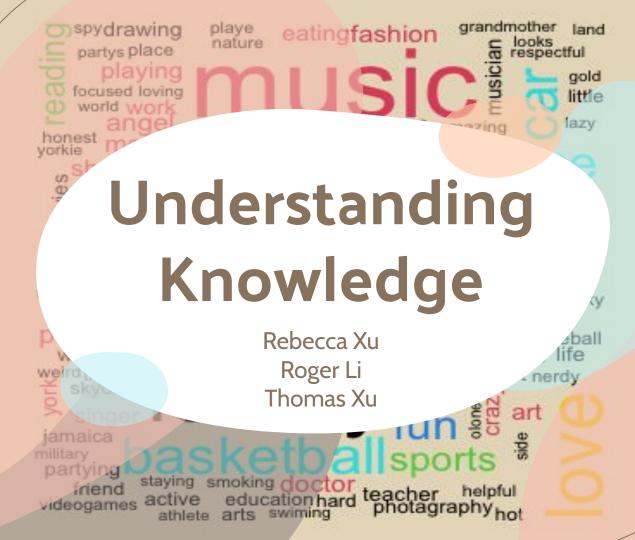
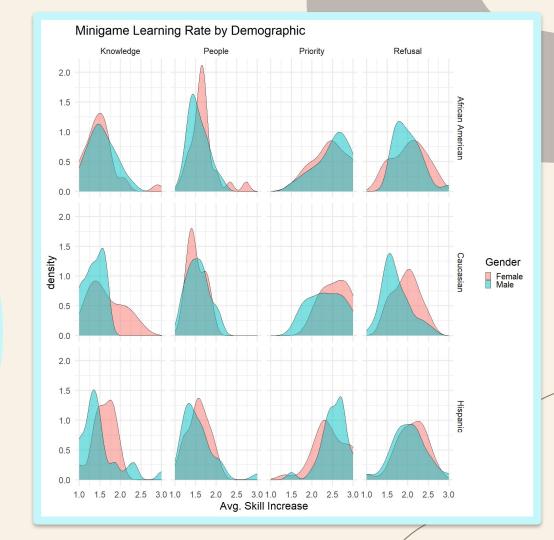
yum yum yum



Exploring Minigame Demographics

- Plots average change in skill score density of each gender faceted with the different minigames and race
- Motivated to find groups that struggled in certain minigames
- Significant differences in the Knowledge density plots, specifically Caucasian male and female plots



Which students need attention?

~<u>52% of students</u> scored <u>60%</u> or higher in the knowledge minigame.

From a <u>random forest</u> model using only gender, ethnicity, and action efficiency, we can <u>identify</u> <u>students who scored below 60%</u> with <u>66% accuracy</u>

Accuracy improves to 73% if we add improvement rates for other skills to the model

Correlation Plot shows the relationship between variables of interest

Scatterplot shows students who get further into the game perform better on the knowledge test

