

**Scorecard Generator**  
version 2.0  
Description and README  
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## 1 Quick Start

1. Download the version of the app appropriate to your operating system.
2. Unzip.
3. Run from within the unzipped folder.

## 2 Description

Scorecard Generator is a Python-based application that automatically generates a .pdf scorecard for professional baseball games of various leagues, including MLB. The scorecard is populated with each team's starting lineup. The scorecards produced consist of 3 pages: two scorecard pages (away and home team) and a page listing the team rosters and, if desired, detailed season statistics. The generated scorecard differentiates between right-handed, left-handed, and switch-hitting players. Team and league logos are also included to make the scorecard more interesting visually. I then import the .pdf scorecard into GoodNotes to score on my iPad, though users are, of course, free to use the output as they prefer.

An example of the scorecard produced by this application (with detailed statistics, records, and logos enabled) is attached at the end of this document.

## 3 Operation

The application is provided in the form of a .py code, which can be executed on any machine with python and the appropriate packages installed. I have attempted to create executable files to share, but without paying a fee to Apple it seems that these will not work on most macs, so the python option is for now the only one available.

The application is based on command-line entries by the user. It proceeds as follows.

1. The application defaults today's MLB games. The user is presented with a list of today's games and their starting times (currently in central time only). If no games are scheduled, the user is notified.
2. Users can select a game for which to create a scorecard by entering the corresponding number.

3. Alternatively, users can select from a number of options:
  - (a) Toggle “manual mode” in which no scorecard is produced. Instead, simple starting lineups are presented in the terminal. I use this to prepare my manual scorecard.
  - (b) Change dates.
  - (c) Change leagues. Leagues currently supported are MLB, MILB, Mexican League, winter leagues (e.g., Dominican, Mexican, Venezuelan, and Puerto Rican leagues), and the World Baseball Classic.
  - (d) Toggle presentation of detailed statistics. In standard mode, the third page of the scorecard presents the full active rosters and season statistics for each team as of the game in question. Turning off detailed statistics results in only the rosters being presented with no statistics.
  - (e) Toggle presentation of team records. If the scorecard is created after the completion of the game, the team’s record may already reflect the outcome of the game. To prevent spoilers, the program can be set to present the record as X-X instead of the actual record.
  - (f) Toggle inclusion of logos. If turned off, no logos will be included. Some leagues are not linked to logos, and will automatically enter no-logo mode.
4. The creation of the statistics page aims to produce a page that covers regular season statistics for the regular season and postseason statistics for the postseason. For some winter leagues (and perhaps others), this creates an issue in which no statistics are produced. In this case, users can either accept the default to include all statistics since the beginning of the regular season, or to set a custom start date for the statistics range.
5. The user is asked to provide a name under which to save the resulting `.pdf` scorecard.
6. The application uses data collected from MLB’s Stats API, assembles the `LATEX` code and sends it to YtoTech’s `latex-on-http` compiler.
7. The `.pdf` scorecard is saved to the working directory, or to the same directory in which the executable file is stored.

Note that the application will fail if both teams have not yet posted their starting lineups. A message will be presented to the user in this case.

Note also that the application can be used to create scorecards for past games, reflecting the game’s starting lineups. But, having been written with future use in mind, this will not always work, and will be less likely to work the further in the past is a game. Arbitrarily, the application is written to reject years prior to 2010.

## 4 Credits

The application builds substantially on the MLB-StatsAPI (`statsapi`) package in python, which in turn accesses the MLB's Stats API, and on YtoTech's latex-on-http compiler. Portions of the code were written with the assistance of ChatGPT.

## 5 Future Development Options

The current format of the scorecard generated by the program reflects my personal taste in scorecard construction. Clearly, other users may have different preferences. If you are interested in any changes, please let me know. If it turns out that there is enough interest in this application, I will consider adding options to change the format of the scorecard. Please feel free to share any other ideas that might improve the application.

## 6 Copyright

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No	Player	Pos	1	2	3	4	5	6	7	8	9	10	AB	R	H	RBI
9	Larnach	0														
50	Castro, W	7														
4	Correa	6														
18	Clemens	4														
13	France, T	3														
38	Wallner	9														
12	Bader	8														
23	Lewis, R	5														
8	Vázquez	2														
	Totals R/H															

No	Pitcher	IP	H	R	ER	BB	K
41	Ryan						

## Minnesota Twins at Colorado Rockies July 20, 2025



No	Player	Pos	1	2	3	4	5	6	7	8	9	10	AB	R	H	RBI
22	Moniak	8														
15	Goodman	0														
27	Beck	7														
24	McMahon	5														
4	Toglia	3														
35	Fernández, Y	9														
20	Nola, Au	2														
11	Arcia, Or	6														
6	Farmer, K	4														
Totals R/H																

No	Pitcher	IP	H	R	ER	BB	K
48	Márquez						

Minnesota Twins at Colorado Rockies  
July 20, 2025



Minnesota Twins (48-51)										Colorado Rockies (24-75)										
		PA	Avg	OBP	Slg	OPS	RBI	HR	SB			PA	Avg	OBP	Slg	OPS	RBI	HR	SB	
<i>Infielders</i>										<i>Infielders</i>										
2	Lee, B	3B	305	.251	.285	.369	.654	36	8	1	1	Amador	2B	102	.146	.240	.225	.465	5	1
4	Correa	SS	330	.266	.312	.393	.705	31	7	0	4	Toglia	1B	313	.201	.272	.367	.639	31	10
13	France, T	1B	357	.248	.311	.353	.664	42	6	1	6	Farmer, K	2B	220	.218	.264	.345	.609	20	4
18	Clemens	2B	174	.221	.301	.519	.820	29	12	0	11	Arcia, Or	SS	123	.188	.228	.274	.502	6	2
23	Lewis, R	3B	156	.211	.276	.296	.572	13	2	0	14	Tovar	SS	146	.272	.313	.434	.747	13	4
											24	McMahon	3B	385	.214	.309	.392	.701	32	15
<i>Outfielders</i>										<i>Outfielders</i>										
9	Larnach	RF	372	.246	.313	.413	.726	42	13	2	2	Freeman, T	RF	197	.324	.401	.435	.836	15	1
12	Bader	LF	274	.252	.332	.434	.766	35	11	8	9	Doyle, B	CF	336	.205	.256	.324	.580	30	7
21	Keirsey Jr.	CF	72	.101	.139	.145	.284	4	1	6	22	Moniak	RF	258	.268	.318	.527	.845	35	13
25	Buxton	CF	343	.289	.350	.575	.925	57	22	17	27	Beck	LF	347	.269	.323	.459	.782	33	11
38	Wallner	RF	206	.204	.296	.442	.738	17	10	0	35	Fernández, Y	RF	32	.290	.313	.355	.668	2	0
50	Castro, W	LF	300	.263	.355	.439	.794	27	10	8										
<i>Catchers</i>										<i>Catchers</i>										
8	Vázquez	C	165	.167	.236	.247	.483	9	2	0	15	Goodman	C	350	.282	.329	.528	.857	55	18
27	Jeffers	C	297	.258	.350	.412	.762	34	7	0	20	Nola, Au	C	19	.222	.222	.222	.444	0	0
<i>Pitchers</i>										<i>Pitchers</i>										
20	Paddack		105	5.14	3	9	0			18	Feltner		30	4.75	0	2	0		1.48	25
22	Jax		41	3.92	1	4	0	.000		21	Freeland, K		95	5.19	2	10	0		1.53	70
24	Woods Richardson		73	3.95	5	4	0			26	Gomber		28	5.65	0	3	0		1.60	14
37	Varland		44	1.81	3	3	0	.000		36	Agnos		28	5.46	1	3	4	1.000	1.39	17
41	Ryan		109	2.72	9	4	0			38	Vodnik		28	2.86	3	3	2	.333	1.41	30
44	Sands		40	4.28	3	3	2	.500		40	Kinley		43	6.28	0	3	3	.500	1.56	43
48	Topa		39	4.08	1	3	0	.000		44	Herget, J		49	2.94	0	1	0	.000	1.39	40
52	Matthews		23	6.26	1	2	0			47	Mejia, J		34	4.46	1	0	0	.000	1.22	33
54	Coulombe		27	0.65	1	0	2	1.000		48	Márquez		95	5.57	3	10	0		1.60	71
57	Misiewicz		4	10.38	0	0	0			49	Senzatela		98	6.41	4	13	0		1.83	52
58	Festa, D		48	5.25	3	3	0			50	Rolison		26	7.62	0	0	0		1.73	16
59	Duran, J		43	1.66	5	4	15	.882		54	Halvorsen		36	5.15	1	2	9	.750	1.55	34
61	Stewart, B		30	2.67	1	1	0	.000		59	Bird		50	4.09	3	1	0	.000	1.42	60
										64	Blalock		21	9.97	0	2	0		1.80	9