

Volworks[®] is a wealthtech and advisory research firm helping investors and advisors make better data-driven decisions for their equity and ETF investments. Our team has extensive experience in options trading, asset management, data analytics, and software development. Over the past two years, the Volworks Platform has evolved from an options-focused solution into a leading equity and ETF analytics platform in addition to its powerful options capabilities.



October 16th, 2024

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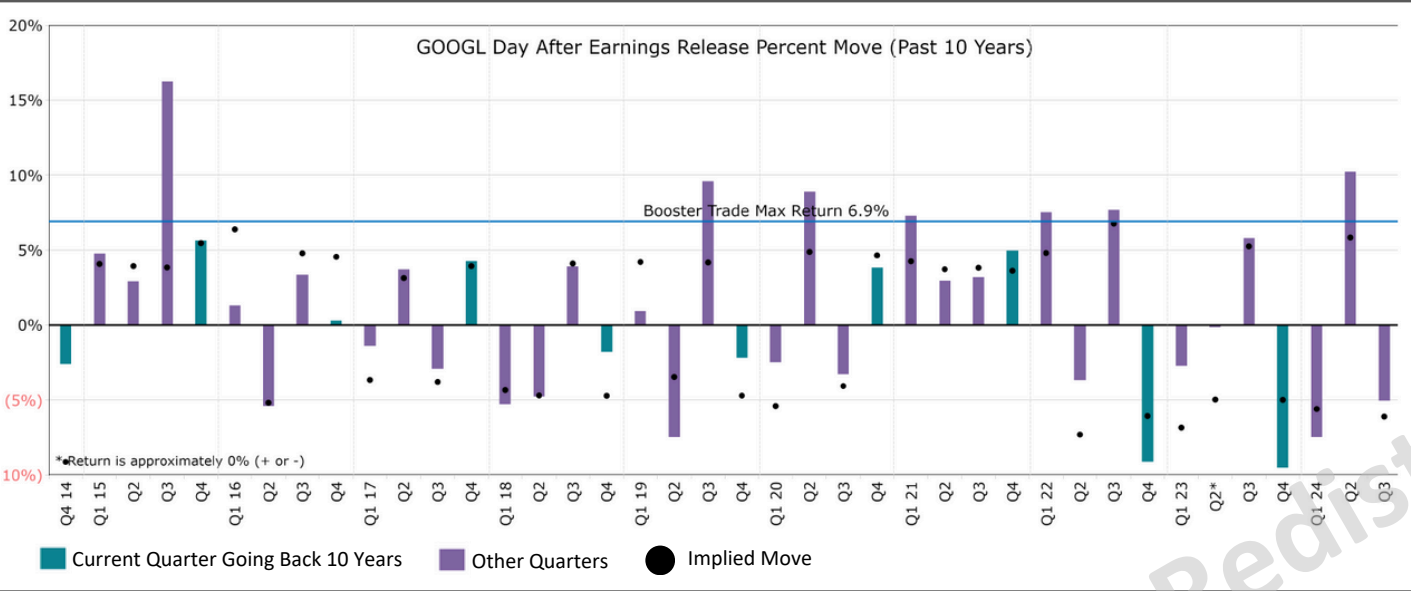
inquiries@volworks.com

GOOGL Earnings Analysis & Earnings Booster Trade

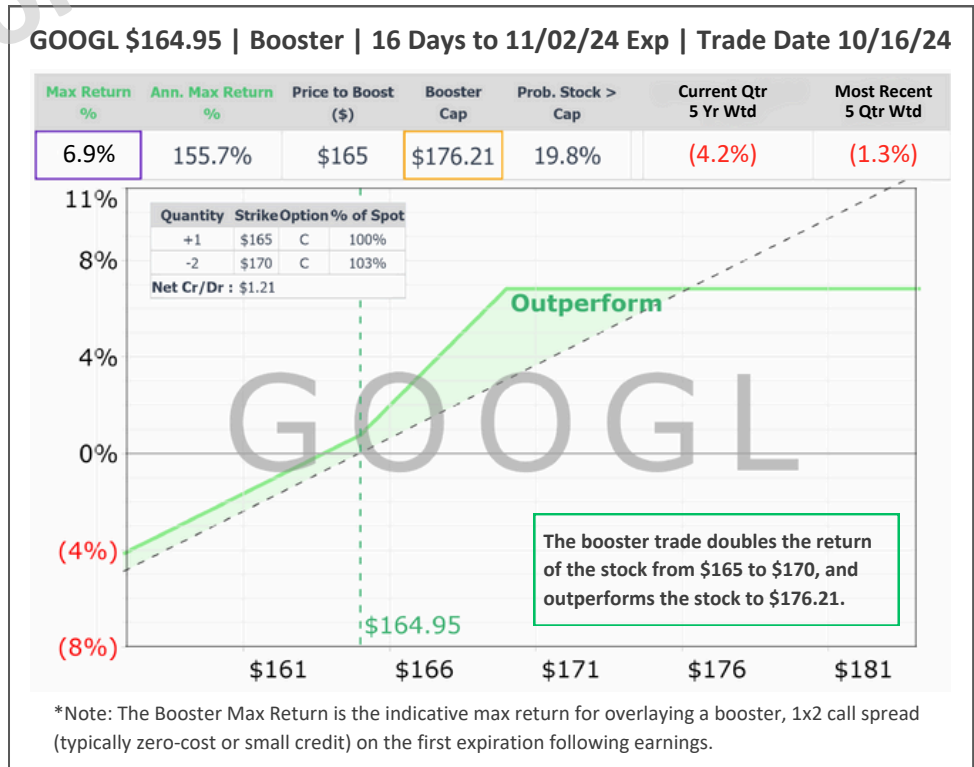
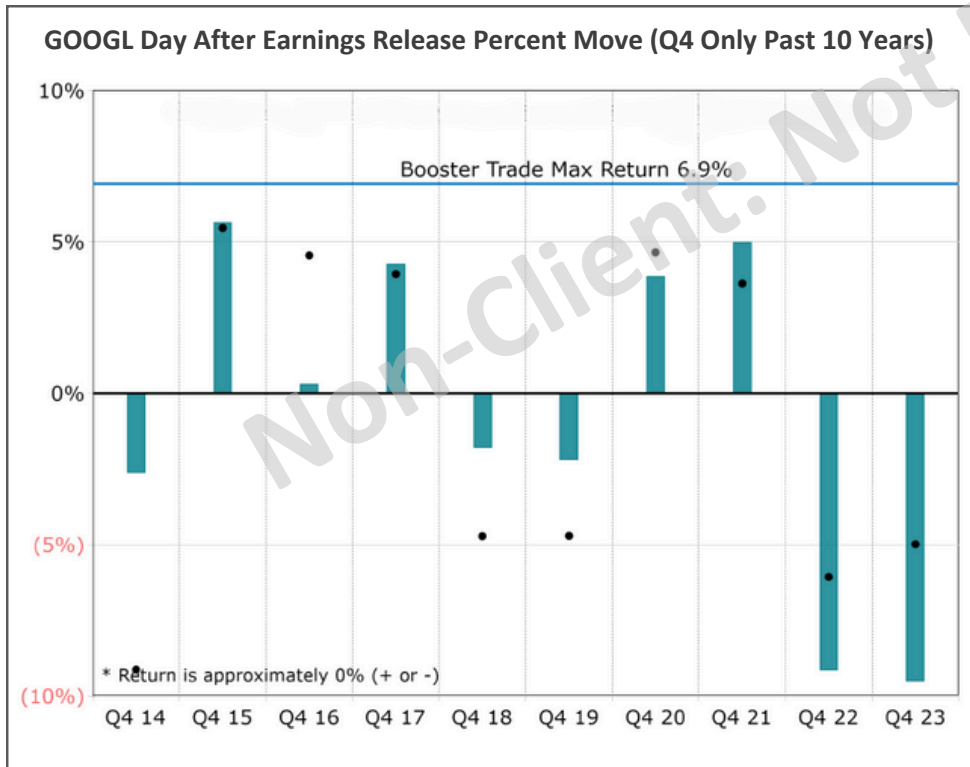
Volworks main objective is to identify statistically favorable post-earnings move opportunities for investors to enhance their returns by overlaying long positions with booster trades (1x2 zero-cost call spreads).

Volworks earnings module and customized reports analyze and present ten years of quarterly earnings data for approximately 1,000 stocks, including S&P 500 stocks, select Russell 2000 stocks, ADRs, and foreign stocks traded in the US. Our analysis looks at various stats and metrics, including previous earnings-related moves, implied moves, and the stock's performance the week before and for up to 28 days post-earnings.

We also allow users of our platform to compare historical earnings moves to SPY and/or any stock or ETF desired for every prior earnings event. Additionally, the Volworks Platform allows users to filter, sort, chart, export to Excel, and customize PDF reports for all stocks in our database.



Summary Statistics	All Qtrs 40 Events	4Q Only 10 Events
Average % Move	1.0%	(-0.6%)
Biggest Move Up	16.3%	5.6%
Biggest Move Down	(-9.5%)	(-9.5%)
% of Times Earnings Move > 0	55%	50%
% of Times Earnings Move > Max Return	10%	0%
% of Times Earnings Move > Implied Move	48%	40%
Mean Return 1 Week Before Earnings	1.1%	(-0.8%)
Median Return 1 Week Before Earnings	0.9%	(-0.8%)



40 Total Earnings: Summary

	-5D	-3D	-1D	Open	High	Low	Earnings Move	+1 D	+7 D	+14 D	+28 D	Implied Move +/-	Earnings Move +/-	Difference
MEAN	1.1%	0.8%	0.6%	1.5%	3.2%	(-0.3%)	1.0%	(-0.6%)	(-0.8%)	(-0.4%)	0.5%	4.9%	4.9%	0.0%
MEDIAN	0.9%	0.6%	0.5%	1.1%	3.7%	0.0%	1.1%	(-0.3%)	(-0.7%)	(-0.2%)	0.3%	4.7%	4.1%	(-0.1%)
% Up	60%	55%	63%	60%	68%	50%	55%	43%	45%	48%	53%			50%

22 out of 40 Earnings GOOGL was Up (55.0% of all Earnings): Summary Table

	-5D	-3D	-1D	Open	High	Low	Earnings Move	+1 D	+7 D	+14 D	+28 D	Implied Move +/-	Earnings Move +/-	Difference
MEAN	1.0%	0.7%	0.4%	5.5%	7.5%	3.9%	5.4%	(-0.5%)	(-0.9%)	(-0.6%)	0.6%	4.5%	5.4%	0.9%
MEDIAN	0.6%	0.8%	0.5%	4.3%	6.9%	3.0%	4.5%	(-0.2%)	(-0.7%)	0.0%	0.7%	4.2%	4.5%	0.4%
% Up	55%	55%	64%	96%	100%	91%	100%	41%	41%	50%	59%			59%

18 out of 40 Earnings GOOGL was Down (45.0% of all Earnings): Summary Table

	-5D	-3D	-1D	Open	High	Low	Earnings Move	+1 D	+7 D	+14 D	+28 D	Implied Move +/-	Earnings Move +/-	Difference
MEAN	1.2%	1.0%	0.9%	(-3.5%)	(-2.1%)	(-5.4%)	(-4.3%)	(-0.8%)	(-0.5%)	(-0.2%)	0.4%	5.3%	4.3%	(-1.0%)
MEDIAN	1.9%	0.6%	0.6%	(-4.0%)	(-1.7%)	(-5.5%)	(-3.5%)	(-0.4%)	0.0%	(-0.6%)	(-2.4%)	5.0%	3.5%	(-1.0%)
% Up	67%	56%	61%	17%	28%	0%	0%	44%	50%	44%	44%			39%

10 Total Earnings: Summary for Q4 Only

	-5D	-3D	-1D	Open	High	Low	Earnings Move	+1 D	+7 D	+14 D	+28 D	Implied Move +/-	Earnings Move +/-	Difference
MEAN	(-0.8%)	(-0.2%)	1.4%	0.2%	2.3%	(-1.9%)	(-0.6%)	(-0.8%)	0.7%	1.8%	3.5%	5.2%	4.4%	(-0.8%)
MEDIAN	(-0.8%)	(-1.1%)	1.5%	0.4%	1.8%	(-1.3%)	(-0.8%)	(-0.1%)	1.1%	2.0%	3.9%	4.7%	4.0%	(-0.3%)
% Up	30%	40%	70%	60%	70%	40%	50%	40%	70%	60%	70%			50%

The Earnings Dashboard shows relevant statistics for the stock's pre- and post-earnings moves for the last 10 years. We display the stock's return for several periods leading the first trading day after the earnings release, and several periods following earnings day.

We also compare the size of the implied move to the actual move, to help identify stocks which habitually move more or less than the market expects.

Filters: Report Date All

Quarter	Report Date	- 5D	- 3D	- 1D	- 5D	- 3D	- 1D	Earnings Move	+1 D	+7 D	+14 D	+28 D	Implied Move	Actual Move	Diff
Mean		1.1%	0.8%	0.6%	1.1%	0.8%	0.6%	1.0%	(0.6%)	(0.8%)	(0.4%)	0.5%	4.9%	4.9%	0%
Median		0.9%	0.6%	0.5%	0.9%	0.6%	0.5%	1.1%	(0.3%)	(0.7%)	(0.2%)	0.3%	4.7%	4.1%	(0.1%)
%UP		60.0%	55.0%	62.5%	60.0%	55.0%	62.5%	55.0%	42.5%	45.0%	47.5%	52.5%	100.0%	100.0%	50.0%
Std-Dev		4.1%	3.5%	2.0%	4.1%	3.5%	2.0%	5.9%	2.0%	4.2%	5.0%	6.0%	1.2%	3.3%	3.5%
Q3	07/24/2024	(1.2%)	2.3%	0.1%	(1.2%)	2.3%	0.1%	(5.0%)	(3.1%)	(0.6%)	(7.9%)	(3.9%)	6.1%	5.0%	(1.1%)
Q2	04/26/2024	0%	(0.2%)	(2.0%)	0%	(0.2%)	(2.0%)	10.2%	(3.4%)	(2.7%)	(1.9%)	1.8%	5.8%	10.2%	4.4%
Q1	01/31/2024	3.0%	(0.3%)	(1.3%)	3.0%	(0.3%)	(1.3%)	(7.5%)	0.8%	3.9%	4.2%	(2.7%)	5.6%	7.5%	1.9%
Q4	10/25/2023	(0.7%)	0.8%	1.7%	(0.7%)	0.8%	1.7%	(9.5%)	(2.7%)	0.7%	5.0%	10.3%	5.0%	9.5%	4.5%
Q3	07/26/2023	(1.3%)	2.5%	0.6%	(1.3%)	2.5%	0.6%	5.8%	0.1%	(0.7%)	0.3%	2.4%	5.2%	5.8%	0.5%
Q2	04/26/2023	(0.6%)	(1.4%)	(2.0%)	(0.6%)	(1.4%)	(2.0%)	(0.1%)	3.7%	1.6%	7.8%	16.6%	5.0%	0.1%	(4.9%)
Q1	02/03/2023	10.5%	11.1%	7.3%	10.5%	11.1%	7.3%	(2.8%)	(1.8%)	(9.7%)	(10.0%)	(10.6%)	6.9%	2.8%	(4.1%)
Q4	10/26/2022	3.7%	4.5%	1.9%	3.7%	4.5%	1.9%	(9.1%)	(2.9%)	(8.4%)	(8.0%)	3.7%	6.1%	9.1%	3.1%
Q3	07/27/2022	(7.7%)	(8.2%)	(2.3%)	(7.7%)	(8.2%)	(2.3%)	7.7%	1.0%	4.4%	5.9%	0.6%	6.8%	7.7%	0.9%
Q2	04/27/2022	(8.7%)	(4.9%)	(3.6%)	(8.7%)	(4.9%)	(3.6%)	(3.7%)	3.7%	7.0%	(0.6%)	(7.4%)	7.3%	3.7%	(3.7%)
Q1	02/02/2022	8.4%	6.7%	1.7%	8.4%	6.7%	1.7%	7.5%	(3.3%)	(4.3%)	(6.9%)	(9.1%)	4.8%	7.5%	2.7%
Q4	10/27/2021	(2.7%)	(1.8%)	1.4%	(2.7%)	(1.8%)	1.4%	5.0%	(0.3%)	0.3%	(0.2%)	(0.1%)	3.6%	5.0%	1.4%
Q3	07/28/2021	4.5%	2.7%	(1.6%)	4.5%	2.7%	(1.6%)	3.2%	(0.2%)	(0.7%)	0.1%	4.4%	3.8%	3.2%	(0.6%)
Q2	04/28/2021	0.5%	1.7%	(0.8%)	0.5%	1.7%	(0.8%)	3.0%	1.4%	(1.9%)	(6.7%)	0.9%	3.7%	3.0%	(0.7%)
Q1	02/03/2021	0.6%	3.6%	1.4%	0.6%	3.6%	1.4%	7.3%	(0.3%)	1.3%	2.9%	(2.3%)	4.2%	7.3%	3.0%
Q4	10/30/2020	(3.1%)	(1.7%)	3.0%	(3.1%)	(1.7%)	3.0%	3.8%	0.5%	8.9%	9.7%	10.6%	4.6%	3.8%	(0.8%)
Q3	07/31/2020	1.4%	0.6%	1.0%	1.4%	0.6%	1.0%	(3.3%)	(0.4%)	0.7%	1.1%	10.2%	4.1%	3.3%	(0.8%)
Q2	04/29/2020	1.7%	(3.0%)	(3.0%)	1.7%	(3.0%)	(3.0%)	8.9%	0.3%	0.2%	0.5%	5.8%	4.9%	8.9%	4.0%
Q1	02/04/2020	3.5%	1.8%	3.5%	3.5%	1.8%	3.5%	(2.5%)	0%	4.5%	5.1%	(7.4%)	5.4%	2.5%	(2.9%)

Filters: Report Date All

Quarter	Report Date	- 5D	- 3D	- 1D	- 5D	- 3D	- 1D	Earnings Move	+1 D	+7 D	+14 D	+28 D	Implied Move	Actual Move	Diff
Q4	10/29/2019	3.6%	2.5%	1.9%	3.6%	2.5%	1.9%	(2.2%)	0%	2.4%	2.9%	4.2%	4.7%	2.2%	(2.5%)
Q3	07/26/2019	(1.0%)	(0.3%)	(0.3%)	(1.0%)	(0.3%)	(0.3%)	9.6%	(0.3%)	(3.9%)	(4.5%)	(7.4%)	4.2%	9.6%	5.4%
Q2	04/30/2019	3.4%	2.9%	1.5%	3.4%	2.9%	1.5%	(7.5%)	(2.1%)	(1.7%)	(6.2%)	(5.0%)	3.5%	7.5%	4.0%
Q1	02/05/2019	5.7%	4.0%	2.0%	5.7%	4.0%	2.0%	0.9%	(2.5%)	(2.1%)	(2.2%)	1.5%	4.2%	0.9%	(3.3%)
Q4	10/26/2018	0.5%	(0.7%)	4.4%	0.5%	(0.7%)	4.4%	(1.8%)	(4.5%)	(1.1%)	(0.6%)	(4.9%)	4.7%	1.8%	(2.9%)
Q3	07/24/2018	1.2%	(0.2%)	1.1%	1.2%	(0.2%)	1.1%	3.9%	1.4%	(2.5%)	(0.2%)	(3.2%)	4.1%	3.9%	(0.2%)
Q2	04/24/2018	2.6%	(0.1%)	(0.3%)	2.6%	(0.1%)	(0.3%)	(4.8%)	0%	1.8%	3.5%	5.2%	4.7%	4.8%	0.1%
Q1	02/02/2018	(0.1%)	(0.4%)	(0.1%)	(0.1%)	(0.4%)	(0.1%)	(5.3%)	(5.1%)	(6.5%)	(2.1%)	(3.1%)	4.4%	5.3%	0.9%
Q4	10/27/2017	(1.0%)	0.6%	0%	(1.0%)	0.6%	0%	4.3%	0%	1.6%	1.0%	2.2%	3.9%	4.3%	0.3%
Q3	07/25/2017	2.3%	0.6%	0.5%	2.3%	0.6%	0.5%	(2.9%)	(0.4%)	(2.3%)	(2.6%)	(3.0%)	3.8%	2.9%	(0.9%)
Q2	04/28/2017	3.7%	1.4%	0.2%	3.7%	1.4%	0.2%	3.7%	0.9%	2.8%	3.3%	7.4%	3.1%	3.7%	0.6%
Q1	01/27/2017	4.0%	1.5%	(0.2%)	4.0%	1.5%	(0.2%)	(1.4%)	(2.5%)	(2.9%)	(1.2%)	0.3%	3.7%	1.4%	(2.3%)
Q4	10/28/2016	(0.5%)	(2.2%)	(0.6%)	(0.5%)	(2.2%)	(0.6%)	0.3%	(1.2%)	(4.7%)	(5.8%)	(4.8%)	4.5%	0.3%	(4.3%)
Q3	07/29/2016	1.5%	1.1%	0.5%	1.5%	1.1%	0.5%	3.3%	1.2%	2.0%	2.0%	0.2%	4.8%	3.3%	(1.4%)
Q2	04/22/2016	0.6%	(1.0%)	0.6%	0.6%	(1.0%)	0.6%	(5.4%)	0.6%	(4.1%)	(1.7%)	(2.2%)	5.2%	5.4%	0.2%
Q1	02/02/2016	5.1%	7.4%	1.2%	5.1%	7.4%	1.2%	1.3%	(4.1%)	(10.2%)	(8.1%)	(5.0%)	6.4%	1.3%	(5.1%)
Q4	10/23/2015	(1.7%)	(2.7%)	1.4%	(1.7%)	(2.7%)	1.4%	5.6%	1.6%	2.5%	5.9%	8.0%	5.5%	5.6%	0.2%
Q3	07/17/2015	10.5%	5.2%	3.0%	10.5%	5.2%	3.0%	16.3%	(1.0%)	(6.4%)	(6.0%)	(1.5%)	3.8%	16.3%	12.4%
Q2	04/24/2015	2.5%	2.4%	1.5%	2.5%	2.4%	1.5%	2.9%	(1.3%)	(3.9%)	(4.3%)	(3.3%)	3.9%	2.9%	(1.0%)
Q1	01/30/2015	(4.5%)	(4.4%)	0.2%	(4.5%)	(4.4%)	0.2%	4.8%	(1.0%)	(0.7%)	2.5%	4.7%	4.1%	4.8%	0.7%
Q4	10/17/2014	(5.9%)	(1.4%)	(0.7%)	(5.9%)	(1.4%)	(0.7%)	(2.6%)	1.8%	5.0%	8.6%	6.2%	9.1%	2.6%	(6.5%)

Sector	Market Cap	Ann Div Yield (est)	Qtrly Div (est)	Next Ex Date (est)	Next Earnings (est)
Comm Serv	\$2.04T	0.5%	\$0.20	12/08/2024	10/29/2024



Trailing Returns

Symbol	Reference Price	YTD	1D	5D	1M	3M	6M	1Yr	3Yr	5Yr	52 Week Low	52 Week High	% of 52 Week High
GOOGL	\$164.93	18.1%	(0.3%)	1.9%	4.3%	(10.3%)	6.8%	18.6%	16.7%	165.4%	\$120.21	\$191.75	86.0%
SPY	\$582.20	22.5%	0.4%	0.9%	3.4%	3.1%	15.6%	33.5%	30.6%	95.1%	\$409.21	\$585.27	99.5%
XLC	\$90.95	25.2%	(0.1%)	0.5%	3.6%	4.7%	13.6%	33.5%	13.2%	79.8%	\$62.82	\$91.44	99.5%

WEIGHTED Monthly Returns (5 Yrs)

Symbol	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	MEAN
GOOGL	3.0%	(1.8%)	7.0%	2.9%	6.2%	0.7%	4.0%	(0.7%)	(4.5%)	1.7%	4.6%	(1.0%)	1.9%
SPY	1.0%	0.3%	2.2%	(1.1%)	2.3%	1.3%	3.8%	0.4%	(3.6%)	2.7%	6.1%	1.2%	1.4%
XLC	4.4%	(0.2%)	2.8%	(1.7%)	4.4%	0.6%	3.1%	0.6%	(3.3%)	(0.1%)	4.9%	0.7%	1.3%

WEIGHTED Quarterly Returns (5 Yrs)

Symbol	Q1	Q2	Q3	Q4	MEAN	MEAN Up	MEAN Down	Q1 % Up	Q2 % Up	Q3 % Up	Q4 % Up
GOOGL	8.0%	10.6%	(1.5%)	5.1%	5.6%	7.9%	(1.5%)	60.0%	80.0%	60.0%	80.0%
SPY	3.7%	2.6%	0.4%	9.9%	4.2%	4.2%	-	60.0%	80.0%	60.0%	100.0%
XLC	7.4%	3.6%	0.2%	5.4%	4.1%	4.1%	-	60.0%	80.0%	60.0%	80.0%

Annual Returns (10 Yrs)

Symbol	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Avg. 5 Yr	Avg. 10 Yr
GOOGL	(5.4%)	46.6%	1.9%	32.9%	(0.8%)	28.2%	30.9%	65.3%	(39.1%)	58.3%	28.7%	21.9%
SPY	11.3%	(0.8%)	9.6%	19.4%	(6.3%)	28.8%	16.2%	27.0%	(19.5%)	24.3%	15.4%	11.0%
XLC	-	-	-	-	-	29.9%	25.8%	15.1%	(38.2%)	51.4%	16.8%	16.8%

Contextual Expiration Returns™ (WEIGHTED)

Exp Type	Weekly	Weekly	Monthly	Quarterly	Monthly	Monthly	Monthly	Monthly	Quarterly	Quarterly
Exp Date	11/22	11/29	12/20	12/31	01/17	02/21	03/21	03/31	03/31	06/30
DTE	37	44	65	76	93	128	156	166	166	257
GOOGL	0.9%	2.0%	(1.2%)	1.5%	2.4%	3.9%	4.1%	9.3%	23.2%	
SPY	5.7%	6.6%	6.8%	7.3%	7.2%	10.8%	8.4%	10.9%	14.8%	
XLC	2.0%	3.1%	2.3%	3.4%	4.7%	9.4%	8.2%	10.3%	16.4%	

GOOGL Contextual Expiration Returns™ by Year 3 Expirations (WEIGHTED)

DTE	Exp Month	5Yr	MEAN 10Yr	> 0 10 Yrs	> SPY 10 Yrs	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
37	Nov	0.9%	1.9%	60.0%	30.0%	0.9%	14.2%	(5.3%)	4.7%	(8.1%)	3.9%	12.9%	0%	(2.5%)	(1.2%)
128	Feb	3.9%	6.5%	80.0%	50.0%	-	0%	5.5%	4.6%	9.4%	1.4%	19.1%	33.7%	(5.6%)	(3.6%)
183	Apr	10.2%	9.3%	80.0%	50.0%	-	(0.3%)	13.0%	4.3%	7.2%	10.7%	2.5%	46.3%	(8.3%)	5.2%

1 Year Price and Performance



Technical Analysis

Symbol	50D MA	50D MA%	200D MA	200D MA%	RSI (14D)
GOOGL	\$161.53	2.1%	\$160.16	3.0%	56
SPY	\$559.32	4.1%	\$527.61	10.3%	62
XLC	\$87.49	4.0%	\$82.63	10.1%	64

Risk Metrics

Symbol	Beta 5Yr	Beta Up	Beta Down	Hedge Ratio	1Yr DD	Iv 30D
GOOGL	1.04	0.68	1.48	4.76	23.2%	33.6%
SPY	1	1	1	4.14	9.7%	16.0%
XLC	1.03	0.72	1.04	4.47	8.5%	18.6%

5 Yr Monthly Correlation

Symbol	GOOGL	SPY	XLC
GOOGL	1	0.71	0.79
SPY	0.71	1	0.89
XLC	0.79	0.89	1

Average Rolling Returns (10yrs)

Symbol	1M	2M	3M	6M	1Yr
GOOGL	1.7%	3.3%	4.9%	10.4%	21.2%
SPY	1.0%	1.9%	2.8%	5.6%	11.2%
XLC	0.9%	1.8%	2.8%	6.3%	13.8%

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