





Search Player Name or Team


8/3

 MIL 4


 PIT 2


 5th

 OAK

 LAA

9:38 PM

 COL

 SD

9:40 PM

[\(/gamefeed?gamePk=662324\)](/gamefeed?gamePk=662324)[\(/preview?game_pk=663375&qame_date=2022-8-3\)](/preview?game_pk=663375&qame_date=2022-8-3)[\(/preview?game_pk=662244\)](/preview?game_pk=662244)



Gerrit Cole

P | B/T: R/R | 6' 4" 220LBS | Age: 31

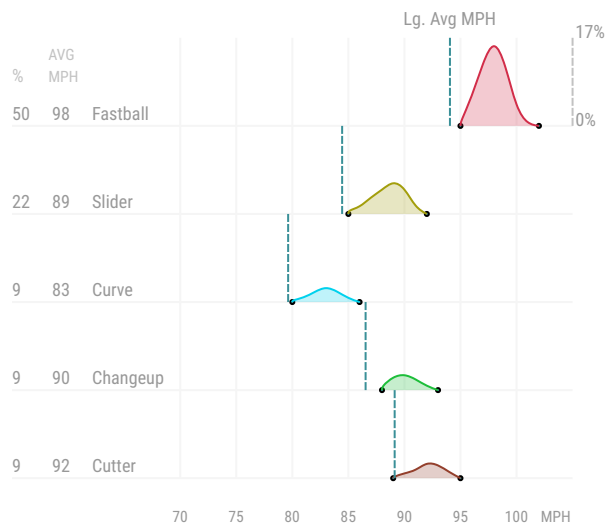
Draft: 2011 (/draft?year=2011) | Rd: 1, #1, Pittsburgh Pirates (/draft?team_id=&year=2011) | UCLA

Player Apps

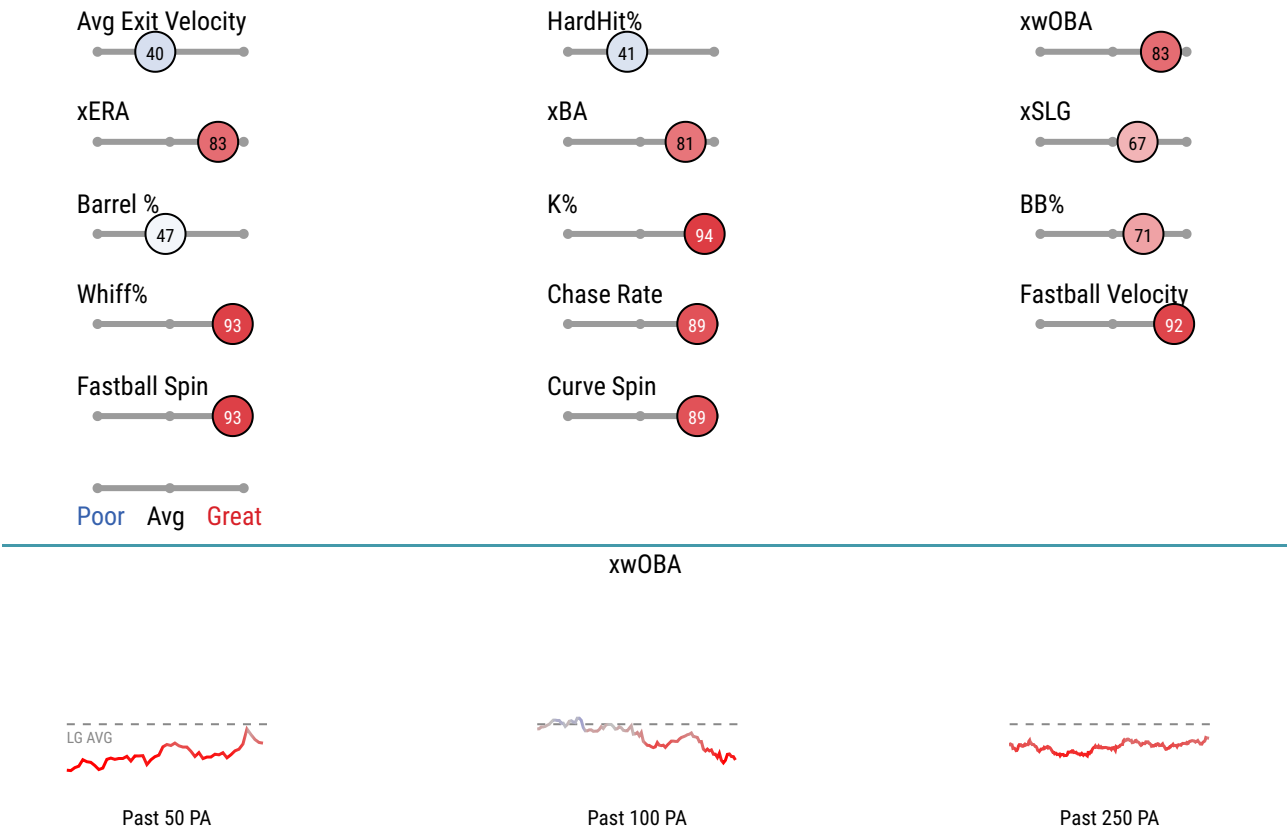
Pitch Highlighter (/visuals/statcast-pitch-highlighter?playerId=543037&batHand=&pitchHand=&pitchType=&year=2022&zone=) | Visual Pitch Report (/player-scroll?player_id=543037) | Player Similarity (/affinity-pitchersAndHitters-byHittingProfile#players=pitchers&player=543037-R&s=0.8) | 3d Pitches (/visuals/pitch3d?player_id=543037) | Pitch Mix (/pitchmix#543037_2022) | Plinko (/visuals/pitch-plinko?playerId=543037&playerName=Gerrit Cole&year=2022&swarm=false&interval=1000) | Texture Map (/visuals/texture-heatmap?playerId=543037&playerName=Gerrit Cole&year=2022&batSide=) | Shifts (/visuals/pitcher-positioning?playerId=543037&opponent=&teamId=&firstBase=0&shift=1&season=2022&attempts=25&batSide=) | Swing Take Profile (/visuals/swing-take?playerId=543037&playerSet=pitchers&year=2022) | Illustrator (/illustrator?playerId=543037&playerType=pitcher&name=Gerrit Cole&tabSelection=0&shape=square&shapeName=Square%20(Instagram)&subTitle=&chartType=zoneChart-totalPitches&chartName=Zone%20-%20Total%20Pitches&pitcherThrows=&batterStands=&plateAppearanceResults=)&pitchTypes=)&pitchResults=)&facingPlayer=)&balls=)&years=[2022]&strikes=)&outs=)&selectedGames=)&homeTeam=)&awayTeam=)&vsTeam=)&exitVelocityGT=0&exitVelocityLT=125&pitchVelocityGT=0&pitchVelocityLT=105&launchAngleGT=90&launchAngleLT=90) | Zone Swing Profile (/visuals/profile?pitch_type=&batter=&pitcher=&balls=&strikes=&year=2022&min_strikes=0&bucket_size=.5&chart_type=swings&player_id=543037&position=1&player_name=Gerrit Cole) | Player Comparison (/player-comparison?playerIds=543037&seasons=2022&pitchSpeedGT=49&pitchSpeedLT=106&launchSpeedGT=29&launchSpeedLT=126&ddlChartType=contour&ddlPitcherThrows=&ddlBatterStar) | Transaction History (/visuals/transactions?bam_id=543037)

Show Random Video

2022 Pitch Distribution



2022 MLB Percentile Rankings



Stats

	G	W-L	ERA	IP	SO	WHIP
2022	22	9-4	3.56	131.1	170	1.04
10 Seasons	256	126-67	3.23	1580.2	1843	1.11

STATCAST (/SAVANT-PLAYER/GERRIT-COLE-543037#STATCAST)	STANDARD (/SAVANT-PLAYER/GERRIT-COLE-543037#STANDARD)
SPLITS (/SAVANT-PLAYER/GERRIT-COLE-543037#SPLITS)	GAME LOGS (/SAVANT-PLAYER/GERRIT-COLE-543037#GAMELOGS)

BATTING

PITCHING

FIELDING

RUNNING

BREAKDOWNS

ZONES

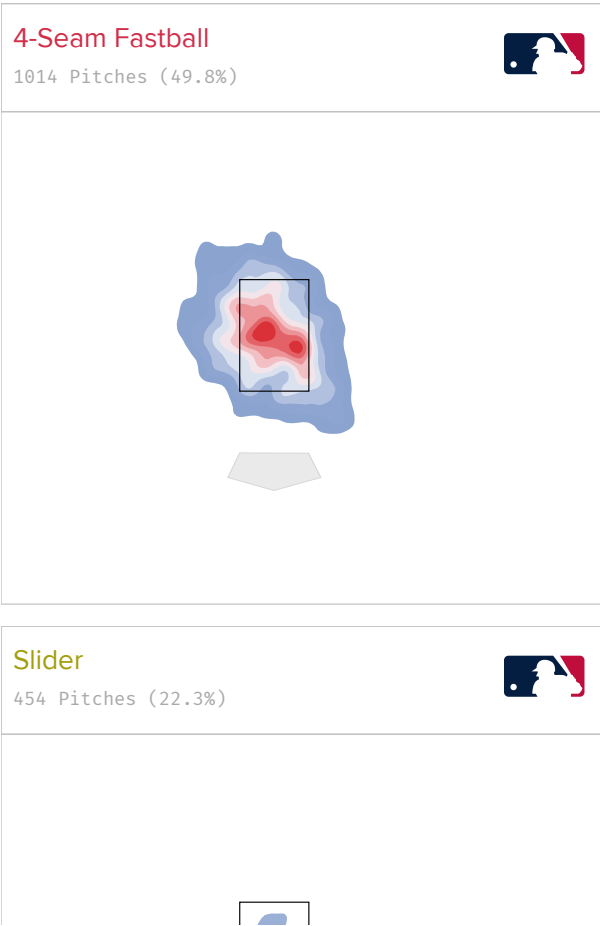
Statcast Statistics

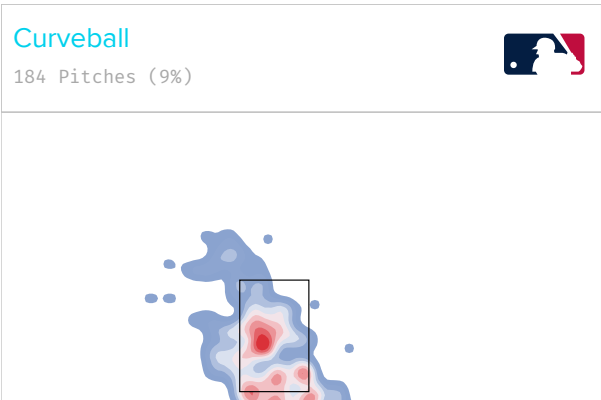
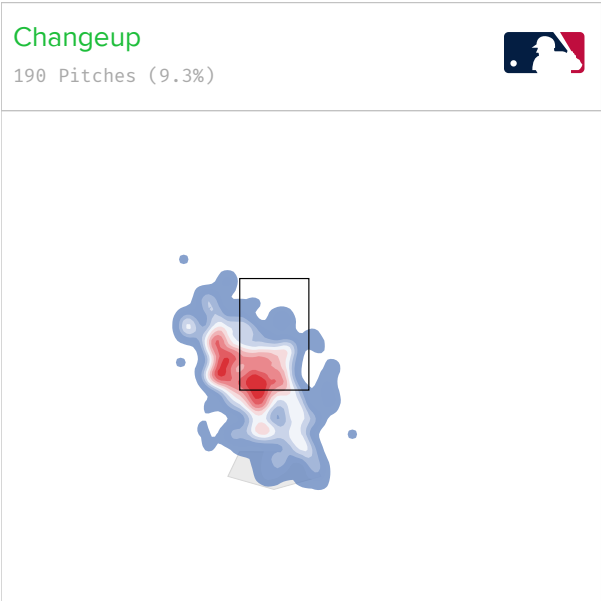
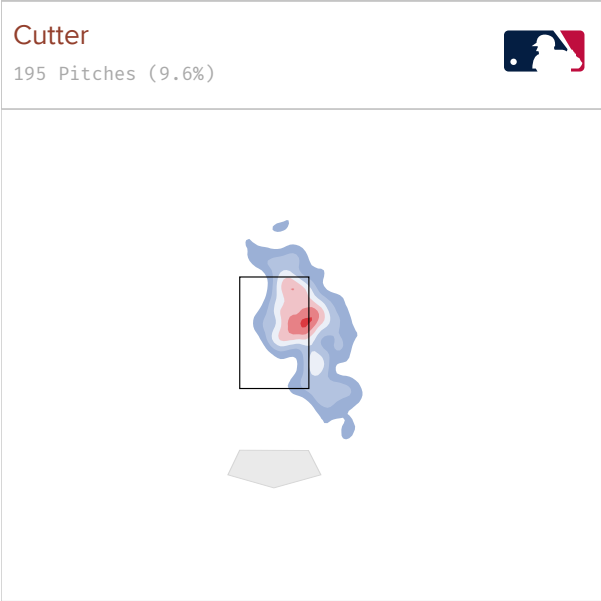
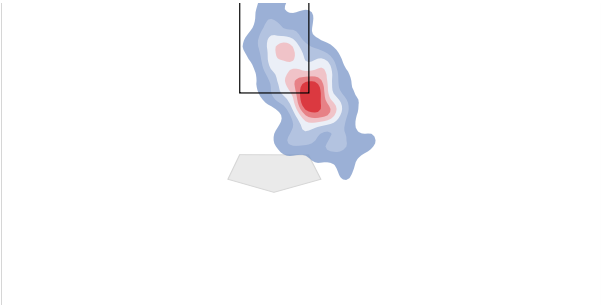
Season	Age	Pitches	Batted Balls	Barrels	Barrel %	Barrel/PA	Exit Velocity	Max EV	Launch Angle	Sweet Spot %	XBA	XSLG	WOBA	XWOBA	XWOBACon
2015	24	3238	576	25	4.3	3	88.2	114.8	8.7	34.7	.241	.370	.274	.294	.362
2016	25	1938	366	11	3	2.2	87.8	110.8	8.0	36.3	.268	.378	.326	.309	.352
2017	26	3298	594	45	7.6	5.3	86.3	111.7	11.1	34.0	.257	.428	.315	.317	.387
2018	27	3257	452	28	6.2	3.5	89.1	110.8	15.8	35.8	.198	.336	.265	.271	.371
2019	28	3362	440	26	5.9	3.2	87.6	115.2	14.0	33.2	.181	.315	.246	.238	.362
2020	29	1203	175	16	9.1	5.6	90.4	114.0	16.4	32.0	.199	.382	.279	.274	.376
2021	30	2969	440	43	9.8	5.9	88.7	114.1	12.5	33.0	.209	.369	.276	.273	.384
2022	31	2037	304	23	7.6	4.6	88.9	112.4	12.1	29.3	.208	.356	.275	.272	.373
Player		21302	3347	217	6.5	4.1	88.1	115.2	11.9	33.9	.220	.366	.281	.281	.371
MLB					6.7	4.6	88.4	122.2	12.1	33.0	.245	.406	.316	.315	.368

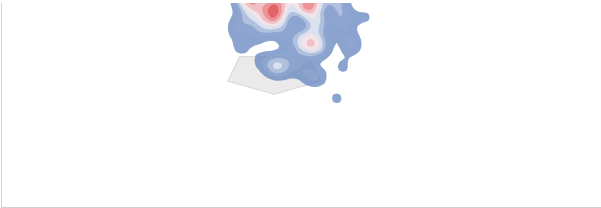
! Note: All figures in this table cover the period 2015-present.

Statcast Pitch Arsenal


Cole relies on 5 pitches. 4-Seam Fastball (49.8%) Slider (22.3%) Cutter (9.6%) Changeup (9.3%) Curveball (9%)











ALL PITCHES	▼
SELECT ZONE	▼
SHOW CONTOUR ONLY	▼
2022	▼

- + If Available Pitches Click to Video.
- + View Gerrit Cole's Pitches in 3d (/visuals/pitch3d?player_id=543037)
- + Similar Pitchers to Gerrit Cole Based on Velocity and Movement:
- 

2021 - Edward Cabrera (/savant-player/665795)
- 

2018 - Chad Kuhl (/savant-player/641771)
- 

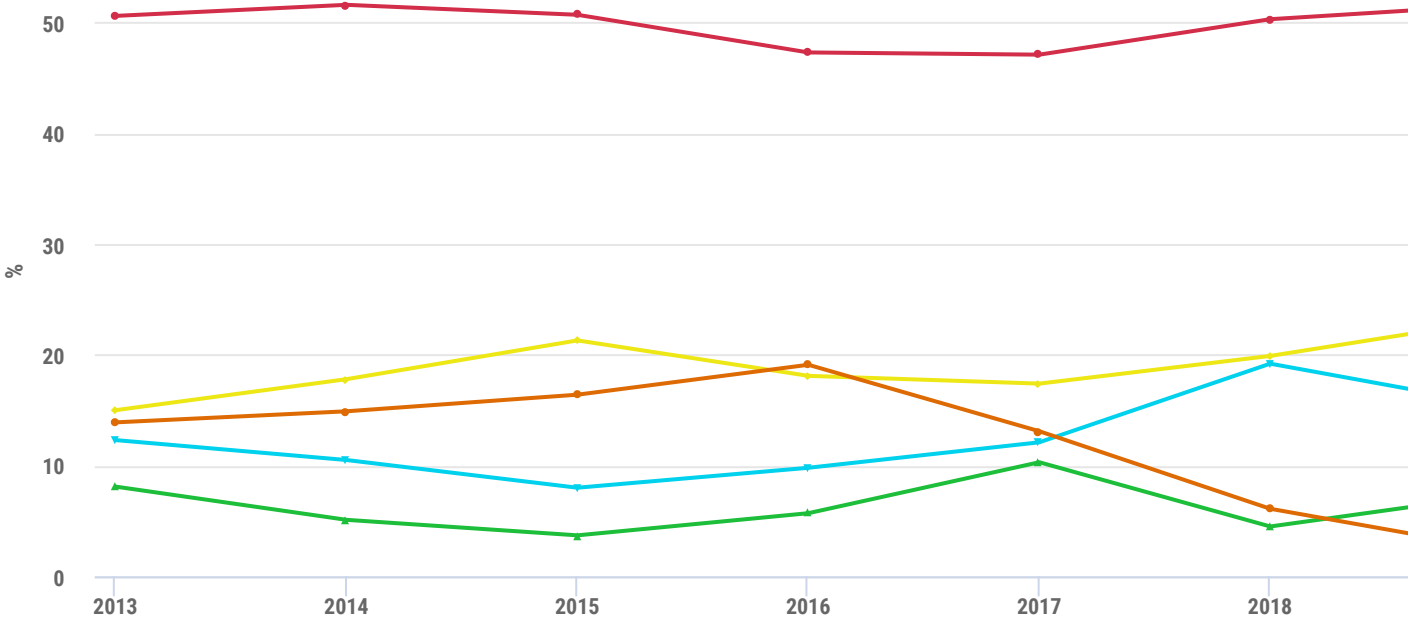
2019 - Zack Wheeler (/savant-player/554430)
- 

2016 - Stephen Strasburg (/savant-player/544931)
- 

2016 - Rubby De La Rosa (/savant-player/523989)
- Compare All Similar Pitchers (/affinity-pitchers-bySHV#players=pitchers&player=543037-R)

Gerrit Cole Pitch % by Seas

Source: baseballsavant.mlb.com



- PITCH %
- PITCHES
- SEASON
- HANDEDNESS
- COUNT
- ALL PITCHES
- ALL SEASONS

Pitch Tracking

Year	Pitch Type	#	# RHB	# LHB	%	MPH	PA	AB	H	1B	2B	3B	HR
2022	4-Seam Fastball	1,014	455	559	49.8	97.8	235	213	44	24	12	0	1
2022	Slider	454	368	86	22.3	88.5	135	129	26	19	3	0	1
2022	Cutter	195	99	96	9.6	92.1	45	42	10	6	1	0	1
2022	Changeup	190	22	168	9.3	89.8	48	46	7	3	1	0	1
2022	Curveball	184	60	124	9.0	82.8	36	35	10	7	3	0	1
2021	4-Seam Fastball	1,399	732	667	47.1	97.7	312	289	65	41	11	0	1
2021	Slider	659	565	94	22.2	88.4	178	164	29	17	9	0	1
2021	Curveball	465	217	248	15.7	83.4	90	87	26	19	2	1	1
2021	Changeup	421	135	286	14.2	89.8	137	128	27	19	5	0	1

Year	Pitch Type	#	# RHB	# LHB	%	MPH	PA	AB	H	1B	2B	3B	HI
2021	Sinker	25	10	15	0.8	97.7	9	9	4	3	0	0	

! Note: Years are in reverse order.

+ View More Seasons

Batted Ball Profile

Season	GB %	FB %	LD %	PU %	Pull %	Straight %	Oppo %	Weak %	Topped %	Under %	Flare/Burner %	Solid %	Barrel %	Barrel/PA
2015	49.0	19.3	27.6	4.2	32.8	41.5	25.3	3.3	39.2	19.8	25.7	5.4	4.3	3.0
2016	47.8	17.5	29.2	5.5	32.5	39.9	27.6	3.0	35.2	21.3	30.1	4.9	3.0	2.2
2017	46.6	20.7	25.1	7.6	35.2	35.2	29.3	5.7	30.8	22.4	27.1	4.0	7.6	5.3
2018	37.6	26.5	26.5	9.3	29.4	42.5	27.0	3.1	28.3	28.8	23.5	9.3	6.2	3.5
2019	40.7	26.8	24.3	8.2	31.4	39.5	29.1	3.0	31.8	27.7	22.0	8.9	5.9	3.2
2020	37.7	30.3	25.1	6.9	40.0	34.9	25.1	3.4	29.1	29.1	15.4	12.0	9.1	5.6
2021	42.7	28.2	22.5	6.6	31.4	42.5	26.1	3.6	31.1	26.8	24.5	3.9	9.8	5.9
2022	42.8	28.0	21.7	7.6	34.5	37.5	28.0	3.6	30.9	24.7	21.7	9.5	7.6	4.6
Player	43.8	23.8	25.4	6.9	32.9	39.5	27.3	3.7	32.5	24.5	24.6	6.6	6.5	4.1
MLB	44.9	23.0	25.1	7.1	36.7	37.8	25.4	3.8	33.1	24.5	24.4	5.7	6.7	4.6

! Note: All figures in this table cover the period 2015-present.

Similar Pitchers to Gerrit Cole:



2015 - Will Harris (/savant-player/501789)



2015 - Cole Hamels (/savant-player/430935)



2015 - Kyle Hendricks (/savant-player/543294)



2015 - Aaron Nola (/savant-player/605400)



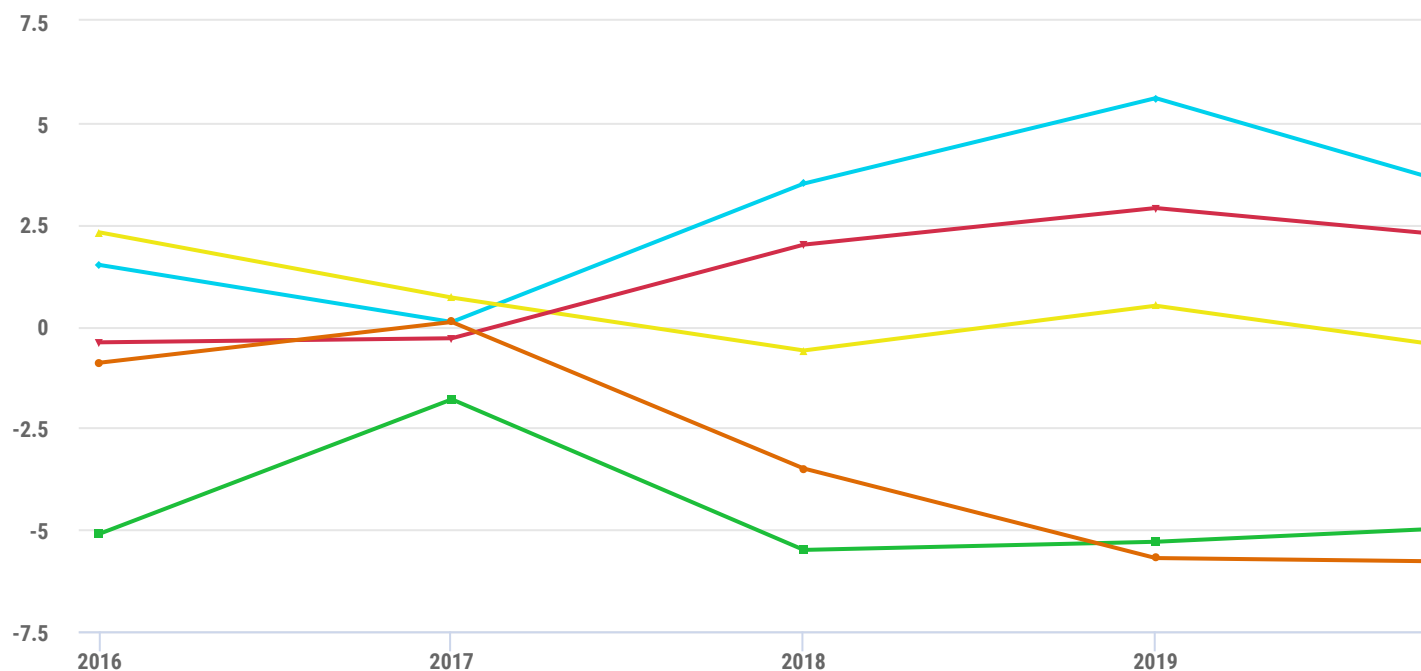
2017 - Kevin Gausman (/savant-player/592332)

-- Compare All Similar Pitchers (/affinity-pitchersAndHitters-byHittingProfile#players=pitchers&player=543037-R)

Pitch Movement

Gerrit Cole Vertical Movement vs Avg (In

Source: baseballsavant.mlb.com




















VERTICAL MOVEMENT VS AVG (INCHES)



How this works: Every pitch is affected by the forces of gravity, which means that every pitch drops on its way from the mound to the plate. These numbers are reported with gravity, which makes them larger and different than other pitch movement numbers you may have seen. Since gravity requires time, and slower pitches aren't 'better' just because they have more time to move, the movement of a pitch is compared to 'average' movement by comparing it to other MLB pitch types within +/- 2 MPH and from within +/- 0.5 feet of extension and release.



























Year	Pitch	Team	Hand	#	MPH	Vertical Movement (inches)			Horizontal Movement (inches)		
						Inches of Drop	vs Avg	% vs Avg	Inches of Break	vs Avg	% Break vs Avg
2022	Cutter	NYY	R	195	92.1	24.1	-1.3	-6	0.3	-1.6	-82
2022	Curveball	NYY	R	184	82.8	53.6	5.0	10	10.4	2.0	24
2022	Changeup	NYY	R	190	89.8	24.6	-4.0	-14	13.8	-0.8	-5
2022	Slider	NYY	R	454	88.5	34.8	2.8	9	5.2	1.1	28
2022	4-Seamer	NYY	R	1,014	97.8	10.3	2.7	21	10.5	2.4	30
2021	Curveball	NYY	R	465	83.4	51.6	3.5	7	10.5	2.2	26
2021	Changeup	NYY	R	421	89.8	24.0	-4.0	-14	15.8	1.3	9
2021	4-Seamer	NYY	R	1,399	97.7	10.9	2.1	16	12.0	3.6	43
2021	Sinker	NYY	R	25	97.7	14.3	-3.9	-21	16.8	1.8	12
2021	Slider	NYY	R	659	88.4	34.4	2.5	8	5.3	1.5	37
2020	Sinker	NYY	R	3	96.0	14.1	-5.8	-29	16.3	1.5	10
2020	Slider	NYY	R	296	88.7	31.0	-0.7	-2	5.0	1.4	40
2020	Curveball	NYY	R	205	83.4	50.9	3.1	7	9.5	1.3	16
2020	4-Seamer	NYY	R	632	96.7	11.5	2.1	16	12.2	4.2	52
2020	Changeup	NYY	R	67	88.3	24.5	-4.9	-17	15.5	1.8	13
2019	4-Seamer	HOU	R	1,733	97.1	10.9	2.9	21	11.4	3.6	45
2019	Slider	HOU	R	778	89.2	31.8	0.5	2	4.9	1.7	52
2019	Curveball	HOU	R	519	82.6	55.6	5.6	11	11.7	3.9	51

Year	Pitch	Team	Hand	#	MPH	Vertical Movement (inches)			Horizontal Movement (inches)		
						Inches of Drop	vs Avg	% vs Avg	Inches of Break	vs Avg	% Break vs Avg
2019	Sinker	 HOU	R	80	97.1	13.8	-5.7	-29	15.1	0.2	1
2019	Changeup	 HOU	R	250	88.6	22.9	-5.3	-19	15.3	1.0	7
2018	Slider	 HOU	R	649	88.7	31.5	-0.6	-2	5.2	1.3	33
2018	Changeup	 HOU	R	145	87.7	24.5	-5.5	-18	14.5	0.2	1
2018	4-Seamer	 HOU	R	1,639	96.5	12.5	2.0	14	11.1	3.1	39
2018	Curveball	 HOU	R	626	82.5	52.8	3.5	7	12.4	3.6	41
2018	Sinker	 HOU	R	197	96.3	16.3	-3.5	-18	15.6	0.6	4
2017	Curveball	 PIT	R	397	80.4	50.2	0.1	0	11.7	2.5	27
2017	Slider	 PIT	R	569	88.1	32.1	0.7	2	2.6	-0.2	-9
2017	Changeup	 PIT	R	338	88.5	26.2	-1.8	-6	16.5	1.9	13
2017	Sinker	 PIT	R	429	95.6	19.8	0.1	0	17.8	2.4	16
2017	4-Seamer	 PIT	R	1,543	95.9	14.0	-0.3	-2	13.4	4.4	49
2016	4-Seamer	 PIT	R	905	95.9	13.7	-0.4	-3	11.4	2.0	22
2016	Changeup	 PIT	R	108	88.8	22.3	-5.1	-19	14.2	0.3	2
2016	Curveball	 PIT	R	188	81.7	49.0	1.5	3	13.1	5.6	75
2016	Sinker	 PIT	R	366	96.0	16.9	-0.9	-5	15.6	0.4	3
2016	Slider	 PIT	R	346	88.2	31.7	2.3	8	3.1	1.5	92

! Note: Years are in reverse order.

+ View Complete Pitch Movement Leaderboard (/pitch-movement)

Run Values by Pitch Type

Year	Pitch Type	Team	RV/100	Run Value	Pitches	%	PA	BA	SLG	wOBA	Whiff%	K%	PutAway %
2022	4-Seamer		-0.9	-9	1,014	49.8	235	.207	.376	.291	31.6	37.9	26.3
2022	Slider		-0.7	-3	454	22.3	135	.202	.318	.264	42.0	34.8	25.0
2022	Cutter		-0.3	-1	195	9.6	45	.238	.476	.335	30.5	11.1	17.2
2022	Changeup		0.1	0	190	9.3	48	.152	.370	.236	31.9	27.1	22.0
2022	Curveball		0.7	1	184	9.0	36	.286	.371	.281	26.4	22.2	15.7
2021	4-Seamer		-1.2	-17	1,399	47.1	312	.225	.398	.292	27.6	34.0	24.1
2021	Slider		-1.6	-10	659	22.2	178	.177	.287	.235	40.4	40.4	27.5
2021	Curveball		0.0	0	465	15.7	90	.299	.483	.358	32.1	25.6	18.7
2021	Changeup		-0.6	-2	421	14.2	137	.211	.320	.267	33.6	29.2	25.6
2021	Sinker		7.1	2	25	0.8	9	.444	.778	.522	29.4	22.2	28.6
2020	4-Seamer		-0.7	-4	632	52.5	157	.226	.466	.323	25.9	22.3	19.9
2020	Slider		-1.3	-4	296	24.6	77	.130	.261	.235	43.3	41.6	23.4
2020	Curveball		-0.5	-1	205	17.0	42	.214	.405	.283	48.0	52.4	30.6
2020	Changeup		-1.5	-1	67	5.6	12	.167	.500	.271	36.7	41.7	26.3
2020	Sinker		-2.1	0	3	0.2		--	--	--	--	--	--
2019	4-Seamer		-2.1	-36	1,733	51.5	401	.166	.348	.264	37.5	44.4	32.8
2019	Slider		-1.4	-11	778	23.1	236	.187	.317	.232	39.9	38.1	27.4
2019	Curveball		-0.1	-1	519	15.4	114	.218	.364	.273	31.9	36.8	25.6
2019	Changeup		0.0	0	250	7.4	46	.238	.381	.291	41.2	28.3	16.5
2019	Sinker		-1.6	-1	80	2.4	19	.294	.353	.308	14.3	10.5	7.7
2018	4-Seamer		-1.4	-22	1,639	50.3	366	.185	.348	.276	29.6	33.9	25.0
2018	Slider		-0.8	-5	649	19.9	192	.209	.311	.267	35.8	37.5	24.7
2018	Curveball		0.3	2	626	19.2	153	.229	.368	.294	33.6	41.2	29.2
2018	Sinker		-3.0	-6	197	6.0	59	.176	.216	.225	16.8	18.6	18.6
2018	Changeup		-1.6	-2	145	4.5	28	.160	.320	.255	31.3	17.9	15.2
2017	4-Seamer		-0.5	-8	1,543	46.8	362	.269	.474	.363	19.6	24.0	20.0

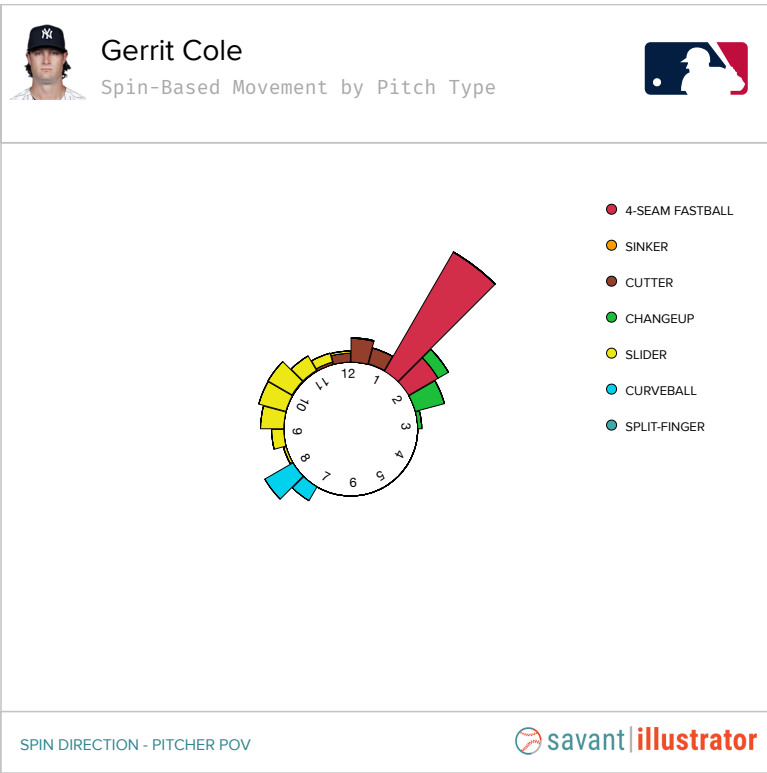
2017	Slider	Team	RV/100	Run Value	Pitches	17.3%	PA	.235	SLG	wOBA	Whiff%	K%	PutAway %
2017	Sinker		0.6	3	429	13.0	139	.264	.416	.353	9.9	9.4	12.3
2017	Curveball		1.5	6	397	12.0	91	.253	.402	.300	25.4	30.8	22.6
2017	Changeup		-0.7	-2	338	10.2	96	.232	.432	.288	20.2	16.7	19.3

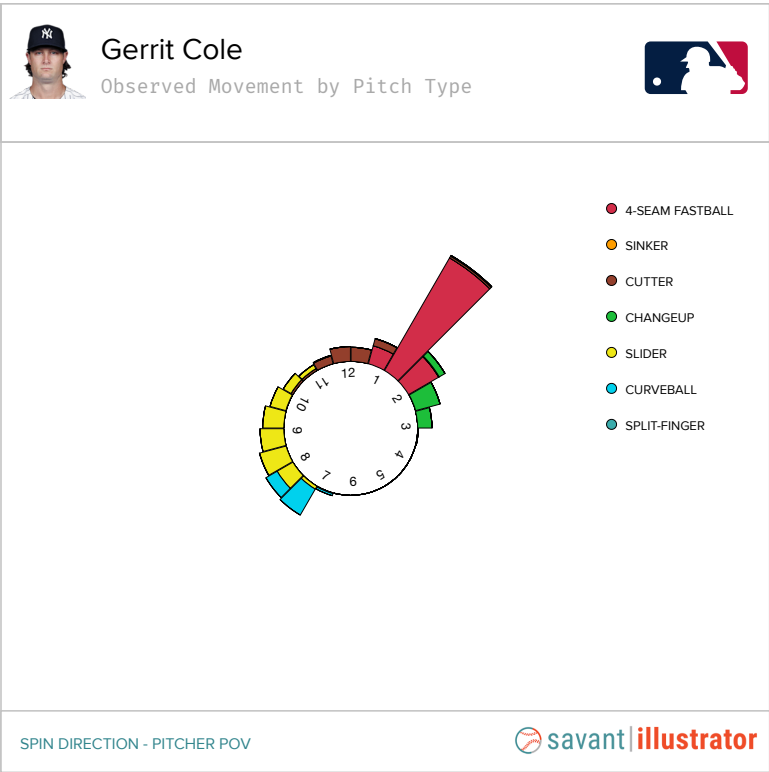
! Note: Years are in reverse order.

+ View Complete Run Value Leaderboard (/leaderboard/pitch-arsenal-stats?type=pitcher)

Spin Direction

Year	Pitch Type	Pitches	MPH	Active Spin %	Total Movement (In.)	Spin-Based	Observed	Deviation
2020	Changeup	67	88.3	99	18.8	2:00	2:00	0
2020	Curveball	203	83.3	70	17.0	7:30	7:15	15
2020	4-Seam Fastball	630	96.7	98	21.6	1:15	1:15	0
2020	Slider	296	88.7	31	6.5	11:00	9:45	75
2021	Changeup	418	89.9	99	18.9	2:00	2:00	0
2021	Curveball	465	83.4	74	18.3	7:15	7:15	0
2021	4-Seam Fastball	1,396	97.7	98	21.5	1:15	1:15	0
2021	Sinker	25	97.7	99	22.5	1:15	1:45	-30
2021	Slider	656	88.4	26	6.3	9:45	8:45	60
2022	Changeup	189	89.8	99	16.9	1:45	2:00	-15
2022	Curveball	184	82.8	75	19.5	7:15	7:15	0
2022	Cutter	194	92.1	43	7.6	12:00	11:45	15
2022	4-Seam Fastball	1,013	97.8	98	21.1	1:00	1:00	0
2022	Slider	453	88.5	25	6.2	9:45	8:30	75





2022



! Note: This table is showing data from the PITCHER perspective.
+ View Complete Spin Direction Leaderboard (/leaderboard/spin-direction-pitches)

Swing/Take

Year	Team	PA	Pitches	Runs				
				Heart	Shadow	Chase	Waste	All
2013	P	507	1,882	-6	-15	4	6	-11
2014	P	570	2,192	-4	-14	8	5	-5
2015	P	852	3,310	-16	-26	4	10	-28
2016	P	503	1,927	-6	-11	9	6	-2
2017	P	843	3,276	-9	-21	14	10	-5
2018	H	850	3,444	-15	-44	14	10	-35
2019	H	954	3,911	-35	-48	14	9	-61
2020	N	361	1,499	-5	-18	4	6	-13
2021	N	738	3,019	-13	-36	12	12	-25
2022	N	499	2,037	-14	-16	13	6	-11

+ View Complete Swing/Take Leaderboard (/leaderboard/swing-take?type=All&year=2022&group=Pitcher)

Plate Discipline

Season	Pitches	Zone %	Zone Swing %	Zone Contact %	Chase %	Chase Contact %	Edge %	1st Pitch Strike %	Swing %	Whiff %	Meatball %	Meatball Swing
2015	3,238	50.3	66.3	85.3	30.2	55.3	41.9	61.7	48.3	22.8	8.1	81.6
2016	1,938	51.1	66.1	88.5	29.6	62.6	42.8	60.3	48.2	18.8	7.2	80.0
2017	3,298	51.2	66.5	82.6	25.5	64.7	41.8	63.5	46.5	21.7	8.4	79.3
2018	3,257	53.5	67.5	74.8	29.2	52.3	43.7	63.6	49.6	30.8	8.3	79.9
2019	3,362	52.2	66.0	71.4	32.3	43.1	43.6	64.3	49.9	37.2	9.1	78.4
2020	1,203	48.5	67.1	75.3	33.1	47.3	43.1	63.5	49.6	34.2	7.6	78.0
2021	2,969	48.7	66.8	75.2	32.0	53.6	42.4	66.8	48.9	31.9	8.4	77.1
2022	2,037	48.3	65.7	75.1	33.2	49.1	44.0	61.1	48.9	33.8	7.9	75.8

Player	Pitches	Zone %	Swing %	Zone Contact %	Chase %	Chase Contact %	Edge %	1st Pitches	Strike %	Swing %	Whiff %	Meatball %	Meatball %	Swing
MLB		48.5	66.9	82.0	28.4	58.4	42.6	60.7		47.0	24.6	7.2		76.0








! Note: All figures in this table cover the period 2015-present.

Percentile Rankings













Year	xwOBA	xBA	xSLG	xISO	xOBP	Brl	Brl%	EV	HardHit%	K%	BB%	Whiff%	xERA	FB Velo	FB Spin	CB Spin
2015	67	52	61	63	71	19	70	46	34	74	83	51	67	92	40	76
2016	52	21	62	88	33	65	93	69	76	38	61	17	52	89	38	77
2017	45	35	35	38	62	2	18	71	39	61	81	31	45	90	32	79
2018	88	91	83	62	90	22	55	25	13	95	53	82	88	94	82	92
2019	98	97	96	82	99	30	70	75	59	99	81	98	98	96	95	92
2020	82	85	57	34	95	4	25	16	14	89	82	87	82	94	94	81
2021	87	83	65	49	95	5	16	53	51	95	88	85	87	97	91	86
2022	83	81	67	50	92	14	47	40	41	94	71	93	83	92	93	89

+ View Complete Percentile Rankings Leaderboard (/leaderboard/percentile-rankings?type=pitcher)

Expected Home Runs

Year	Team	Avg HR Trot	Actual HR	xHR	HR-xHR	Doubters	Mostly Gone	No Doubters	No Doubter %
2016		21.4	7	6.2	1	7	4	3	42.9
2017		21.9	31	31.3	0	16	23	14	45.2
2018		23.0	20	17.6	2	11	13	7	35.0
2019		22.1	33	26.2	7	14	17	13	39.4
2020		22.9	18	16.5	2	4	12	7	38.9
2021		23.9	26	26.2	0	10	17	13	50.0
2022		25.1	18	18.9	-1	3	12	9	50.0

Expected Home Runs by Park

Year	HR												
2016	7	5	8	5	7	7	4	7	7	3	8	7	3
2017	31	32	38	30	30	36	28	35	34	28	31	31	25
2018	20	21	25	16	15	19	16	21	19	14	20	17	15
2019	33	32	31	27	24	23	27	31	30	22	28	25	15
2020	18	18	18	16	16	16	0	19	16	16	19	15	14
2021	26	32	26	22	26	29	24	28	25	22	28	27	21
2022	18	19	21	17	20	19	21	16	20	19	18	18	17

! Note: This tells how many of this player's home runs would have been out of other stadiums. This accounts for different wall heights, distances and environmental effects. For these purposes, the 2020 Blue Jays home field was still Rogers Centre, not Sahlen Field.

+ View Complete Expected Home Runs Leaderboard (/leaderboard/home-runs?player_type=Pitcher)

Year to Year Changes

Metric	2015	2016	+/-	2017	+/-	2018	+/-	2019	+/-	2020
Fastball Velocity (/leaderboard/statcast-year-to-year?group=Pitcher&type=fastball_velo)	96.3	95.9	-0.4 ↓	95.8	-0.1 ↓	96.5	0.7 ↑	97.1	0.6 ↑	97.1
Offspeed Velocity (/leaderboard/statcast-year-to-year?group=Pitcher&type=offspeed_velo)	88.8	88.8	0	88.5	-0.3 ↓	87.7	-0.8 ↓	88.6	0.9 ↑	88.6
Breaking Velocity (/leaderboard/statcast-year-to-year?group=Pitcher&type=breaking_velo)	86.2	85.9	-0.3 ↓	84.9	-1 ↓	85.7	0.8 ↑	86.6	0.9 ↑	86.6
Exit Velocity (/leaderboard/statcast-year-to-year?group=Pitcher&type=exit_velocity_avg)	88.2	87.8	-0.4 ↓	86.3	-1.5 ↓	89.1	2.8 ↑	87.6	-1.5 ↓	87.6
Launch Angle (/leaderboard/statcast-year-to-year?group=Pitcher&type=launch_angle_avg)	8.7	8	-0.7 ↓	11.1	3.1 ↑	15.8	4.7 ↑	14	-1.8 ↓	14
Barrel % (/leaderboard/statcast-year-to-year?group=Pitcher&type=barrel_batted_rate)	4.3	3	-1.3 ↓	7.6	4.6 ↑	6.2	-1.4 ↓	5.9	-0.3 ↓	5.9
Hard Hit % (/leaderboard/statcast-year-to-year?group=Pitcher&type=hard_hit_percent)	34.7	31.1	-3.6 ↓	34.4	3.3 ↑	39.8	5.4 ↑	35.5	-4.3 ↓	35.5
Sweet Spot % (/leaderboard/statcast-year-to-year?group=Pitcher&type=sweet_spot_percent)	34.7	36.3	1.6 ↑	34	-2.3 ↓	35.8	1.8 ↑	33.2	-2.6 ↓	33.2
xBA (/leaderboard/statcast-year-to-year?group=Pitcher&type=xba)	.241	.268	0.027 ↑	.257	-0.011 ↓	.198	-0.059 ↓	.181	-0.017 ↓	.181
BA (/leaderboard/statcast-year-to-year?group=Pitcher&type=ba)	.230	.280	0.05 ↑	.254	0.025 ↓	.198	-0.056 ↓	.186	-0.012 ↓	.186







Metric	2015	2016	2017	2018	2019	2020	2021	2022
wOBA (/leaderboard/statcast-year-to-year?group=Pitcher&type=woba)	.294	.309	.317	.271	.298	.293	.293	.293
wOBA (/leaderboard/statcast-year-to-year?group=Pitcher&type=woba)	.274	.326	.315	.265	.246	.246	.246	.246
xSLG (/leaderboard/statcast-year-to-year?group=Pitcher&type=xslg)	.37	.378	.428	.336	.315	.315	.315	.315
SLG (/leaderboard/statcast-year-to-year?group=Pitcher&type=slg)	.336	.41	.434	.332	.343	.343	.343	.343
K% (/leaderboard/statcast-year-to-year?group=Pitcher&type=k_percent)	24.3	19.4	23.1	34.5	39.9	39.9	39.9	39.9
BB% (/leaderboard/statcast-year-to-year?group=Pitcher&type=bb_percent)	5.3	7.1	6.5	8	5.9	5.9	5.9	5.9
Swing % (/leaderboard/statcast-year-to-year?group=Pitcher&type=swing_percent)	48.3	48.2	46.5	49.6	49.9	49.9	49.9	49.9
Whiff% (/leaderboard/statcast-year-to-year?group=Pitcher&type=whiff_percent)	22.8	18.8	21.7	30.8	37.2	37.2	37.2	37.2
In Zone % (/leaderboard/statcast-year-to-year?group=Pitcher&type=in_zone_percent)	50.3	51.1	51.2	53.5	52.2	52.2	52.2	52.2
Out of Zone % (/leaderboard/statcast-year-to-year?group=Pitcher&type=out_zone_percent)	49.7	48.9	48.8	46.5	47.8	47.8	47.8	47.8
Out of Zone Swing % (/leaderboard/statcast-year-to-year?group=Pitcher&type=oz_swing_percent)	30.2	29.6	25.5	29.2	32.3	32.3	32.3	32.3
First Pitch Swing % (/leaderboard/statcast-year-to-year?group=Pitcher&type=f_swing_percent)	29.8	28.5	28.6	31.2	32.7	32.7	32.7	32.7
First Pitch Strike % (/leaderboard/statcast-year-to-year?group=Pitcher&type=f_strike_percent)	61.7	60.3	63.5	63.6	64.3	64.3	64.3	64.3

+ View Complete Year to Year Changes Leaderboard (/leaderboard/statcast-year-to-year?group=Pitcher)

Statcast Shift Statistics

			vs RHH			vs LHH		
Year	PA	wOBA	PA	Shifts	%	PA	Shifts	%
2016	497	.321	263	12	4.6	234	35	15.0
2017	846	.314	442	25	5.7	404	87	21.5
2018	799	.265	410	149	36.3	389	242	62.2
2019	817	.246	400	104	26.0	417	360	86.3
2020	287	.280	166	37	22.3	121	65	53.7
2021	716	.276	402	48	11.9	314	152	48.4
2022	499	.275	270	18	6.7	229	148	64.6

Pitch Tempo

		Bases Empty				Runners On Base			
Season	Team	Pitches	Tempo	Fast %	Slow %	Pitches	Tempo	Fast %	Slow %
2013		546	14.3	57.1%	1.1%	230	22.3	2.2%	10.4%
2014		712	15.9	39.5%	1.5%	346	22.6	0.3%	20.2%
2015		1004	16.3	38.8%	4.6%	473	23.0	9.3%	24.5%
2016		526	15.8	42.0%	3.4%	348	22.8	5.5%	21.0%
2017		1006	15.6	42.1%	1.0%	540	21.7	1.3%	9.6%
2018		948	16.5	28.4%	1.8%	496	22.0	2.8%	14.7%
2019		1079	16.8	26.4%	1.8%	420	21.5	1.0%	11.2%
2020		392	16.5	27.3%	1.3%	148	22.1	0.0%	12.2%
2021		918	17.1	26.9%	2.4%	422	24.5	0.2%	15.6%
2022		632	17.6	20.1%	3.6%	278	23.3	0.4%	16.2%

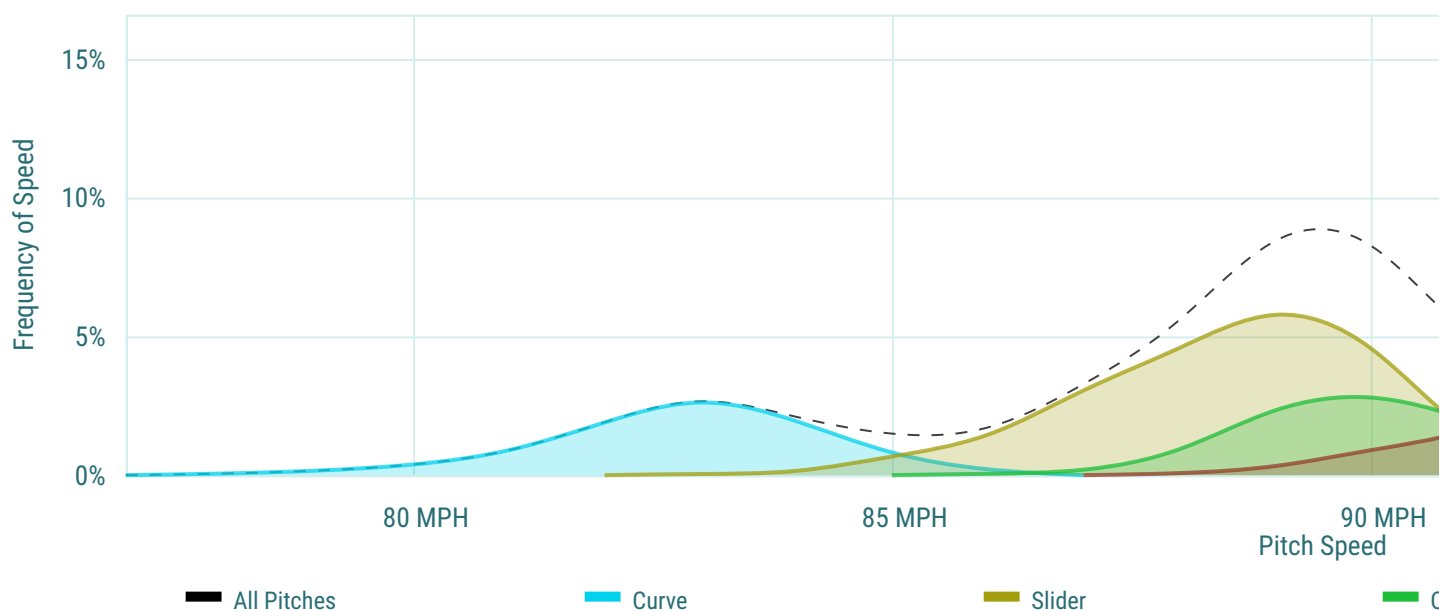
+ View Complete Pitch Tempo Leaderboard (/leaderboard/pitch-tempo)

Pitch Distribution

2022

▼

Gerrit Cole - 2022 Frequency of Pitches by P

Statcast Glossary (<http://m.mlb.com/glossary/statcast>)**Exit Velocity (EV)**

(<http://m.mlb.com/glossary/statcast/exit-velocity>)

How fast, in miles per hour, a ball was hit by a batter.

Launch Angle (LA)

(<http://m.mlb.com/glossary/statcast/launch-angle>)

How high/low, in degrees, a ball was hit by a batter.

Barrels

(<http://m.mlb.com/glossary/statcast/barrel>)

A batted ball with the perfect combination of exit velocity and launch angle

Hard Hit

(<http://m.mlb.com/glossary/statcast/hard-hit-rate>)

Statcast defines a 'hard-hit ball' as one hit with an exit velocity of 95 mph or higher.

Sweet Spot

(<http://m.mlb.com/glossary/statcast/sweet-spot>)

a batted-ball event with a launch angle between eight and 32 degrees.

Batted Ball Event (BBE)

(<http://m.mlb.com/glossary/statcast/batted-ball-event>)

A Batted Ball Event represents any batted ball that produces a result.

Pitch Velocity

(<http://m.mlb.com/glossary/statcast/velocity>)

How hard, in miles per hour, a pitch is thrown.

Pitch Movement

(<http://m.mlb.com/glossary/statcast/pitch-movement>)

The movement of a pitch is defined in inches, both in raw numbers and as a measurement against average.

Active Spin

(<http://m.mlb.com/glossary/statcast/active-spin>)

Statcast refers to the spin that contributes to movement as Active Spin

Spin Rate

(<http://m.mlb.com/glossary/statcast/spin-rate>)

How much spin, in revolutions per minute, a pitch was thrown with

Extension

(<http://m.mlb.com/glossary/statcast/extension>)

How far off the mound, in feet, a pitcher releases the pitch.

Arm Strength

(<http://m.mlb.com/glossary/statcast/arm-strength>)

How hard, in miles per hour, a fielder throws the ball.

Distance Covered

(<http://m.mlb.com/glossary/statcast/distance-covered>)

How far, in feet, a fielder or runner has traveled on a play.

Jump (<http://m.mlb.com/glossary/statcast/jump>)

Jump is a Statcast metric that shows which players have the fastest reactions and most direct routes in the outfield.

Catch Probability

(<http://m.mlb.com/glossary/statcast/catch-probability>)

The likelihood, in percent, that an outfielder will be able to make a catch on an individual batted ball.

Expected Weighted On-base Average (xwOBA)

(<http://m.mlb.com/glossary/statcast/expected-woba>)

xwOBA is formulated using exit velocity, launch angle and, on certain types of batted balls, Sprint Speed.

Sprint Speed

(<http://m.mlb.com/glossary/statcast/sprint-speed>)

A measurement of a player's top running speed, expressed in "feet per second in a player's fastest one-second window."

Pop Time

(<http://m.mlb.com/glossary/statcast/pop-time>)

How quickly, in seconds, a catcher can get the ball out of his glove and to the base on a stolen base or pickoff attempt.

Base-to-base Time

How much time, in seconds, it takes a runner to get from one base to another, like Home To First.

Lead Distance

(<http://m.mlb.com/glossary/statcast/lead-distance>)

How far, in feet, a runner is ranging off the bag at the time of a pitcher's first movement or pitch release.

Outs Above Average (OAA)

(<http://m.mlb.com/glossary/statcast/outs-above-average>)

A range-based metric of skill that shows how many outs a player has saved over his peers.

Expected Batting Average (xBA)

(<http://m.mlb.com/glossary/statcast/expected-batting-average>)

xBA measures the likelihood that a batted ball will become a hit.

Expected Earned Run Avg (xERA)

(<http://m.mlb.com/glossary/statcast/expected-era>)

xERA is a simple 1:1 translation of xwOBA, converted to the ERA scale

Bolt (<http://m.mlb.com/glossary/statcast/bolt>)

A Bolt is any run where the Sprint Speed (defined as "feet per second in a player's fastest one-second window") of the runner is at least 30 ft/sec.



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