Assessing Video Game Mechanics

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Visualizations

```
# read in the data
game_df <- read_excel("TopSelling_MSSP_July28_GameData.xlsx")</pre>
participant_df <- read_excel("TopSelling_MSSP_July28_ParticipantData.xlsx")</pre>
# create a subset of the game_df with just Num variables
game_df_num_subset <- game_df %>%
  select(StudyGame, GameName, NumFam, NumOT, NumIV, NumSN, NumSP, NumCG)
# pivot data to prep for visualizations
game_df_num_subset_longer <- game_df_num_subset %>%
 pivot_longer(cols = c(NumOT, NumIV, NumSN, NumSP, NumCG),
               names_to = "NumType",
               values to = "Count"
# stacked bar chart for the 5 game mechanics
ggplot(data = game_df_num_subset_longer,
       aes(x = StudyGame, y = Count, fill = NumType)) +
  geom_bar(position="stack", stat="identity", width = 0.75) +
  coord_flip() +
  scale_fill_brewer(palette = "YlGnBu", guide=guide_legend(reverse=T)) +
  theme(text = element_text(size=5),
        legend.position = "bottom", legend.box = "horizontal",
        legend.text = element_text(size = 8)) +
  xlab("StudyGame") +
  labs(title = "Count of Video Game Mechanics")
```



