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# Party Like it's 1983



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# Orioles History

- Since moving to Baltimore in 1954, the Orioles have won 3 World Series
- Since their last WS win in 1983, they have only made the postseason 5 times
- Most recent was a Wildcard Berth in 2016



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**Analyze the roster by position and  
recommend potential players to  
acquire in order to make Orioles  
Postseason contenders**

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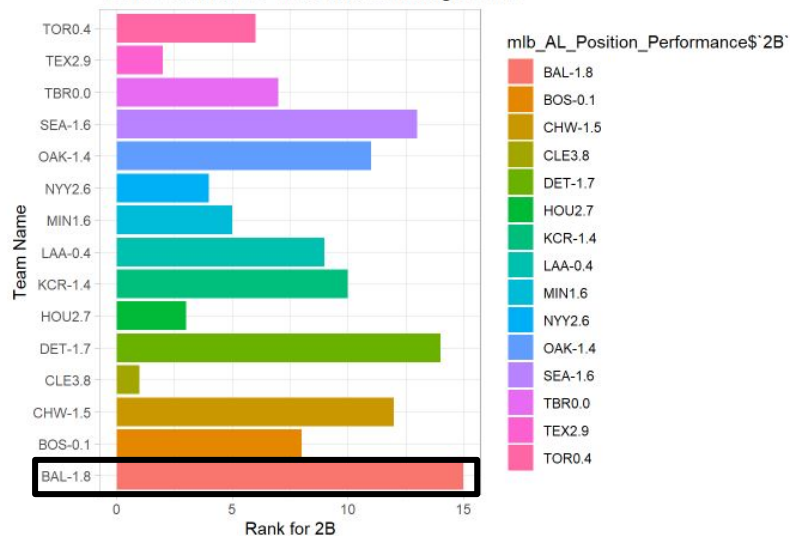
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# Data

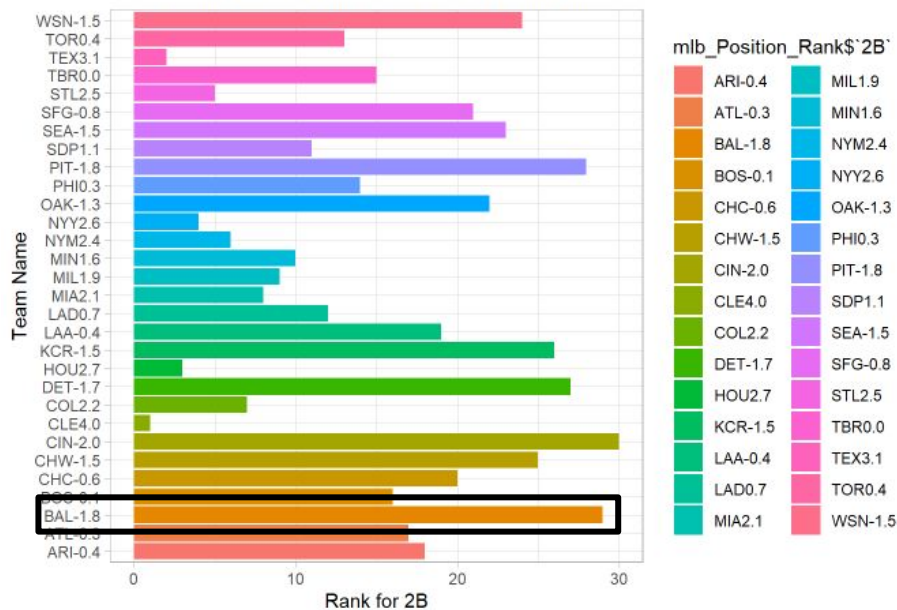
- Original datasets come from Baseball Reference
    - MLB Team Hitting & Pitching Stats
    - Major League Baseball Wins Above Avg By Position
  - Had to create our own datasets
    - Payroll
    - Advanced Stats for entire Pitching staff
  - Needed this information to recommend moves for the future
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# Underperforming at 2nd Base

Team Rank for 2B Wins Above Average in AL

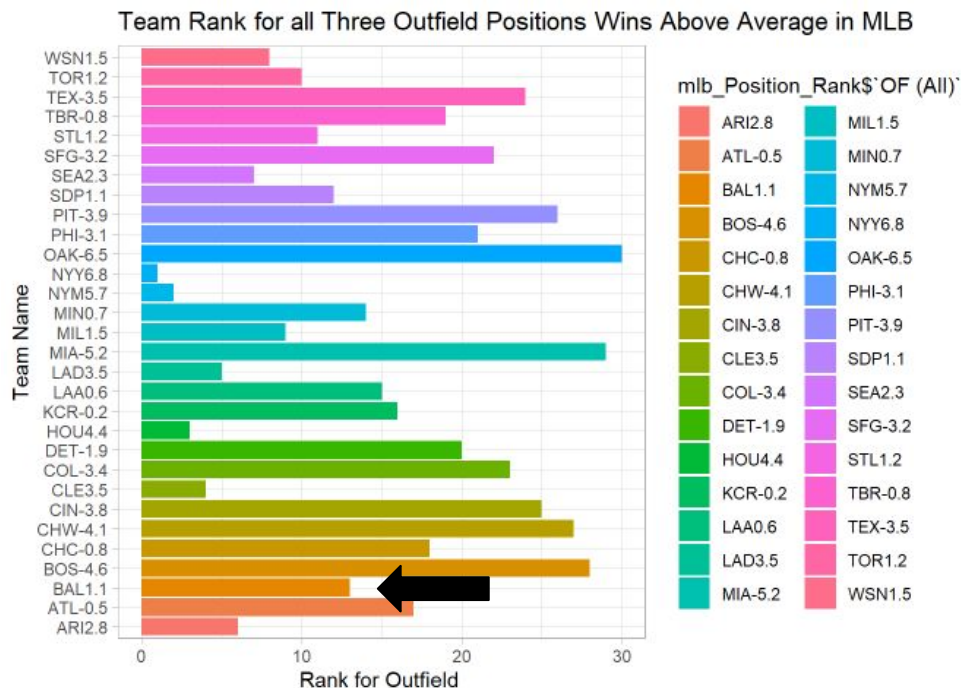


Team Rank for 2B Wins Above Average in MLB



# The Outfield

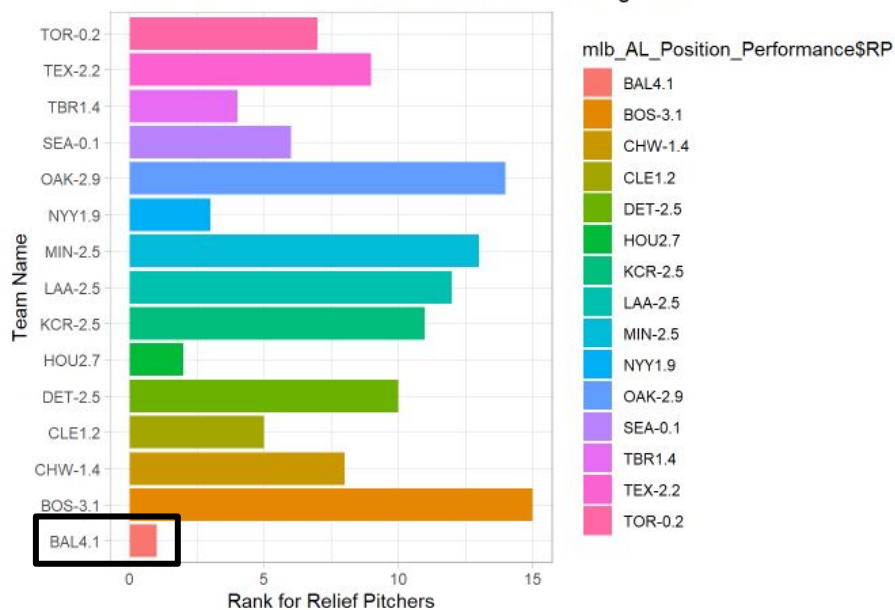
- The team's outfield actually performs above average
- Rank 12th among all of MLB for Outfield Wins Above Average
- Led by All-Star Center Fielder, Cedric Mullins
- Overall, a pretty good outfield and not an area of concern



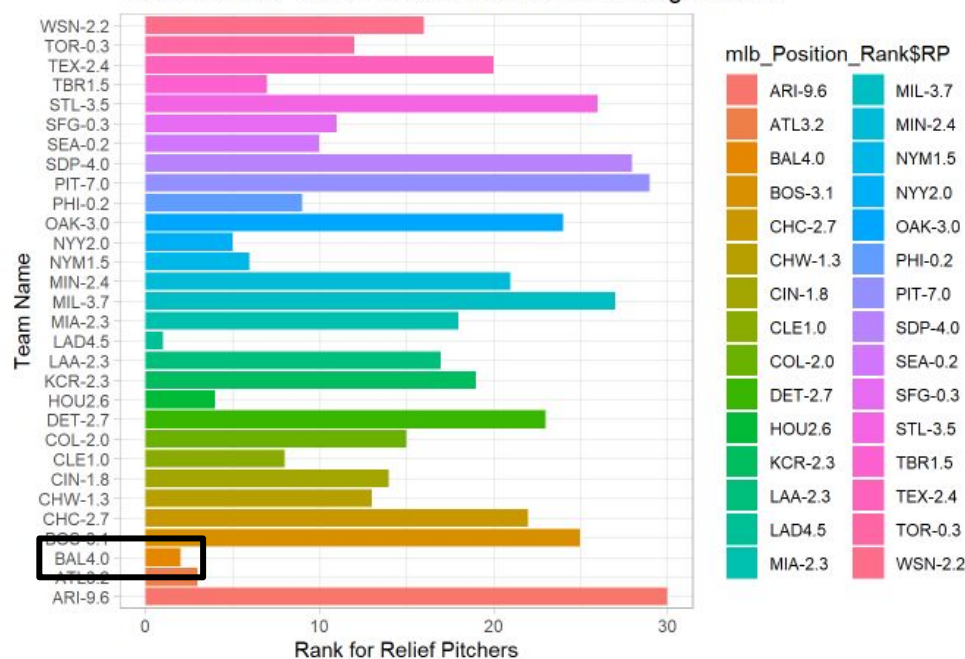


# Strongest Part of the Orioles

Team Rank for Relief Pitchers Wins Above Average in AL

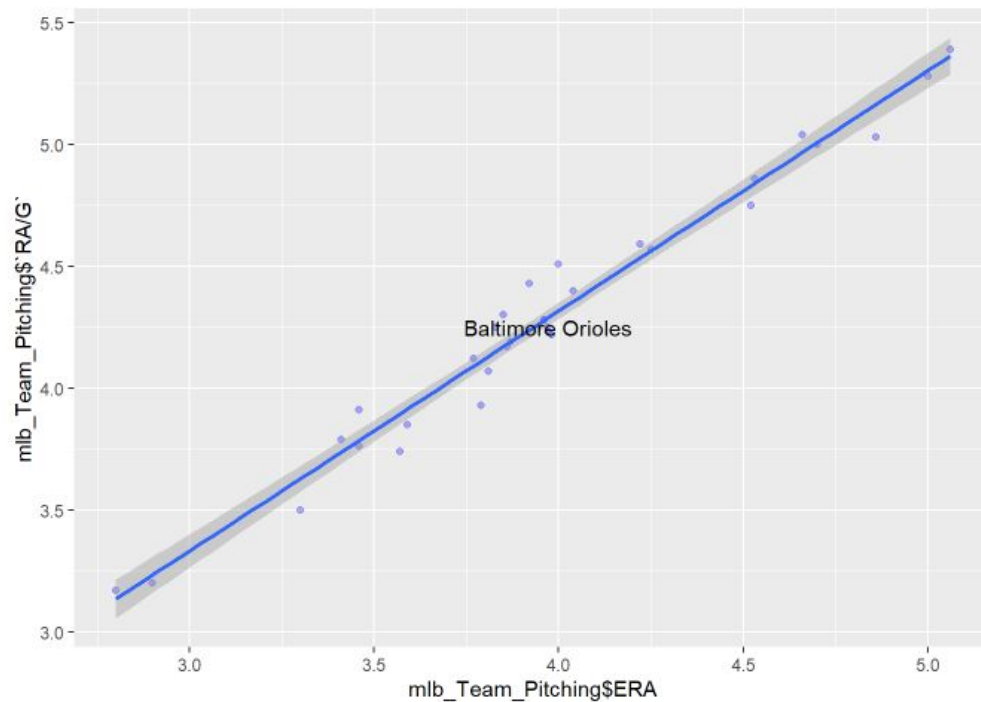


Team Rank for Relief Pitchers Wins Above Average in MLB



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# Orioles Team Pitching





# Orioles Need to Acquire SP

Train XGBoost Model on  
2022 Orioles staff data

Tested it on the Free Agent  
SP

Result was projection of  
WAR for SP

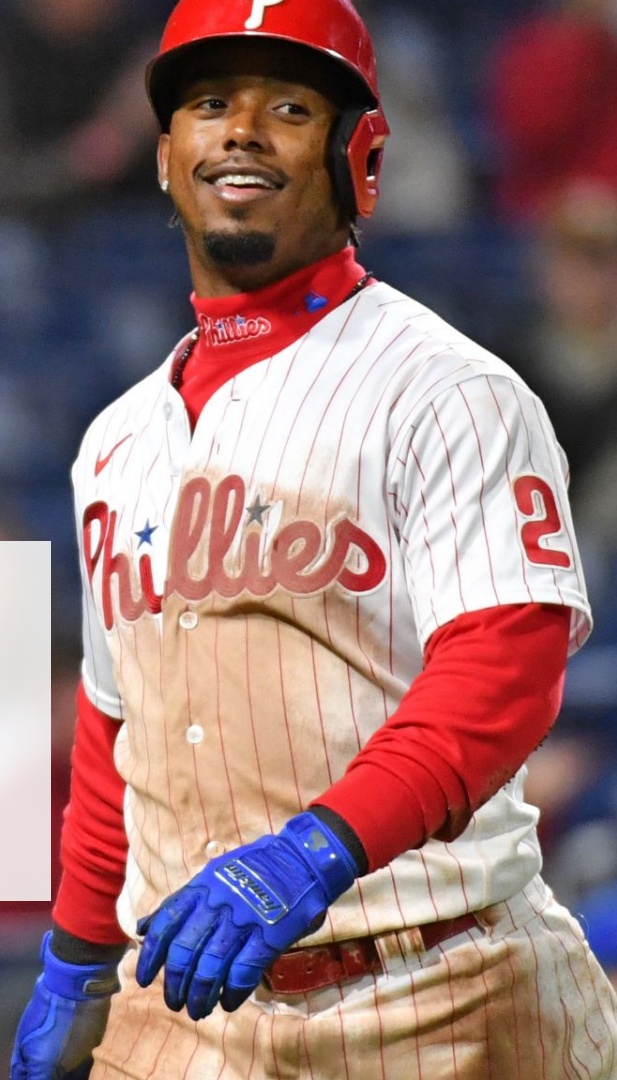
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# Starting Pitchers to Acquire

- Ross Stripling - Projected WAR of 2.51
  - 2 year, 15 million with a 3rd year option
- Chris Bassitt - Projected WAR of 2.51
  - 2 year, 24 million with a 3rd year option
- Drew Smyly - Projected WAR of 1.86
  - 1 year, 7 million
- Return of John Means (Tommy John) - 3.7 WAR in 2021

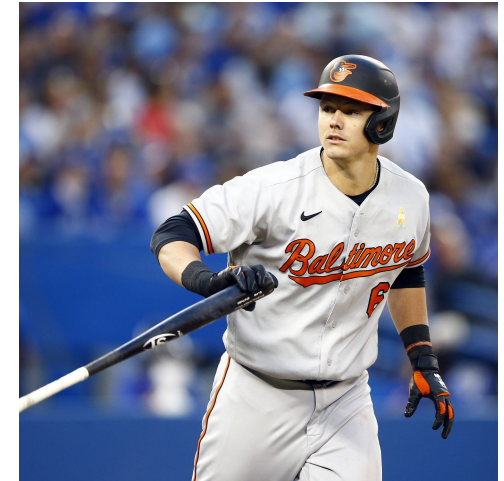


Target for 2nd  
Baseman



# For the Future

- Have 6 top 100 prospects, but only have successful prospects 16% of the time
- How to develop prospects better?
- Risk analysis is unpredictable







## Summary

- Orioles have one of the best bullpens in the MLB
- Main areas of concern are 2nd base and SP
- Based on our predicted WAR, the team can sign several good SP
- Need to sign a proven, veteran 2nd baseman
- Have good prospects to develop for future



**Thank you**