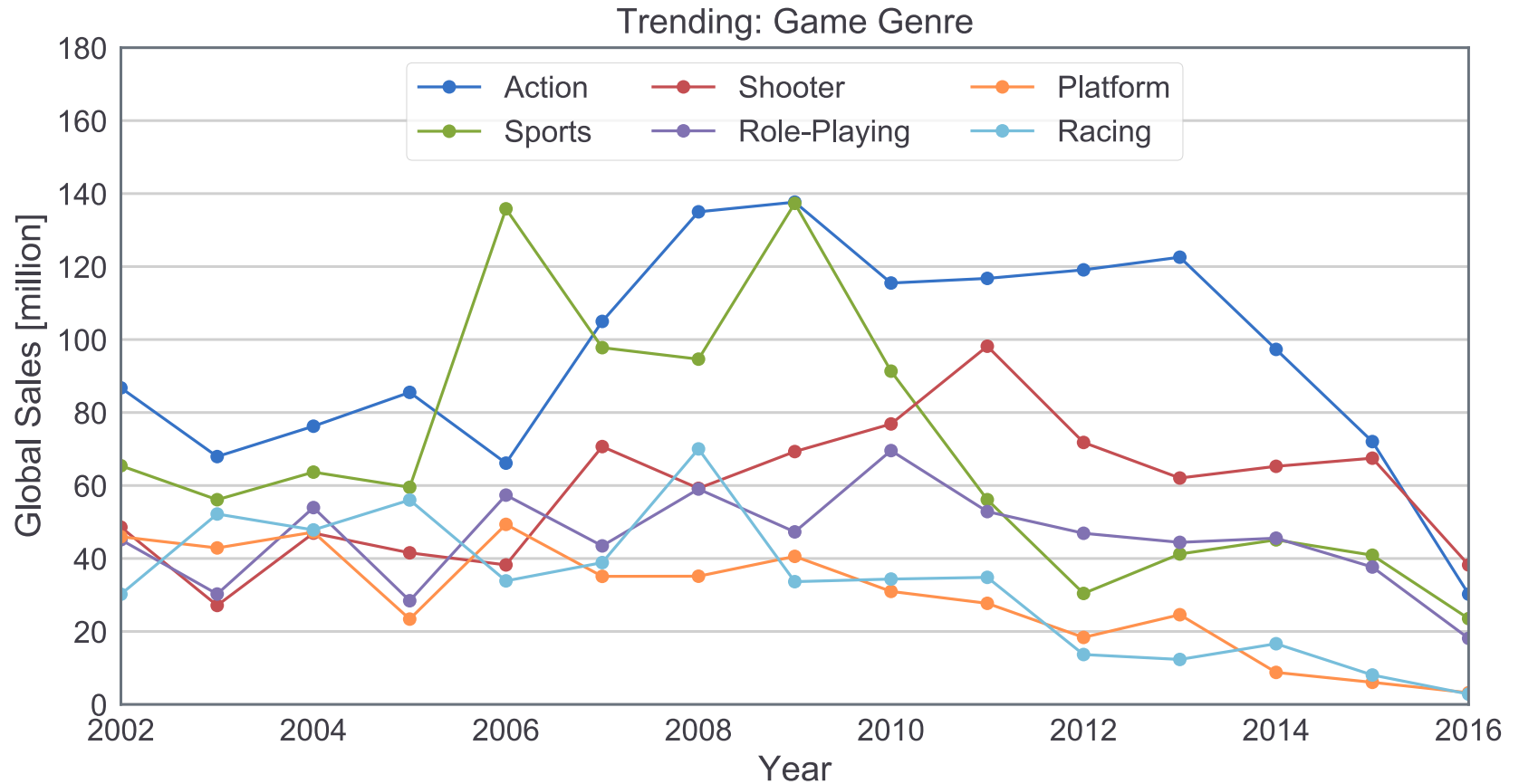


- Video game industry keeps **thriving** these years;
- Many **game companies** need market researches;
- Websites like Metacritic have the data, but those data are **not well organized or visualized**;
- My preliminary analyses provide insights on:
genre, platform, release country and rating;
- Goal is to build a webpage to provide game company with **intuitive information**.

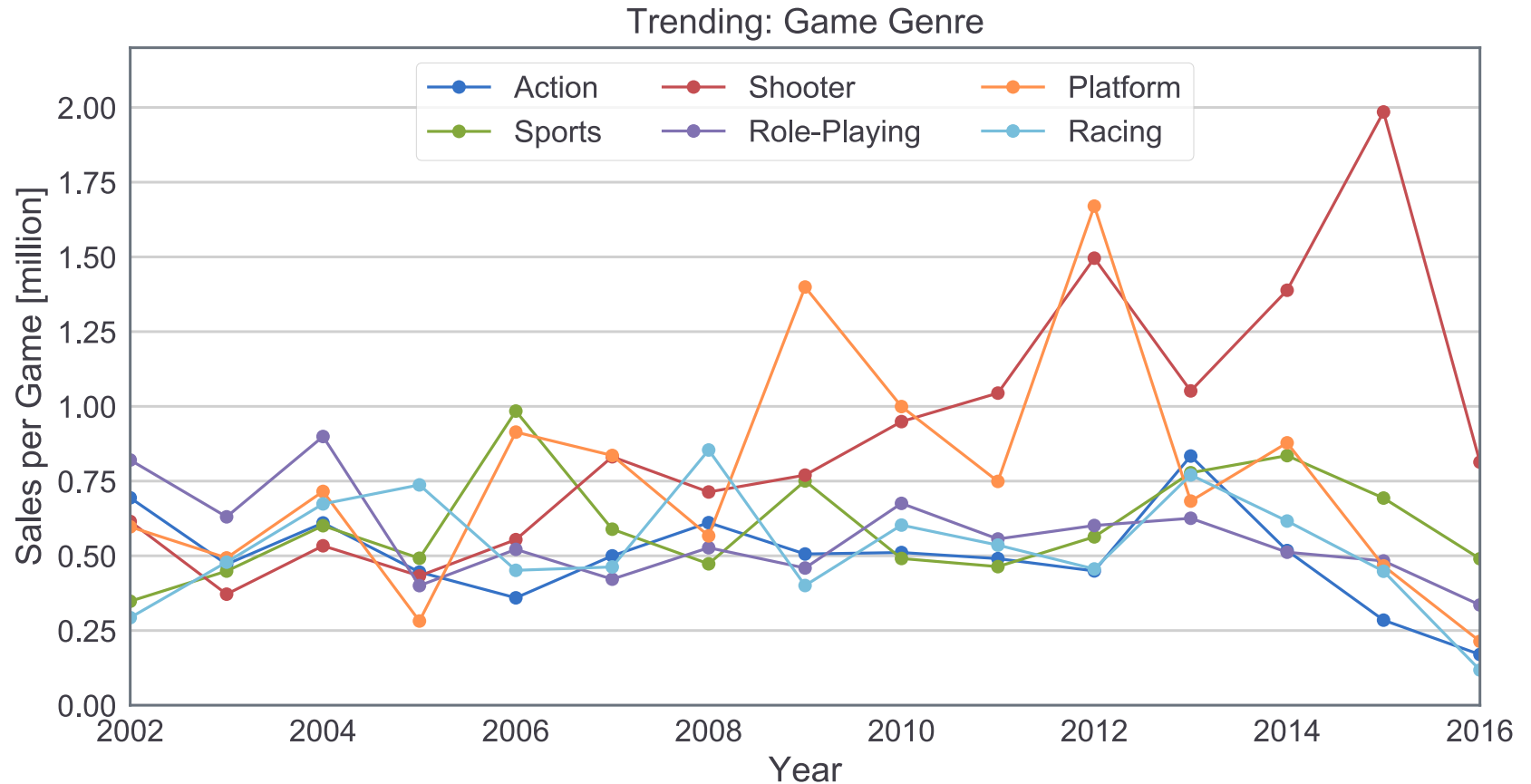
How Game Genre Affect Sales?



- Action, sports and shooter have largest sales;
- But platform has largest sales per game.

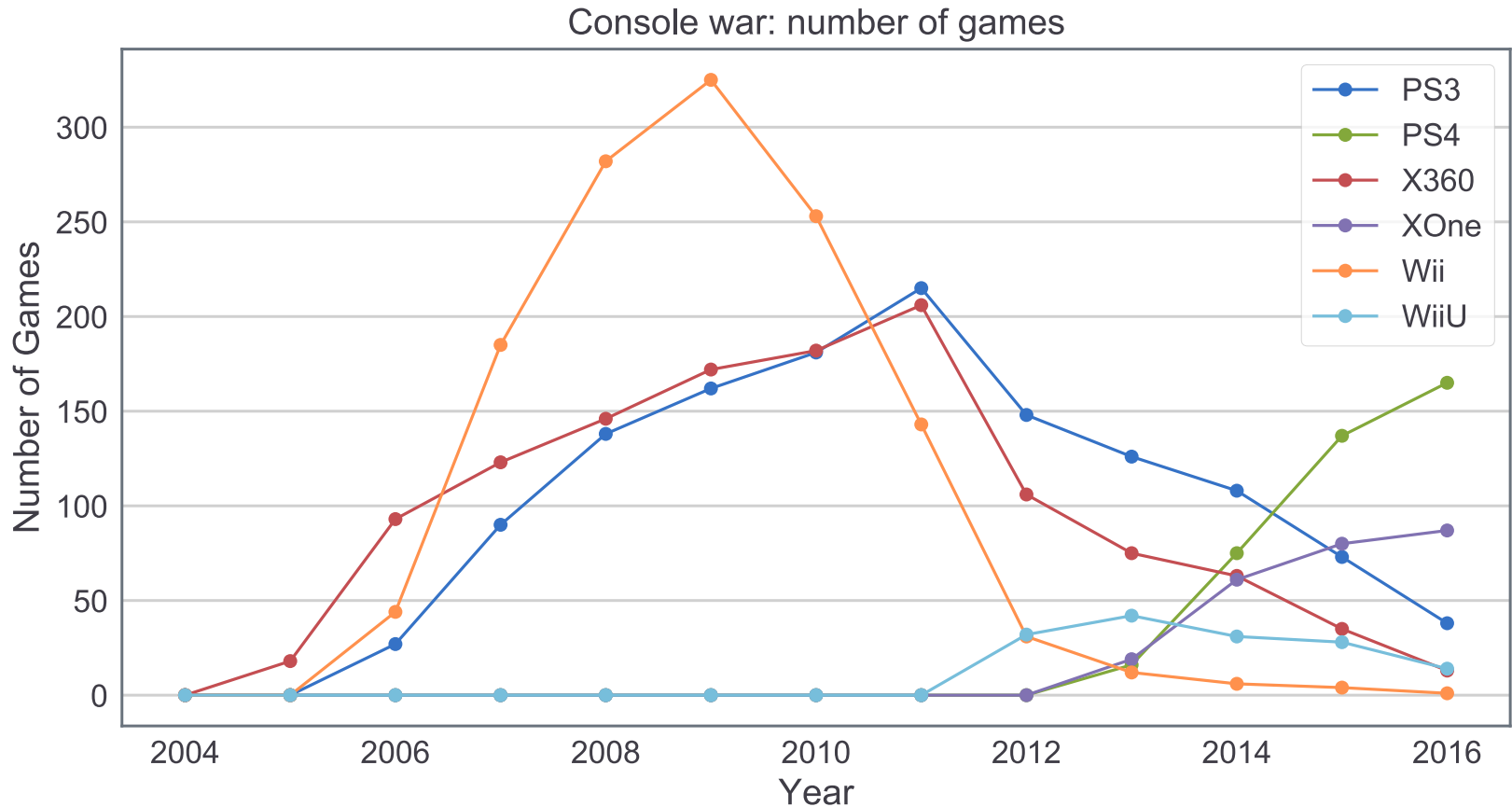


- Sales of most genres **dropped** after 2009;
- **Action** games sales dropped dramatically.

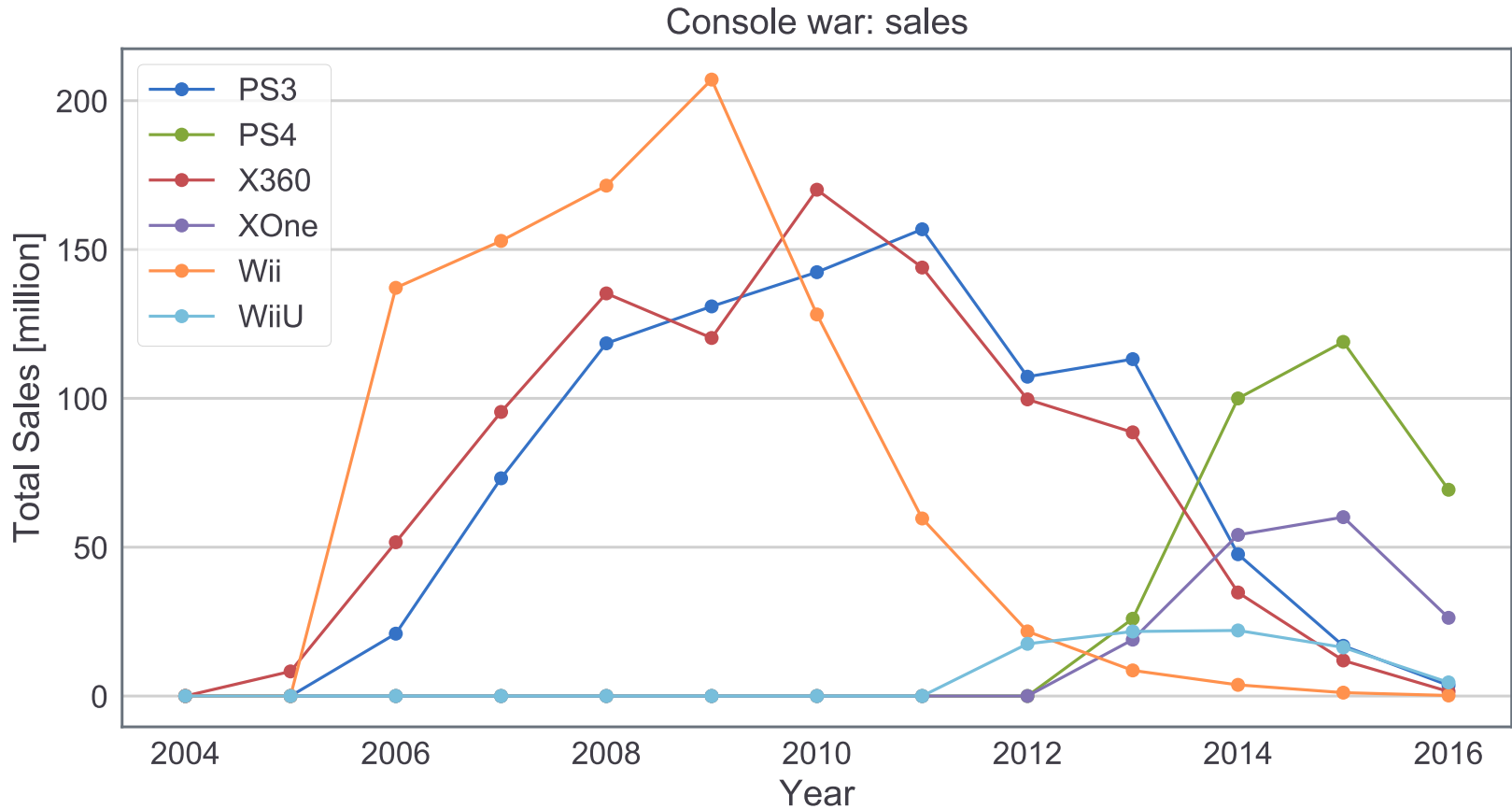


- Sales per game **oscillate**: no big drop;
- **Shooter** games sells best recently;
- Market in **platform** game seem to saturate.

- **Conclusions and suggestions on game genre:**
 - **Action** game dominates total sales, but sales dropped in recent years;
 - **Shooter** game perform well recently, though 2017 and 2018 data needed for confirmation;
 - **Oscillations** observed in sales per game: not wise to release same genre every year;
- **Future work:** digital downloads will impact traditional sales, need to check the data accuracy: learning scraper...



- In last generation, much more games released for Nintendo **Wii**;
- In this generation, **Wii U** no longer supported by many games;
- **PS4** wins over **XboxOne** by a large margin: more games on PS4.

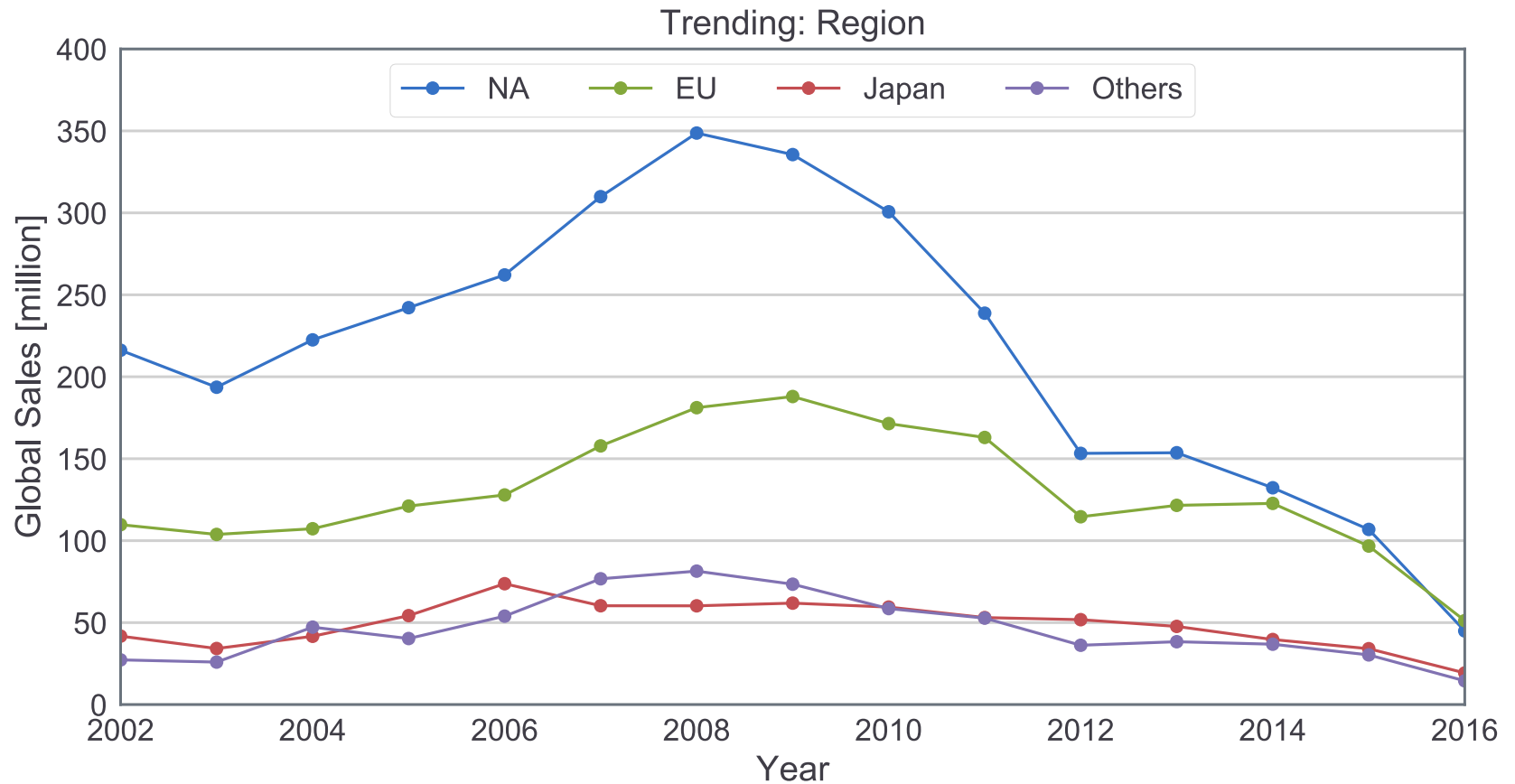


- Global sales have the same story
 - Last gen: **Wii > PS = Xbox**
 - This gen: **PS > Xbox > Wii**

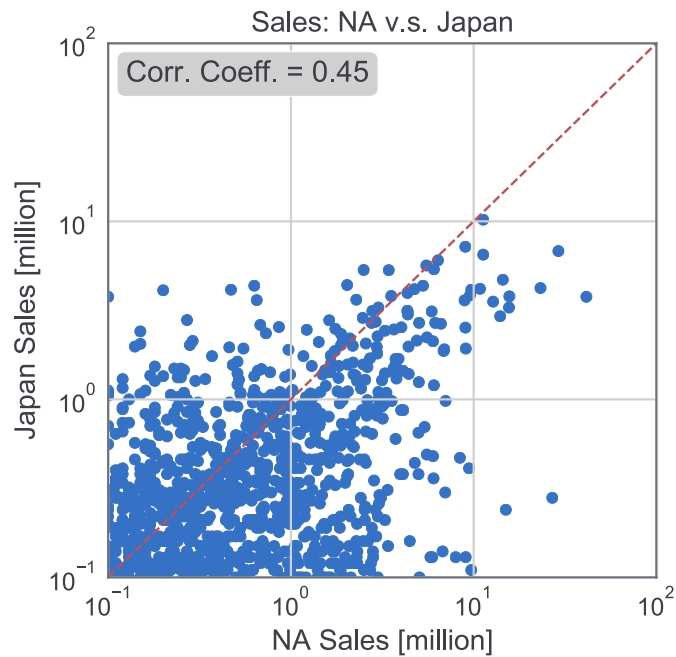
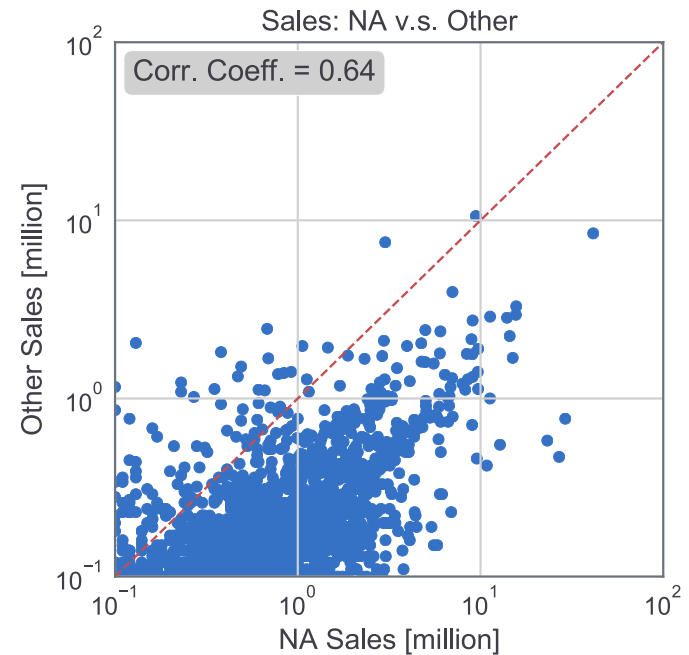
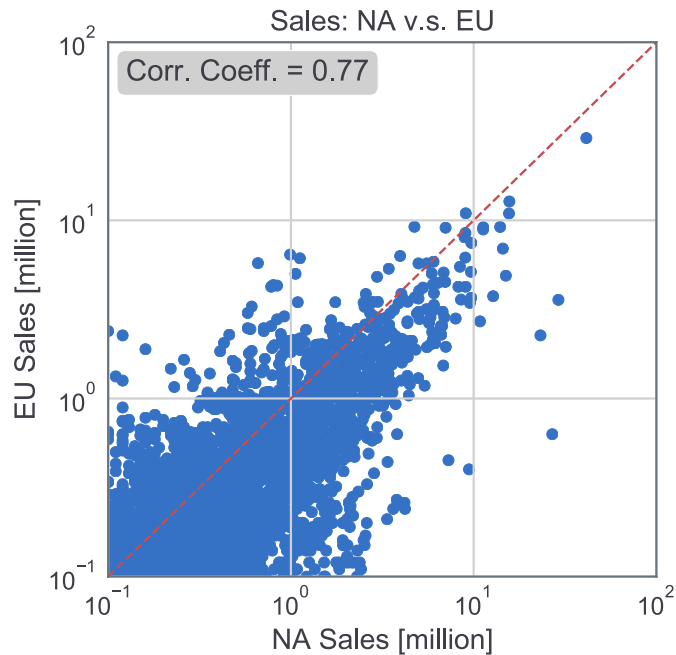
- **Conclusions on console war:**

- Nintendo did great with **Wii**, but **Wii U** is a big failure: innovation v.s. hardware?
- Sony's **PS** perform stably, it beats Xbox in this gen's competition: exclusive games?
- Microsoft lost the console war against Sony: **Xbox One** needs better hardware?

- **Future work:** three improved consoles were released last year: Switch, PS4 pro and Xbox One X. They were trying to solve the issues mention above. Data will tell the outcome.

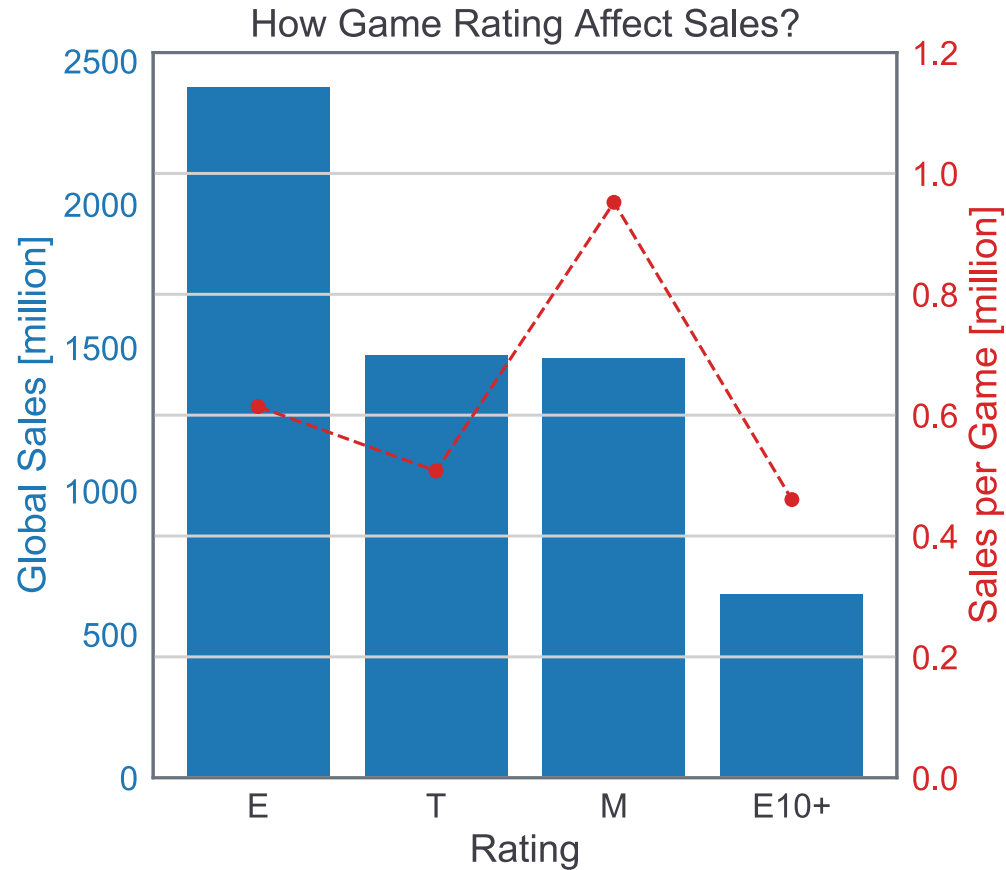


- Global sales: $NA > EU > Japan = Others$;
- All market shrinks in recent years, especially in NA .



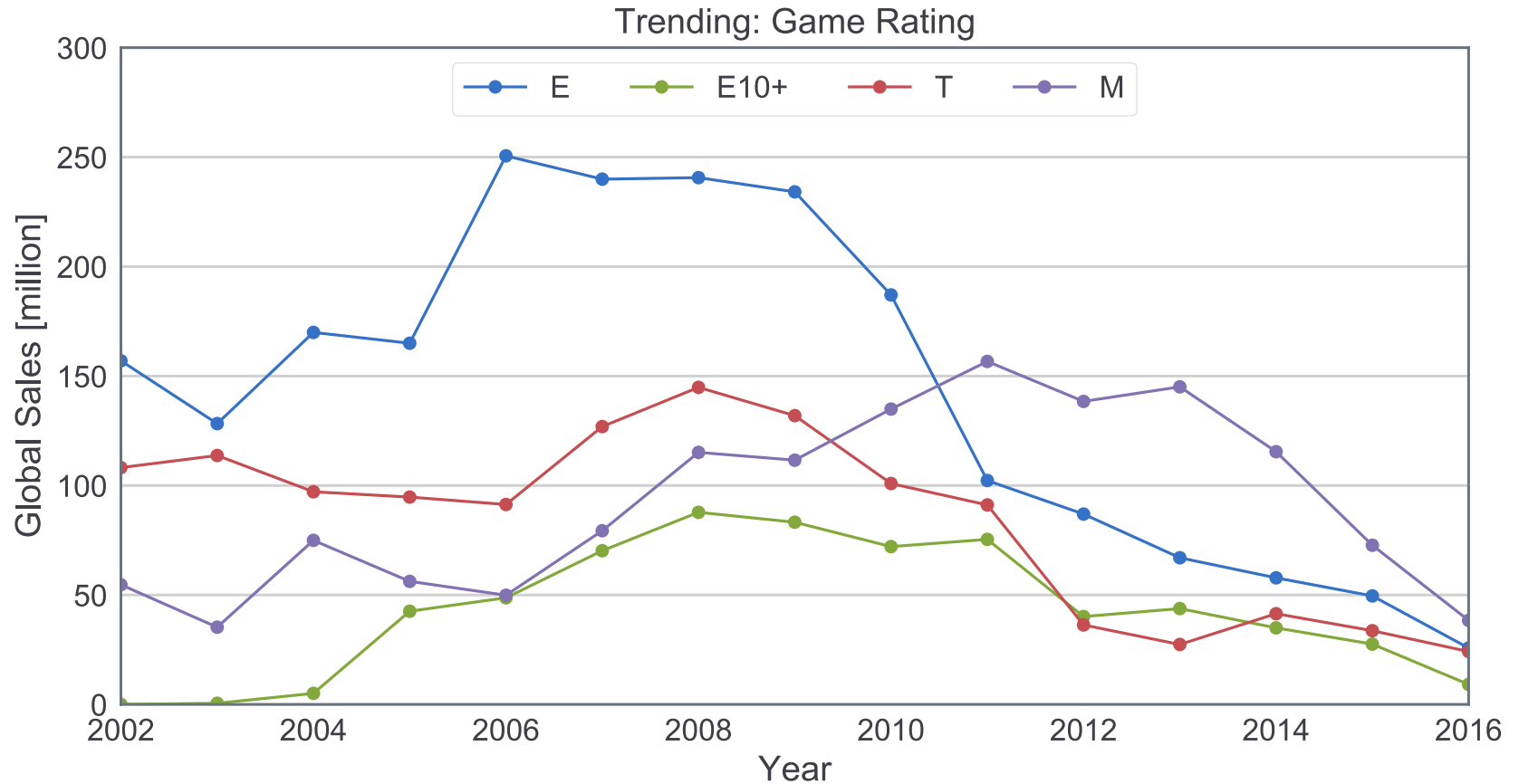
- Correlation between **NA** and **EU** markets is quite strong;
- **NA** market weekly correlated with **Japan** market;
- Clear offset observed in **other regions** compared with **NA**.

- **Conclusions and suggestions on regional sales:**
 - **NA** market has much more shares than EU, Japan or others;
 - Markets in all regions shrink in recent years: impact from digital downloads?
 - **NA** market is more correlated with EU, and localization in Japan or other regions might not be profitable
- **Future work:** players in different regions have different taste, more careful analyses will help promote new games.



E: Everyone
T: Teenage
M: Mature

- Overall, rating E sells the best;
- Rating M sells most per game;



- Rating E sales dropped significantly after 2009;
- Rating M dominated the market after 2009;

- **Conclusions on game rating:**
 - 10 years ago, most games are **rated E**;
 - Now game market is flooded with **rated M**;
 - No surprise since adults have the money to invest on games, and people look for thrilling in games.
- **Future work:** analyze why sales with rated E are dropped dramatically in recent years. Maybe this goes together with the fall of Nintendo, since Nintendo is famous for making good rating E games.