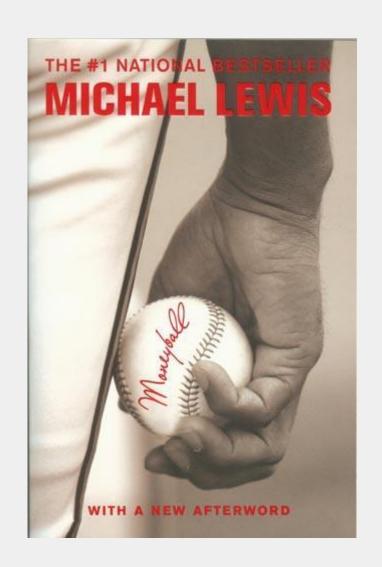


Research Questions

• What is the association between baseball statistics and fan attendance?

• What is the association between baseball statistics and team salary?



Motivations

- Attendance is important for financial stability of baseball franchises
- Teams spend millions of dollars to hire players with the best talent
- Results could be useful for MLB marketing strategists or team owners/managers/scouts











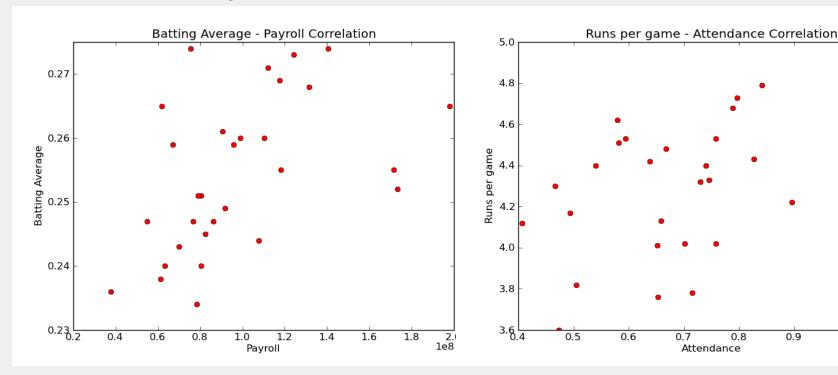
Methodology

- Select 5 batting and 5 pitching stats
- Compare to attendance and salary
- Compute Pearson's correlation
- Interpret strength of association

$$r = \frac{\sum XY - \frac{\sum X\sum Y}{N}}{\sqrt{(\sum X^{2} - \frac{(\sum X)^{2}}{N})(\sum Y^{2} - \frac{(\sum Y)^{2}}{N})}}$$

Results

- Attendance
 - Batting: Batting Average (.5257)
 - Pitching: Runs per game (.4514)
- Salary
 - Batting: Batting Average (.4849)
 - Pitching: Strikeouts (-.5332)



1.0

1.1