

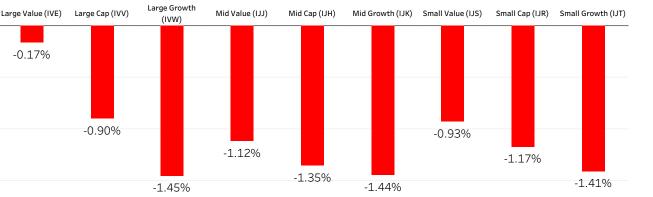
U.S. Size & Style Performance

December 5, 2021

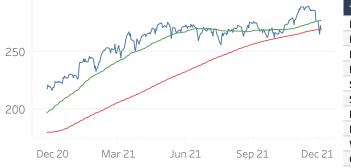
Large Cap Blend (S&P 500) IVV



U.S. Size & Style 1-Day Performance



Mid Cap Blend (S&P 400) IJH



Small Cap Blend (S&P 600) IJR

Jun 21

120

100

80

Nun

Dec 20

Closing Price

Mar 21

Size & Style 1-Day Performance Leaders

Ticker	Fund	
RBUS	Nationwide Risk-Based U.S. Equity ETF	1.60%
FDL	First Trust Morningstar Dividend Leaders Index Fund	0.84%
DTN	WisdomTree U.S. Dividend ex-Financials Fund	0.76%
LVHD	Legg Mason Low Volatility High Dividend ETF	0.75%
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	0.71%
SPLV	Invesco S&P 500 Low Volatility ETF	0.69%
DHS	WisdomTree U.S. High Dividend Fund	0.65%
HDV	iShares Core High Dividend ETF	0.63%
WBIY	WBI Power Factor High Dividend ETF	0.60%
CDC	VictoryShares US EQ Income Enhanced Volatility Wtd ETF	0.58%

Size & Style 1-Day Performance Laggards

m	Ticker	Fund	
4	IPO	Renaissance IPO ETF	-3.85%
r	FFTY	Innovator IBD 50 ETF	-3.44%
	QMOM	Alpha Architect U.S. Quantitative Momentum ETF	-3.30%
	DWEQ	AdvisorShares Dorsey Wright Alpha Equal Weight ETF	-3.20%
	PDP	Invesco DWA Momentum ETF	-2.78%
	FEVR	Inspire Faithward Large Cap Momentum ESG ETF	-2.77%
	IWO	iShares Russell 2000 Growth ETF	-2.70%
	BUZZ	VanEck Social Sentiment ETF	-2.66%
	VTWG	Vanguard Russell 2000 Growth ETF	-2.63%
Dec 21	FNY	First Trust Mid Cap Growth AlphaDEX Fund	-2.58%



Sep 21

* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify

Size & Style Most Overbought

Ticker	Fund	
DVOL	First Trust Dorsey Wright Momentum & Low Volatility ETF	50.91
LVHD	Legg Mason Low Volatility High Dividend ETF	50.60
LEAD	Siren DIVCON Leaders Dividend ETF	50.51
SPLV	Invesco S&P 500 Low Volatility ETF	50.17
HUSV	First Trust Horizon Managed Volatility Domestic ETF	49.41
OUSA	OShares U.S. Quality Dividend ETF	49.14
FLLV	Franklin Liberty U.S. Low Volatility ETF	48.07
LGLV	SPDR SSGA US Large Cap Low Volatility Index ETF	47.67
RDIV	Invesco S&P Ultra Dividend Revenue ETF	47.29
XRLV	Invesco S&P 500 ex-Rate Sensitive Low Volatility ETF	47.25

Size & Style Most Oversold

	Ticker	Fund	
3.85%	BUZZ	VanEck Social Sentiment ETF	26.04
3.44%	GURU	Global X Guru Index ETF	26.59
3.30%	IWC	iShares Micro-Cap ETF	27.00
3.20%	MFMS	Motley Fool Small-Cap Growth ETF	27.11
2.78%	QQXT	First Trust Nasdaq-100 Ex-Technology Sector Index	28.09
2.77%	MXDU	Nationwide Maximum Diversification US Core Equit	28.19
2.70%	IPO	Renaissance IPO ETF	28.56
2.66%	RFG	Invesco S&P Midcap 400 Pure Growth ETF	28.84
2.63%	ISCG	iShares Morningstar Small-Cap Growth ETF	29.02
2.58%	AIEQ	AI Powered Equity ETF	29.20



U.S. Size & Style Flows

Large-Cap 30-Day Rolling Flows



Mid-Cap 30-Day Rolling Flows



Small-Cap 30-Day Rolling Flows



	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Large Cap, Beta Growth, Beta	24	\$1,355B	\$14.82B	\$46.11B	\$94.98B	\$121.88B
Large Cap, Beta Growth, Beta: Growth	10	\$273B	\$1.03B	\$2.29B	\$11.05B	\$6.79B
Mid Cap, Beta, Beta	10	\$191B	\$0.37B	\$4.41B	\$4.40B	\$10.18B
Mid Cap, Beta, Beta: Growth	6	\$41B	\$0.09B	\$1.04B	\$0.93B	(\$1.55B)
Small Cap, Beta, Beta: Growth	7	\$38B	\$0.05B	\$0.33B	\$0.51B	\$1.07B
Mid Cap, Beta, Beta: Value	6	\$41B	\$0.03B	\$0.59B	(\$0.34B)	\$3.77B
Small Cap, Beta, Beta: Value	7	\$57B	(\$0.20B)	\$0.62B	(\$0.36B)	\$7.02B
Small Cap, Beta, Beta	12	\$221B	(\$0.39B)	\$7.57B	\$9.90B	\$23.93B
Large Cap, Beta Growth, Beta: Value	11	\$205B	(\$0.42B)	\$5.53B	\$7.68B	\$30.53B

U.S. Size & Style Landscape Flows

U.S. Size & Style Flow Leaders

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	\$6.40B	\$11.36B	\$24.88B	\$14.45B	\$418.64B
IVV	iShares Core S&P 500 ETF	\$3.12B	\$12.02B	\$16.68B	\$23.91B	\$321.63B
QQQ	Invesco QQQ Trust	\$2.58B	\$5.23B	\$19.18B	\$16.58B	\$206.32B
V00	Vanguard S&P 500 ETF	\$2.04B	\$12.94B	\$25.59B	\$52.08B	\$272.36B
OMFL	Invesco Russell 1000 Dynamic Multifactor ETF	\$1.43B	\$1.55B	\$1.65B	\$1.71B	\$3.26B
VTI	Vanguard Total Stock Market ETF	\$1.24B	\$12.17B	\$23.17B	\$45.03B	\$285.54B
SPYG	SPDR Portfolio S&P 500 Growth ETF	\$0.41B	\$1.10B	\$3.23B	\$3.50B	\$15.85B
IWD	iShares Russell 1000 Value ETF	\$0.36B	\$1.75B	\$2.16B	\$5.34B	\$56.25B
IWB	iShares Russell 1000 ETF	\$0.25B	(\$0.45B)	(\$0.50B)	(\$0.38B)	\$30.87B
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.25B	(\$1.09B)	(\$1.84B)	(\$0.66B)	\$28.93B

U.S. Size & Style Flow Laggards

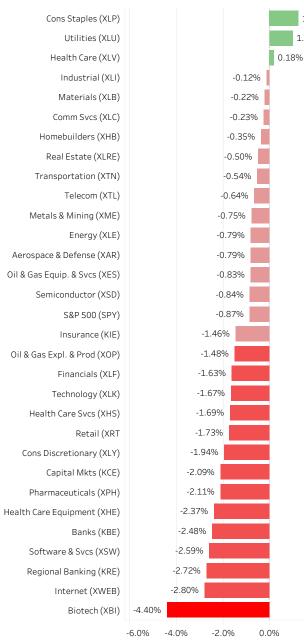
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
QUAL	iShares MSCI USA Quality Factor ETF	(\$3.16B)	(\$1.05B)	\$1.79B	(\$1.73B)	\$24.49B
мтим	iShares MSCI USA Momentum Factor ETF	(\$2.11B)	\$0.73B	\$0.15B	\$0.86B	\$15.75B
USMV	iShares MSCI USA Min Vol Factor ETF	(\$1.59B)	\$0.32B	(\$0.56B)	(\$8.69B)	\$28.74B
VLUE	iShares MSCI USA Value Factor ETF	(\$1.03B)	(\$0.86B)	(\$0.59B)	\$4.35B	\$15.30B
ESGU	iShares ESG Aware MSCI USA ETF	(\$0.95B)	\$1.70B	\$5.23B	\$8.10B	\$24.25B
VTV	Vanguard Value ETF	(\$0.88B)	\$2.44B	\$4.35B	\$14.77B	\$87.00B
IWM	iShares Russell 2000 ETF	(\$0.60B)	\$2.16B	\$2.71B	\$5.71B	\$68.30B
PWV	Invesco Dynamic Large Cap Value ETF	(\$0.24B)	\$0.00B	\$0.00B	(\$0.05B)	\$0.77B
PWB	Invesco Dynamic Large Cap Growth ETF	(\$0.21B)	(\$0.04B)	(\$0.02B)	(\$0.09B)	\$0.81B
SUSA	iShares MSCI USA ESG Select ETF	(\$0.17B)	\$0.69B	\$1.04B	\$1.66B	\$4.54B

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S&P Sector & Industry 1 Day Performance

1.24%

1.00%



Select Sector SPDRs Technicals

Ticker	Fund Name	% From 52W High	% From 52W Low	% Abv/Below 50 SMA	% Abv/Below 200 SMA	RSI (14D)
XLP	Consumer Staples Select Sector SPDR Fund	-2.21%	13.06%	0.42%	1.81%	48.20
XLRE	Real Estate Select Sector SPDR Fund	-2.69%	36.37%	1.43%	7.28%	49.25
SPY	SPDR S&P 500 ETF Trust	-3.47%	23.47%	-0.09%	5.25%	42.11
XLK	Technology Select Sector SPDR Fund	-3.61%	31.23%	2.59%	11.05%	47.96
XLU	Utilities Select Sector SPDR Fund	-3.81%	15.49%	1.71%	2.55%	53.40
XLI	Industrial Select Sector SPDR Fund	-4.59%	20.56%	-1.21%		41.56
XLV	Health Care Select Sector SPDR Fund	-4.74%	17.66%	-0.26%	2.89%	41.22
XLB	Materials Select Sector SPDR Fund	-5.32%	20.77%	0.14%	2.27%	42.92
XLY	Consumer Discretionary Select Sector SPDR Fund	-5.57%	28.12%	1.29%	10.26%	43.53
XLF	Financial Select Sector SPDR Fund	-6.38%	33.72%	-3.44%	2.17%	39.19
XLE	Energy Select Sector SPDR Fund	-6.76%	47.08%	-2.52%	5.66%	44.52
XLC	Communication Services Select Sector SPDR Fund	-13.19%	14.78%	-6.50%	-6.01%	29.89

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	
RYU	Invesco S&P 500 Equal Weight Utilities ETF	1.33%
IYK	iShares U.S. Consumer Staples ETF	1.27%
XLP	Consumer Staples Select Sector SPDR Fund	1.24%
RHS	Invesco S&P 500 Equal Weight Consumer Staples	1.16%
FSTA	FIDELITY COVINGTON TRUST MSCI CONSUMER ST	1.09%
FXU	First Trust Utilities AlphaDEX Fund	1.08%
XLU	Utilities Select Sector SPDR Fund	1.00%
VDC	Vanguard Consumer Staples ETF	0.98%
VPU	Vanguard Utilities ETF	0.77%
FUTY	Fidelity MSCI Utilities Index ETF	0.76%

Sector & Industry 1 Day Performance Laggards

Ticker	Fund	
XBI	SPDR S&P BIOTECH ETF	-4.40%
PTF	Invesco DWA Technology Momentum ETF	-4.26%
PNQI	Invesco NASDAQ Internet ETF	-3.79%
IGV	iShares Expanded Tech-Software Sector ETF	-3.37%
PTH	Invesco DWA Healthcare Momentum ETF	-3.21%
FTXO	First Trust Nasdaq Bank ETF	-2.99%
RUFF	Alpha Dog ETF	-2.97%
PSJ	Invesco Dynamic Software ETF	-2.76%
KRE	SPDR S&P Regional Banking ETF	-2.72%
XNTK	SPDR NYSE Technology ETF	-2.71%

Sector & Industry Most Overbought

Ticker	Fund	
ITB	iShares U.S. Home Construction ETF	62.82
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	61.37
XHB	SPDR S&P Homebuilders ETF	57.49
FTXL	First Trust Nasdaq Semiconductor ETF	56.24
SOXX	iShares Semiconductor ETF	55.92
SOXQ	Invesco PHLX Semiconductor ETF	55.81
XLU	Utilities Select Sector SPDR Fund	53.40
FUTY	Fidelity MSCI Utilities Index ETF	52.69
VPU	Vanguard Utilities ETF	52.57
RYU	Invesco S&P 500 Equal Weight Utilities ETF	52.41

Sector & Industry Most Oversold

Ticker	Fund	
PNQI	Invesco NASDAQ Internet ETF	22.46
PBE	Invesco Dynamic Biotechnology & Genome ETF	22.75
XPH	SPDR S&P Pharmaceuticals ETF	23.29
PTH	Invesco DWA Healthcare Momentum ETF	23.85
XHE	SPDR S&P Health Care Equipment ETF	25.12
PSCH	Invesco S&P SmallCap Health Care ETF	25.65
XBI	SPDR S&P BIOTECH ETF	27.34
PBS	Invesco Dynamic Media ETF	27.73
FDN	First Trust Dow Jones Internet Index Fund	27.77
XSW	SPDR S&P Software & Services ETF	27.89
	PNQI PBE XPH PTH XHE PSCH XBI PBS FDN	PNQI Invesco NASDAQ Internet ETF PBE Invesco Dynamic Biotechnology & Genome ETF XPH SPDR S&P Pharmaceuticals ETF PTH Invesco DWA Healthcare Momentum ETF XHE SPDR S&P Health Care Equipment ETF PSCH Invesco S&P SmallCap Health Care ETF XBI SPDR S&P BIOTECH ETF PBS Invesco Dynamic Media ETF FDN First Trust Dow Jones Internet Index Fund

* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify

2.0%

U.S. Sector Landscape

U.S. Sector & Industry 1-Week Flows

\$240M



	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Communication Services	9	\$19B	(\$86M)	(\$257M)	\$1,391M	\$1,352M
Consumer Discretionary	13	\$38B	\$373M	\$1,558M	\$919M	\$3,449M
Consumer Staples	12	\$20B	(\$73M)	(\$1,093M)	\$343M	(\$2,722M)
Energy	34	\$53B	\$93M	\$1,446M	(\$1,211M)	\$9,305M
Financials	28	\$80B	(\$1,109M)	(\$513M)	(\$3,564M)	\$19,510M
Health Care	26	\$87B	\$27M	(\$285M)	\$4,874M	\$3,263M
Industrial	14	\$34B	(\$183M)	(\$1,966M)	(\$5,003M)	\$234M
Materials	10	\$16B	(\$517M)	(\$736M)	(\$2,350M)	\$4,147M
Multi-Sector	17	\$26B	\$13M	\$1,053M	\$1,259M	\$4,083M
Real Estate	22	\$78B	(\$821M)	\$2,498M	\$6,466M	\$12,768M
Technology	24	\$155B	\$806M	\$3,964M	\$8,095M	\$6,258M
Utilities	10	\$20B	\$134M	(\$669M)	\$1,332M	\$259M

U.S. Sector Landscape

U.S. Sector & Industry Flow Leaders

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLK	Technology Select Sector SPDR Fund	\$560M	\$578M	\$1,844M	\$546M	\$49,675M
XLY	Consumer Discretionary Select Sector SPDR Fu	\$368M	\$1,824M	\$864M	\$1,205M	\$23,869M
SOXX	iShares Semiconductor ETF	\$187M	\$997M	\$1,301M	\$2,356M	\$9,374M
XBI	SPDR S&P BIOTECH ETF	\$167M	\$41M	\$643M	\$729M	\$6,640M
IGV	iShares Expanded Tech-Software Sector ETF	\$129M	\$679M	\$872M	(\$598M)	\$6,006M
XOP	SPDR S&P Oil & Gas Exploration & Production E	\$124M	(\$148M)	(\$1,109M)	(\$346M)	\$3,367M
FXO	First Trust Financials AlphaDEX Fund	\$124M	\$239M	\$204M	\$714M	\$1,636M
XLU	Utilities Select Sector SPDR Fund	\$98M	(\$868M)	\$974M	(\$143M)	\$12,503M
IYZ	iShares U.S. Telecommunications ETF	\$89M	\$116M	\$91M	\$100M	\$525M
IBB	iShares Biotechnology ETF	\$76M	(\$114M)	(\$319M)	(\$570M)	\$9,772M

U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUN
XLF	Financial Select Sector SPDR Fund	(\$1,034M)	(\$1,568M)	(\$4,027M)	\$9,096M	\$41,800N
IYR	iShares U.S. Real Estate ETF	(\$710M)	(\$540M)	\$301M	\$265M	\$6,166N
XLB	Materials Select Sector SPDR Fund	(\$412M)	(\$321M)	(\$1,348M)	\$2,054M	\$8,148N
XLV	Health Care Select Sector SPDR Fund	(\$260M)	(\$482M)	\$2,856M	\$3,076M	\$31,816N
VNQ	Vanguard Real Estate ETF	(\$161M)	\$1,181M	\$2,437M	\$6,683M	\$46,093N
PSI	Invesco Dynamic Semiconductors ETF	(\$158M)	\$107M	\$144M	\$319M	\$892N
XLC	Communication Services Select Sector SPDR Fu	(\$140M)	(\$258M)	\$759M	\$435M	\$13,712N
KRE	SPDR S&P Regional Banking ETF	(\$97M)	\$136M	(\$638M)	\$2,244M	\$4,983N
XLP	Consumer Staples Select Sector SPDR Fund	(\$91M)	(\$1,266M)	\$47M	(\$2,428M)	\$11,584N
XME	SPDR S&P Metals & Mining ETF	(\$89M)	(\$78M)	(\$601M)	\$558M	\$1,605N

* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day



U.S. Sector Rolling 30-Day Flows

December 5, 2021

Dec 21

Communication Services



Consumer Staples

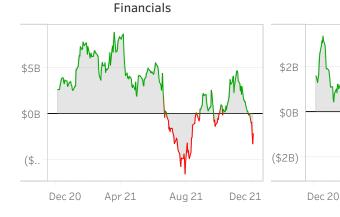
Energy \$4B

Materials











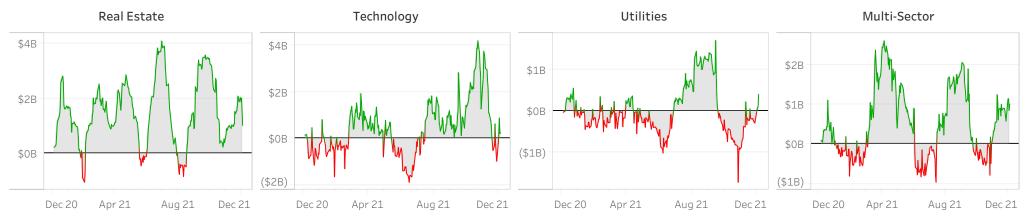
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Health Care





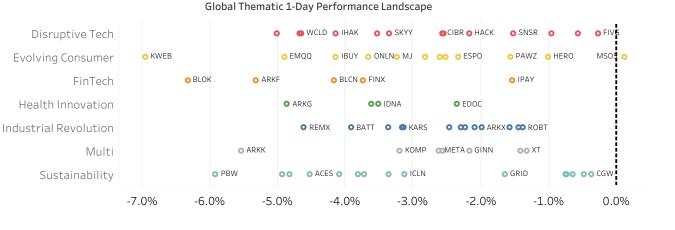


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Aug 21



Global Thematic Performance



Global Thematic 1-Day Performance Leaders

Ticker	Fund	
KSTR	KraneShares SSE STAR Market 50 Index ETF	0.97%
MSOS	AdvisorShares Pure US Cannabis ETF	0.11%
KLDW	Knowledge Leaders Developed World ETF	-0.23%
FIVG	Defiance Next Gen Connectivity ETF	-0.27%
CGW	Invesco S&P Global Water Index ETF	-0.38%
PIO	Invesco Global Water ETF	-0.48%
GAMR	Wedbush ETFMG Video Game Tech ETF	-0.53%
NXTG	First Trust Indxx NextG ETF	-0.57%
EBLU	Ecofin Global Water ESG Fund	-0.60%
FIW	First Trust Water ETF	-0.65%

Global Thematic 1-Day Performance Laggards

Ticker	Fund	
вксн	Global X Blockchain ETF	-10.72%
DAPP	VanEck Digital Transformation ETF	-10.57%
BITQ	Bitwise Crypto Industry Innovators ETF	-9.72%
KWEB	KraneShares CSI China Internet ETF	-6.96%
BLOK	Amplify Transformational Data Sharing ETF	-6.33%
PBW	Invesco WilderHill Clean Energy ETF	-5.93%
POTX	Global X Cannabis ETF	-5.87%
MOON	Direxion Moonshot Innovators ETF	-5.73%
CTEC	Global X CleanTech ETF	-5.62%
ARKK	ARK Innovation ETF	-5.54%

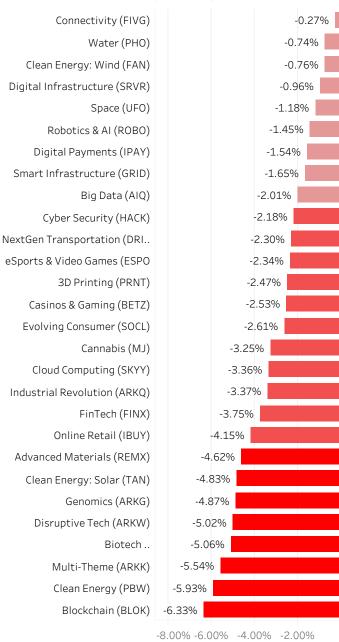
Thematic Most Overbought

Ticker	Fund	
KSTR	KraneShares SSE STAR Market 50 Index ETF	52.64
NXTG	First Trust Indxx NextG ETF	50.03
FIVG	Defiance Next Gen Connectivity ETF	50.03
GERM	ETFMG Treatments Testing and Advancements ETF	46.20
VPN	Global X Data Center REITs & Digital Infrastructure ETF	45.37
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR	45.07
REMX	VanEck Rare Earth/Strategic Metals ETF	44.77
PHO	Invesco Water Resources ETF	44.74
IDRV	iShares Self-driving EV & Tech ETF	44.63
EBLU	Ecofin Global Water ESG Fund	44.02

Thematic Most Oversold

	Ticker	Fund	
6	BETZ	Roundhill Sports Betting & iGaming ETF	16.38
6	IBUY	Amplify Online Retail ETF	18.26
ó	EBIZ	Global X E-Commerce ETF	19.04
ó	BTEC	Principal Healthcare Innovators ETF	19.11
ó	ARKF	ARK Fintech Innovation ETF	19.31
ó	BJK	VanEck Gaming ETF	19.99
ó	SOCL	Global X Social Media ETF	20.09
ó	ARKK	ARK Innovation ETF	20.11
ó	ONLN	ProShares Online Retail ETF	20.40
ó	ARKW	ARK Next Generation Internet ETF	20.63

Global Thematic Segment 1-Day Performance



* ETF Landscape represented using the ETF Action classification system **Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify



Global Thematic Flows

Thematic 1 Week Flow Leaders

Ticker	Fund		S
LIT	Global X Lithium & Battery Tech ETF	\$79M	
MSOS	AdvisorShares Pure US Cannabis ETF	\$63M	D
CIBR	First Trust NASDAQ Cybersecurity ETF	\$48M	
META	Roundhill Ball Metaverse ETF	\$47M	
BLOK	Amplify Transformational Data Sharing ETF	\$45M	E
PBW	Invesco WilderHill Clean Energy ETF	\$33M	-
WCLD	WisdomTree Cloud Computing Fund	\$31M	
DRIV	Global X Autonomous & Electric Vehicles ETF	\$24M	F
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$20M	Г
KOMP	SPDR S&P Kensho New Economies Composite ETF	\$19M	

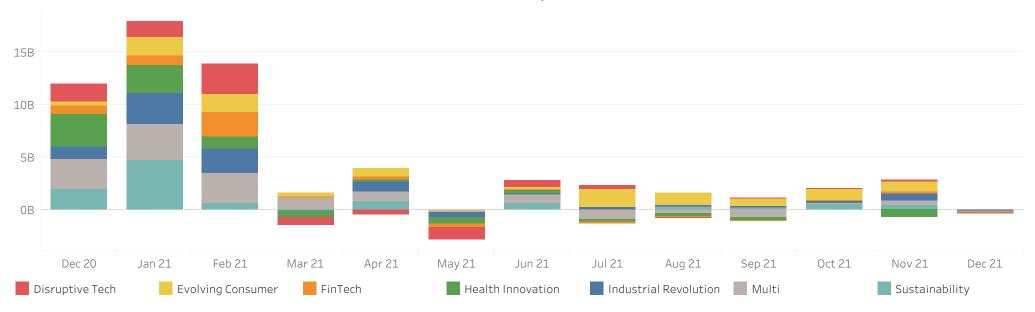
Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	37	\$28B	\$11M	\$214M	\$1,219M	\$5,012M
Evolving Consumer	43	\$17B	(\$73M)	\$2,184M	\$5,898M	\$10,788M
FinTech	16	\$7B	\$12M	\$73M	(\$27M)	\$4,136M
Health Innovation	16	\$7B	(\$74M)	(\$990M)	(\$1,136M)	\$4,884M
Industrial Revolution	24	\$19B	\$55M	\$876M	\$1,395M	\$8,114M
Multi	28	\$27B	\$47M	(\$153M)	(\$174M)	\$10,444M
Sustainability	36	\$24B	(\$105M)	\$1,149M	\$2,151M	\$10,384M
Grand Total	200	\$128B	(\$128M)	\$3,352M	\$9,324M	\$53,762M

Thematic Landscape Assets & Flows

Thematic 1 Week Flow Laggards

Ticker	Fund	In
TAN	Invesco Solar ETF (\$98M)	
ARKF	ARK Fintech Innovation ETF (\$65M)	
ARKG	ARK Genomic Revolution ETF (\$65M)	M
ARKW	ARK Next Generation Internet ETF (\$60M)	
ICLN	iShares Global Clean Energy ETF (\$41M)	
ARKK	ARK Innovation ETF (\$36M)	Sι
ARKQ	ARK Autonomous Technology & Robotics ETF (\$28M)	
AWAY	ETFMG Travel Tech ETF (\$21M)	
SKYY	First Trust Cloud Computing ETF (\$16M)	Gr
BTEC	Principal Healthcare Innovators ETF (\$12M)	

Thematic Monthly Flows



* ETF Landscape represented using the ETF Action classification system ** Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify *** Flows delayed one day

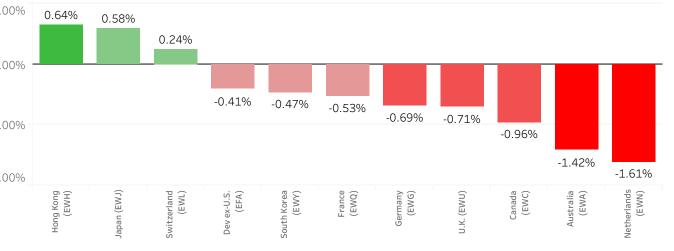


Developed Markets ex-U.S. Performance

December 5, 2021







Developed ex-U.S. 1-Day Performance Top 10 Countries

Developed ex-U.S. 30-Day Rolling Flows



Developed ex-U.S. Monthly Flows

Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	
SCJ	iShares MSCI Japan Small-Cap ETF	1.79%
DFJ	WisdomTree Japan SmallCap Dividend Fund	1.72%
GREK	Global X MSCI Greece ETF	1.11%
EWJV	iShares MSCI Japan Value ETF	0.93%
BBJP	JPMorgan BetaBuilders Japan ETF	0.72%
JPXN	iShares JPX-Nikkei 400 ETF	0.64%
EWH	iShares MSCI Hong Kong ETF	0.64%
FLJP	Franklin FTSE Japan ETF	0.60%
EWJ	iShares MSCI Japan ETF	0.58%
IPAC	iShares Core MSCI Pacific ETF	0.47%

Developed ex-U.S. Most Overbought

	Ticker	Fund	
5	EWY	iShares MSCI South Korea ETF	49.61
б	FLKR	Franklin FTSE South Korea ETF	49.19
6	EWL	iShares MSCI Switzerland ETF	47.13
6	DFJ	WisdomTree Japan SmallCap Dividend Fund	43.21
ó	DXJ	WisdomTree Japan Hedged Equity Fund	42.48
б	EWO	iShares MSCI Austria ETF	41.70
ó	GREK	Global X MSCI Greece ETF	41.68
ó	EWJ	iShares MSCI Japan ETF	41.42
ó	BBJP	JPMorgan BetaBuilders Japan ETF	41.17
ó	JPXN	iShares JPX-Nikkei 400 ETF	40.72

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21 Nov 21

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Sep 21

Dec 20

Jan 21

Feb 21 Mar 21 Apr 21 May .. Jun 21 Jul 21 Aug 21

Developed ex-U.S. 1-Day Performance Laggards

Ticker	Fund	
AIA	iShares Asia 50 ETF	-2.20%
EWD	iShares MSCI Sweden ETF	-2.12%
ISRA	VanEck Israel ETF	-2.05%
ENZL	iShares MSCI New Zealand ETF	-1.74%
ENOR	iShares MSCI Norway ETF	-1.71%
EWN	iShares MSCI Netherlands ETF	-1.61%
EIS	iShares MSCI Israel ETF	-1.58%
AAXJ	iShares MSCI All Country Asia ex Japan ETF	-1.51%
EWA	iShares MSCI Australia ETF	-1.42%
IEUS	iShares MSCI Europe Small-Cap ETF	-1.27%

Developed ex-U.S. Most Oversold

	Ticker	Fund	
%	EWS	iShares MSCI Singapore ETF	18.93
%	FGM	First Trust Germany AlphaDEX Fund	20.83
%	EWP	iShares MSCI Spain ETF	23.32
%	EIRL	iShares MSCI Ireland ETF	24.78
%	EDEN	iShares MSCI Denmark ETF	25.39
%	EWN	iShares MSCI Netherlands ETF	25.99
%	EWG	iShares MSCI Germany ETF	27.73
%	IEUS	iShares MSCI Europe Small-Cap ETF	28.02
%	ENOR	iShares MSCI Norway ETF	28.30
%	PTEU	Pacer Trendpilot European Index ETF	28.53

* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day



55

50

45

10B

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Dec 20

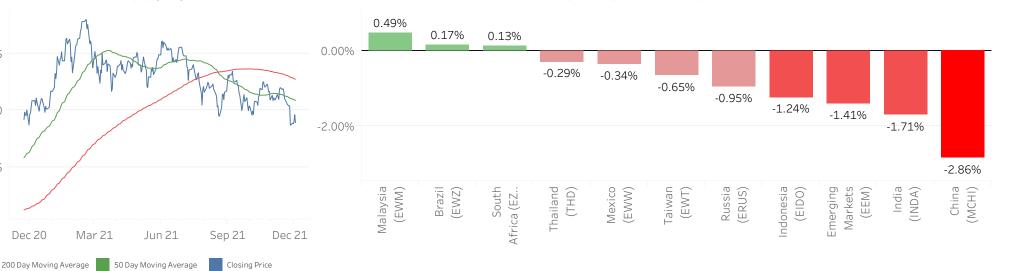
Jan 21 Feb 21 Mar 21 Apr 21

Dec 20

Emerging Markets Performance

December 5, 2021

Emerging (EEM)



Emerging 1-Day Performance Top 10 Countries

Emerging 30-Day Rolling Flows



Emerging Monthly Flows

May 21

Jun 21

Jul 21

Aug 21

Sep 21 Oct 21 Dec 21

Nov 21

Emerging 1-Day Performance Leaders

Ticker	Fund	
EWZS	iShares MSCI Brazil Small-Cap ETF	1.89%
TUR	iShares MSCI Turkey ETF	0.97%
SDEM	Global X MSCI SuperDividend Emerging Markets ETF	0.81%
CNYA	iShares MSCI China A ETF	0.71%
КВА	KraneShares Bosera MSCI China A Share ETF	0.67%
DVYE	iShares Emerging Markets Dividend ETF	0.66%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	0.54%
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fund	0.51%
FEM	First Trust Emerging Markets AlphaDEX Fund	0.51%
EWM	iShares MSCI Malaysia ETF	0.49%

Emerging 1-Day Performance Laggards

	Ticker	Fund	
			0.220/
	PGJ	Invesco Golden Dragon China ETF	-9.32%
	FNI	First Trust Chindia ETF	-5.74%
	ADRE	Invesco BLDRS Emerging Markets 50 ADR Index Fund	-3.85%
	MCHI	iShares MSCI China ETF	-2.86%
	FLCH	Franklin FTSE China ETF	-2.80%
	CXSE	WisdomTree China ex-State-Owned Enterprises Fund	-2.75%
	GXC	SPDR S&P China ETF	-2.45%
	FXI	iShares China Large-Cap ETF	-2.32%
	NFTY	First Trust India NIFTY 50 Equal Weight ETF	-2.20%
	BKF	iShares MSCI BRIC ETF	-2.17%

Emerging Most Overbought

	Ticker	Fund	
)	EWT	iShares MSCI Taiwan ETF	56.97
5	KBA	KraneShares Bosera MSCI China A Share ETF	55.65
)	CNYA	iShares MSCI China A ETF	55.60
5	ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	52.54
)	EYLD	Cambria Emerging Shareholder Yield ETF	48.85
5	DEM	WisdomTree Emerging Markets High Dividend Fund	48.70
)	PIE	Invesco DWA Emerging Markets Momentum ETF	48.20
)	EWZ	iShares MSCI Brazil ETF	48.04
)	DVYE	iShares Emerging Markets Dividend ETF	47.45
)	FEM	First Trust Emerging Markets AlphaDEX Fund	47.01

Emerging Most Oversold

	Ticker	Fund	
ò	PGJ	Invesco Golden Dragon China ETF	22.31
5	FNI	First Trust Chindia ETF	22.39
5	CXSE	WisdomTree China ex-State-Owned Enterprises Fund	25.80
ċ	ADRE	Invesco BLDRS Emerging Markets 50 ADR Index Fund	27.12
ò	THD	iShares MSCI Thailand ETF	27.16
5	MCHI	iShares MSCI China ETF	27.47
5	GXC	SPDR S&P China ETF	28.01
5	FLCH	Franklin FTSE China ETF	28.52
ò	BKF	iShares MSCI BRIC ETF	29.75
ò	FM	iShares MSCI Frontier and Select EM ETF	30.10

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Fixed Income, Commodities & Currencies

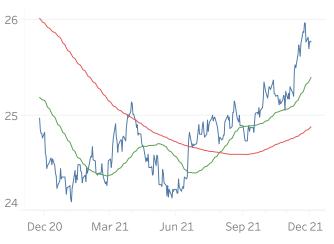
Commodities (DJP)

December 5, 2021









Currencies Performance

Currencies (UUP)

Fixed Income Performance

Commodities Performance

Ticker Name 1 Month YTD Ticker Name 1 Day 1 Month YTD Ticker Name 1 Month YTD 1 Day 1 Day 0.51% -8.47% 25.89% DJP Broad Commodities -1.02% 0.40% 0.74% AGG U.S. Aggregate -0.59% -13.01% 43.08% -0.04% 2.38% 6.31% DBE Energy UUP Long Dollar -0.60% -13.26% 45.41% -0.56% US0 WTI Crude Oil SHY 1-3 Year Treasury Bonds 0.06% -0.15% -0.21% -13.11% 45.57% BNO Brent Crude Oil IEF 7-10 Year Treasury Bonds 0.59% 1.74% -2.28% UNG Natural Gas -0.97% -31.43% 44.89% -0.02% -2.63% -7.42% UDN Short Dollar -1.35% -14.32% 47.47% UGA Gasoline 6.16% TLT 20+ Year Treasury Bonds 1.19% -0.75% -0.66% DBP Precious Metals 0.85% -9.60% 0.84% 0.52% GLD Gold -6.58% 0.09% -2.57% -8.30% FXE Euro 5.45% TIP **TIPS Bonds** 0.21% 1.20% -15.14% 0.77% -4.40% SLV Silver -9.35% -13.54% PPLT Platinum -0.57% -0.04% -0.17% 0.29% FLOT Floating Rate Bonds PALL Palladium 1.22% -10.12% -27.15% FXB British Pound Sterling -0.52% -3.26% -3.59% 0.83% 1.02% -0.75% DBB Base Metals 0.53% -2.03% 20.16% LQD Investment Grade Corporate -2.21% CPER -0.46% 20.01% Copper HYG High Yield Corporate 0.00% -0.76% 2.19% -8.54% LD -2.06% 11.89% Lead 0.29% -0.81% -4.63% FXF Swiss Franc 4.13% 19.98% JJN Nickel 0.69% -0.05% 1.09% -0.83% BKLN Senior Loan JJU 0.33% -2.34% 29.53% Aluminum JJT Tin -0.01% 5.63% 121.28% -0.57% -2.18% 3.70% PFF Preferred & Income Securities 0.34% 1.10% -8.93% FXY Japanese Yen 0.41% 1.60% 22.30% DBA Agriculture 0.94% 1.46% 37.87% CORN Corn 0.12% 0.66% 1.01% MUB Municipal Bonds 1.39% 0.55% 12.07% SOYB Soybeans -1.25% Canadian Dollar -0.17% -3.64% -1.25% 0.11% -0.17% -1.28% 0.92% 24.56% FXC WEAT Wheat MBB MBS 0.80% -4.65% 33.35% CANE Sugar -2.94% 0.13% -0.18% EMB Dollar Denominated EM Bonds 0.91% -9.44% BAL 31.79% Cotton 1.47% 0.00% -9.26% FXA Australian Dollar -1.23% -6.09% -9.50% NIB Cocoa 0.00% -3.47% -10.78% LEMB Local Currency EM Bond JO 2.52% 14.03% 77.09% Coffee

* ETF Landscape represented using the ETF Action classification system **Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify

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Contact us at:

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