## Dashboard in RStudio on Valve Steam games dataset



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# Contents

INTRODUCTION	3
ANALYSIS METHOD:	
ANALISIS NILITIOD.	
RESULT:	4
MANAGERIAL IMPLICATION:	4
REFERENCES & SOURCES	

#### Introduction

In the rapidly evolving digital landscape, the gaming industry has seen unprecedented growth, with platforms like Steam leading the charge in delivering diverse gaming experiences to a global audience. The "Steam Gaming Hits" dashboard is designed as a comprehensive analytical tool to delve into the myriad facets of games released on Steam from 2006 to 2023.

This Shiny-based dashboard leverages advanced data visualization and analysis techniques to sift through extensive gaming data, providing users with intuitive, interactive, and insightful exploration capabilities.

The purpose behind developing such a dashboard is twofold: firstly, to offer an accessible platform for stakeholders to visualize and analyze game performance metrics, trends, and patterns within the Steam ecosystem; and secondly, to serve as an educational and research tool that promotes further investigation into the factors driving success in the digital gaming market. By focusing on user interactivity, the dashboard not only simplifies complex data analysis but also encourages users to engage deeply with the data, fostering a better understanding of the gaming industry's dynamics.

Through this introduction to the "Steam Gaming Hits" dashboard, we set the stage for a detailed exploration of its analysis methods, the results it can yield, and the potential managerial implications that can be derived from its findings. This tool is envisioned to be of significant value to game developers, publishers, marketers, researchers, and enthusiasts alike, providing them with actionable insights and facilitating data-driven decision-making in the gaming domain.

## **Analysis Method:**

The analysis utilizes a Shiny dashboard to explore, visualize, and analyze a comprehensive dataset of Steam games released between 2006 and 2023. The methods include interactive data exploration, dynamic visualization of top and bottom games based on user-selected metrics, comparative analysis of games via reviews and ratings, and correlation analysis to identify relationships between numeric variables. Key features such as sortable tables, plotly graphs, and correlation matrices are employed to facilitate these analyses.

#### **Result:**

The analysis reveals insights into the Steam gaming ecosystem, such as the performance of top and bottom games based on various metrics (e.g., ratings), trends in game reviews and ratings, and potential correlations between game success metrics (e.g., sales, popularity) and other variables (e.g., release year, price). Through interactive selection and visualization, users can identify patterns, outliers, and relationships that might not be apparent through traditional static analysis methods.

## **Managerial Implication:**

The findings from the dashboard analysis can guide decision-making and strategy formulation for game developers, publishers, and marketers within the digital gaming industry. For instance:

- 1. Product Development: Insights into the attributes of top-rated and popular games that can inform game design and development strategies, emphasizing features that correlate with higher ratings and user engagement.
- 2. Marketing Strategy: Understanding trends in game popularity and ratings over time can help in tailoring marketing campaigns and promotional activities to target audiences more effectively.
- 3. Investment Decisions: By identifying the factors that correlate with successful games, investors and publishers can make more informed decisions about which game projects to fund or support.
- 4. Competitive Analysis: The dashboard allows for the benchmarking of games against competitors, offering strategic insights into market positioning and performance gaps.

#### **References & Sources**

The following codes, channels and websites were refered in making of the Dashboard.

- YouTube Channel Abhinav Agrawal :https://www.youtube.com/watch?v=tlOBVZx8Hy0&t=1553s
- Github: https://github.com/aagarw30/R-Shiny-Dashboards/tree/main/USArrestDashboard
- Data Source: https://www.kaggle.com/datasets/whigmalwhim/steam-releases