



# **Statistical Analysis:** **Leadoff Walks vs. Leadoff Singles**

Bailey Hall



# John M. Culkin

“baseball couldn’t survive without all the statistical appurtenances involved in calculating pitching, hitting and fielding percentages. Some people could do without the games as long as they got the box scores”

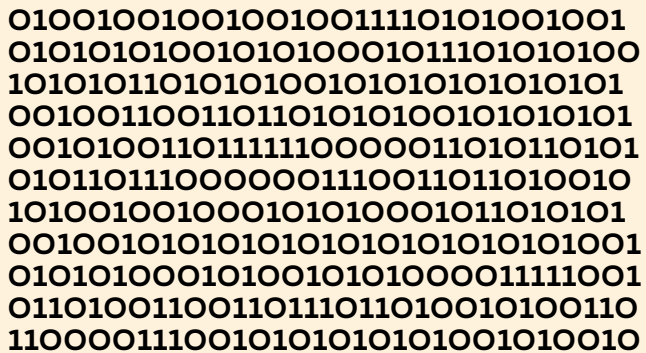


**STATS**

**VS.**



**WISDOM**



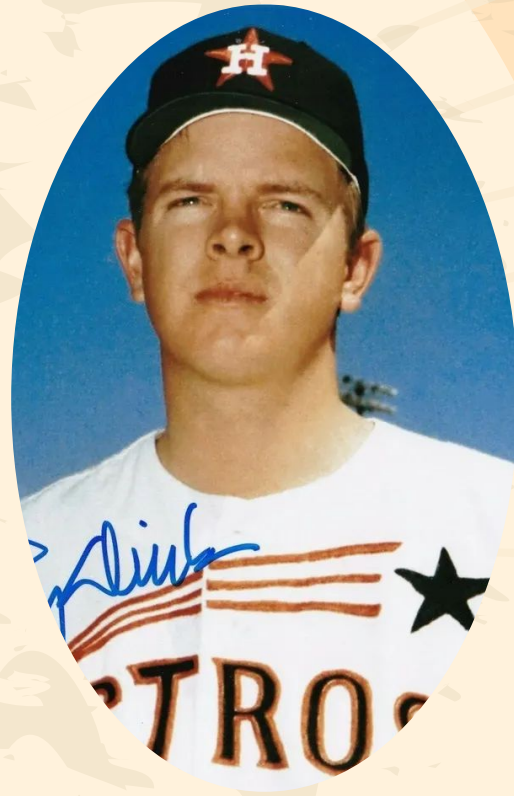
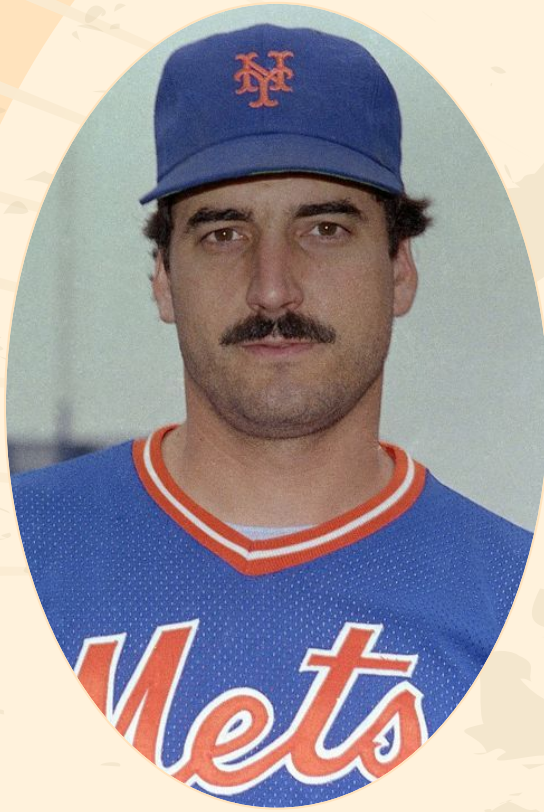
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# My Own Analytics Project...



# The Dreaded Leadoff Walk.





**"Walks are worse."**

# **Which is Worse:**

---

# **Leadoff Walk or Leadoff Single?**



**Leadoff  
Singles vs.  
Leadoff Walks**

**Every leadoff  
single in 2023**

**Respective  
box scores**

**The  
answer!**

**Every leadoff  
walk in 2023**

**Respective  
box scores**



An illustration of a baseball field with two players. On the left, a pitcher in a white uniform with red pinstripes and a red cap is in a pitching motion. On the right, a runner in a similar uniform is sliding into a base. The background is a stylized orange and yellow field with white lines. A large, light-yellow oval is in the center, containing the text '5%' and a subtitle. Several small red stars are scattered around the scene.

# 5%

% difference needed for statistical significance

# The Answer!



**.9836**

Average runs scored off  
of a leadoff walk



**.9549**

Average runs scored off  
of a leadoff single

# The 9th Inning

**.8829**

Leadoff Singles



**Way  
worse!**

**.8378**

Leadoff Walks



**Way  
better!**



## Runs Scored off Leadoff Walks vs. Leadoff Singles Per Inning



# The (Good) Closers

- Emmanuel Clase
- David Bednar
- Camilo Doval
- Alexis Díaz
- Jordan Romano

**.8824**

Leadoff Singles



**Way  
worse!**

**.6071**

Leadoff Walks



**Way  
better!**



# Top Pitching Teams



**Brewers**

**.9268**

Leadoff Singles

**Way worse!**



**Padres**

**.7889**

Leadoff Walks

**Way better!**



**Mariners**

# Bottom Pitching Teams



**Rockies**

**1.0988**

Leadoff Singles

**Way better!**



**Athletics**

**1.1814**

Leadoff Walks

**Way worse!**



**Royals**

# The Conclusion



**Overall, there's no  
difference, but...**



**For good teams,  
singles are worse!**



**In the 9th, look  
out for singles**



**Plus, I proved my  
dad wrong :)**



“The only church that truly feeds the soul, day-in day-out, is the Church of Baseball”

- **Bull Durham**





**THE END!**

# Icon pack: Baseball

Here's an assortment of alternative resources whose style fits the one of this template:



# Alternative resources

Here's an assortment of alternative resources whose style fits the one of this template:



# Fonts & colors used

This presentation has been made using the following fonts:

## Arvo

(<https://fonts.google.com/specimen/Arvo>)

## Nunito

(<https://fonts.google.com/specimen/Nunito>)

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#ffe3bd

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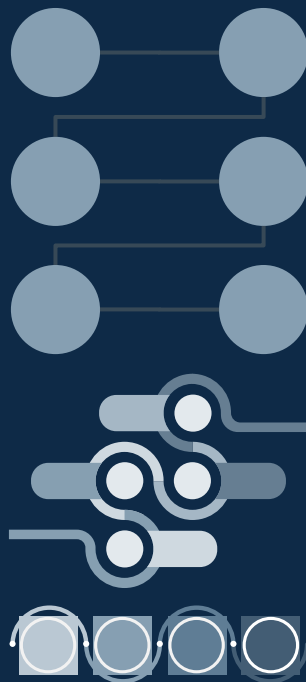
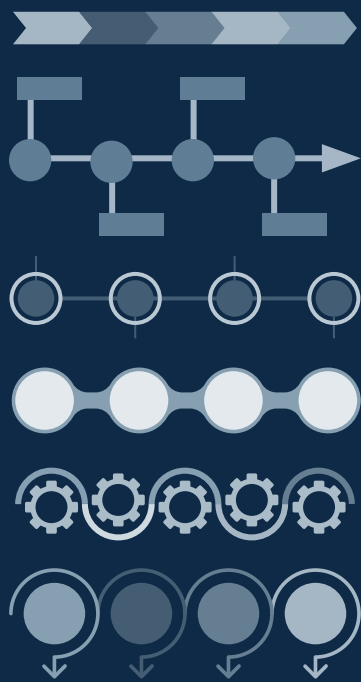
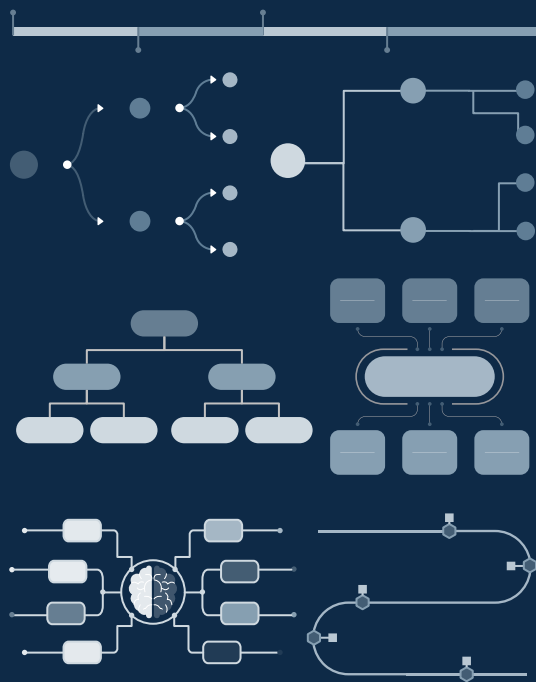
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# ...and our sets of editable icons

You can **resize** these icons without losing quality.

You can **change the stroke and fill color**; just select the icon and click on the **paint bucket/pen**.

In Google Slides, you can also use **Flaticon's extension**, allowing you to customize and add even more icons.



## Educational Icons



## Medical Icons



## A large grid of 100 blue icons representing various business and management concepts. The icons are arranged in a 10x10 grid and include symbols for communication (speech bubbles, handshake), time (clock, stopwatch), organization (hierarchy charts, puzzle pieces), technology (laptop, cloud, smartphone), and general business (bar charts, target, gear).

## Help & Support Icons



## Avatar Icons



## Creative Process Icons



## Performing Arts Icons



# Nature Icons



# SEO & Marketing Icons

