Project Title: Video Game Sales Data Analysis Report (not final)

Members Duty (not final):

- Kevin: Coding/Graphing

- Derian: Coding

Abdullah: Coding/GraphingTyler: Slide ConstructionLabeeb: Slide Construction

Data Description:

- We will work on the "Video Game Sales" dataset, which contains information about video game sales across different regions of the world.
- The dataset holds around 16.6k entries and has 11 columns. They include:

Variables:

o **Time Period:** Games released from 1980 to 2020

Rank: Ranking based on global sales

o Name: Title of the game

o **Platform:** 31 different platforms (PlayStation, Xbox, Nintendo, ...)

o **Year:** Year of the game's release

o **Genre:** Category of the game (e.g., Action, Sports, RPG).

o **Publisher:** The company that published the game.

Sales Data:

NA_Sales

EU_Sales

Other_Sales

Global_Sales

Goals:

- **Sales Trends Over Time**: How have video game sales evolved over the years? Are there certain periods of peak sales?
 - Use variables like Genre, Year, Global_Sales

- **Regional Market Differences**: How do sales trends vary across North America, Europe, Japan, and other regions?
 - Variables to use: Genre, Platform, NA_Sales, ..., Other_Sales
- Top Publishers: Which game publishers have the highest sales figures?
 - o Variables to use: Plublisher, Year, Global_Sales, regional sales variables
- (Potentially) Top-Selling Genres: Which genres have been the most successful globally?
- **(Potentially) Platform Popularity:** Which gaming platforms have dominated the market?

Potential Visualization of the Data:

- Genre Evolution Timeline?
 - Show how different genres have changed over time. Learn how trends and industry shifts.
 - Line chart?
- Regional Preference Heatmap?
 - Showing which genres and platforms perform better in different regions
 - Heat map?
- Platform Lifecycle Analysis?
 - Show which platforms rise and fall in popularity. How long their market lifecycle lasts.
 - Scatter plot with lines to show sales
 - Violin plot or box plot to show platform lifecycles
- Publisher Market Share Analysis?
- Sales Distribution (Histogram?)
 - Show the video game to sales ratio