

Steam Friend Recommendation

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April 28, 2016

Valve Corporation

- Game developer
- Launched Steam in 2003
- 8 to 10 million daily users
- Wide game variety
- Sparse community profiles

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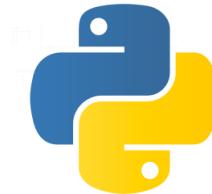
Valve Corporation

- Game developer
- Launched Steam in 2003
- 8 to 10 million daily users
- Wide game variety
- Sparse community profiles
- No friend recommendation system

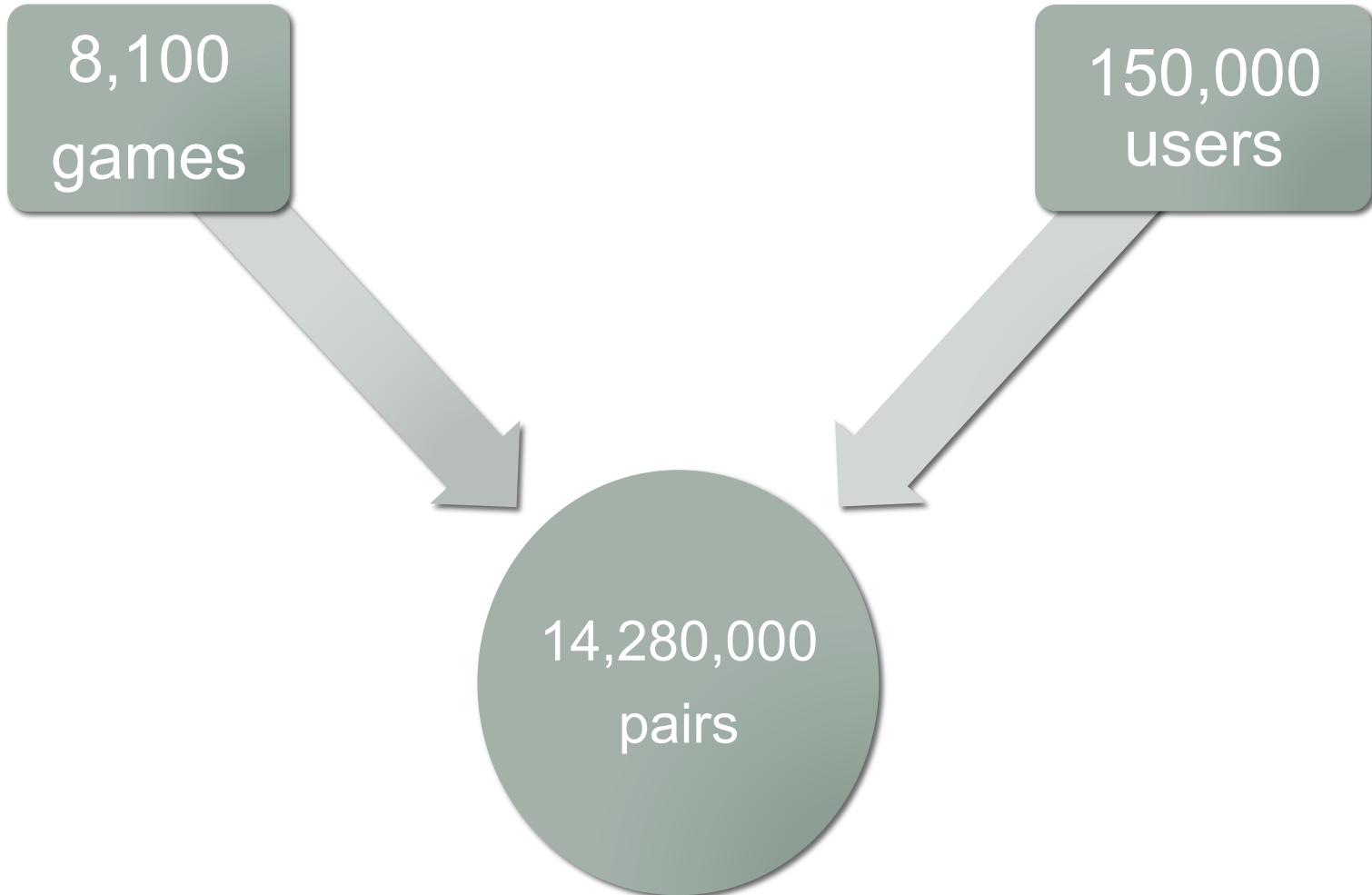


Data Collection

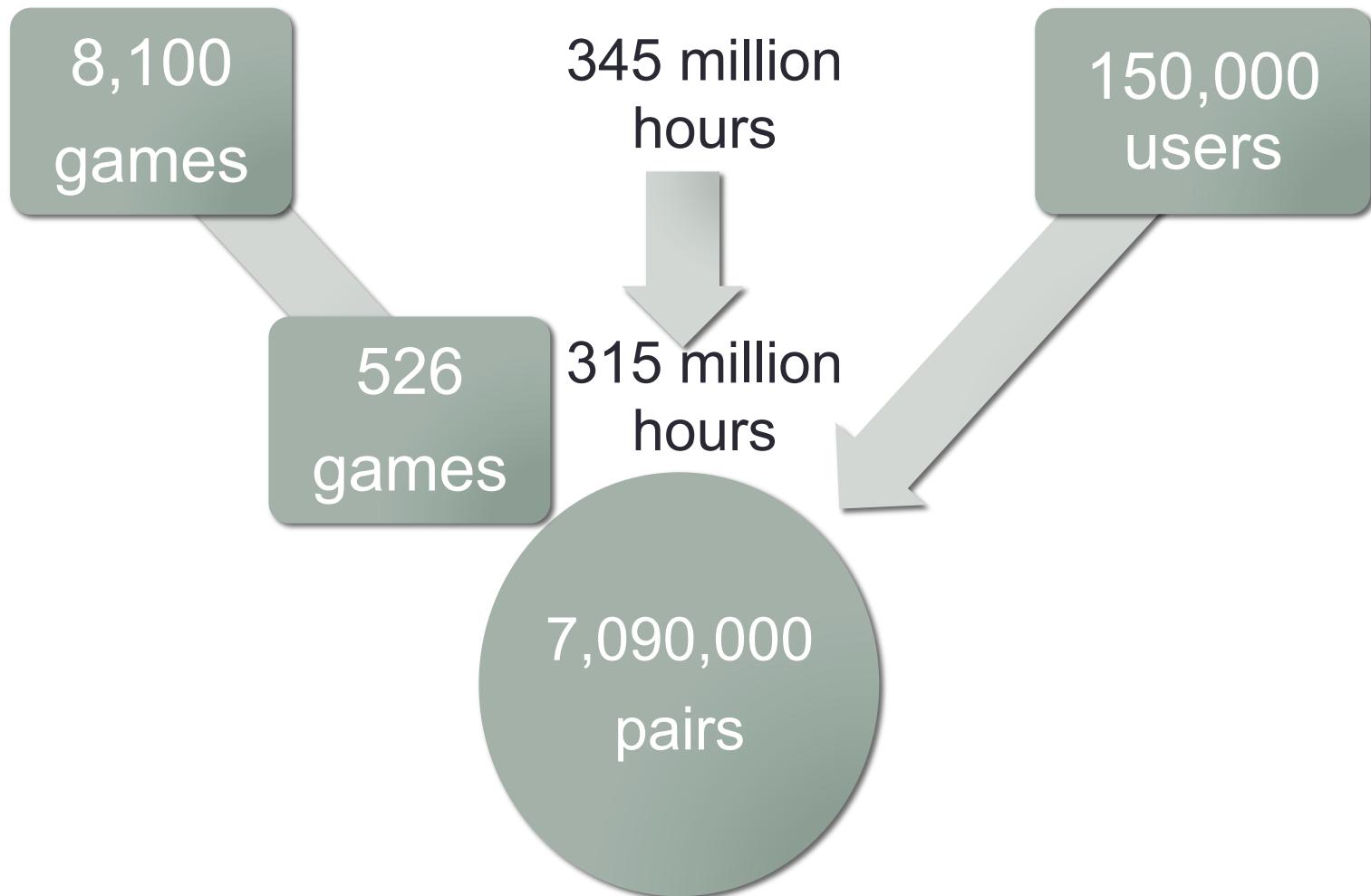
- Steam Developer API
 - GetFriendsList
 - GetPlayerSummaries
 - GetOwnedGames
 - GetPlayerBans
- Web Scraping
 - Community profiles
 - Game reviews



Dataset



Dataset After Filtering



Playtime to Rating

- Player lifetime and recent two-week playtime
- Used to create explicit ratings

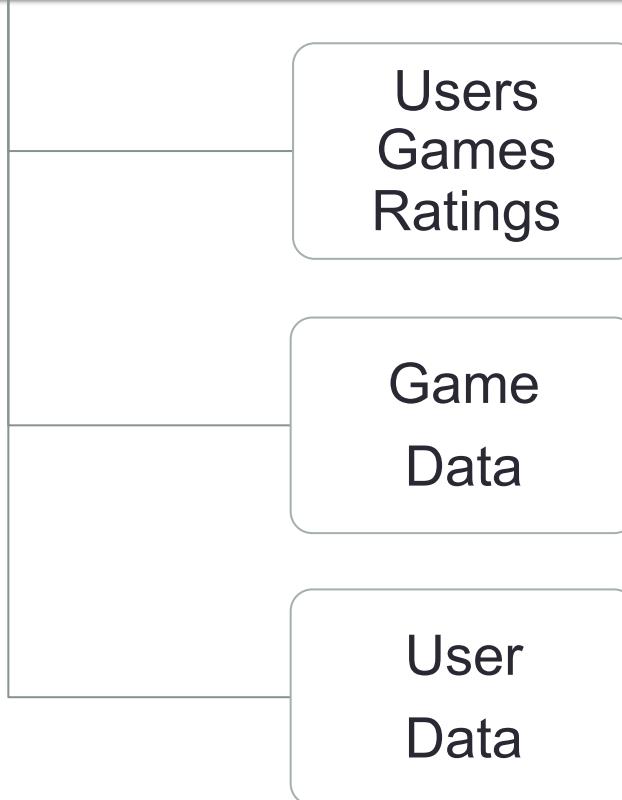
Playtime to Rating

- Player lifetime and recent two-week playtime
 - Used to create explicit ratings
-
- 0: 0 hours
 - 1: 0 - 1 hour
 - 2: 1 - 3 hours
 - 3: 3- 7 hours
 - 4: 7 - 15 hours
 - 5: 15 hours +

Modeling



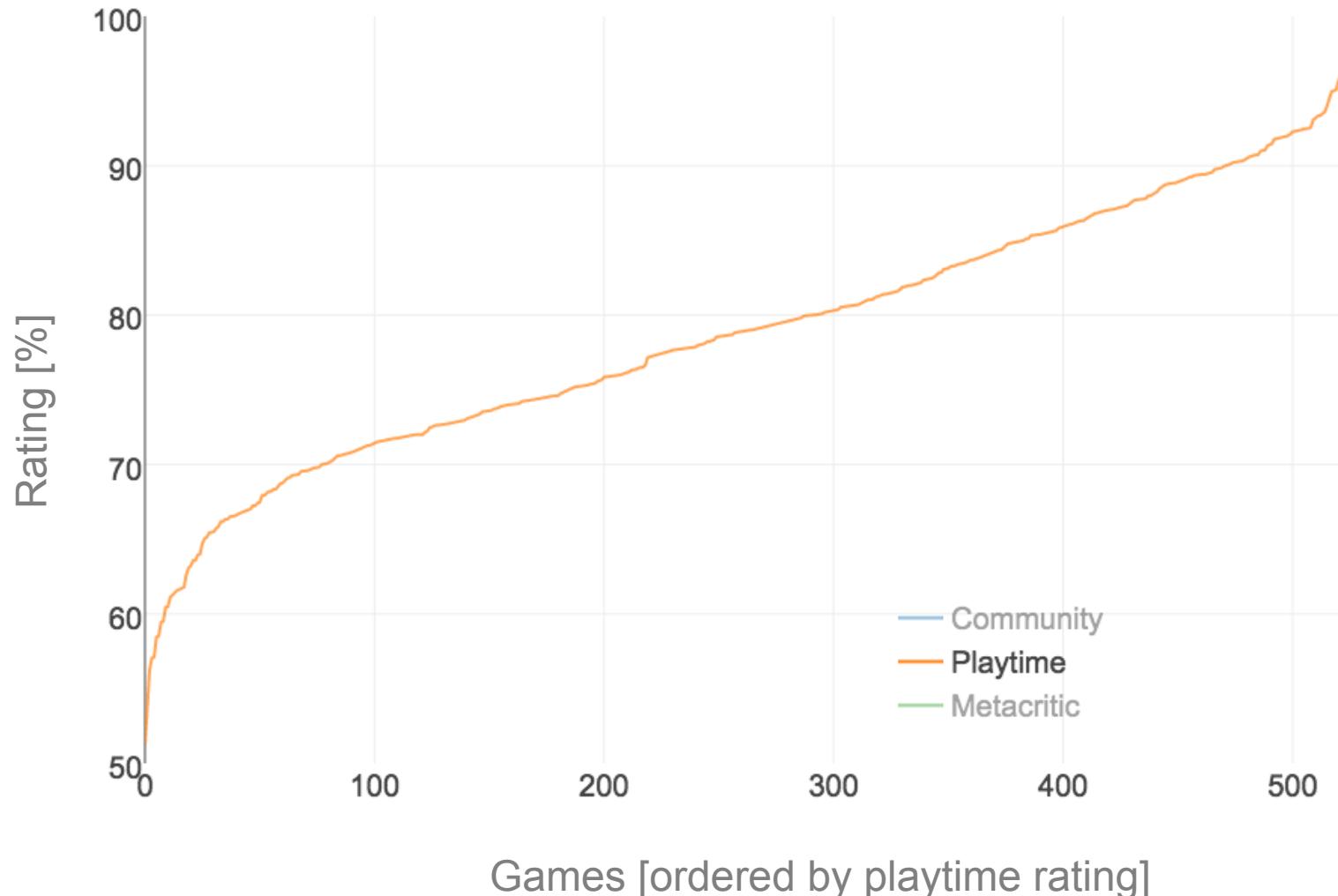
Factorization Recommender



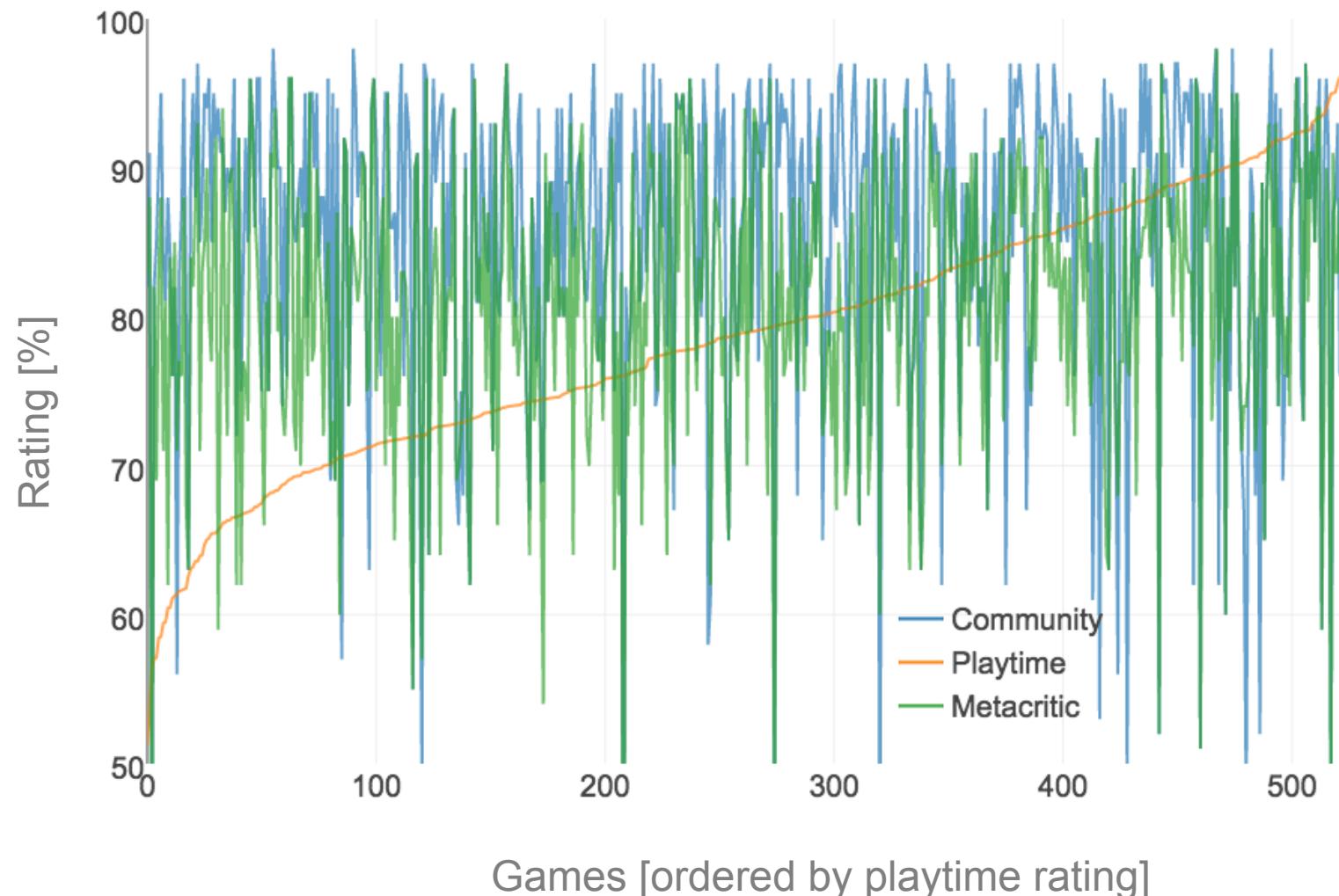
Result Example

Example User		Top Match	
Title	Genre	Title	Genre
Fallout: New Vegas	Action	Skyrim	RPG
Garry's Mod	Indie	Arma 2	Action
Payday 2	Action	Terreria	Action
DayZ	Action	DayZ	Action
Team Fortress 2	Action	Civilization V	Strategy
Blacklight: Retribution	Action	Kerbal Space Program	Indie
Planetside 2	Action	Team Fortress 2	Action
Warframe	Action	Starbound	Action
Unturned	Action	ARK: Survival Evolved	Action

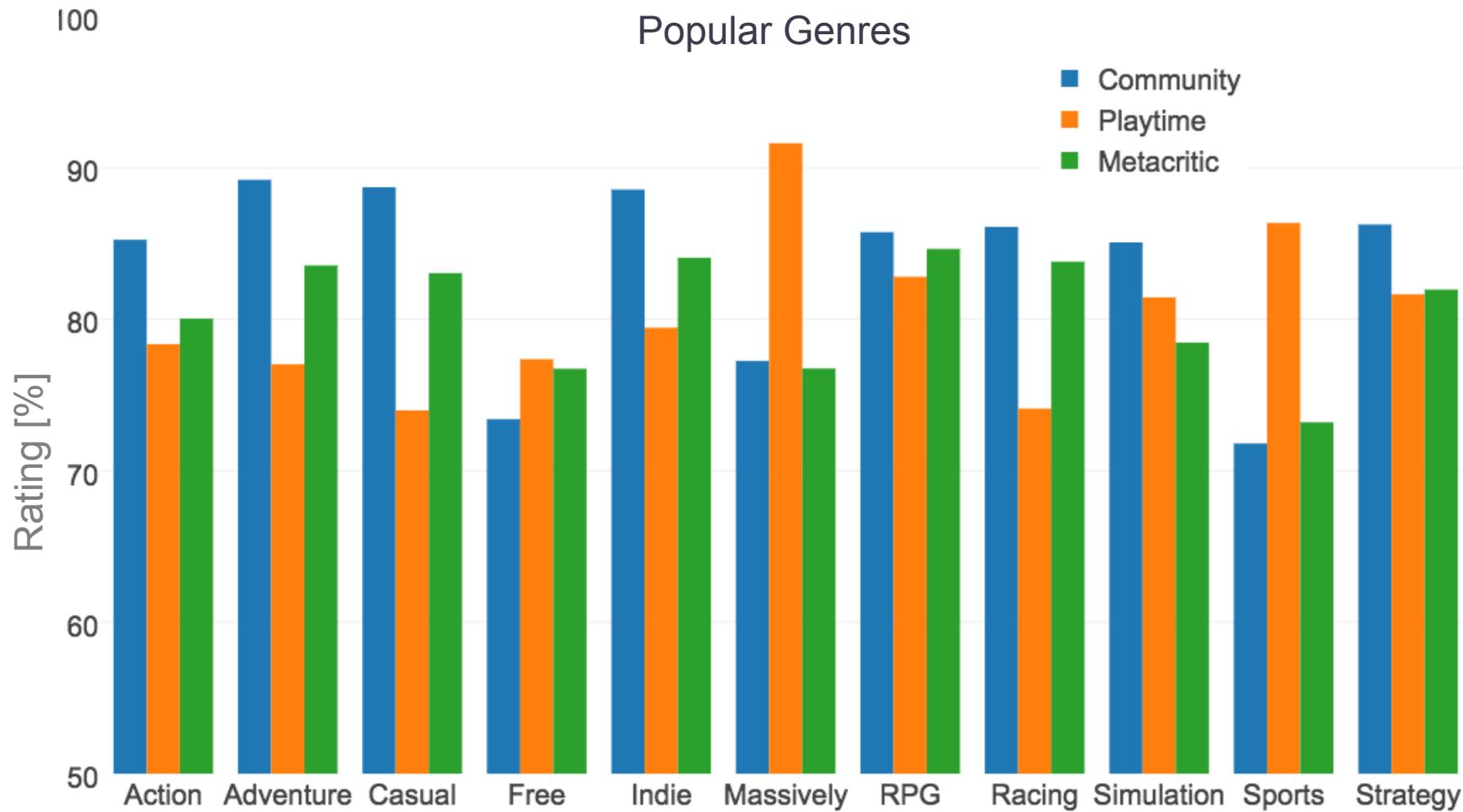
Playtime to Rating



Playtime to Rating

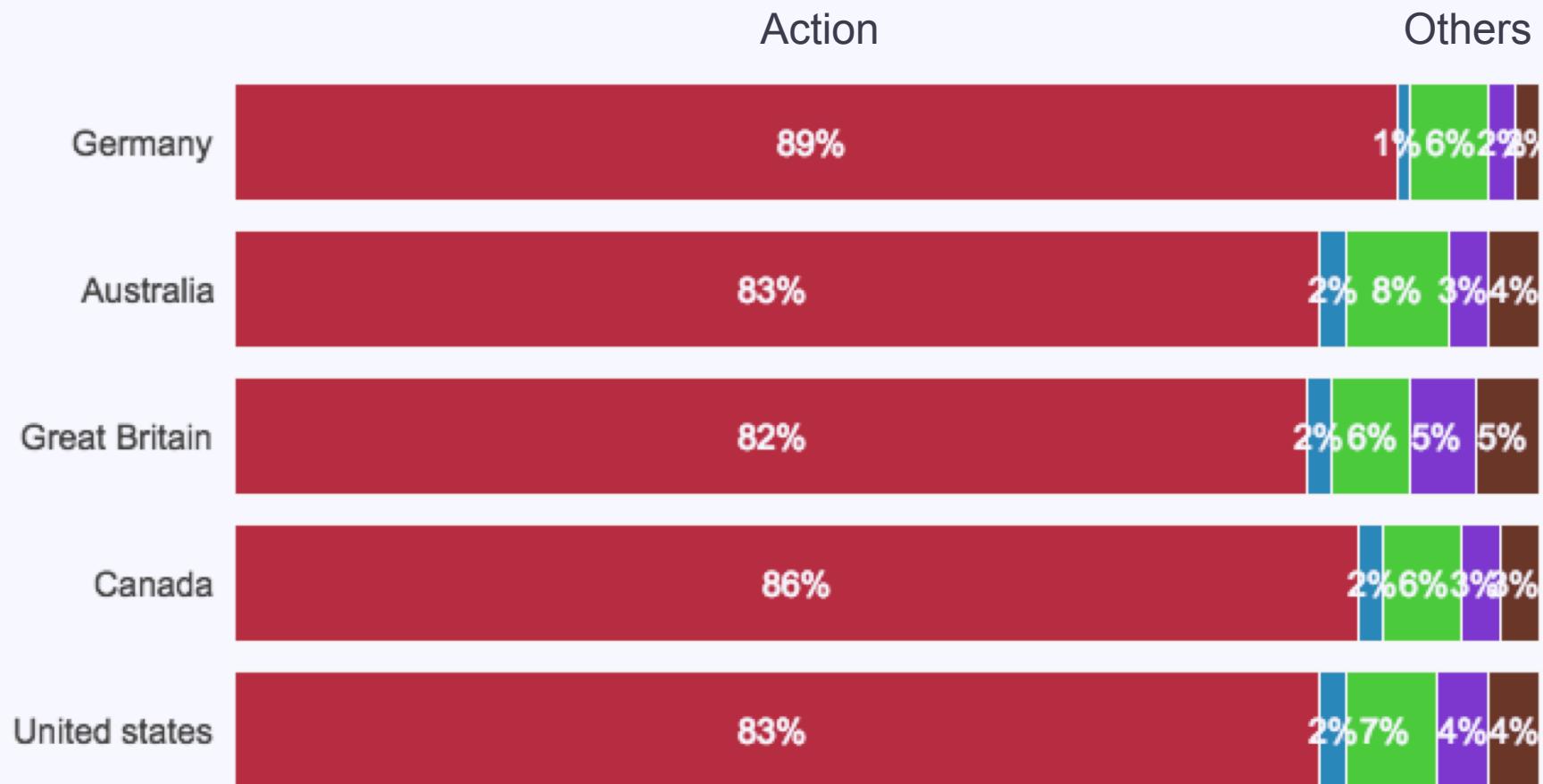


Playtime to Rating



Genres: Store

Top 5 Most Played Genres



Genres: Community



BattleBlock Theater	Counter-Strike: GO
Comedy	FPS
Co-op	Multiplayer
Platformer	Shooter
Funny	Action
Multiplayer	Team-Based

Future

- Interactive App
- Factor genre into playtime ratings
- Better model evaluation
- More refined genre definition
- User locations

Thank you

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