

- What is hot and what is not. TPA-RRG captures the inevitable movement of stocks into and out of favor.
- Scores and ranking

Clients can quickly see which stocks are showing the best and worst relative

strength characteristics. TPA found that using RRG's was very beneficial, but took some time to parse through, so we simplified the process by creating a score for each stock and sector.

The best of both worlds – RRG & TPA
Now, clients can use <u>TPA-RRG scores and rankings</u> to identify stocks that are not only moving into favor, but are also technically positive.



• TPA-RRG analyzes every stock in the Russell 1000 and 25 major sector & subsector ETFs

Find more in-depth explanations and links to instructional videos below.

# THE REPORT

#### **TPA-RRG Weekly Commentary**

# Top 20-Bottom 20

The makeup of the Top 20 and Bottom 20 has remained the same. The TOP stocks are TECH or Communications and the Bottom stocks are HealthCare and Financial. There would have been more Financial stocks, but many of them are short-term oversold based on RSI.



#### TTWO



# Sectors

XLK, the most used TECH ETF, has remained in the top 5 for the past 7 weeks. The rest of the Top sectors and subsectors are TECH or TECH-related. Some of this outperformance is due to the beating TECH took in 2022. The chart below shows that XLK underperformed SPY by a little under 8% in 2022.



## **RELATIVE PERFORMANCE XLK AND SPY 2022**

## Market

Technically the S&P500 is still struggling with support. After briefly dipping below 3950, the S&P500 is now above 3950, but has failed to regain 4000. SIVB may have briefly stymied this market. We would guess that if the fallout is limited, the S&P500 will move above 4000 again soon.



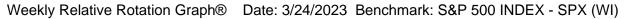
# TPA-RRG TOP 20 & BOTTOM 20 (table below)

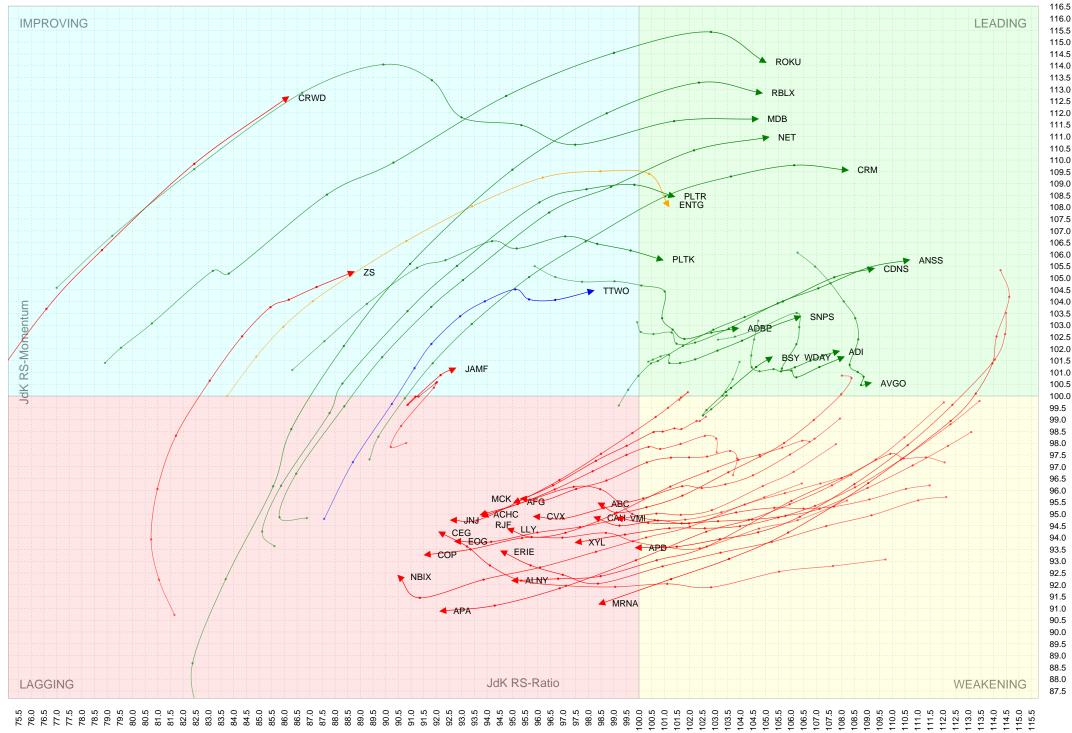
Buy	Prices as of	3/24/23						<i>STOCK</i>	SECTOR	TOTAL
Sell				TOP 20				TPA-RRG	TPA-RRG	TPA-RRG
<u>Code</u>	<u>Name</u>	Last	RRG Ratio	RRG Momentum	Quadrant	Mkt Cap (\$MIL)	TPA Sector	<u>SCORE</u>	<u>SCORE</u>	<u>SCORE</u>
MDB	MongoDB Inc	220.07	104.73	111.84	Leading	\$15,413	Technology	4.60	2.14	6.74
NET	CloudFlare Inc	58.18	105.24	111.13	Leading	\$19,228	Cyber Security	4.54	1.94	6.47
ттwo	Take-Two Interactive Software Inc.	117.48	98.10	104.41	Improving	\$19,816	Tech-Software	3.47	2.18	5.66
CRWD	Crowdstrike Holdings Inc	134.54	86.26	112.82	Improving	\$31,119	Tech-Software	3.41	2.18	5.60
PLTR	Palantir Technologies Inc - Ordinary	8.33	101.44	108.58	Leading	\$17,351	Tech-Software	3.32	2.18	5.51
RBLX	Roblox Corporation - Ordinary Shar	42.07	104.55	112.63	Leading	\$25,276	Technology	3.29	2.14	5.43
CRM	Salesforce Inc	187.44	108.07	109.48	Leading	\$187,440	Technology	3.25	2.14	5.39
ENTG	Entegris Inc	81.50	101.43	108.36	Leading	\$12,175	Technology	3.22	2.14	5.36
ADBE	Adobe Inc	369.00	103.73	102.76	Leading	\$168,928	Technology	3.20	2.14	5.34
ZS	Zscaler Inc	112.56	88.71	105.27	Improving	\$16,335	Tech-Software	3.15	2.18	5.34
JAMF	Jamf Holding Corp	19.48	92.82	101.28	Improving	\$2,404	Tech-Software	3.11	2.18	5.29
CDNS	Cadence Design Systems Inc.	207.00	109.31	105.47	Leading	\$56,499	Technology	3.08	2.14	5.22
ANSS	Ansys Inc Registered Shares	314.65	110.58	105.73	Leading	\$27,402	Technology	3.08	2.14	5.22
SNPS	Synopsys Inc.	379.40	106.36	103.40	Leading	\$57,783	Technology	3.04	2.14	5.17
WDAY	Workday Inc	188.04	107.94	101.55	Leading	\$48,702	Tech-Software	2.96	2.18	5.15
ADI	Analog Devices Inc.	189.45	107.90	101.94	Leading	\$95,834	Technology	2.99	2.14	5.12
AVGO	Broadcom Inc	639.23	109.13	100.57	Leading	\$266,510	Technology	2.98	2.14	5.12
BSY	Bentley Systems Inc - Ordinary Shar	41.27	105.16	101.59	Leading	\$11,901	Technology	2.93	2.14	5.07
PLTK	Playtika Holding Corp	10.83	100.94	105.85	Leading	\$3,956	<b>Communication Services</b>	3.37	1.08	4.45
ROKU	Roku Inc	63.20	105.31	114.51	Leading	\$8,855	<b>Communication Services</b>	3.29	1.08	4.37

Buy	Prices as of	3/24/23						<i>STOCK</i>	SECTOR	TOTAL
Sell			BOTTOM 20				TPA-RRG	TPA-RRG	TPA-RRG	
VMI	Valmont Industries Inc.	304.71	99.14	94.77	Lagging	\$6,506	Industrial	-3.40	-1.13	-4.53
XYL	Xylem Inc	97.23	97.47	93.72	Lagging	\$17,528	Industrial	-3.50	-1.13	-4.63
APD	Air Products & Chemicals Inc.	266.94	99.92	93.56	Lagging	\$59,283	Materials	-3.42	-1.22	-4.64
JNJ	Johnson & Johnson	151.13	92.58	94.68	Lagging	\$393,586	Health Care	-3.12	-1.60	-4.72
ACHC	Acadia Healthcare Company Inc	69.44	93.75	94.93	Lagging	\$6,341	Health Care	-3.14	-1.60	-4.74
NBIX	Neurocrine Biosciences Inc.	95.69	90.45	92.27	Lagging	\$9,243	Health Care	-3.17	-1.60	-4.77
мск	Mckesson Corporation	335.83	95.21	95.47	Lagging	\$45,988	Health Care	-3.19	-1.60	-4.79
LLY	Eli Lilly & Co	332.64	94.81	94.29	Lagging	\$316,107	Health Care	-3.21	-1.60	-4.81
СОР	Conoco Phillips	96.42	91.66	93.33	Lagging	\$117,515	Energy	-3.17	-1.68	-4.85
EOG	EOG Resources Inc.	104.78	92.76	93.81	Lagging	\$61,582	Energy	-3.18	-1.68	-4.86
CEG	Constellation Energy Corporation	73.40	92.16	94.20	Lagging	\$24,011	Energy	-3.20	-1.68	-4.88
ALNY	Alnylam Pharmaceuticals Inc	190.49	95.08	92.20	Lagging	\$23,646	Health Care	-3.29	-1.60	-4.89
ABC	Amerisource Bergen Corp.	150.93	98.22	95.23	Lagging	\$30,527	Health Care	-3.31	-1.60	-4.91
APA	APA Corporation	34.01	92.14	90.82	Lagging	\$10,576	Energy	-3.24	-1.68	-4.92
САН	Cardinal Health Inc.	69.01	98.17	94.74	Lagging	\$17,780	Health Care	-3.33	-1.60	-4.93
сvх	Chevron Corp.	154.52	95.86	94.84	Lagging	\$294,619	Energy	-3.26	-1.68	-4.94
AFG	American Financial Group Inc	116.33	95.04	95.43	Lagging	\$9,911	Financial	-3.16	-1.96	-5.12
RJF	Raymond James Financial Inc.	91.31	94.01	95.05	Lagging	\$19,664	Financial	-3.19	-1.96	-5.15
MRNA	Moderna Inc	149.42	98.43	91.15	Lagging	\$57,727	Health Care	-3.58	-1.60	-5.18
ERIE	Erie Indemnity Co.	223.52	94.59	93.39	Lagging	\$10,409	Financial	-3.25	-1.96	-5.21

Relative Rotation Graph for Top 20 and Bottom 20 is provided below.

Also, use the following link that shows RRG over time - how stocks move in and out of favor over time: <u>https://youtu.be/aG9e5y21YbA</u>





# **TPA Relative Rotation Fund**

Most recent performance:

https://realinvestmentadvice.com/tpa-rrg-report-relative-rotation-graphs-scores-rankings/

(See the explanation and performance comparisons to the S&P500 and a 60/40 Index below.)



## **TPA Relative Rotation Fund explanation:**

The Relative Rotation Fund is created using the weekly Top and Bottom ranked stocks in the TPA-RRG report. The fund holds 60 stocks; 30 long and 30 short. The portfolio is created by buying the Top 10 and selling short the Bottom 10 ranked stocks each week. Screens are used to ensure that overbought and oversold stocks are not included. Long positions have twice the weight of short positions. This is a nod to history, which has shown that stocks go approximately up twice as much as down on a daily basis. Since new stocks are added each week, each position is held for 3 weeks. Rebalancing occurs as close as possible to Friday's closing prices.

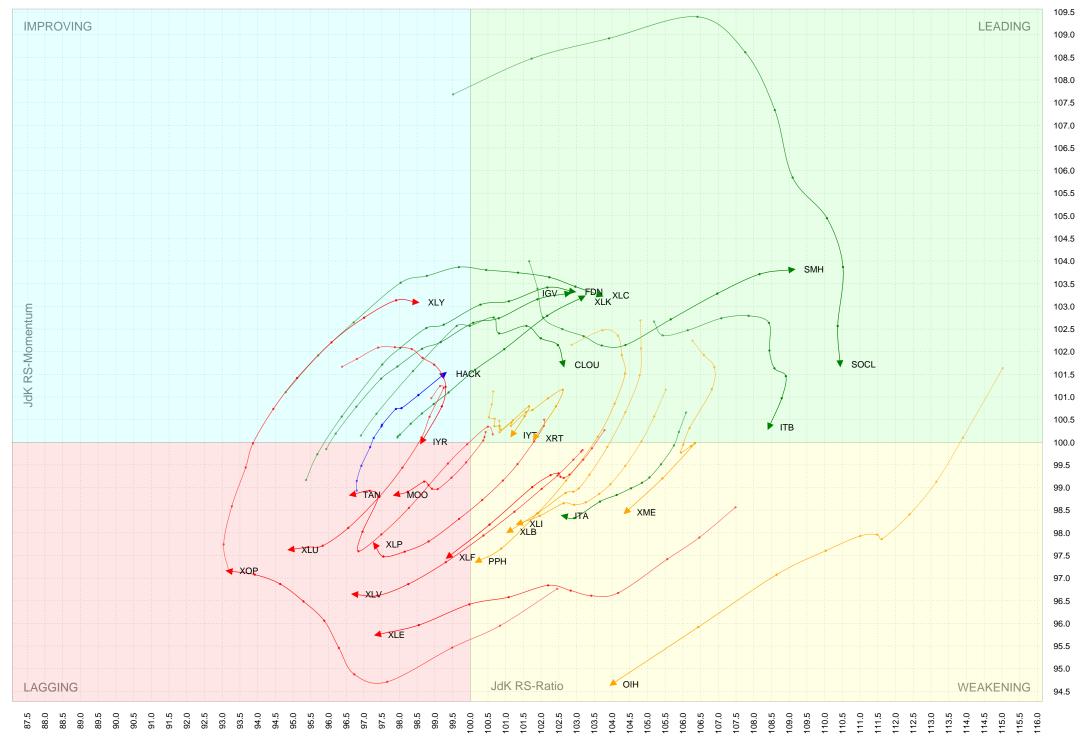
## **TPA-RRG 27 SECTOR ETFS**

TPA-RRG	<b>U.S. SECTOR &amp; SUBSECTOR ETFS</b>		3/26/23			
						TPA-RRG
Code	Name	Last	<b>RRG Ratio</b>	<b>RRG Momentum</b>	Quadrant	<u>SCORE</u>
IGV	Software	289.99	102.78	103.29	Leading	4.37
XLK	TECH	145.58	103.19	103.21	Leading	4.28
НАСК	Cyber Security	46.06	99.28	101.52	Improving	3.87
FDN	Internet	142.03	102.91	103.33	Leading	3.26
ѕмн 🚪	SEMI	258.71	109.10	103.81	Leading	3.05
XRT	Retail	59.94	101.81	100.09	Leading	2.31
ІҮТ 🚺	Transportation	215.56	101.18	100.16	Leading	2.26
CLOU	Cloud Computing	17.18	102.63	101.71	Leading	2.16
XLC	Communications	56.36	103.69	103.24	Leading	2.16
XLY	Consumer Discretionary	142.04	98.49	103.09	Improving	2.15
SOCL	Social Media	36.70	110.44	101.72	Leading	2.09
ІТВ	Home Construction	67.64	108.42	100.33	Leading	2.08
IYR	Real Estate	78.73	98.63	100.01	Improving	1.11
TAN	Solar	73.58	96.65	98.84	Lagging	-2.03
XLU	Utilities	63.70	94.92	97.63	Lagging	-2.04
ITA	Aerospace & Defense	110.53	102.63	98.38	Weakening	-2.04
моо	Agribusiness	83.72	97.89	98.84	Lagging	-2.06
ХОР	Oil&Gas E&P	118.48	93.17	97.16	Lagging	-2.06
XME	Metals & Mining	49.89	104.38	98.45	Weakening	-2.22
XLI	Industrial	96.51	101.36	98.20	Weakening	-2.27
РРН	Pharma	74.68	100.19	97.37	Weakening	-2.32
ОІН	Oil Services	258.64	103.99	94.66	Weakening	-2.42
XLB	Materials	76.19	101.08	98.03	Weakening	-2.44
XLP	Staples	71.75	97.30	97.75	Lagging	-3.18
XLV	Health Care	125.56	96.72	96.64	Lagging	-3.20
XLE	Energy	77.59	97.36	95.75	Lagging	-3.36
XLF	Financials	31.01	99.37	97.46	Lagging	-3.92

TPA-	RRG U	.S. SECT	OR & SU	BSECTOF	R ETFS -	HISTORY	1													
	7/25/22	7/31/22	8/8/22	8/15/22	8/22/22	8/29/22	9/5/22	9/12/22	9/19/22	9/26/22	10/3/22	10/10/22	10/17/22	10/24/22	10/28/22	11/4/22	11/11/22	11/18/22	11/25/22	12/2/22
Rank	Code	Code	<u>Code</u>	Code	Code	Code	Code	<u>Code</u>	Code	<u>Code</u>	<u>Code</u>	<u>Code</u>	Code	Code	Code	<u>Code</u>	<u>Code</u>	<u>Code</u>	<u>Code</u>	<u>Code</u>
1	HACK	XLK	XLY	XLY	XLK	ITB	IYT	XLY	XLY	XLF	XME	OIH	XLF	OIH	OIH	OIH	XME	PPH	XME	XRT
2	XLK	XLY	XLK	XLK	IYT	XLY	ITB	SMH	XLF	IYT	OIH	XME	OIH	MOO	HACK	PPH	OIH	XLB	XLB	XLB
3	IGV	IGV	HACK	XRT	XLY	XLK	XLF	IYT	IYT	XLY	MOO	XLF	MOO	XME	MOO	XLF	XRT	XRT	MOO	XME
4	XLY	HACK	FDN	FDN	FDN	IYT	XLK	XRT	XRT	XRT	XLF	HACK	XME	XLF	XME	XLB	XLB	XME	XRT	SMH
5	CLOU	FDN	CLOU	CLOU	XRT	FDN	XLY	XLF	XLK	CLOU	XLY	XRT	XLB	HACK	XLF	XLI	PPH	OIH	PPH	ITA
6	FDN	XRT	XRT	HACK	TAN	TAN	TAN	XLK	SMH	XLI	CLOU	MOO	XLC	XLB	CLOU	ITA	HACK	XLV	ITA	XLI
7	SMH ITB	ITB TAN	IGV TAN	ITB TAN	IGV ITB	IGV XRT	FDN SMH	ITB	XLI	ITB XLK	XLI TAN	CLOU	XOP	XLC XLE	XLB	XLV XME	CLOU	ITA	XLI XLP	ITB PPH
8	TAN	CLOU	ITB	IGV	CLOU	CLOU	XRT	FDN XLI	ITB FDN	FDN	ITAN	XLB ITB	XLE ITA	XOP	XLE ITA	XOP	ITA XLV	XLI XLP	OIH	XLP
10	XLV	SMH	SMH	XLC	HACK	SMH	CLOU	IGV	CLOU	SMH	XLK	XOP	XLY	ITA	XLV	XUP	XLV	MOO	XOP	OIH
10	XLV	XLC	SOCL	SMH	XLC	XLC	IGV	CLOU	IGV	IGV	XOP	XUP	XRT	XLY	XOP	MOO	XLF	XLF	XUP	XLV
11	XRT	SOCL	XLC	SOCL	SMH	HACK	HACK	XME	XME	MOO	FDN	XLY	ITB	XLV	XUP	XRT	MOO	XLE	XLE	XLV
13	SOCL	IYT	IYT	IYT	SOCL	XLF	XLE	SOCL	OIH	OIH	IYT	FDN	XLI	XLI	FDN	CLOU	XLE	XOP	XLV	XLE
14	IYT	XLF	XLI	XLF	XLF	SOCL	XLU	XOP	MOO	XME	XRT	IYT	HACK	FDN	XLC	HACK	XOP	HACK	ITB	XOP
15	ITA	ITA	XLF	XLI	XLI	XLI	XOP	HACK	XLB	XLB	XLE	XLI	FDN	CLOU	XRT	FDN	FDN	CLOU	HACK	MOO
16	XLF	XLP	ITA	XLP	XLP	XLU	XUI	XLC	XLU	SOCL	IGV	XLC	IYT	XRT	PPH	XLP	SMH	FDN	IYT	HACK
10	PPH	XLU	XLP	ITA	XLU	XOP	XLC	XLE	XLE	HACK	SMH	SOCL	CLOU	PPH	IYT	IYT	ITB	SMH	SMH	IYT
18	XLU	XLU	XLU	XLV	IYR	XLE	SOCL	TAN	XOP	TAN	XLB	XLV	XLP	XLP	XLP	XLC	XLC	ITB	FDN	SOCL
10	XOP	XOP	XLU	XLU	XLV	XLP	ITA	XLU	HACK	XLU	HACK	ITA	XLV	IYT	SOCL	IGV	SOCL	XLC	CLOU	FDN
20	XLE	PPH	PPH	PPH	ITA	ITA	XLP	XLB	XLC	ITA	XLU	SMH	IGV	IGV	SMH	SOCL	IYT	IGV	XLC	CLOU
21	XLP	XLE	XOP	XLE	PPH	XLV	OIH	XLP	SOCL	XOP	ITA	IGV	SMH	SMH	IYR	SMH	IYR	SOCL	SOCL	XLC
22	XME	OIH	XLE	XOP	XLE	PPH	XME	ITA	TAN	XLE	XLV	IYR	SOCL	SOCL	IGV	IYR	IGV	IYT	IGV	IYR
23	MOO	XLI	XME	IYR	XOP	OIH	IYR	XLV	IYR	XLC	SOCL	XLP	IYR	IYR	ITB	TAN	XLP	IYR	IYR	IGV
24	OIH	MOO	IYR	XME	XME	XLB	XLV	IYR	XLP	IYR	XLC	XLU	TAN	TAN	TAN	XLU	TAN	XLK	XLK	XLK
25	XLB	XLB	MOO	MOO	XLB	XME	PPH	MOO	ITA	XLP	IYR	TAN	XLU	XLU	XLU	ITB	XLU	TAN	TAN	TAN
26	XLI	IYR	XLB	XLB	MOO	MOO	XLB	OIH	XLV	XLV	XLP	PPH	PPH	ITB	XLY	XLY	XLY	XLU	XLU	XLY
27	IYR	XME	OIH	OIH	OIH	IYR	MOO	PPH	PPH	PPH	PPH	XLK	XLK	XLK	XLK	XLK	XLK	XLY	XLY	XLU
ΤΡΔ-	RRG II	S SECT		BSECTOR	R FTFS -	HISTORY	/													
		12/16/22	12/23/22	12/30/22	1/6/23	1/13/23	1/20/23	1/27/23	2/3/23	2/10/23	2/17/23	2/24/23	3/3/23	3/10/23	3/17/23	3/24/23				
Rank	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code
1	MOO	PPH	PPH	IYT	IYT	SMH	SOCL	SOCL	SOCL	FDN	CLOU	XLK	XLK	XLK	IGV	IGV				
2	XRT	XLB	XLB	PPH	SMH	IYT	XLU	CLOU	CLOU	XLK	IGV	IGV	IGV	IGV	FDN	XLK				
3	XLB	IYT	SMH	XLU	XLU	SOCL	XLC	XLC	FDN	XLC	FDN	XLC	FDN	FDN	XLK	HACK				
4	IYT	SMH	MOO	SMH	SOCL	CLOU	CLOU	FDN	XLC	IGV			CLOU	XLY	HACK					
5	SMH	MOO	SOCL	SOCL	IYR	XLC					XLK	FDN	CLUU		HACK	FDN				
6	PPH	SOCL	IYR	IYR			SMH	IGV	IGV	SOCL	XLK XLC	FDN XLY	XLY	XLC	XLY	FDN SMH				
7	SOCL	XRT			PPH	XLK	IYT	IGV IYR	IGV XLK											
8	ITA		IYT	XRT	PPH XLB	XLK IYR				SOCL	XLC	XLY	XLY	XLC	XLY	SMH				
9		XLI	IYT XRT				IYT	IYR	XLK	SOCL HACK	XLC XLY	XLY CLOU	XLY XLC	XLC CLOU	XLY XLC	SMH XRT				
10	XLI	XLI ITB		XRT	XLB	IYR	IYT IYR	IYR IYT	XLK IYR	SOCL HACK ITB	XLC XLY HACK	XLY CLOU SMH	XLY XLC HACK	XLC CLOU HACK	XLY XLC SMH	SMH XRT IYT				
10			XRT	XRT MOO	XLB XME	IYR XRT	IYT IYR IGV	IYR IYT SMH	XLK IYR ITB	SOCL HACK ITB IYT	XLC XLY HACK IYT	XLY CLOU SMH XRT	XLY XLC HACK SMH	XLC CLOU HACK SMH	XLY XLC SMH CLOU	SMH XRT IYT CLOU				
10 11	XLI	ITB	XRT ITA	XRT MOO XLI	XLB XME ITB	IYR XRT ITB	IYT IYR IGV PPH	IYR IYT SMH ITB	XLK IYR ITB XRT	SOCL HACK ITB IYT CLOU	XLC XLY HACK IYT XRT	XLY CLOU SMH XRT HACK	XLY XLC HACK SMH XRT	XLC CLOU HACK SMH XRT	XLY XLC SMH CLOU SOCL	SMH XRT IYT CLOU XLC				
	XLI ITB	ITB XLP	XRT ITA XLI	XRT MOO XLI XLP	XLB XME ITB XLP	IYR XRT ITB MOO	IYT IYR IGV PPH XLK	IYR IYT SMH ITB XLK	XLK IYR ITB XRT IYT	SOCL HACK ITB IYT CLOU SMH	XLC XLY HACK IYT XRT SOCL	XLY CLOU SMH XRT HACK PPH	XLY XLC HACK SMH XRT IYT	XLC CLOU HACK SMH XRT IYT	XLY XLC SMH CLOU SOCL XRT	SMH XRT IYT CLOU XLC XLY				
11	XLI ITB XLP	ITB XLP XME OIH XLE	XRT ITA XLI ITB	XRT MOO XLI XLP ITB	XLB XME ITB XLP XRT	IYR XRT ITB MOO XLP	IYT IYR IGV PPH XLK MOO	IYR IYT SMH ITB XLK MOO	XLK IYR ITB XRT IYT SMH	SOCL HACK ITB IYT CLOU SMH XME	XLC XLY HACK IYT XRT SOCL PPH	XLY CLOU SMH XRT HACK PPH SOCL	XLY XLC HACK SMH XRT IYT SOCL	XLC CLOU HACK SMH XRT IYT SOCL	XLY XLC SMH CLOU SOCL XRT IYT ITB IYR	SMH XRT IYT CLOU XLC XLY SOCL				
11 12 13 14	XLI ITB XLP XME XOP OIH	ITB XLP XME OIH XLE XLF	XRT ITA XLI ITB XME XLV OIH	XRT MOO XLI XLP ITB XLB	XLB XME ITB XLP XRT MOO OIH ITA	IYR XRT ITB MOO XLP ITA	IYT IYR IGV PPH XLK MOO XRT XLB OIH	IYR IYT SMH ITB XLK MOO XLP XRT XLB	XLK IYR ITB XRT IYT SMH XLB PPH XME	SOCL HACK ITB IYT CLOU SMH XME IYR PPH XRT	XLC XLY HACK IYT XRT SOCL PPH SMH IYR ITB	XLY CLOU SMH XRT HACK PPH SOCL IYT IYR ITB	XLY XLC HACK SMH XRT IYT SOCL ITB IYR TAN	XLC CLOU HACK SMH XRT IYT SOCL ITB IYR TAN	XLY XLC SMH CLOU SOCL XRT IYT ITB IYR XLU	SMH XRT IYT CLOU XLC XLY SOCL ITB IYR TAN				
11 12 13	XLI ITB XLP XME XOP OIH XLF	ITB XLP XME OIH XLE XLF ITA	XRT ITA XLI ITB XME XLV OIH XLE	XRT MOO XLI XLP ITB XLB XME OIH ITA	XLB XME ITB XLP XRT MOO OIH	IYR XRT ITB MOO XLP ITA OIH PPH XLB	IYT IYR IGV PPH XLK MOO XRT XLB OIH XLI	IYR IYT SMH ITB XLK MOO XLP XRT XLB XLI	XLK IYR ITB XRT IYT SMH XLB PPH XME XLU	SOCL HACK ITB IYT CLOU SMH XME IYR IYR PPH XRT XLU	XLC XLY HACK IYT XRT SOCL PPH SMH IYR ITB XLU	XLY CLOU SMH XRT HACK PPH SOCL IYT IYR ITB XLU	XLY XLC HACK SMH XRT IYT SOCL ITB IYR TAN XME	XLC CLOU HACK SMH XRT IYT SOCL ITB IYR	XLY XLC SMH CLOU SOCL XRT IYT ITB IYR XLU MOO	SMH XRT IYT CLOU XLC XLY SOCL ITB IYR				
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Relative Rotation Graph for 27 major sector & subsector ETFs provided below.

Also, use the following link that shows RRG over time - how sectors & subsectors move in and out of favor over time: <u>https://youtu.be/IG6mHA1LDjs</u>



# Weekly Relative Rotation Graph® Date: 3/24/2023 Benchmark: S&P 500 INDEX - SPX (WI)

# Click <u>HERE</u> for the entire Russell 1000 TPA-RRG Score and Rank Report.

#### What are RRGs?

Julius de Kempenaer developed Relative Rotational Graphs (RRG) in 2004 and thousands of investors use RRGs. *"Relative Rotation Graphs, commonly called RRGs, are a unique visualization tool for relative strength analysis.* Chartists can use RRGs to analyze the relative strength trends of several securities against a common benchmark, and against each other. The real power of this tool is its ability to plot relative performance on one graph and show true rotation. We have all heard of sector and asset class rotation, but it is hard to visualize this "rotation" sequence on linear charts. **RRGs use four quadrants to define the four phases of a relative trend. True rotations can be seen as securities move from one quadrant to the other over time."** - Stockcharts

#### What are TPA-RRG scores?

TPA recognizes the power of RRGs to highlight stocks and sectors moving in and out of favor, but also notes the shortcoming of having to examine many RRGs to decide where to invest. TPA has developed TPA-RRG Scores to be able to rank stocks and sectors in terms of relative strength. *TPA-RRG scores are constructed to focus on stocks and sectors as they move from negative to positive and positive to negative.* Scoring also allows ranking so investors can focus on the best and worst areas of the market.

#### How are TPA-RRG scores created?

TPA uses not only the **RS Ratio** and **RS Momentum** of each stock to make its forecast, but TPA also uses certain characteristics on each stock's RS to calculate its score. The following measures are used to calculate the TPA-RRG score:

- 1. **<u>RRG ANGLE</u>** Represents the current position of the security on the RRG chart based on the points of the compass:
  - 0-90 Degrees = Leading Quadrant
  - 90-180 Degrees = Weakening Quadrant
  - 180-270 Degrees = Lagging Quadrant
  - 270-360 Degrees = Improving Quadrant
- 2. <u>**RRG DISTANCE**</u> This number represents how far away the security is from the center of the RRG chart (ie the benchmark). One of the observations is that higher alpha comes from those components that make bigger arcs around the benchmark. We will ignore those closest to the center.
- 3. <u>**RRG ANGLE ROC**</u> The Angle Rate of Change measures the distance of the angle of the current data point of a security, to the previous data point. The greater the value, the larger the distance between the two data points.
- 4. **<u>RRG HEADING</u>** This is the direction that the arrow is pointing to (where the RS is headed), again based on the points of the compass, and is one of the most useful measures:

- > 0 degrees = North (up) positive
- ➢ 45 degrees = Northeast − less positive
- 90 degrees = East (right) positive
- 180 degrees = South (down) negative
- 270 degrees = West (left) negative
- 5. **<u>RRG VELOCITY</u>** This is the vector difference or distance between the last two data points on the line; with the longest having the highest relative momentum:

#### How investors can use TPA-RRG

- 1. The Sector analysis lets clients focus on the best and avoid the worst areas of the market
- 2. TPA-RRG ranks the entire Russell 1000 and provides the Top 20 and Bottom 20 stocks so investors can see the best and worst stocks to make sure they are <u>taking advantage of</u> <u>opportunities and not getting into trouble.</u>
- 3. We also look at the top and bottom stocks through a standard technical analysis to <u>avoid stocks</u> <u>that are overbought, oversold or at other technical trouble spots.</u>
- 4. Finally, we provide TPA-RRG Scores and rankings for the stocks in the most used 25 sector and subsector ETFs. This analysis is especially helpful for investors who are focused on <u>specific areas</u> of the market.

You can learn more about RRGs with these links:

<u>Relative Rotation Graphs (RRG) – explanation video</u> RRG – written explanation

#### Included in the Weekly TPA-RRG Report

- 1. The weekly TPA RRG Report will provide RRG Scores, Rankings, RRG and a RRG Video for:
  - 25 Major Sector and Subsector ETFs
  - Top 20 & Bottom 20 stocks in the Russell 1000 based on TPA's RRG and Trend-Range analysis
- 2. <u>The report will also include:</u>
  - TPA RRG scores and rankings for the *focus stocks* in the 11 major sectors ETFs and 14 major subsectors ETFs. *Provided in a separate PDF*
- 3. Finally, TPA will provide a weekly commentary on TPA-RRG Scores and Rankings

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