

Risk Factor Analysis for Robinhood's 100 Most Popular Stocks

Name	Ticker	Valuation	Economic Moat	Financial Health	Momentum	Volatility	Size	Value Growth	Valuation Uncertainty	Liquidity	Ownership Popularity	Ownership Risk
Activision Blizzard	ATVI	-0.49	0.68	0.63	0.43	0.51	-0.24	-0.26	-0.35	0.62	0.27	-0.13
Advanced Micro Devices	AMD	-0.97	-1.43	-0.42	1.77	0.87	-0.46	1.18	-0.38	1.78	0.02	0.19
Alibaba Group Holding ADR	BABA	-0.42	1.04	0.74	0.70	-0.18	-0.78	0.18	-0.29	0.11	0.03	0.06
Alphabet	GOOGL	-0.17	1.04	0.79	0.22	-0.52	-0.78	-0.84	-0.23	-0.16	-0.03	-0.15
Amazon.com	AMZN	-0.53	1.04	0.33	0.89	0.12	-0.78	1.03	-0.06	0.75	-0.00	-0.04
American Airlines Group	AAL	1.09	-2.07	-2.88	-2.12	0.98	0.93	1.09	0.65	2.39	-0.59	0.48
Aphria	APHA	2.56	-2.45	-0.38	-1.21	1.90	1.73	0.24	1.52	0.75	0.55	-0.32
Apple	AAPL	-0.96	0.34	-0.07	1.36	0.38	-0.78	0.82	-0.14	0.73	-0.02	-0.13
AT&T	T	0.82	0.06	-0.44	-0.80	-0.30	-0.78	-1.57	-0.17	0.26	-0.20	-0.34
Aurora Cannabis	ACB	4.08	-2.28	-2.25	-3.12	4.59	2.14	-1.60	6.50	2.09	-0.78	0.12
Bank of America	BAC	1.36	-0.44	0.71	-0.69	0.15	-0.78	-1.69	1.01	0.46	-0.09	0.04
Berkshire Hathaway Class B	BRK.B	0.30	1.04	0.11	-0.39	-0.66	-0.78	-1.59	-0.32	-0.30	-0.14	-0.12
Beyond Meat	BYND	-0.97	-2.25	-0.72	-0.81	1.32	0.67	1.42	-0.38	2.29	1.48	0.31
Boeing	BA	1.22	1.04	-1.76	-2.07	1.54	-0.44	1.59	0.79	1.66	-0.41	0.03
BP PLC ADR	BP	2.96	-0.95	-1.34	-1.35	0.40	-0.21	-0.91	2.63	0.10	-0.23	0.14
Canopy Growth	CGC	2.20	-2.20	-0.02	-1.48	1.28	1.01	-0.45	0.84	0.69	-0.16	-0.27
Carnival	CCL	1.76	-2.55	-2.57	-2.70	2.14	0.56	-0.59	0.86	1.77	-0.35	0.20
Catalyst Pharmaceuticals	CPRX	0.78	-1.22	0.16	-1.78	1.68	2.45	-0.14	0.30	1.10	0.63	0.82
Coca-Cola	KO	-0.07	1.04	0.12	-0.56	-0.63	-0.78	0.31	-0.29	0.03	-0.08	-0.45
Cronos Group	CRON	1.03	-2.13	0.33	-1.96	2.46	1.57	-0.09	0.01	0.50	-0.14	-0.53
Dave & Buster's Entertainment	PLAY	2.20	-1.57	-3.02	-2.26	2.90	2.02	0.07	2.98	2.57	-0.38	1.09
Delta Air Lines	DAL	1.29	-2.26	-2.06	-1.76	1.01	0.35	-0.37	0.22	1.56	-0.53	0.57
Direxion Daily S&P Oil & Gas E&P Bull 2X ETF	GUSH	1.24	-0.71	-1.00	-0.51	0.62	0.47	-0.50	0.53	0.49	-0.07	0.61
DraftKings	DKNG	-	-	-	-	-	-	-	-	-	-	-
Eastman Kodak	KODK	2.96	-2.03	-2.29	-3.12	2.18	2.05	1.53	0.87	2.57	1.63	1.57
Energy Transfer LP	ET	4.08	-2.26	-2.21	-1.77	0.84	0.50	-1.71	3.58	0.43	-0.29	1.88
Exxon Mobil	XOM	3.04	-0.16	-0.87	-1.54	0.24	-0.66	-1.61	0.24	0.43	-0.18	0.57
Facebook	FB	-0.34	1.04	0.44	0.53	-0.18	-0.78	-0.53	-0.27	0.60	-0.00	-0.07
Fastly	FSLY	-0.97	-1.93	-0.70	2.01	3.22	0.70	1.42	0.25	1.97	2.97	1.43
Fitbit	FIT	0.52	-0.80	1.28	0.73	1.02	1.53	0.65	0.31	1.15	-0.10	-0.62
Ford Motor	F	2.42	-2.39	-1.91	-1.03	0.27	0.20	-0.22	1.72	1.01	-0.29	0.21
FuelCell Energy	FCEL	0.74	-0.30	-2.15	2.01	5.67	2.19	-0.16	1.05	2.01	4.09	3.25
General Electric	GE	1.10	0.23	0.02	-1.17	0.65	-0.17	-1.23	0.17	0.93	-0.30	-0.02
General Motors	GM	1.81	-2.41	-1.96	-0.94	0.53	-0.04	-1.44	0.25	0.84	-0.12	0.08
Gilead Sciences	GILD	-0.01	1.04	0.10	-0.41	-0.56	-0.36	1.08	0.03	0.52	-0.13	-0.24
GoPro	GPRO	1.00	-1.70	-1.44	-0.35	0.83	2.02	0.80	1.04	1.15	-0.00	0.86
Halliburton	HAL	3.25	-0.58	-2.24	-0.86	1.85	0.66	-0.99	0.76	1.05	-0.08	1.63
iBio	IBIO	1.63	-2.22	-1.74	-2.08	2.56	2.37	1.47	3.13	2.28	4.09	2.96
Inovio Pharmaceuticals	INO	1.57	-2.21	-0.56	2.01	5.09	1.52	1.00	3.08	2.57	2.31	1.35
Intel	INTC	0.22	1.04	-0.49	-0.47	-0.35	-0.78	-1.36	0.39	0.51	-0.05	-0.19
Invesco Mortgage Capital	IVR	3.79	-1.07	-3.18	-1.80	1.42	2.21	-1.62	4.03	1.54	-0.77	0.72
Invesco S&P 500 High Div Low Vol ETF	SPHD	0.67	-0.64	-0.88	-0.70	-0.05	0.25	-0.62	-0.09	0.47	-0.11	-0.04
JetBlue Airways	JBLU	2.68	-2.54	-2.19	-1.24	0.77	1.28	-0.67	0.92	1.49	-0.50	0.81

Risk Factor Analysis for Robinhood's 100 Most Popular Stocks (Continued)

Name	Ticker	Valuation	Economic Moat	Financial Health	Momentum	Volatility	Size	Value Growth	Valuation Uncertainty	Liquidity	Ownership Popularity	Ownership Risk
Johnson & Johnson	JNJ	-0.38	1.04	0.48	-0.03	-0.67	-0.78	-0.39	-0.37	-0.24	-0.05	-0.45
JPMorgan Chase	JPM	0.98	-0.02	0.82	-0.70	-0.16	-0.78	-1.57	0.34	0.39	-0.09	-0.19
Kosmos Energy	KOS	2.60	-2.47	-3.10	-1.99	2.89	2.32	-1.27	2.36	1.27	-0.22	0.95
Lyft	LYFT	1.92	-0.50	-0.09	-1.30	1.07	0.76	0.49	0.70	1.43	-0.02	0.21
Marathon Oil	MRO	4.08	-2.55	-2.47	-2.26	1.49	1.26	-1.60	1.69	1.53	-0.35	0.63
MFA Financial	MFA	3.00	-1.07	-3.13	-1.45	1.58	1.75	-1.54	3.14	0.91	-0.90	1.37
MGM Resorts International	MGM	1.33	-1.97	-2.49	-0.83	1.67	0.65	-1.40	0.11	1.46	-0.21	0.61
Microsoft	MSFT	-0.41	1.04	0.36	0.69	-0.64	-0.78	0.34	-0.16	0.19	-0.03	-0.24
Moderna	MRNA	-0.97	-1.85	-0.45	2.01	2.57	0.17	1.05	0.11	1.34	1.23	0.46
Netflix	NFLX	-0.97	1.04	-0.09	0.81	0.37	-0.78	1.12	0.05	0.89	0.15	0.11
New Residential Investment	NRZ	2.54	-1.52	-1.64	-1.64	1.83	1.25	-1.66	2.71	0.77	-0.42	0.89
Nike	NKE	-0.70	1.04	0.06	0.13	-0.02	-0.78	0.98	-0.38	0.36	-0.00	-0.29
Nikola	NKLA	—	—	—	—	—	—	—	—	—	—	—
Nintendo ADR	NTDOY	-0.30	1.04	1.21	0.33	-0.40	-0.28	0.25	-0.38	0.78	0.10	-0.18
NIO ADR	NIO	-0.89	-1.89	-1.24	2.01	5.67	0.21	1.64	0.91	2.13	1.36	0.46
Nokia Oyj ADR	NOK	0.64	-2.54	0.27	-0.46	0.45	0.29	-0.43	-0.29	0.36	0.03	-0.13
Norwegian Cruise Line Holdings	NCLH	1.50	-2.55	-2.80	-2.86	2.75	1.07	-0.15	0.47	2.29	-0.87	0.34
Nvidia	NVDA	-0.97	1.04	-0.29	1.85	1.87	-0.78	0.93	-0.29	1.47	-0.16	0.05
Palantir Technologies	PLTR	—	—	—	—	—	—	—	—	—	—	—
PayPal Holdings	PYPL	-0.97	1.04	0.01	0.96	0.15	-0.78	0.88	-0.17	0.52	0.09	-0.02
Peloton Interactive	PTON	-0.97	-0.72	-0.40	1.89	1.48	0.16	1.30	0.26	2.46	1.28	0.85
Penn National Gaming	PENN	2.09	-1.49	-2.58	1.59	4.08	0.63	1.08	2.79	2.11	0.59	0.94
Pfizer	PFE	0.24	1.04	0.02	-0.29	-0.48	-0.78	-1.00	-0.29	0.12	-0.10	-0.35
Plug Power	PLUG	-0.97	-1.22	-1.36	2.01	1.58	1.00	1.39	0.65	1.92	0.93	1.18
ProShares Ultra Bloomberg Crude Oil	UCO	—	—	—	—	—	—	—	—	—	—	—
Prospect Capital	PSEC	0.96	-1.22	0.89	-0.73	-0.17	1.53	0.08	0.63	0.04	-0.30	1.47
RCL Foods	RCL	0.88	-2.52	-1.59	-0.85	-0.44	2.29	-1.20	1.19	-0.96	0.04	0.05
Rocket Companies	RKT	—	—	—	—	—	—	—	—	—	—	—
Shopify	SHOP	-0.97	0.44	-0.33	1.99	0.08	-0.59	1.53	-0.10	1.17	0.21	0.28
Sirius XM Holdings	SIRI	0.14	0.84	-0.50	-0.57	-0.38	0.26	1.48	-0.38	0.48	0.12	0.30
Slack Technologies	WORK	-0.97	-2.00	-0.30	0.13	0.24	0.47	1.35	-0.38	1.64	0.74	0.77
Snap	SNAP	-0.97	-2.09	-0.48	0.28	1.35	0.01	1.13	-0.16	1.04	0.77	0.54
Sony ADR	SNE	0.08	-1.83	1.14	0.14	-0.54	-0.44	-0.63	-0.38	0.16	-0.03	-0.26
Sorrento Therapeutics	SRNE	0.48	-2.46	-1.66	0.26	2.41	1.31	1.22	2.60	2.51	2.16	0.89
Southwest Airlines	LUV	0.59	-2.19	0.08	-1.20	0.45	0.29	0.39	-0.13	1.19	-0.28	0.38
SPDR S&P 500 ETF Trust	SPY	-0.19	0.60	-0.11	0.07	-0.12	-0.43	-0.02	-0.17	0.36	-0.04	-0.14
Spirit Airlines	SAVE	2.76	-2.52	-2.72	-2.03	1.87	1.62	-0.50	1.60	2.26	-0.64	0.75
Square	SQ	-0.97	0.34	-0.50	1.68	1.70	-0.31	1.33	-0.33	1.36	0.16	0.65
Starbucks	SBUX	-0.11	1.04	-0.50	-0.53	0.01	-0.48	1.53	-0.29	0.42	-0.24	-0.35
Tencent Holdings ADR	TCEHY	-0.37	1.04	0.44	0.53	-0.30	-0.78	0.64	-0.06	-0.59	0.02	0.04
Tesla	TSLA	-0.97	-1.66	-1.11	2.01	3.33	-0.78	1.44	-0.38	2.22	0.28	0.61
The Walt Disney Co	DIS	0.08	1.04	-0.44	-0.46	-0.32	-0.78	-0.54	-0.38	0.26	-0.16	-0.27
TherapeuticsMD	TXMD	1.96	-2.28	-2.05	-2.22	1.62	2.28	1.36	2.28	0.68	-0.24	0.55

Risk Factor Analysis for Robinhood's 100 Most Popular Stocks (Continued)

Name	Ticker	Valuation	Economic Moat	Financial Health	Momentum	Volatility	Size	Value Growth	Valuation Uncertainty	Liquidity	Ownership Popularity	Ownership Risk
Tilray	TLRY	3.58	-2.39	-2.37	-3.12	4.77	2.07	0.27	0.59	1.73	-0.28	-0.18
Twitter	TWTR	-0.55	-1.67	0.13	-0.52	-0.15	0.05	0.74	-0.03	1.31	-0.04	0.58
Uber Technologies	UBER	0.26	0.40	-0.91	-0.40	0.76	-0.25	1.04	0.70	0.89	0.14	0.31
United Airlines Holdings	UAL	1.36	-2.55	-2.63	-2.36	1.51	0.68	-0.49	0.61	2.28	-0.80	0.90
United States Oil	USO	—	—	—	—	—	—	—	—	—	—	—
Vanguard S&P 500 ETF	VOO	-0.20	0.60	-0.11	0.07	-0.12	-0.43	-0.02	-0.18	0.36	-0.04	-0.14
Vanguard Total Stock Market ETF	VTI	-0.15	0.36	-0.20	0.06	-0.00	-0.21	0.03	-0.12	0.41	-0.01	-0.02
Virgin Galactic Holdings	SPCE	0.92	-1.25	-0.54	0.68	1.52	1.14	1.04	3.48	2.09	4.09	0.97
Visa	V	-0.87	1.04	0.02	0.00	-0.30	-0.78	0.31	-0.38	0.08	0.00	-0.23
Walmart	WMT	-0.52	1.04	0.24	-0.01	-0.87	-0.78	-0.69	-0.38	0.19	-0.02	-0.35
Wells Fargo	WFC	1.88	-0.90	0.64	-1.81	0.09	-0.46	-1.59	1.86	0.79	-0.39	-0.15
Workhorse Group	WKHS	0.46	-1.96	-1.32	2.01	3.80	1.36	1.64	2.55	2.57	4.09	0.63
Zoom Video Communications	ZM	-0.97	-1.80	-0.75	2.01	1.89	-0.62	1.52	-0.38	1.93	1.41	-0.01
Zynga	ZNGA	-0.46	-0.93	0.58	0.48	-0.52	0.70	1.21	0.16	1.11	0.37	0.48

Source: Morningstar Direct. Data as of 10/31/2020. Risk Model: Global Equity Model (USD). Based on a hypothetical portfolio with equal weightings in Robinhood's 100 Most Popular stocks.