# Alpha Release for Data Visualization Final Project:
# Mobile Strategy Games

- ## Basic Information
  - project title: Mobile Strategy Games
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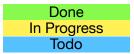  - repository: https://github.com/zwang155/Mobile-Strategy-Games
  - link: https://zwang155.github.io/Mobile-Strategy-Games/

- ## Project Overview

    As mobile phones plays a significant role in our daily lives nowadays, the mobile games industry is becoming more and more popular. This project is going to do a deep dive into a dataset with multiple synchronized visualizations.

    The topic is about mobile strategy games. And the dataset used for this project, as it claimed contains 17007 strategy games from the Apple App Store.

    For this project, we can explore a large number of mobile strategy grams, find the connections between user ratings and other features, discover how the games developed, study which feature has the largest influence on user evaluation, and how the price will affect the popularity of the games.

| Done |
|---|
| In Progress |
| Todo |

- ## Must-Have Features

  A. Provide several visualizations to show the connection between user ratings and other features; OR one multidimensional visualization that user ratings is mapped to one of its scales. — meet project objective A

  B. Provide a Scatter plot with average user ratings and user rating count; OR any other visualization that can show the patterns. — meet project objective B

  C. Split games into different groups based on prices and in-app purchases, and visualize them with other features (average user ratings, user rating count, etc.) — meet project objective C

  D. Add at least one visualization similar to the ones in related work sections, to better explore the dataset. — meet project objective D

  E. Implement basic user interaction like tooltips for most visualizations. — meet all project objectives

- ## Optional Features

  F. Select a few games and give visualizations of them in details. Allow the user to select games and give visualizations of them in details — meet project objective F

  G. Provide visualizations to show the icon groups (group the icons based on color, shape, etc.) — meet project objective E

  H. Add more visualizations similar to the ones in related work sections, to better explore the dataset. — meet project objective D

| Done |
|:---:|
| In Progress |
| Todo |

- Project Schedule (Upcoming milestones)
  - Project Proposal — Mar 31
    - Give a proposal for this project, including these sections: basic information, background and motivation, project objectives, data, data processing, visualization design, must-have features, optional features, project schedule
  - Revised Proposal — Apr 7
    - Revise the proposal, append related work section and provide the website
  - Alpha Release — Apr 12
    - Finish three static visualizations and update them into the website
    - Finish the alpha release report
  - Midpoint — Apr 19
    - Finish the remaining static visualizations for all the designs
    - Do some optional visualizations if time allowed
    - Format the website
  - Beta Release — Apr 26
    - Decorate the website to make it beautiful
    - Add basic interaction functions like tooltip to all the visualizations
    - Do some optional features if time allowed
    - Prepare for the presentation
  - Final Project Presentation — May 10
    - Finish all the code for the website
    - Record the Presentation
  - Project Report Draft — May 17
    - Give a report for the project
  - Project Report — May 19
    - Revise the report

- Roadblocks
  - Data cleaning
    - There're a lot of entries with null values;
    - Most information in Description and URL are useless for this project, but they took a lot of memory.
    - I'm thinking maybe it's better to use python script to generate simple csv files for the result, and then use the generated files for visualizations instead of the large original one.
  - Website theme & format
    - Not sure what theme to use and how I'm gonna show those visualizations.