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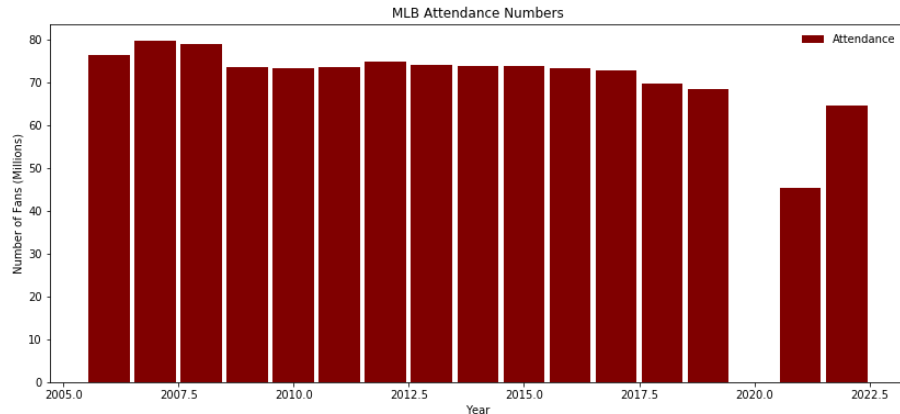
### Is Baseball Dying?

The sport of Major League Baseball, commonly referred to as America's Pastime, has recently been under scrutiny for its ability to reach younger generations. I chose this topic because I am a large baseball fan, and I am looking for answers to this issue while trying to share this love for the game with my friends and other people that I come across. Some say that the saying "baseball is dying" is a myth, so my goal for this project is to analyze attendance, viewership, and level of interest data to determine the validity of that statement.

#### Data Collection

- For this project, I used JupyterLab through the Pitt servers using Pandas, Matplotlib, and NumPy.
- Matplotlib.pyplot.subplot and Matplotlib.pyplot.bar were used to produce these figures.

**Figure 1: Bar Chart → Major League Baseball Attendance, 2006-2022**



#### Legend Explained

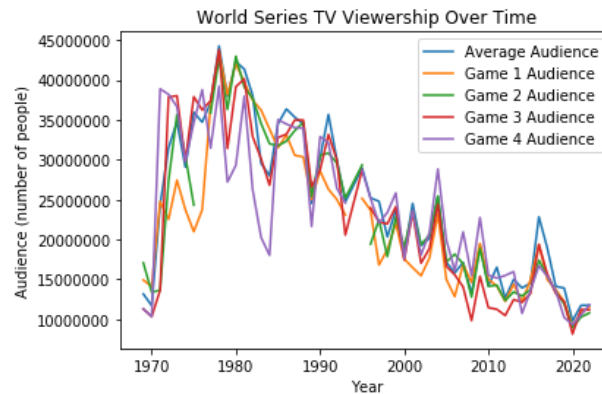
- Maroon represents the attendance value

#### Findings and Highlights of the Figure

- This bar chart represents the cumulative Major League Baseball (MLB) regular season attendance numbers from 2006 to 2022, with year along the x-axis and number of fans on the y-axis

- The peak of MLB attendance in this time period was in 2007 at 80 million, gradually decreasing as it makes its way to 2022 at around 65 million, which means there has been a large dip in overall attendance across the league.
- It looks as if 2020 and 2021 are outliers due to the COVID-19 pandemic, where the league had restrictions on the number of fans that could attend games.

**Figure 2: Line Chart → World Series TV Viewership Over Time**



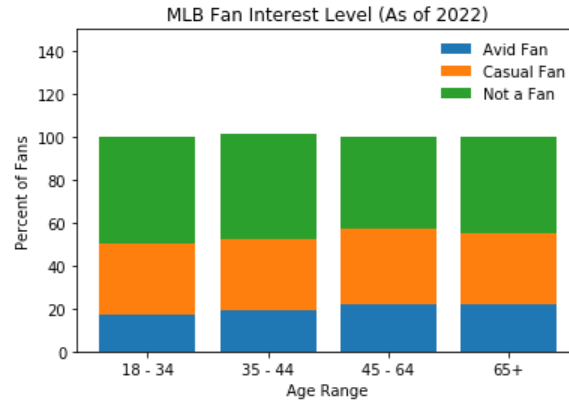
#### Legend Explained

- Blue corresponds to the average TV audience.
- Orange stands for the audience of Game 1 of the World Series each year.
- Green explains the Game 2 audience of the World Series.
- Red is connected to the Game 3 audience for the World Series.
- Purple notes the audience for Game 4 of the World Series.

#### Findings and Highlights of the Figure

- This is a simple graph of the World Series (the championship series of Major League Baseball) TV viewership over time from 1969 to 2022.
- It appears that TVs started to get into more households in the mid-1970's, and once that occurred, there became a gradual decline in viewership over the next 5 or so decades.
- At its peak, the World Series has gained around an average of 45 million television viewers and could make its way under 10 million if the trends continue.

**Figure 3: Stacked Bar Chart → MLB Interest Level (As of 2022)**



### Legend Explained

- Blue represents avid fans of Major League Baseball
- Orange stands for casual fans of the MLB.
- Green shows those who are not fans of Major League Baseball.

### Findings and Highlights of the Figure

- This stacked bar chart represents a surveyed group of people in the United States who were asked to categorize their interest level in Major League Baseball.
- It seems as if the youth (18-34) are least likely to be an avid fan and most likely not to be a fan of Major League Baseball at all.
- The 45-64 and 65+ ranges are most likely to be avid fans and follow the game closely.

### Significance Statement

- These graphs and charts can be used to spread awareness to Major League Baseball and its executives that there are indeed problems with regards to youth involvement, attendance, and overall interest in the game.
- Knowing these numbers could allow the league to take measures into their own hands to develop strategy and techniques to pander to a younger crowd.

### Sources

- [Statista - Major League Baseball: total attendance at regular season games from 2006 to 2022](#)
- [Matt OP - World Series Baseball Television Ratings](#)
- [Statista - Level of interest in MLB in the United States as of May 2022](#)

**GitHub Link:** <https://github.com/zcw246/infoviz.git>