



Baseball and High “Performance”



Alan Flint and Rushil Sheth



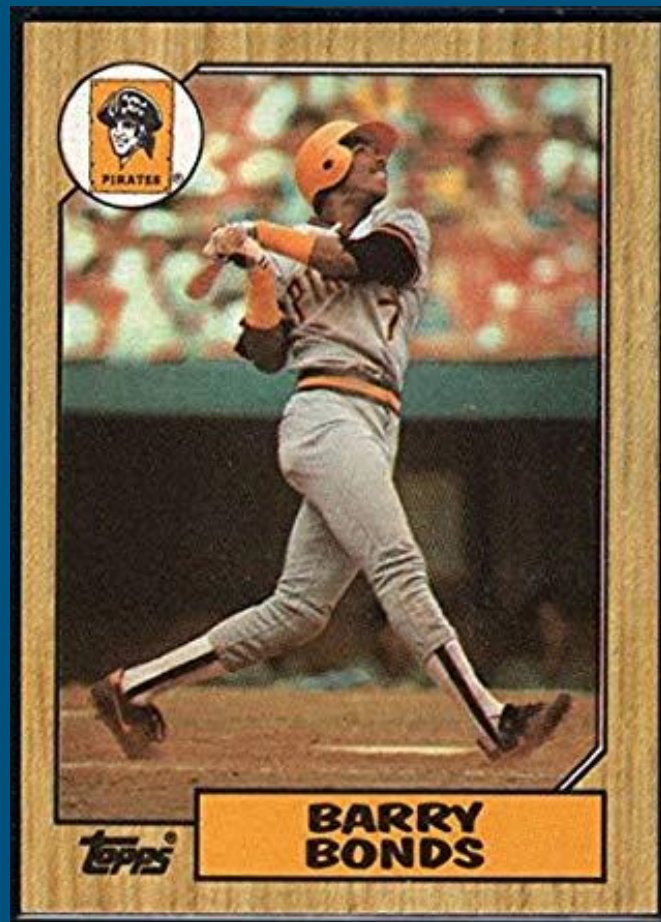
“Performance”

- Wanted to examine high performance across all of baseball > teams > players
- Baseball as a Whole
 - Performance Enhancing Drugs (Steroids)
 - Steroid Era
- Baseball Teams
 - High performance and attendance
- Baseball Players
 - High performance and individual awards

Data Description

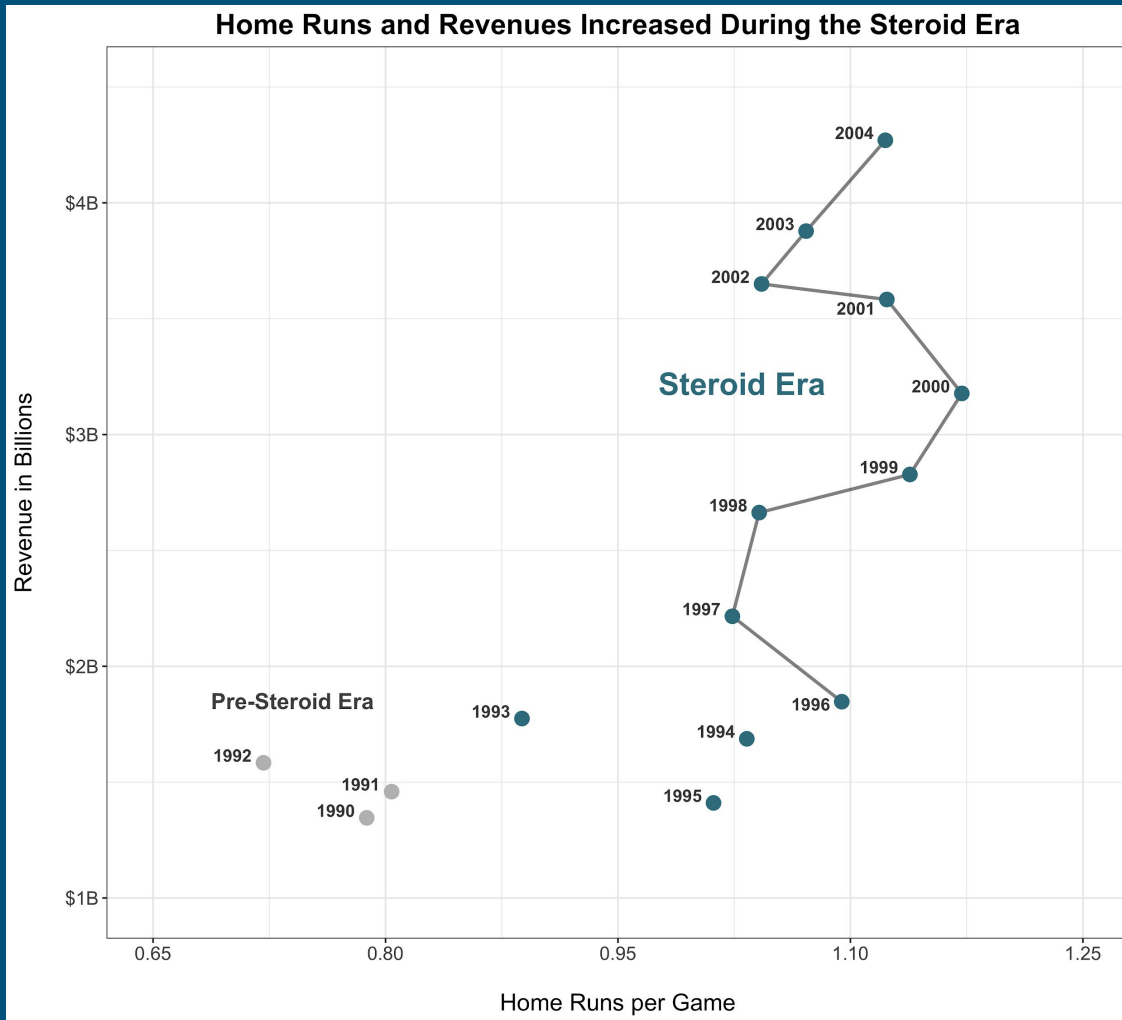
- Rich data sets
- Historical Data
 - Dated back to 1871
 - Metadata about seasons
- Recent Play-by-Play Data
 - Each at bat from last 4 seasons
 - Outcome and situational data

Steroid Era



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Steroid Era

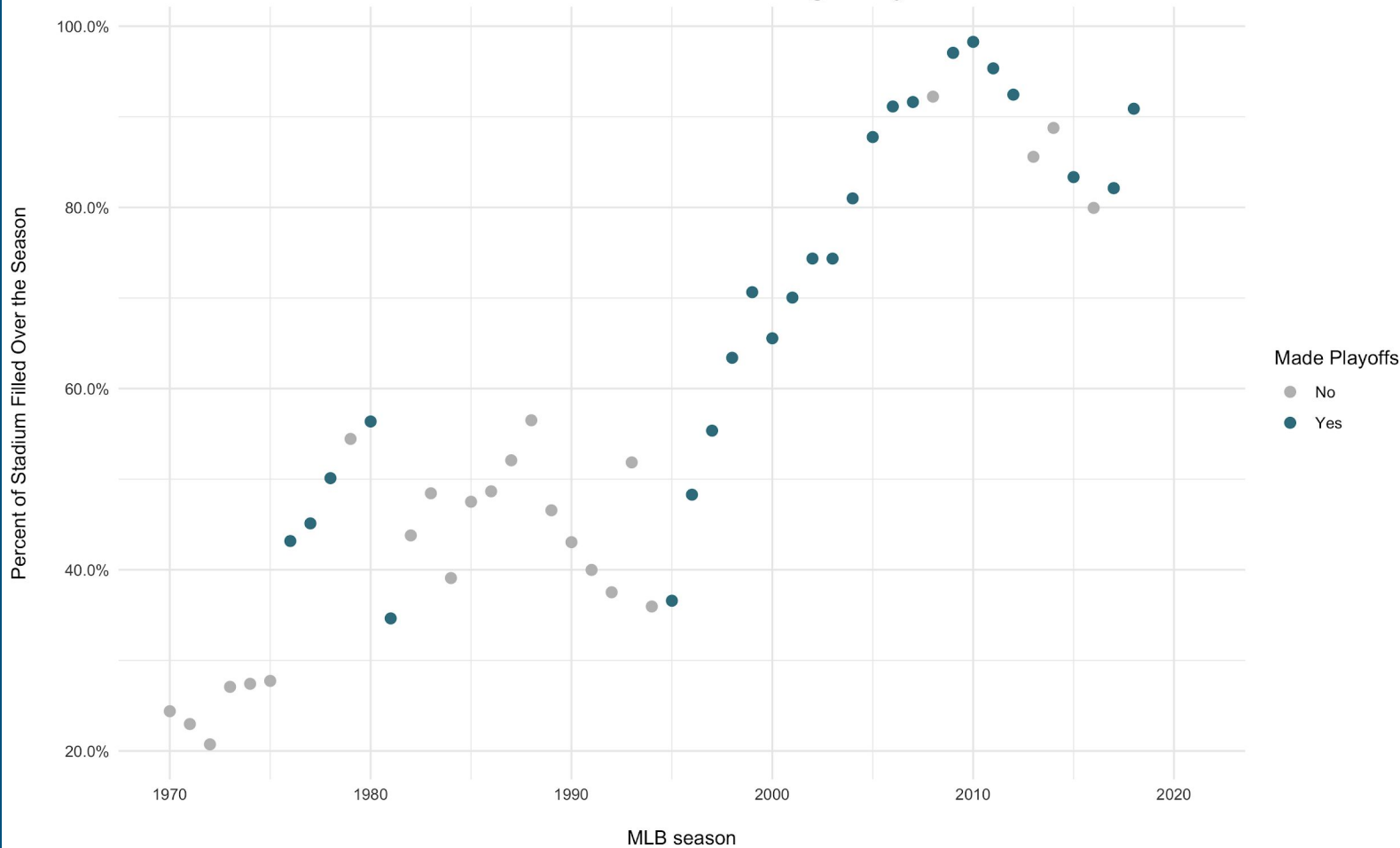


High Team Performance is awarded with
Higher Attendance

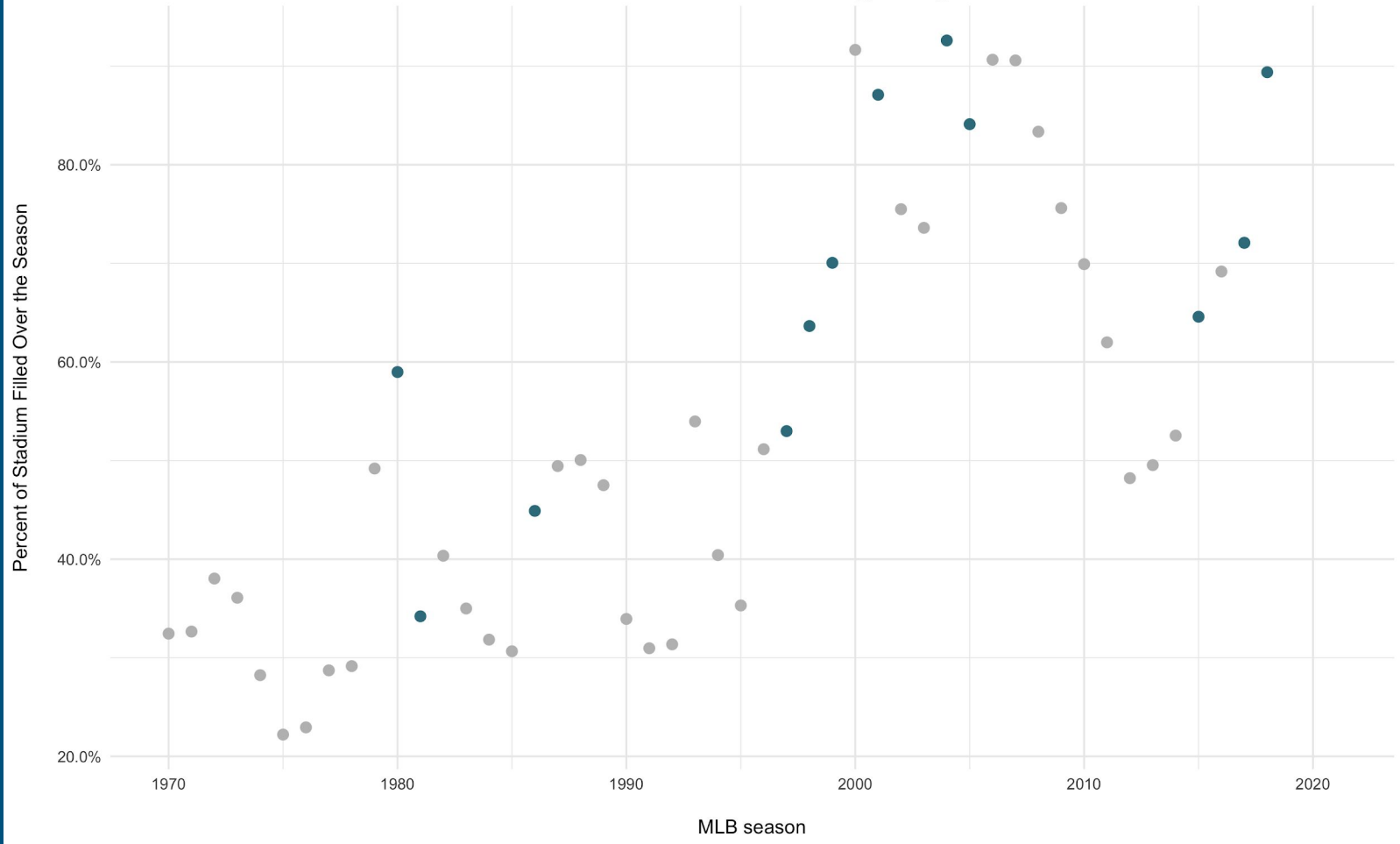
32.08%

Annual **Increase** in Capacity
When **Playoffs** Made

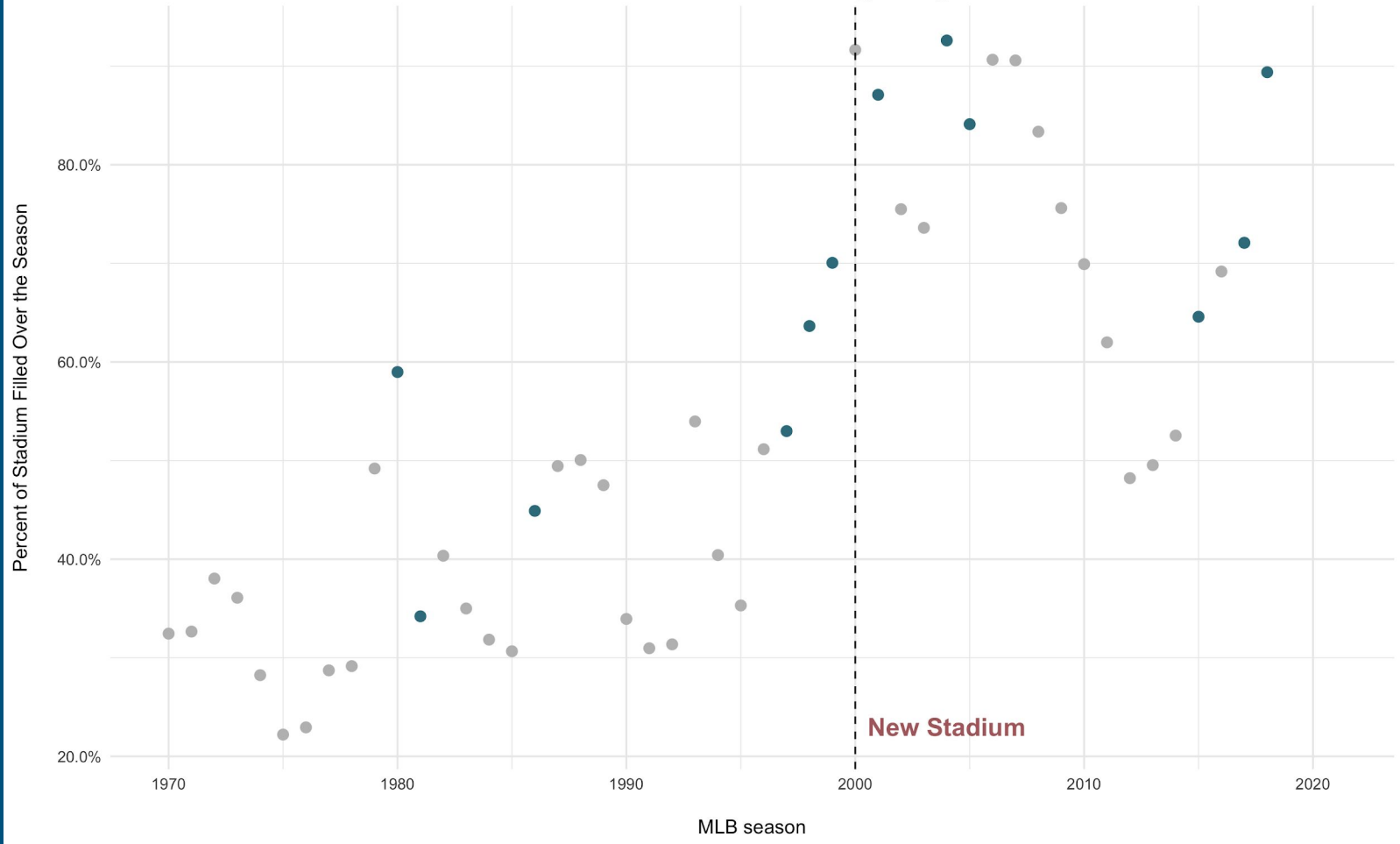
NY Yankees Attendance Increases During Playoff Seasons



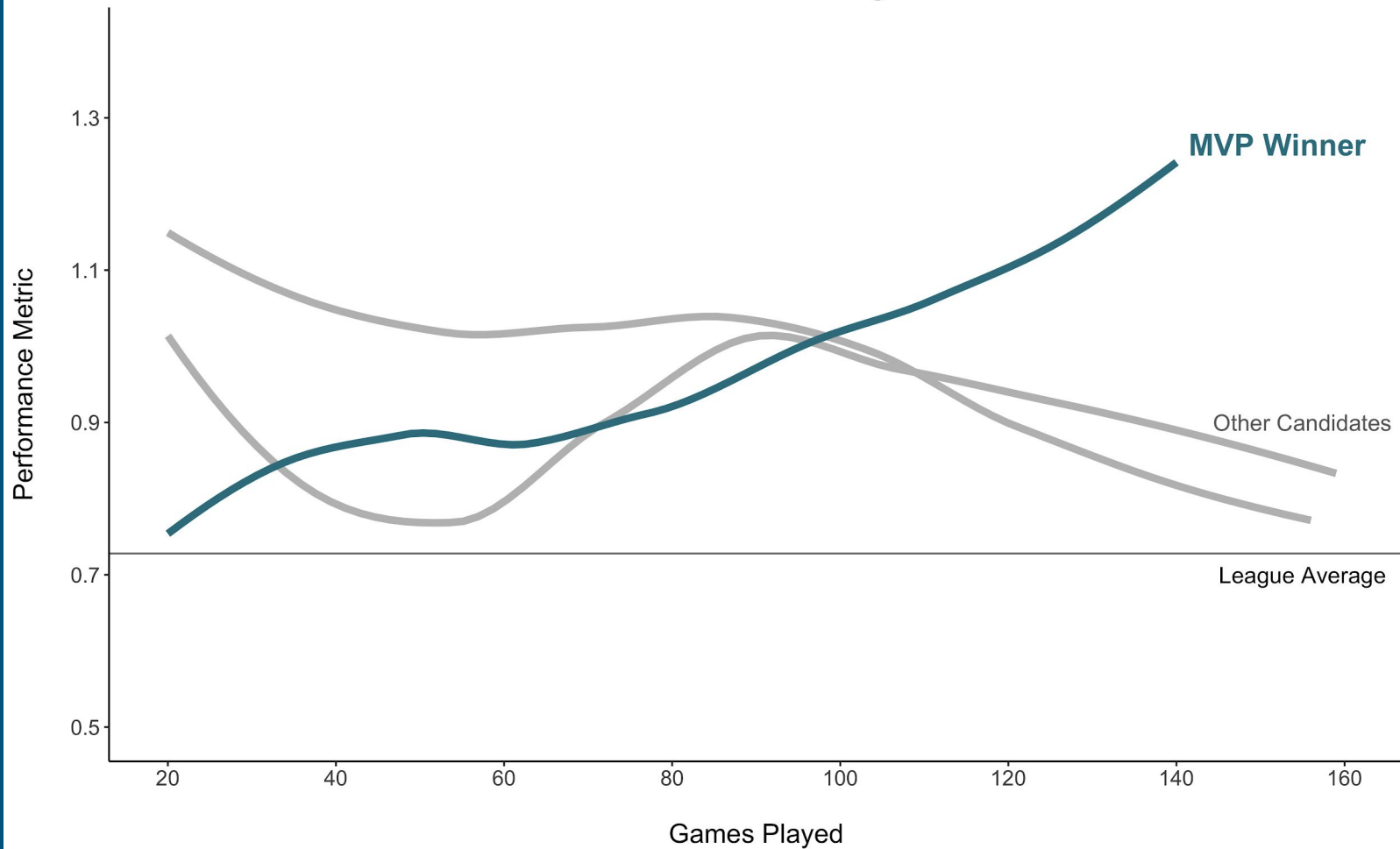
Houston Astros Attendance Increases During Playoff Seasons



Houston Astros Attendance Increases During Playoff Seasons



MVP Winner Performs Throughout Season



Thank you!

References:

- <https://www.kaggle.com/pschale/mlb-pitch-data-20152018>
- <http://www.seanlahman.com/baseball-archive/statistics/>
- <http://roadsidephotos.sabr.org/baseball/data.htm#ofd>
- <https://www.baseball-reference.com/leagues/MLB/1968-misc.shtml>

Source code:

- https://github.com/alan-flint/mlb_vis/