

Board Games Design Accelerator

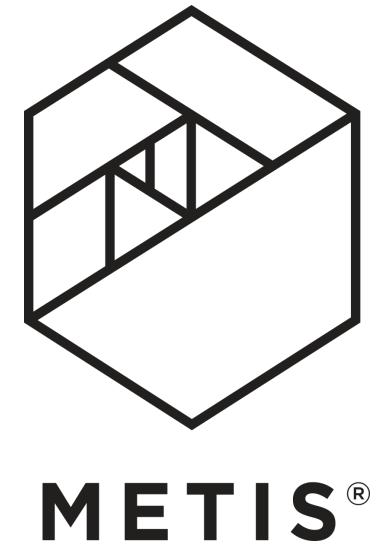
analysis for winter 2022/23

METIS Data Science and Machine Learning Bootcamp

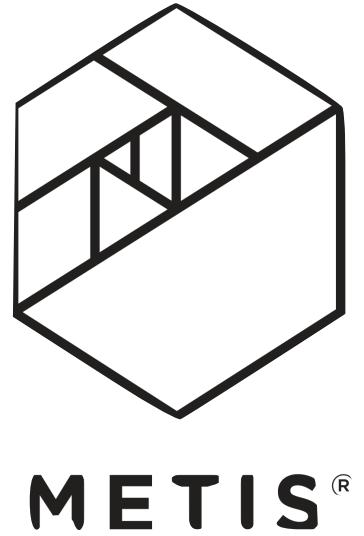
by Krystian Krystkowiak, 2022

Introduction

- Board game **market growth** from 2010 till now
- Winter lockdowns and power blackouts **increasing** board game demand
- **Opportunity** for game designers to capitalise
- GOAL: Identify **key features** of successful games **to improve and speed up** game design process

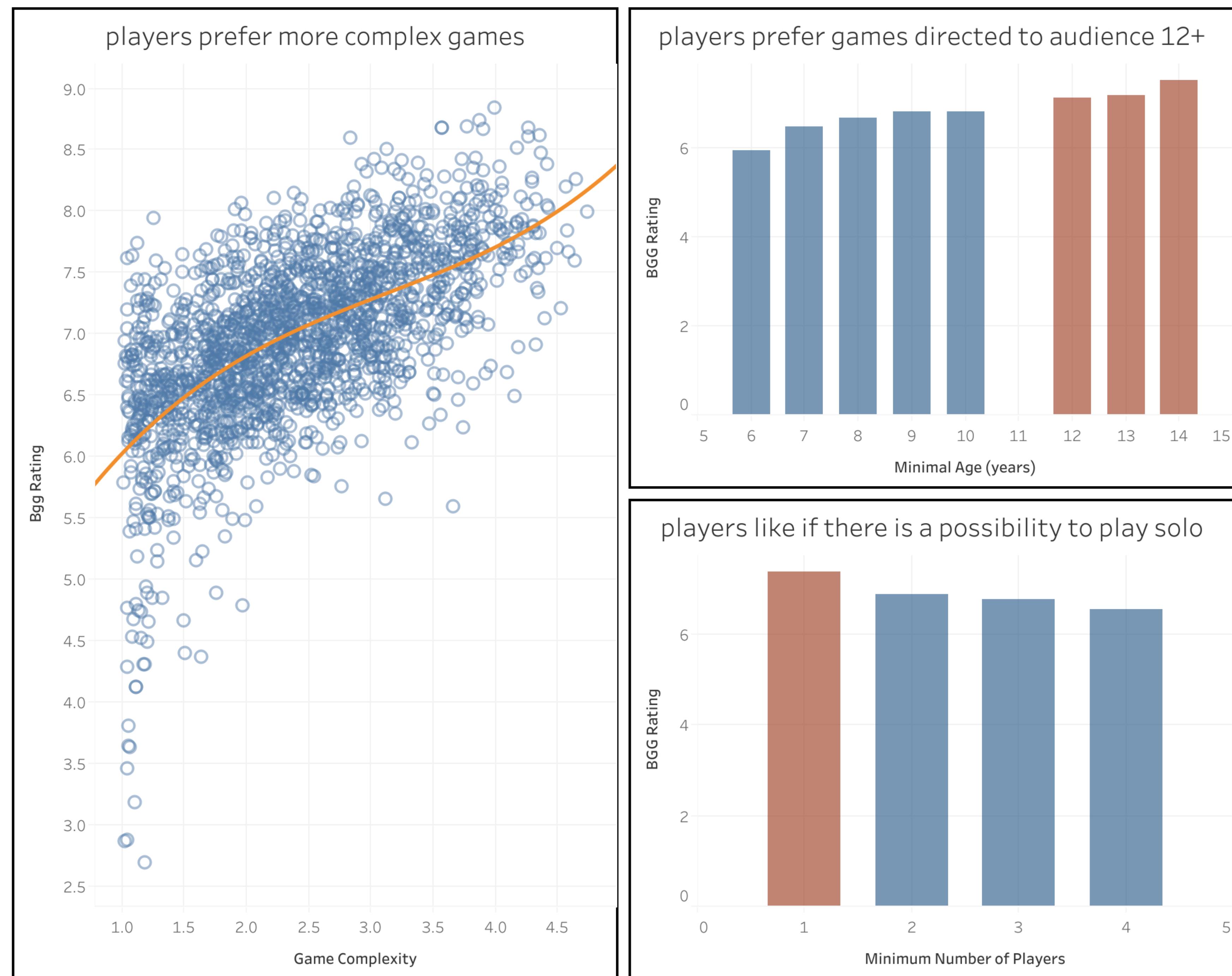


Methodology



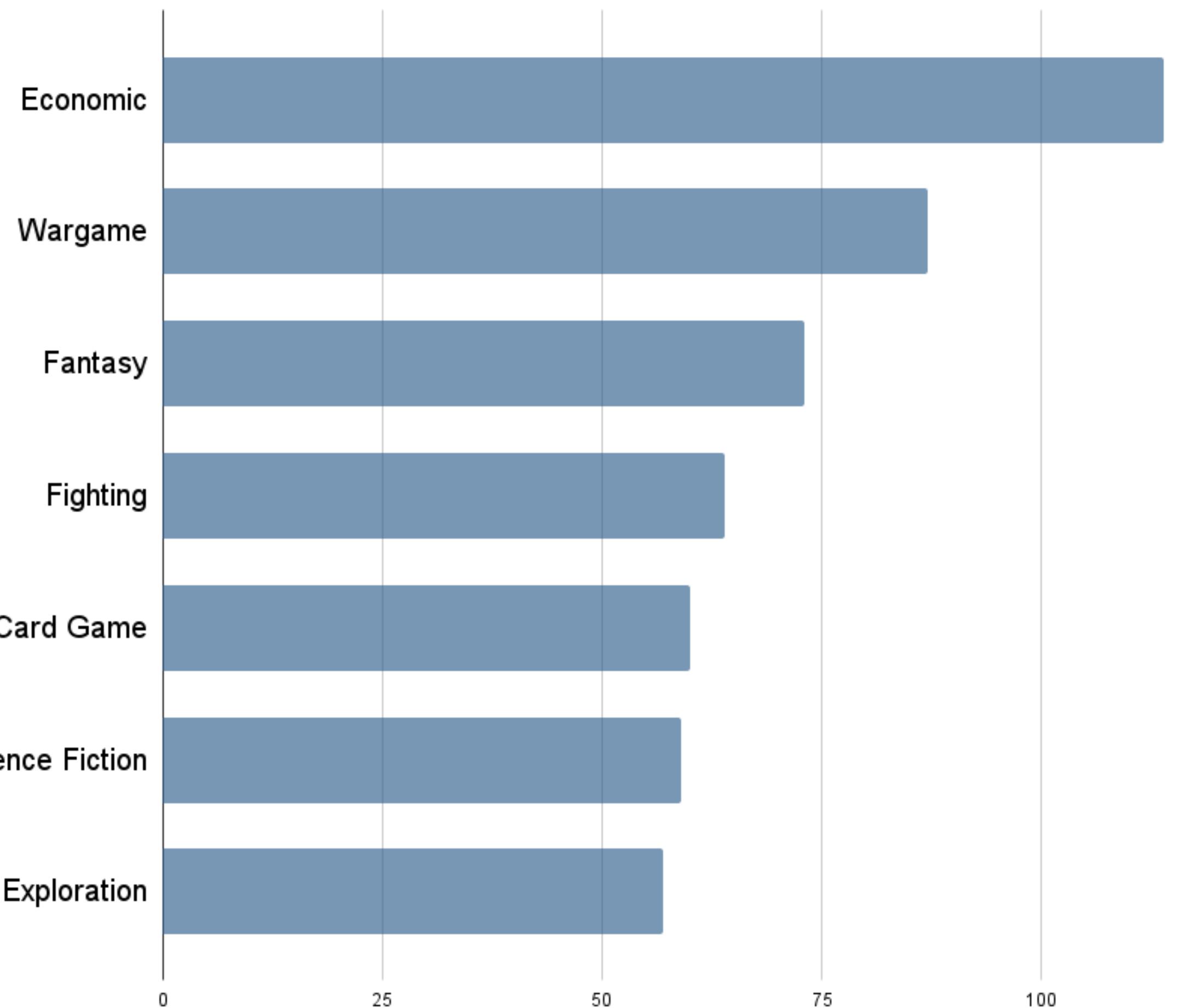
- Data sourced from **Board Game Geek** website via Kaggle
- **1822 games, 17 features** each examined
- Key features: name, **BGG rating**, themes, number of players, play time, complexity rating, and mechanics
- Filtered to games with **at least 1000 rating votes and 100 complexity votes**

Results

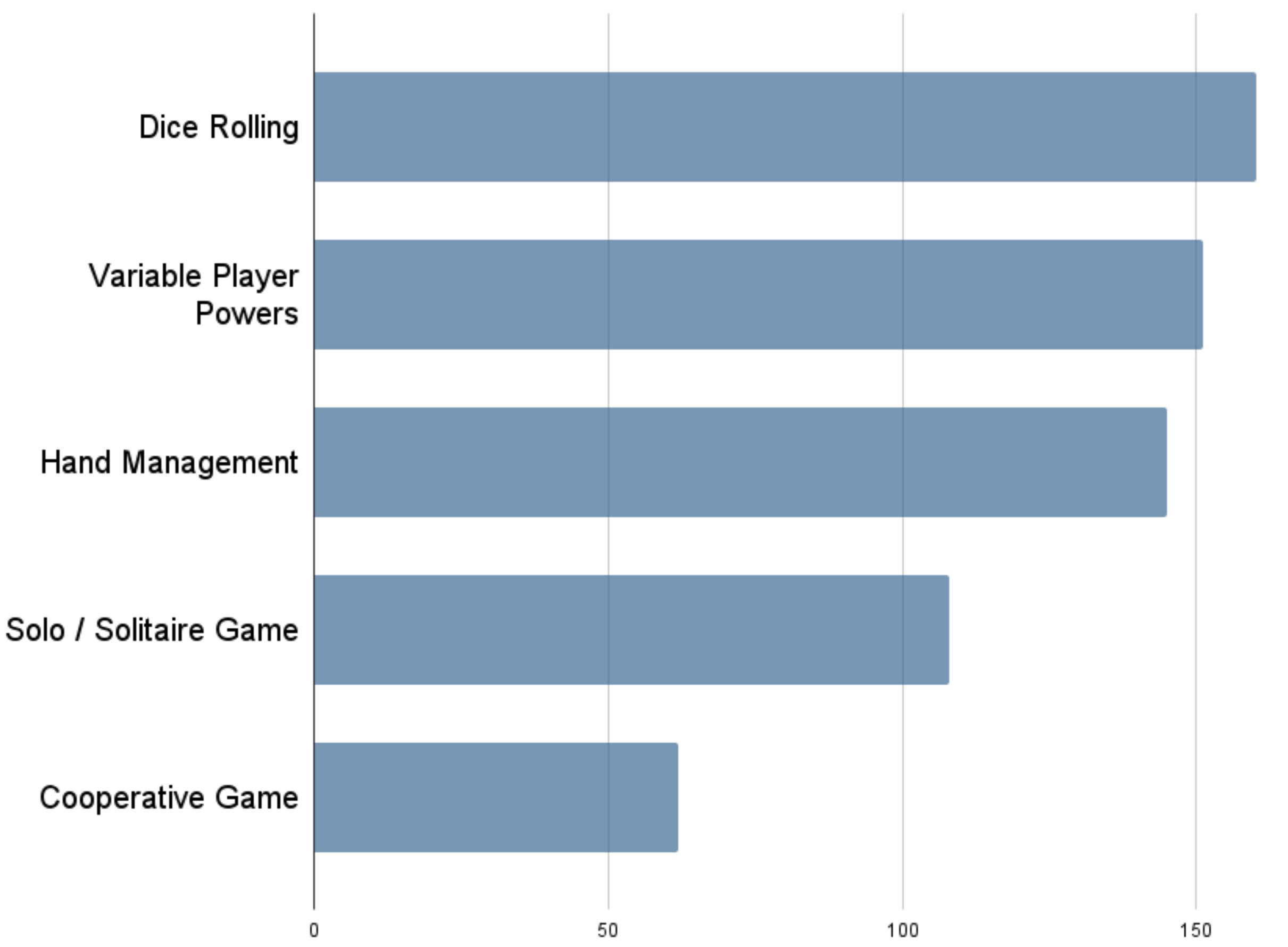


Results

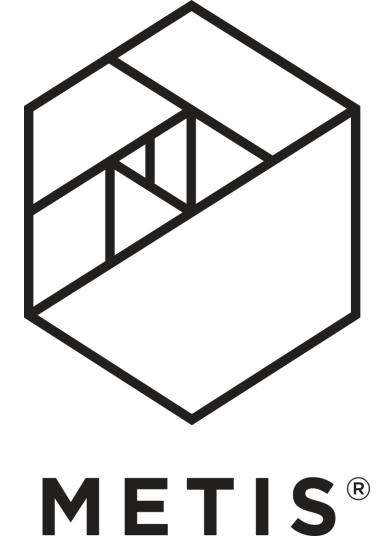
BGG Categories of high rated games (number of games)



Mechanics of high rated games (number of games)

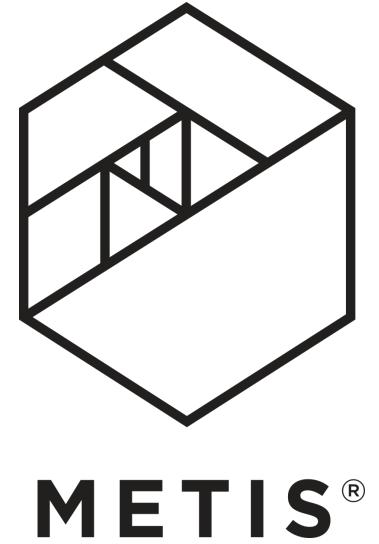


Conclusions/Recommendations

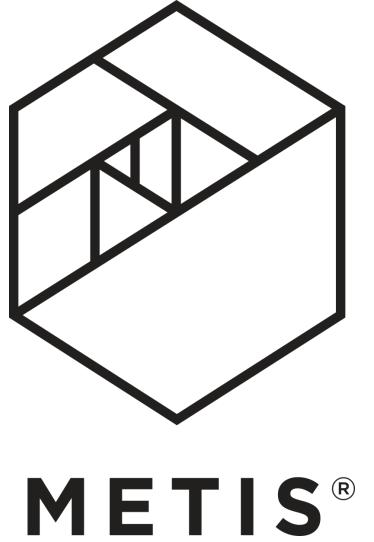


- Target audience: age **12+**
- Theme: **combination of recommended categories**
- Design: **solo to 5 players, 60+ min play time, higher complexity, combination of recommended mechanics**
- Title: **Many words**

Future Work



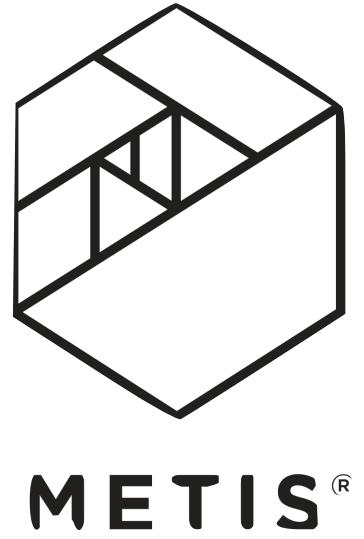
- Further analysis to **refine initial design decisions**
- Investigation of market **niches**
- Game design, theme, mechanics **generator**
- **Machine learning** to predict game success based on features



Thank you!

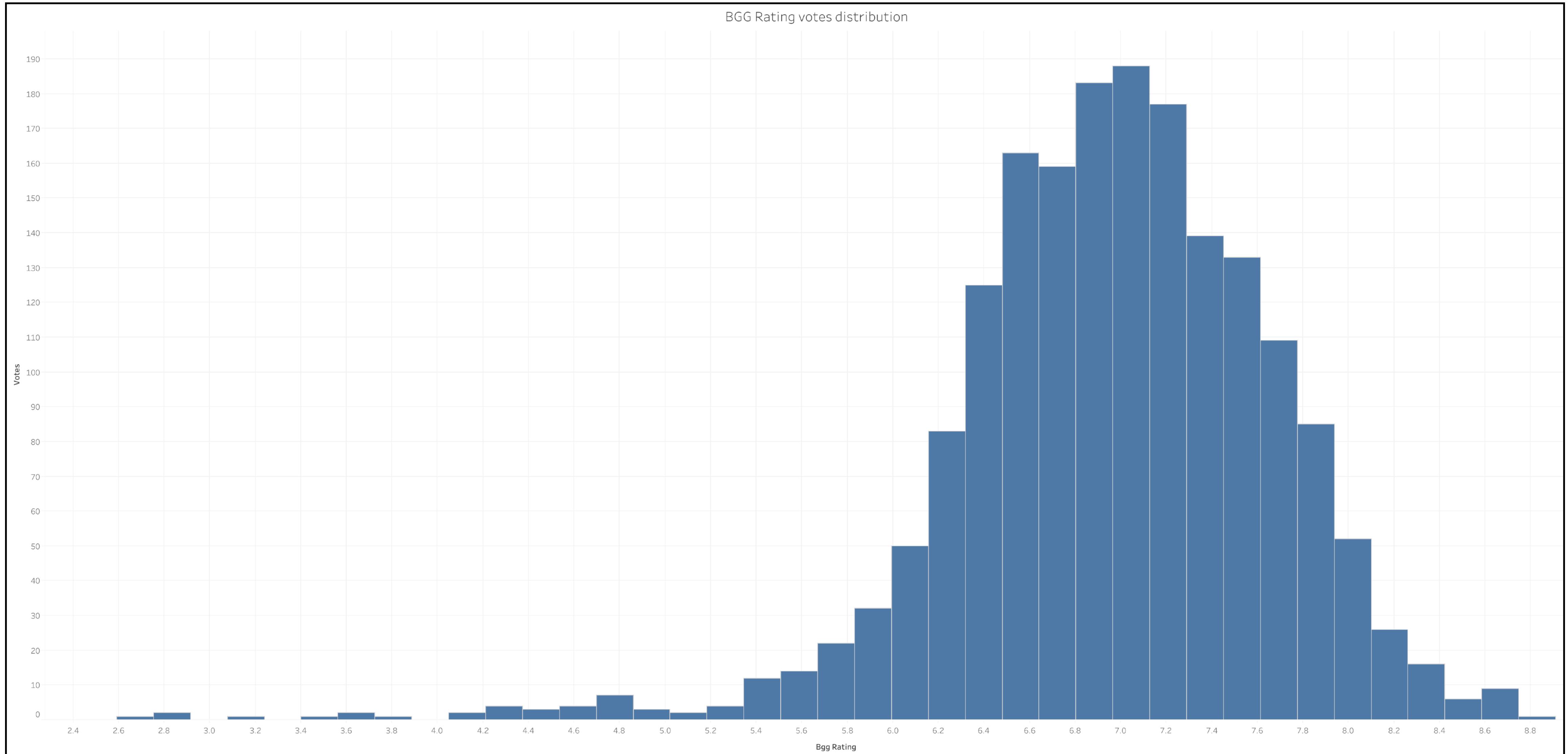
Questions?

Appendix

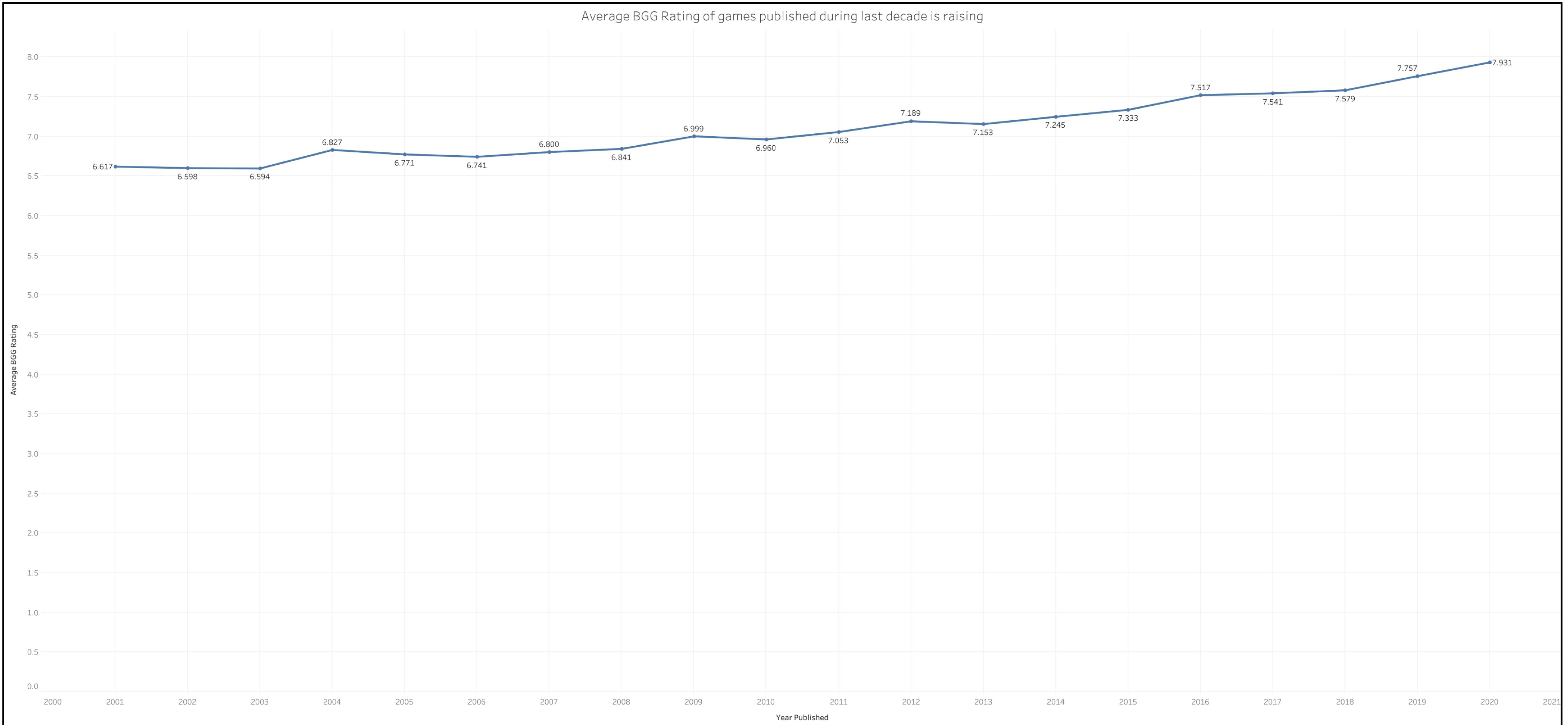


- Google sheets file with possibility of searching for games mechanics and categories depending on BGG rating of the game: <https://docs.google.com/spreadsheets/d/16DLsIraKjMeK2INhBotRjbkUvpUIMT2h0GEUT7ioyPo/edit?usp=sharing>
- Tableau: https://public.tableau.com/views/Metis-Project-3-Business-on-BGG/Dashboard4_1?:language=en-GB&:display_count=n&:origin=viz_share_link

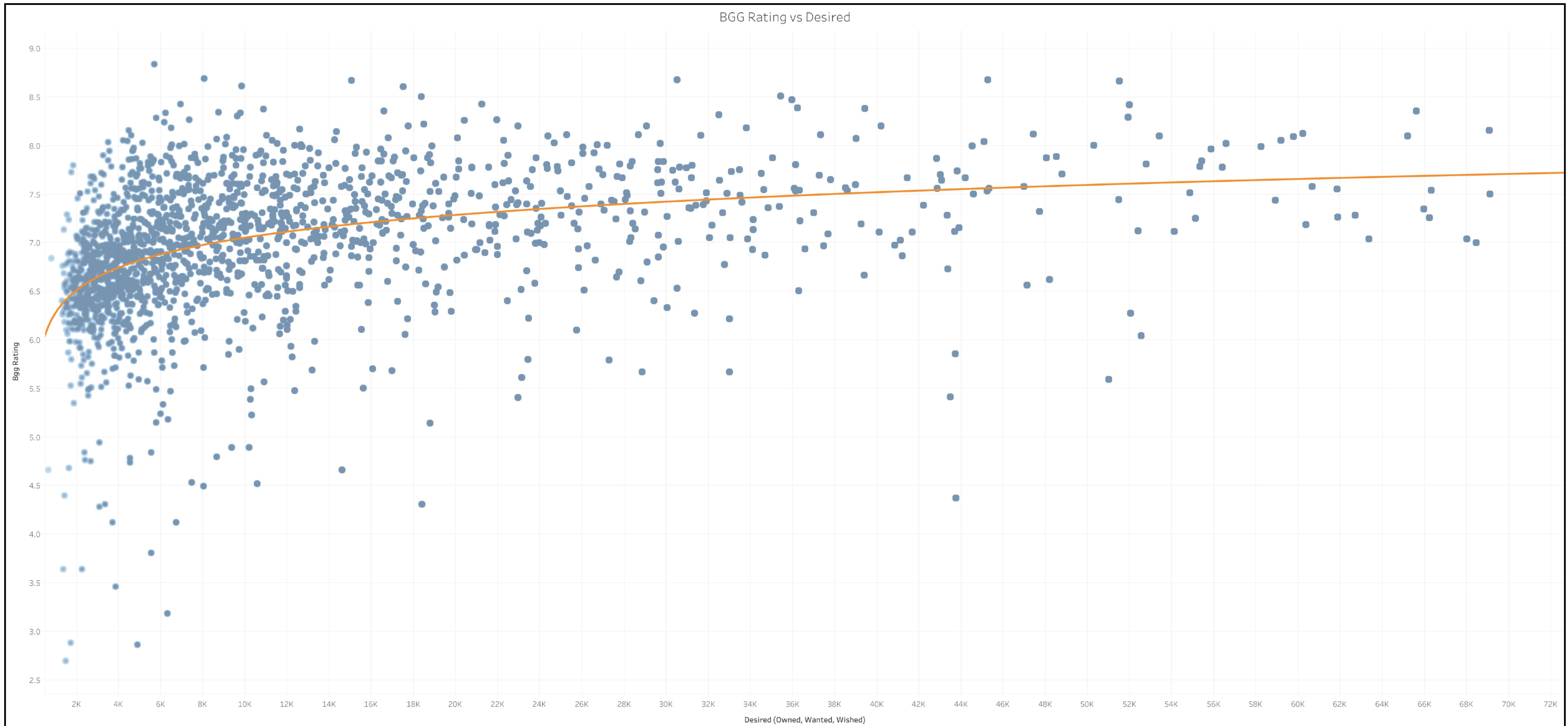
Appendix



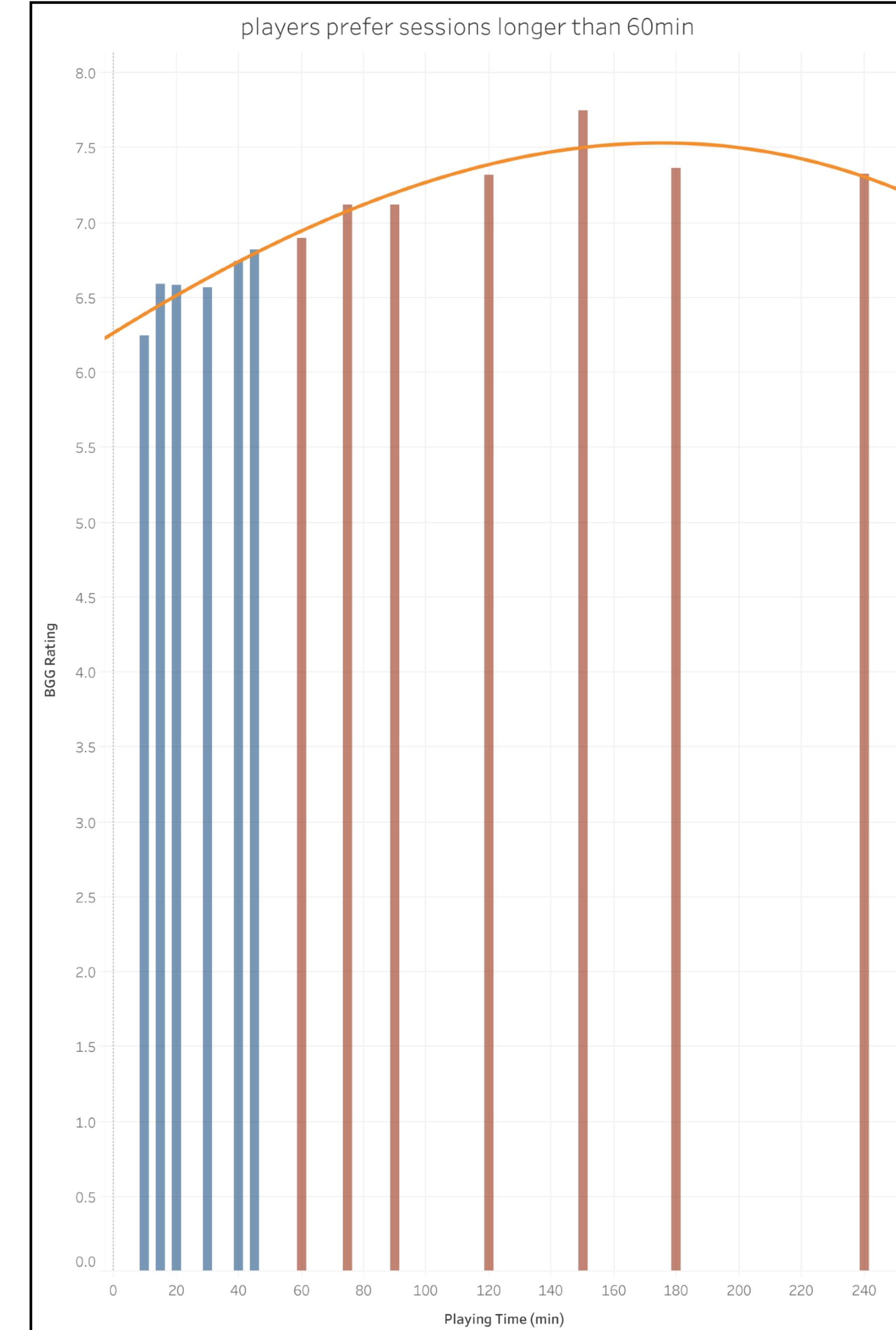
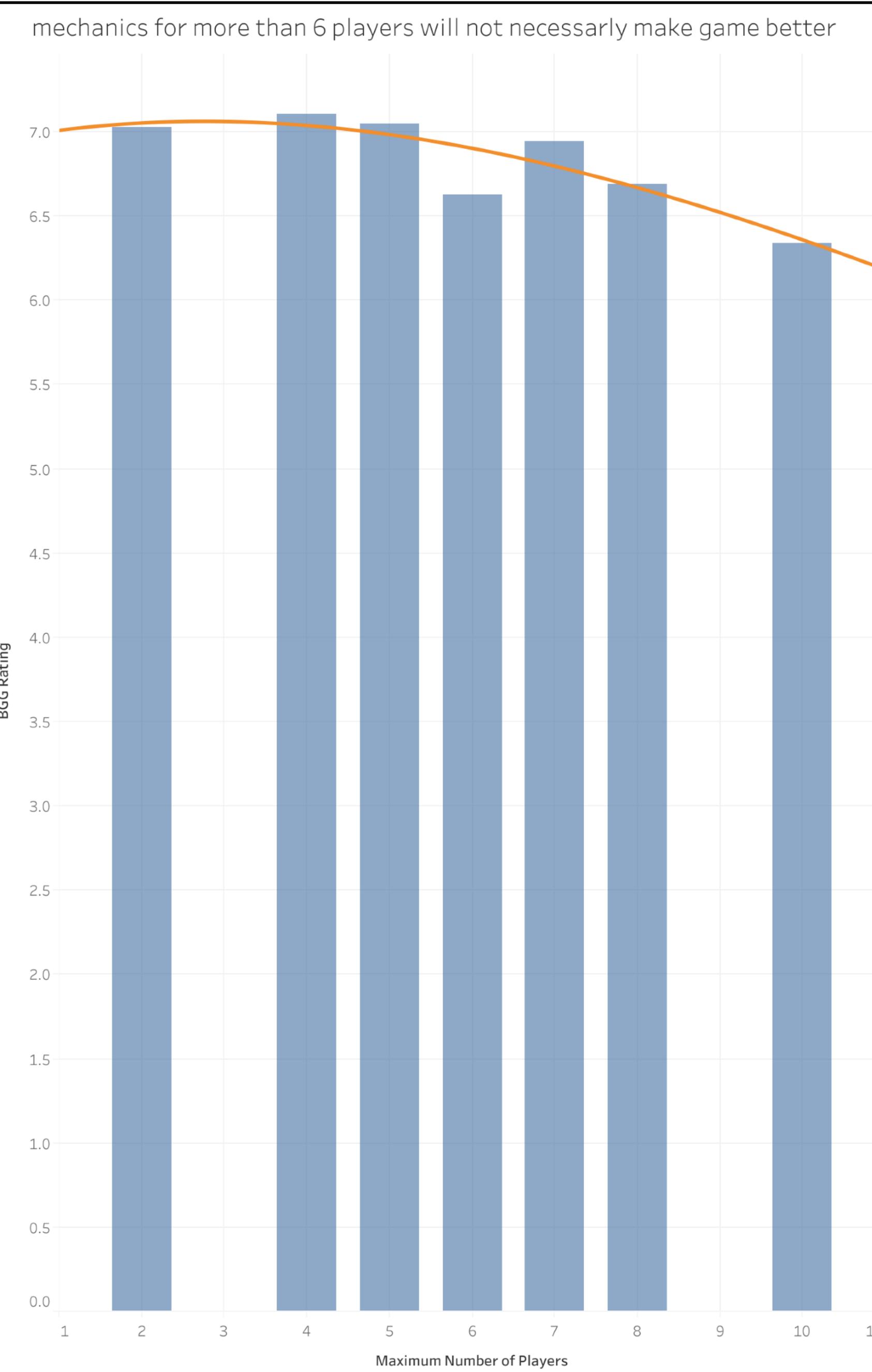
Appendix



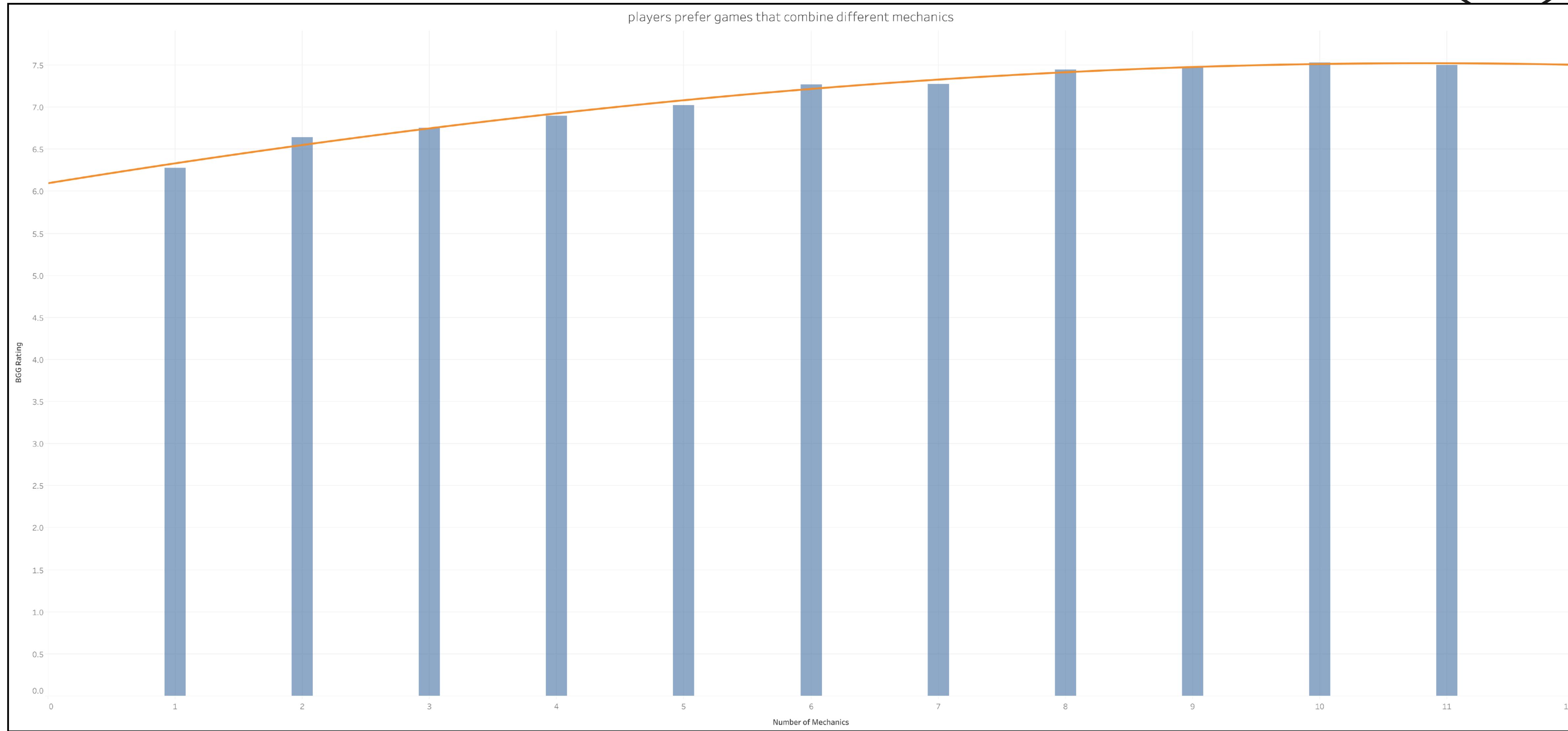
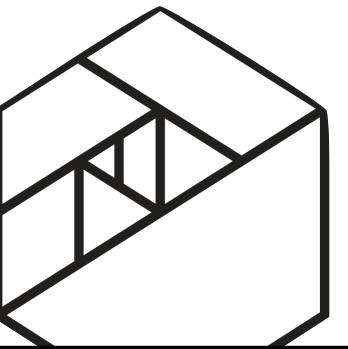
Appendix



Appendix



Appendix



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