



Atlantic League Baseball General Statistics Filtering Widget

Facilitating On-Field Access to Statistics for Coaches

AUTHOR: Gabriel De Romana, MENTOR: Dr. Anton Danbura
JHU Sports Analytics Research Group sports-analytics.cs.jhu.edu



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Introduction

Baseball coaches rely on several statistics to make real-time decisions while on the field

ISSUE:
The current issue is that most leagues and organizations do not allow coaches to use electronic devices or screens during games, making decision-making more difficult and leaving coaches blindsided.

SOLUTION:
The aim of this project is to address this problem by creating an app that integrates Pointstreak data (a real-time technology data tracker) with a user-friendly interface. The app will allow coaches to quickly filter through data, print it, and bring it to the field when necessary.

Objectives

- Create a functional and user-friendly widget interface that allows for sorting, filtering, and organizing baseball player and team data. Enable filtering by Team, Player, and provide the option to sort in descending order by the desired statistic.
- Extract data from the Pointstreak API.
- Understand user needs by consulting with coaches and staff to prioritize the most relevant statistics.
- Print filtered data based on user selection as a PDF that can be taken to the field.

Widget Functionality

Baseball Performance Widget

Filter and View Key Player Statistics for Batting, Fielding, and Pitching

Print

Batting Stats

Select Team (Batting)

All

Select Player (Batting)

All

Sort By (Batting)

None

	Player	Team	P	AVG	G	AB	R	H	2B
0	Castro, L	SI	IF	0.356	95	343	77	122	20
1	Casey, D	YRK	OF	0.348	79	322	78	112	21
2	Martin Jr, R	YRK	OF	0.326	112	402	108	131	26
3	Howard, G	LAN	OF	0.325	117	425	94	138	31
4	Grotjohn, R	HP	IF	0.324	88	321	66	104	16

Fielding Stats

Select Team (Fielding)

All

Select Player (Fielding)

All

Sort By (Fielding)

CG

	Player	Team	G	GS	CG	IP	H	R
4	Davidson, B	GAS	22	142	123	2	0	1
3	Coulter, C	GAS	48	107	79	6	0	1
2	Campagna, J	HAG	50	58	58	1	0	1
1	Baylor, J	YRK	14	22	27	0	0	1
0	Aklinski, B	HP	125	9	8	0	0	1

Pitching Stats

Select Team (Pitching)

LAN

Select Player (Pitching)

All

Sort By (Pitching)

None

	Player	Team	G	GS	CG	IP	H	R	ERA
1	Bremer, N	LAN	29	24	0	135.1	138	63	4.06
2	Green, M	LAN	30	20	0	120	125	68	4.35

3 PRINT FUNCTIONALITY

After filtering the data as desired, coaches will be able to click 'Print,' and the selected data will be converted into a PDF for printing. This will facilitate accessibility to data on the field for decision-making.

1 THREE TABLE ORGANIZATION:

The widget provides a user-friendly experience. Using the ALPB color scheme, the data is organized into three tables—Batting, Fielding, and Pitching—to present an organized view that helps coaches make informed decisions.

2 INTUITIVE FILTERING OPTIONS:

Above each table, users have three drop-down menus to filter and organize the data to their liking. They can filter by team, by player, and also choose a variable to sort the data in descending order—making it easier to identify extreme values.

Baseball Performance Widget

Filter and View Key Player Statistics for Batting, Fielding, and Pitching

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Batting Stats

Filters: Team = YRK, Player = All, Sort = RUNS

PLAYER	JERSEY	TEAM	P	AVG	AB	RUNS	HITS	HR	RBI	BB	HP	SO	SF	SB	DP	BIB	TRIB	OSP	SLG
Soularis, A	10	YRK	U	0.385	26	7	10	2	7	2	1	5	1	4	0	1	1	433	.721
Wiel, Z	11	YRK	IF	0.3	30	7	9	1	7	1	1	8	1	2	0	0	0	333	.400
Dawson, C	4	YRK	IF	0.31	29	6	9	0	4	4	2	5	0	3	0	4	0	.429	.448
Baldwin, R	2	YRK	C	0.296	27	5	8	2	8	1	0	7	0	0	1	1	0	.321	.556
McDermott, M	7	YRK	IF	0.276	29	5	8	0	4	2	1	7	0	1	0	1	0	.344	.310
Washington, D	39	YRK	IF	0.222	27	5	6	0	2	5	0	18	0	1	0	2	0	.344	.296
Rhinesmith, J	9	YRK	OF	0.458	24	4	11	1	7	7	0	3	0	1	0	3	0	.581	.708
Martin Jr, R	1	YRK	OF	0.214	28	4	6	2	6	4	0	5	1	1	0	1	0	.303	.464
Reyes, A	16	YRK	IF	0.176	17	3	3	0	0	1	0	6	0	1	2	0	0	.222	.176

Fielding Stats

Filters: Team = All, Player = Barnum, K, Sort = None

PLAYER	JERSEY	TEAM	FPCT	GP	PO	A	P
Barnum, K	34	CWV	1.0	2	16	0	1B

Pitching Stats

Filters: Team = GAS, Player = All, Sort = CG

PLAYER	JERSEY	TEAM	ERA	G	GS	CG	CGL	IP	HITS	RUNS	ER	BB	SO	SV	BSV	WINS	LOSSES	BF	SHO
Honath, N	13	GAS	0.0	4	0	0	0	3.1	1	0	0	1	7	0	0	0	0	12	0
Blanton, B	10	GAS	0.0	3	0	0	0	3.2	1	0	0	1	4	0	0	0	0	12	0

Sources Throughout Project

Pointstreak API

The data used by the widget is extracted from the Pointstreak database. Currently, the Atlantic League of Professional Baseball maintains a large database containing the data in an unfiltered format.

Batting Stats

Batting Stats | Expanded Batting Stats | Sabermetric Batting

AVG - Minimum of plate appearances per team game = 2.7

Player	Team	P	AVG	G	AB	R
Castro, L	SI	IF	.356	95	343	77
Casey, D	YRK	OF	.348	79	322	78
Martin Jr, R	YRK	OF	.326	112	402	108
Howard, G	LAN	OF	.325	117	425	94
Grotjohn, R	HP	IF	.324	88	321	66
Botthcher, M	LI	IF	.323	91	337	67

Mr. Derek Wolfe (ALPB Coach)

Mr. Wolfe is entering his third season (as of 2023) as the hitting coach for the York Revolution in the Atlantic League. He brings extensive coaching experience across various levels of baseball, along with a strong foundation in baseball analytics. Mr. Wolfe provided valuable feedback and guidance throughout the development of this project, helping to ensure the tool's usability and practicality from a coach's perspective.

Conclusion

This widget will help coaches make informed decisions by improving access to real-time data. A future update, after about 25 games, may add color-coding to highlight extreme values and enhance visibility.

References

