

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 www.Volworks.com inquiries@volworks.com



GOOGL Earnings Analysis & Earnings Booster Trade

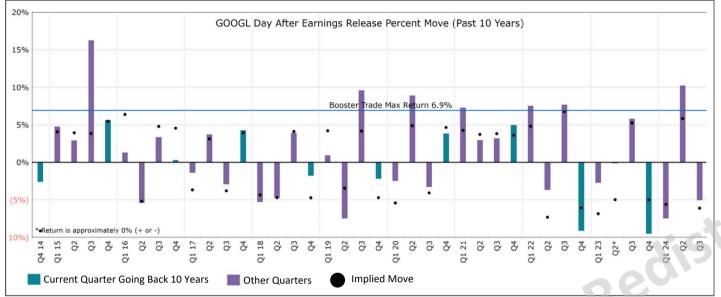
Volworks main objective is to identify statistically favorable post-earnings move opportunities for investors to enhance their returns by overlaying long positions with booster trades (1x2 zero-cost call spreads).

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.

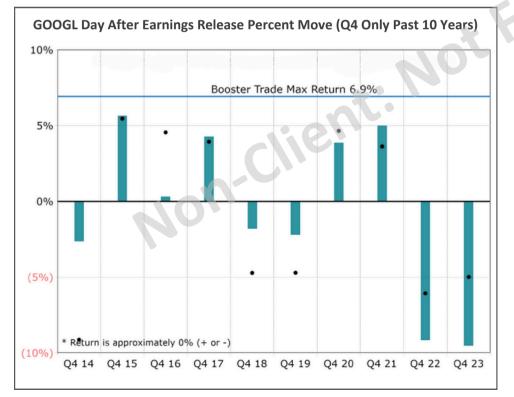
We also allow users of our platform to compare historical earnings moves to SPY and/or any stock or ETF desired for every prior earnings event. Additionally, the Volworks Platform allows users to filter, sort, chart, export to Excel, and customize PDF reports for all stocks in our database.

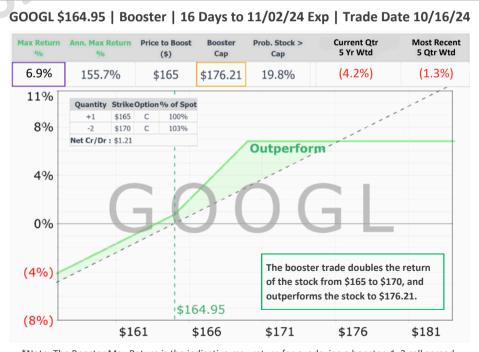


GOOGL Earnings Analysis: Next 10/29/2024 AMC (DTE 13) Implied Move +/- 5.3%



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%)





*Note: The Booster Max Return is the indicative max return for overlaying a booster, 1x2 call spread (typically zero-cost or small credit) on the first expiration following earnings.

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%		0,,	50%
22 out of 40 Earnings GOOGL was Up (55.0% of all Earnings): Summary Table												Farnings		

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.



Earnings Analysis for GOOGL for Past 10 Years

10/16/2024

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%)

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Earnings Analysis for GOOGL for Past 10 Years

10/16/2024

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%)

Alphabet | GOOGL | \$164.93 | 10/16/2024

Sector Cap \$2.04T Comm Serv

Market

Ann Div **Qtrly Div** Next Ex Next Earnings (est) Date (est) (est) Yield (est) 0.5% \$0.20 12/08/2024 10/29/2024

Volworks[®] Data-Driven Insights



Techni	cal Analy	<u>/sis</u>			
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	ЗM	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%
	GOOGL SPY	GOOGL 1.7% SPY 1.0%	GOOGL1.7%3.3%SPY1.0%1.9%	GOOGL1.7%3.3%4.9%SPY1.0%1.9%2.8%	GOOGL1.7%3.3%4.9%10.4%SPY1.0%1.9%2.8%5.6%

D Quar	terly F	Return	s (5 Yrs)											
Q1	Q2	Q3	Q4	MEA	N ME	AN Up	MEAN [Down	Q1 %	Up Q	2 % Up	Q3 %	Up Q	4 % Up	5
3.0%	10.6%	(1.5%	<mark>6)</mark> 5.19	ő 5.6°	% 7	.9%	(1.59	%)	60.09	%	80.0%	60.0	% 8	30.0%	S
8.7%	2.6%	0.4%	6 9.9%	6 4.2	% 4	.2%	-		60.09	%	80.0%	60.0	% 1	00.0%	G
7.4%	3.6%	0.2%	6 5.4%	6 4.19	% 4	.1%	-		60.09	%	80.0%	60.0	% 8	30.0%	
eturns ((10 Y rs	s)													
2014	201	5 20	16 20	17	2018	2019	2020	202	1 20)22	2023	Avg. 5	Yr Avo	j. 10 Yr	F
(5.4%)	46.6	% 1.9	9% 32.	9% (0.8%)	28.2%	30.9%	65.3	% (39	.1%)	58.3%	28.7%	. 2	1.9%	
11.3%	(0.8%	6) 9.6	5% 19.	4% (6.3%)	28.8%	16.2%	27.0	% (19	.5%)	24.3%	15.4%	. 1	1.0%	
-	-			-	-	29.9%	25.8%	15.19	% <mark>(</mark> 38	.2%)	51.4%	16.8%	. 1	6.8%	
l Expir	ation	Returr	ns™ (WI	IGHT	ED)		20								
We	ekly	Week	ly Mc	onthly	Qua	terly	Monthly	M	onthly	Mont	nly C	Quarterly	Qu	arterly	
11	/22	11/29	9 1	2/20	12,	/31	01/17	C)2/21	03/2	1	03/31	0	6/30	5
3	37	44		65	7	6	93		128	156	5	166		257	
0.	9%	2.0%) (1	.2%)	1.5	5%	2.4%	3	3.9%	4.1%	6	9.3%	23	3.2%	
5.	7%	6.6%	6	.8%	7.3	3%	7.2%	1	0.8%	8.4%	6	10.9%	14	1.8%	
2.	0%	3.1%	o 2	.3%	3.4	1%	4.7%	9	9.4%	8.2%	6	10.3%	10	5.4%	
ontextu	ial Exp	oiratio	1 Retur	าs™ by	Year 3	8 Expira	tions (N	EIGH	TED)						A
5Yr	MEA	N 10Yr	> 0 10 Yrs		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
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%)	
3.9%	6.	.5%	80.0%	50.0%	- 0	0%	5.5%	4.6%	9.4%	1.4%	19.1%	33.7%	(5.6%)	(3.6%)	
10.2%	9.	.3%	80.0%	50.0%	- 0	(0.3%)	13.0%	4.3%	7.2%	10.7%	2.5%	46.3%	(8.3%)	5.2%	
	Q1 3.0% 3.7% 2014 (5.4%) 11.3% - al Expin We 11 3 0. 5. 2. ontextu 5Yr 0.9% 3.9%	Q1 Q2 $Q1$ $Q2$ 3.0% 10.6% 3.7% 2.6% 7.4% 3.6% 2014 201 2014 201 2014 201 5.4% 46.6% 11.3% (0.8%) $ 11.3\%$ (0.8%) $ 0.9\%$ 5.7% 0.9% 5.7% 2.0% 0.9% $5Yr$ MEA 0.9% 1.3 3.9% 6.5%	Q1 Q2 Q3 3.0% 10.6% (1.5%) 3.7% 2.6% 0.4% 7.4% 3.6% 0.2% eturns (10 Yrs) 2014 2015 20 (5.4%) 46.6% 1.9 11.3% (0.8%) 9.6 - - - eturns 0.9% 2.0% 5.7% 6.6% 3.1% entextual Expiration 5.7% 0.9% 3.1% entextual Expiration 0.9% 5.7% 6.6% 2.0% 3.1%	Q1 Q2 Q3 Q4 8.0% 10.6% (1.5%) 5.1% 8.0% 2.6% 0.4% 9.9% 7.4% 3.6% 0.2% 5.4% eturns (10 Yrs) 2014 2015 2016 20 (5.4%) 46.6% 1.9% Expiration Returns™ (WE Weekly Weekly Mc 11/22 11/29 12 37 44 0.9% 2.0% (1 5.7% 6.6% 2 0.9% 2.0% (1 5.7% 6.6% 2 Ontextual Expiration Return SYr MEAN 10Yr > 0 0.9% 1.9% 60.0% 3.9% 6.5% 80.0%	3.0% 10.6% (1.5%) 5.1% 5.6% 3.7% 2.6% 0.4% 9.9% 4.2% 7.4% 3.6% 0.2% 5.4% 4.1% eturns (10 Yrs) 2014 2015 2016 2017 (5.4%) 46.6% 1.9% 32.9% ((11.3%) (0.8%) 9.6% 19.4% (- - - - - Attribute Weekly Wonthly 11/22 11/29 12/20 37 44 65 - - - - 0.9% 2.0% (1.2%) - - - - - 0.9% 2.0% 3.1% 2.3% -	Q1 Q2 Q3 Q4 MEAN ME 8.0% 10.6% (1.5%) 5.1% 5.6% 7 3.7% 2.6% 0.4% 9.9% 4.2% 4 7.4% 3.6% 0.2% 5.4% 4.1% 4 eturns (10 Yrs) 2014 2015 2016 2017 2018 (5.4%) 46.6% 1.9% 32.9% (0.8%) 11.3% (0.8%) 9.6% 19.4% (6.3%) 11.3% (0.8%) 9.6% 19.4% (6.3%) 11.3% (0.8%) 9.6% 19.4% (6.3%) 11.13% (0.8%) 9.6% 19.4% (6.3%) 11.22 11/22 11/29 12/20 12 37 44 65 7 7 0.9% 2.0% (1.2%) 1.5 7 5.7% 6.6% 6.8% 7.3 3 2.0% 3.1% 2.3% 3.4 SYr MEAN 10Yr > 0 > SPY 2014	Q1 Q2 Q3 Q4 MEAN MEAN Up 8.0% 10.6% (1.5%) 5.1% 5.6% 7.9% 3.7% 2.6% 0.4% 9.9% 4.2% 4.2% 7.4% 3.6% 0.2% 5.4% 4.1% 4.1% eturns (10 Yrs) 2014 2015 2016 2017 2018 2019 (5.4%) 46.6% 1.9% 32.9% (0.8%) 28.8% 11.3% (0.8%) 9.6% 19.4% (6.3%) 28.8% - - - - 29.9% HExpiration Returns™ (WEIGHTED) Weekly Monthly Quarterly 11/22 11/29 12/20 12/31 37 44 65 76 0.9% 2.0% (1.2%) 1.5% 5.7% 6.66% 6.8% 7.3% 2.0% 3.1% 2.3% 3.4%	Q1Q2Q3Q4MEANMEANUpMEANICAN8.0%10.6% (1.5%) 5.1% 5.6% 7.9% (1.5%) 3.7% 2.6% 0.4% 9.9% 4.2% 4.2% -7.4% 3.6% 0.2% 5.4% 4.1% 4.1% -7.4% eturns (10 Yrs)2014201520162017201820192020 (5.4%) 46.6% 1.9% 32.9% (0.8%) 28.2% 30.9% 11.3% (0.8%) 9.6% 19.4% (6.3%) 28.8% 16.2% $ 29.9\%$ 25.8% eturnstion Returnst™ (WEIGHTED)Weekly Weekly Monthly Quarterly Monthly $11/22$ $11/29$ $12/20$ $12/31$ $01/17$ 37 44 65 76 93 0.9% 2.0% (1.2%) 1.5% 2.4% 5.7% 6.6% 6.8% 7.3% 7.2% 2.0% 3.1% 2.3% 3.4% 4.7% SPYPUAN 0.9% 1.9% 60.0% 30.0% 0.9% 14.2% (5.3%) 3.9% 6.5% 80.0% 50.0% $ 0\%$ 5.5%	Q1Q2Q3Q4MEANMEANUpMEANDown3.0%10.6% (1.5%) 5.1% 5.6% 7.9% (1.5%) 3.7% 2.6% 0.4% 9.9% 4.2% 4.2% $-$ 7.4% 3.6% 0.2% 5.4% 4.1% 4.1% $-$ eturns (10 Yrs)2014201520162017201820192020202(5.4%) 46.6% 1.9% 32.9% (0.8%) 28.2% 30.9% 65.3% (0.8%) 9.6% 19.4% (6.3%) 28.8% 16.2% 27.0% 29.9\% 25.8% 15.1% Nonthly Monthly Quarterly Monthly M11/22 $11/29$ $12/20$ $12/31$ $01/17$ 00 37<44	Q1 Q2 Q3 Q4 MEAN MEAN Up MEAN Down Q1 % 3.0% 10.6% (1.5%) 5.1% 5.6% 7.9% (1.5%) 60.0° 3.7% 2.6% 0.4% 9.9% 4.2% 4.2% - 60.0° 7.4% 3.6% 0.2% 5.4% 4.1% 4.1% - 60.0° etturns (10 Yrs) 2014 2015 2016 2017 2018 2019 2020 2021 20 etturns (10 Yrs) 2014 2015 2016 2017 2018 28.2% 30.9% 65.3% (39 11.3% (0.8%) 9.6% 19.4% (6.3%) 28.8% 16.2% 27.0% (19 - - - - 29.9% 25.8% 15.1% (38 Monthly Quarterly Monthly Monthly 11/22 11/29 12/20 12/31 01/17 02/21	Q1Q2Q3Q4MEANMEANUpMEANDownQ1 % UpQ 3.0% 10.6%(1.5%)5.1%5.6%7.9%(1.5%)60.0%3 3.7% 2.6%0.4%9.9%4.2%4.2%-60.0%3 7.4% 3.6%0.2%5.4%4.1%4.1%-60.0%3eturns (10 Yrs)201420152016201720182019202020212022(5.4%)46.6%1.9%32.9%(0.8%)28.2%30.9%65.3%(39.1%)11.3%(0.8%)9.6%19.4%(6.3%)28.8%16.2%27.0%(19.5%)29.9%25.8%15.1%(38.2%)3Weekly Weekly Monthly Quarterly Monthly Monthly MonthlyMonthly11/2211/2912/2012/3101/1702/2103/237446576931281560.9%2.0%(1.2%)1.5%2.4%3.9%4.195.7%6.6%6.8%7.3%7.2%10.8%8.4%2.0%3.1%2.3%3.4%4.7%9.4%8.29DOTExture Expiration Returns™ by Year 3 Expirations (WEIGHTED)SYMEAN 10Yr> 0> SPY2014201520162017201820190.9%1.9%60.0%30.0%0.9%14.2%(5.3%) </td <td>Q1 Q2 Q3 Q4 MEAN MEAN Up MEAN Down Q1 % Up Q2 % Up 3.0% 10.6% (1.5%) 5.1% 5.6% 7.9% (1.5%) 60.0% 80.0% 3.7% 2.6% 0.4% 9.9% 4.2% 4.2% - 60.0% 80.0% 7.4% 3.6% 0.2% 5.4% 4.1% 4.1% - 60.0% 80.0% eturns (10 Yrs) 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 (5.4%) 46.6% 1.9% 32.9% (0.8%) 28.2% 30.9% 65.3% (19.5%) 24.3% 11.3% (0.8%) 9.6% 19.4% (6.3%) 28.8% 16.2% 27.0% (19.5%) 24.3% 11.3% (0.8%) 9.6% 19.4% (6.3%) 28.8% 16.2% 27.0% (19.5%) 24.3% 11/22 11/29 12/20 12/31 01/17</td> <td>Q1Q2Q3Q4MEANMEANUpMEANDownQ1 % UpQ2 % UpQ3 %3.0%10.6%(1.5%)5.1%5.6%7.9%(1.5%)60.0%80.0%60.0$3.7\%$2.6%0.4%9.9%4.2%4.2%-60.0%80.0%60.0$7.4\%$3.6%0.2%5.4%4.1%4.1%-60.0%80.0%60.0exturns (10 Yrs)2014201520162017201820192020202120222023Avg. 52014201520162017201820192020202120222023Avg. 52014201520162017201820192020202120222023Avg. 511.3%(0.8%)9.6%19.4%(6.3%)28.8%16.2%27.0%(19.5%)24.3%15.4%11.3%(0.8%)9.6%19.4%(6.3%)28.8%16.2%27.0%(38.2%)51.4%16.8%Heristion Returns™ (WEIGHTED)WeeklyMonthlyMonthlyMonthlyMonthlyMonthlyQuarterly11/2211/2912/2012/3101/1702/2103/2103/3137446576931281561660.9%2.0%3.1%2.3%3.4%4.7%9.4%8.2%10.3%StrMEAN 10/r> 0> SPY20</td> <td>Q1 Q2 Q3 Q4 MEAN MEAN Up MEAN Down Q1 % Up Q2 % Up Q3 % Up Q3 8.0% 10.6% (1.5%) 5.1% 5.6% 7.9% (1.5%) 60.0% 80.0% 60.0% 80.0% 60.0% 8 60.0% 8 60.0% 6 7 9 9 8 8 6 6 6 6 6 6 6 6 6 6 6 9</td> <td>Q1Q2Q3Q4MEANMEANUpMEAN DownQ1 % UpQ2 % UpQ3 % UpQ4 % Up3.0%10.6%(1.5%)5.1%5.6%7.9%(1.5%)60.0%80.0%60.0%80.0%3.7%2.6%0.4%9.9%4.2%4.2%-60.0%80.0%60.0%80.0%7.4%3.6%0.2%5.4%4.1%-60.0%80.0%60.0%80.0%colspan="4">colspan="4"colspan="4">colspan="4"colspan="4"colspan="4"colspan="4"colspan="</td>	Q1 Q2 Q3 Q4 MEAN MEAN Up MEAN Down Q1 % Up Q2 % Up 3.0% 10.6% (1.5%) 5.1% 5.6% 7.9% (1.5%) 60.0% 80.0% 3.7% 2.6% 0.4% 9.9% 4.2% 4.2% - 60.0% 80.0% 7.4% 3.6% 0.2% 5.4% 4.1% 4.1% - 60.0% 80.0% eturns (10 Yrs) 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 (5.4%) 46.6% 1.9% 32.9% (0.8%) 28.2% 30.9% 65.3% (19.5%) 24.3% 11.3% (0.8%) 9.6% 19.4% (6.3%) 28.8% 16.2% 27.0% (19.5%) 24.3% 11.3% (0.8%) 9.6% 19.4% (6.3%) 28.8% 16.2% 27.0% (19.5%) 24.3% 11/22 11/29 12/20 12/31 01/17	Q1Q2Q3Q4MEANMEANUpMEANDownQ1 % UpQ2 % UpQ3 % 3.0% 10.6%(1.5%)5.1%5.6%7.9%(1.5%)60.0%80.0%60.0 3.7% 2.6%0.4%9.9%4.2%4.2%-60.0%80.0%60.0 7.4% 3.6%0.2%5.4%4.1%4.1%-60.0%80.0%60.0exturns (10 Yrs)2014201520162017201820192020202120222023Avg. 52014201520162017201820192020202120222023Avg. 52014201520162017201820192020202120222023Avg. 511.3%(0.8%)9.6%19.4%(6.3%)28.8%16.2%27.0%(19.5%)24.3%15.4%11.3%(0.8%)9.6%19.4%(6.3%)28.8%16.2%27.0%(38.2%)51.4%16.8%Heristion Returns™ (WEIGHTED)WeeklyMonthlyMonthlyMonthlyMonthlyMonthlyQuarterly11/2211/2912/2012/3101/1702/2103/2103/3137446576931281561660.9%2.0%3.1%2.3%3.4%4.7%9.4%8.2%10.3%StrMEAN 10/r> 0> SPY20	Q1 Q2 Q3 Q4 MEAN MEAN Up MEAN Down Q1 % Up Q2 % Up Q3 % Up Q3 8.0% 10.6% (1.5%) 5.1% 5.6% 7.9% (1.5%) 60.0% 80.0% 60.0% 80.0% 60.0% 8 60.0% 8 60.0% 6 7 9 9 8 8 6 6 6 6 6 6 6 6 6 6 6 9	Q1Q2Q3Q4MEANMEANUpMEAN DownQ1 % UpQ2 % UpQ3 % UpQ4 % Up 3.0% 10.6%(1.5%)5.1%5.6%7.9%(1.5%)60.0%80.0%60.0%80.0% 3.7% 2.6%0.4%9.9%4.2%4.2%-60.0%80.0%60.0%80.0% 7.4% 3.6%0.2%5.4%4.1%-60.0%80.0%60.0%80.0%colspan="4">colspan="4"colspan="4">colspan="4"colspan="4"colspan="4"colspan="4"colspan="

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Trailing Returns

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Symbol	Reference Price	YTD	1D	5D	1M	3M	6M	1Yr	3Yr	5Yr	52 Week Low		% 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%

WEIGHT

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 I

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%

Context

Exp Type Exp Date DTE	Weekly 11/22 37	Weekly 11/29 44	Monthly 12/20 65	Quarterly 12/31 76	Monthly 01/17 93	Monthly 02/21 128	Monthly 03/21 156	Quarterly 03/31 166	Quarterly 06/30 257
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

DT	Exp	5Yr	MEAN 10Yr	> 0	> SPY	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Month			10 Yrs	10 Yrs										
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%
Thic	This report is for informational nurperses only and is not a collicitation to huy or coll any securities. The information in this report has														