DataFest 2022

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Introduction

For this data set, we're working with the file logs.csv, which tracks all of actions enacted by each player during the game. Our work on this data set will focus on the following:

Research Question

What are the **top three** types of events that took up the most playing time for players from each school?

Goal

- Prepare the data to make it ready for analysis
- Address and explore our research question using our data

Data Processing

- Got four players with some timestamps that failed to be generated
- One player had faulty timestamps for all their logs, thus they were removed from the analysis.
- NEW METRIC: time_spent, the amount of time player spent on the event.
 - first sorting the logs in ascending order by player_id and event_time_dbl.
 - ► Then, for each player, we took the time difference (in seconds) between the current event and the next event.
 - That difference is saved to a new column called time_spent
- Re-coded factorial levels of the schools from A to L.

Result - Final Visualization

Across all schools, the top three event types taking up the most playing time are Challenge Stack, Knowledge Minigame, and People Sense.

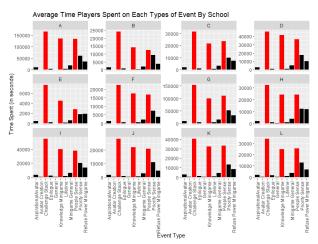


Figure 1: Note "average" here refers to median

Conclusion - Future Research Opportunities

- ANOVA (Analysis of Variance) for each school to see if the median time spent is significantly different across all event categories
- ► Explore how much time each player is spending on each of the stacks in the Challenge Stack