

# Decoding a Game's DNA

Evaluating Game Potential through  
Retention Metrics





# Introduction



## Background

Need to understand a  
Game's DNA



## Objective

Review of retention rate  
metric and why it  
matters



## Goal

Determine which game  
has the most potential  
for success



# Methodology

**Dataset:** 40,000 unique users (10,000 per game)

**Key Metrics:**

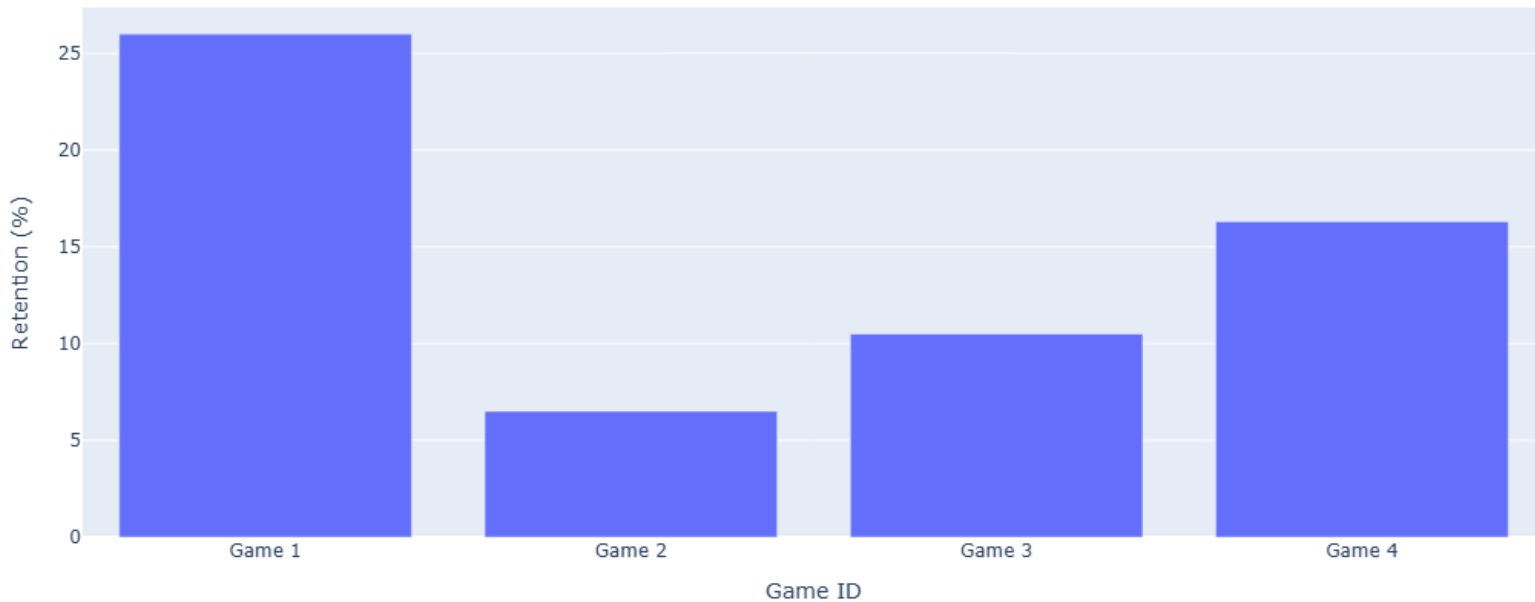
- Playtime: Minutes played in first session
- Retention: If user returned (Yes/No)

**Goal:** Identify which of 4 games shows strongest success potential



# Retention Analysis by Game

Retention Rate by Game





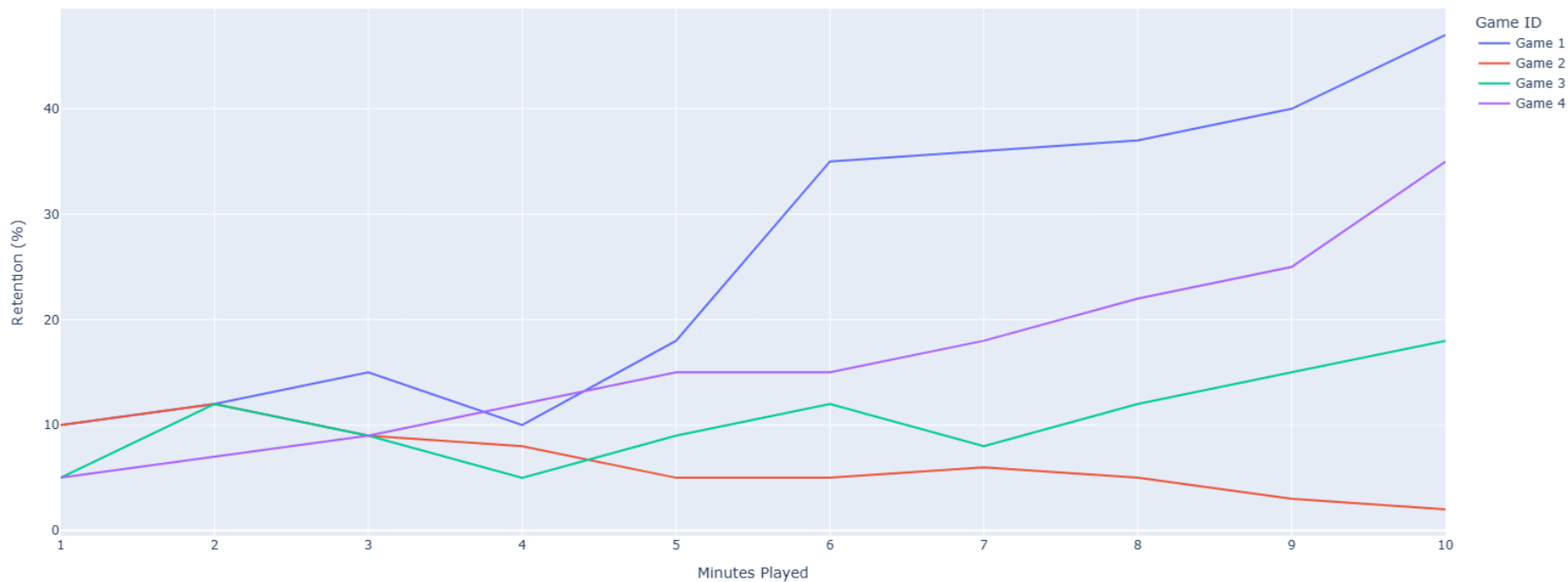
## Retention Analysis by Game

- **Game 1** with highest retention rate of **26%**
- **10% higher** than second-place game
- Over **1 in 4 players returned** to Game 1
- Shows **strong engagement** capturing players interest early



# DNA Retention Curves

Retention vs Playtime per Game





# DNA Retention Curves

- **Game 1** again shows highest potential
- Has the **strongest DNA** with the **steepest retention curve**
- Can **engage players** well, especially from the 5th minute of gametime onwards



## Discussion

**Game 1** shows **strongest retention** and **growth potential**

It stands out with:

- The highest overall **retention rate** at **26%**
- The **steepest retention curve** with retention increasing the most with playtime





# Limitations

## Small data sample★

- 10k installs per game
- **>40k installs** for robust conclusions

## Limited context

- No information on **lifecycle**
- Important for determining **ROI**



## Conclusion and Next Steps

- **Game 1** clearest winner with highest potential for success
- Shows **strong DNA** with best early engagement
- More **data collection** and consideration of factors such as **game lifecycle** required before further investment

# Thank you!

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