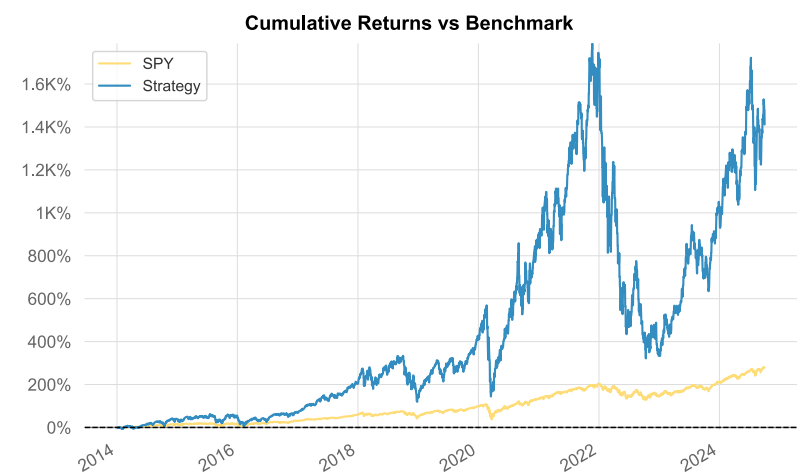


# StockExampleAlgo Compared to SPY 3 Jan, 2014 - 1 Oct, 2024

Benchmark is SPY | Generated by [QuantStats](#) (v. 0.3.3)



Annual Return ⓘ

28.74%

Total Return ⓘ

1,411%

Max Drawdown ⓘ

-77.66%

RoMaD ⓘ

0.37

Longest DD Days ⓘ

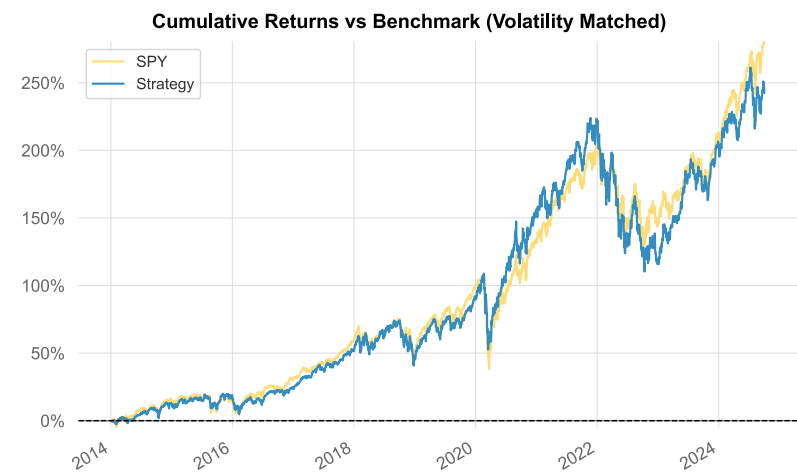
1044

Sharpe ⓘ

0.67

Sortino ⓘ

0.93

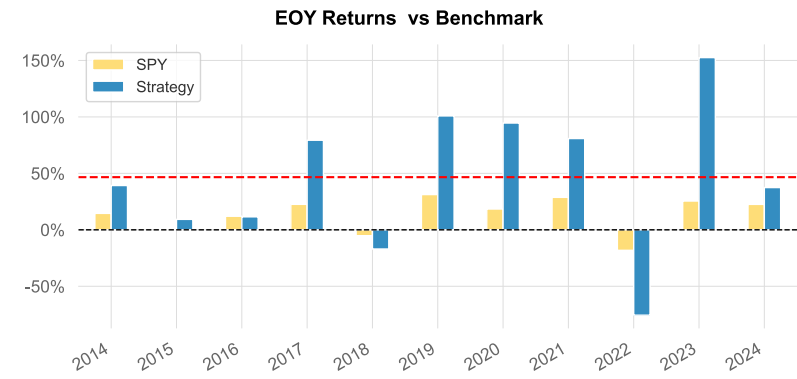


## Parameters Used

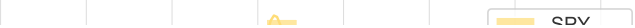
Parameter	Value
config_file_name	tqqq_spy
symbols	['TQQQ', 'SPY']

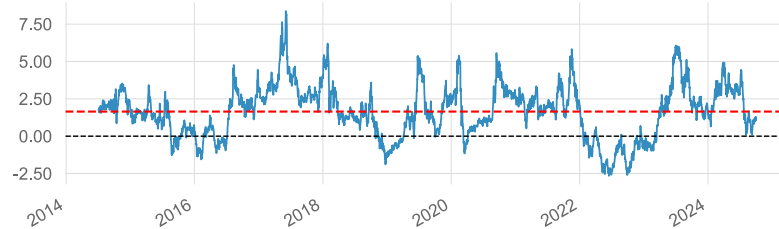
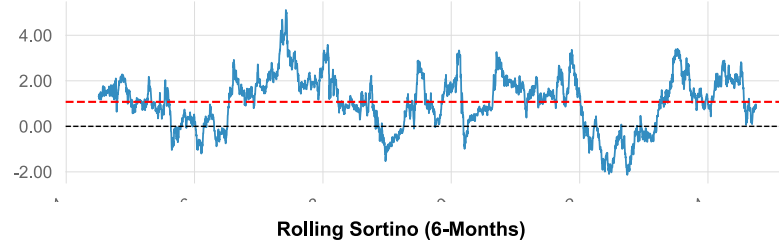
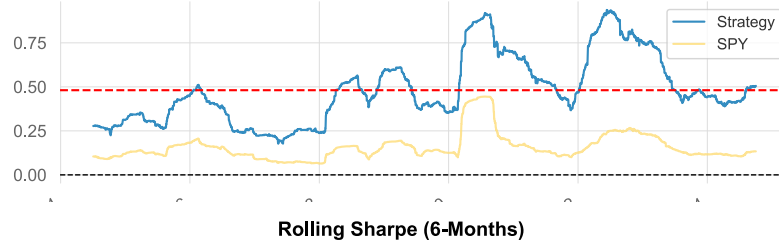
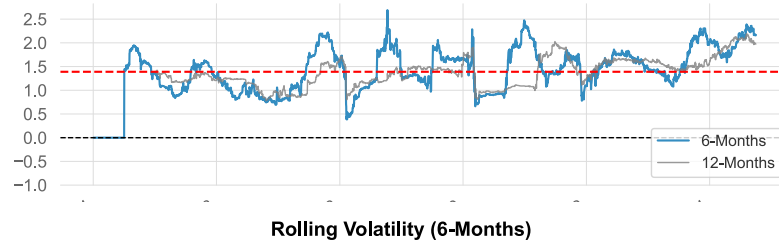
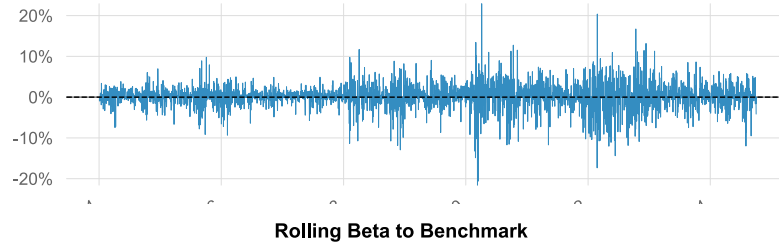
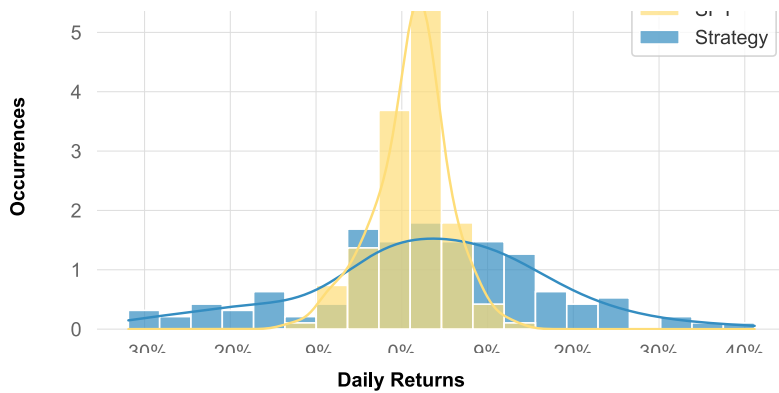
## Key Performance Metrics

Metric	SPY	Strategy
Risk-Free Rate	4.48%	4.48%
Time in Market	69.0%	60.0%
Total Return	280%	1,411%
CAGR% (Annual Return)	13.23%	28.74%
Sharpe	0.55	0.67
RoMaD	0.39	0.37
Corr to Benchmark	1.0	0.45
Prob. Sharpe Ratio	43.88%	36.65%
Smart Sharpe	0.53	0.64
Sortino	0.77	0.93
Smart Sortino	0.74	0.89
Sortino/√2	0.54	0.66

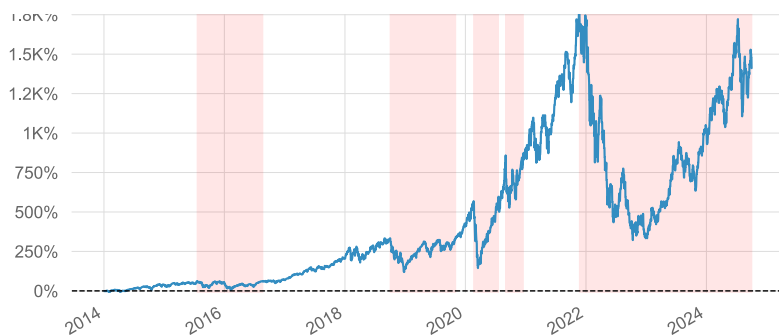


## Distribution of Monthly Returns

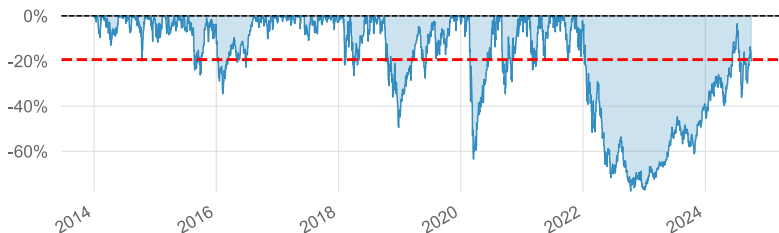




Metric	SPY	Strategy
Smart Sortino/ $\sqrt{2}$	0.52	0.63
Omega	1.14	1.14
Max Drawdown	-33.68%	-77.66%
Longest DD Days	708	1044
Volatility (ann.)	17.21%	51.31%
R <sup>2</sup>	0.2	0.2
Information Ratio	0.03	0.03
Calmar	0.39	0.37
Skew	-0.61	-0.37
Kurtosis	20.24	9.0
Expected Daily%	0.03%	0.07%
Expected Monthly%	1.03%	2.11%
Expected Yearly%	12.91%	28.0%
Daily Value-at-Risk	-1.44%	-4.31%
Expected Shortfall (cVaR)	-1.44%	-4.31%
MTD	0.0%	-4.15%
3M	5.54%	-6.02%
6M	10.58%	14.62%
YTD	22.55%	37.42%
1Y	36.05%	80.37%
3Y (ann.)	9.53%	-3.11%
5Y (ann.)	15.67%	29.19%
10Y (ann.)	13.28%	28.44%
All-time (ann.)	13.23%	28.74%
Best Day	9.06%	22.91%
Worst Day	-10.94%	-21.58%
Best Month	12.7%	41.15%
Worst Month	-12.44%	-31.89%
Best Year	31.23%	152.54%
Worst Year	-18.16%	-75.61%
Avg. Drawdown	-1.61%	-5.86%
Avg. Drawdown Days	17	27
Recovery Factor	4.44	5.34
Ulcer Index	0.07	0.29

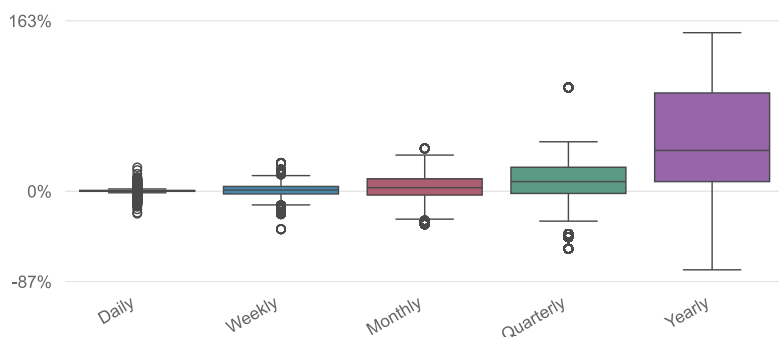


Underwater Plot



2014	-5.73	11.87	-3.38	-1.42	7.51	6.41	-0.11	11.90	-3.88	5.87	8.08	-1.44
2015	-6.44	14.87	-6.24	4.48	3.33	-3.67	7.85	-20.94	-0.25	25.92	1.03	-3.62
2016	-17.67	-0.66	11.26	-3.70	6.47	-4.19	15.37	1.31	2.55	-2.31	4.03	2.40
2017	7.47	11.19	3.01	8.35	6.62	-5.39	9.34	3.53	-2.14	13.12	2.76	3.53
2018	21.28	-2.99	-18.49	4.56	15.70	1.39	6.65	13.20	-0.41	-22.55	-3.98	-21.05
2019	18.35	9.39	12.85	11.57	-20.81	21.60	2.36	-5.11	0.76	10.47	9.78	7.84
2020	14.24	-28.24	-31.89	41.15	24.63	13.56	19.37	34.79	-16.17	-8.70	25.38	12.98
2021	3.44	0.13	1.57	12.44	-4.42	17.89	6.35	14.63	-16.00	22.98	8.10	-0.34
2022	-30.47	-10.61	14.60	-28.45	-14.64	-26.87	32.41	-14.82	-22.49	7.79	-2.99	-16.13
2023	24.60	0.31	18.09	3.90	19.51	14.70	9.84	-3.16	-13.95	-8.78	30.27	10.45
2024	9.03	10.07	-0.10	-11.83	18.14	17.08	-6.81	-0.45	5.70	-4.15	0.00	0.00
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Strategy - Return Quantiles



Metric	SPY	Strategy
Serenity Index	1.41	0.68
Avg. Up Month	3.6%	11.67%
Avg. Down Month	-4.39%	-13.27%
Win Days	2161.15	2213.59
Loss Days	1763.85	1711.41
Win Days%	55.06%	56.4%
Win Month%	71.32%	60.77%
Win Quarter%	81.4%	68.18%
Win Year%	81.82%	81.82%

Beta	-	1.33
Alpha	-	0.2
Correlation	-	44.59%
Treynor Ratio	-	1058.17%

## EOY Returns vs Benchmark

Year	SPY	Strategy	Multiplier	Won
2014	14.57%	39.23%	2.69	+
2015	1.28%	9.26%	7.23	+
2016	12.02%	11.50%	0.96	-
2017	22.58%	79.34%	3.51	+
2018	-5.21%	-16.98%	3.26	-
2019	31.23%	100.89%	3.23	+
2020	18.43%	94.58%	5.13	+
2021	28.77%	80.85%	2.81	+
2022	-18.16%	-75.61%	4.16	-
2023	25.50%	152.54%	5.98	+
2024	22.55%	37.42%	1.66	+

## Worst 10 Drawdowns

Started	Recovered	Drawdown	Days
2021-11-23	2024-10-01	-77.66%	1044
2020-02-21	2020-07-18	-63.47%	149
2018-10-03	2019-11-02	-49.47%	396
2020-09-02	2020-12-16	-34.59%	106

Disclaimer: This report is for informational purposes only and should not be considered as investment advice. Past performance is not indicative of future results.

Started	Recovered	Drawdown	Days
2015-07-21	2016-08-20	-34.45%	397
2018-03-13	2018-06-12	-26.51%	92
2021-02-17	2021-04-12	-23.78%	55
2018-01-30	2018-03-10	-21.76%	40
2014-09-21	2014-10-29	-20.03%	39
2021-04-29	2021-06-12	-19.86%	45