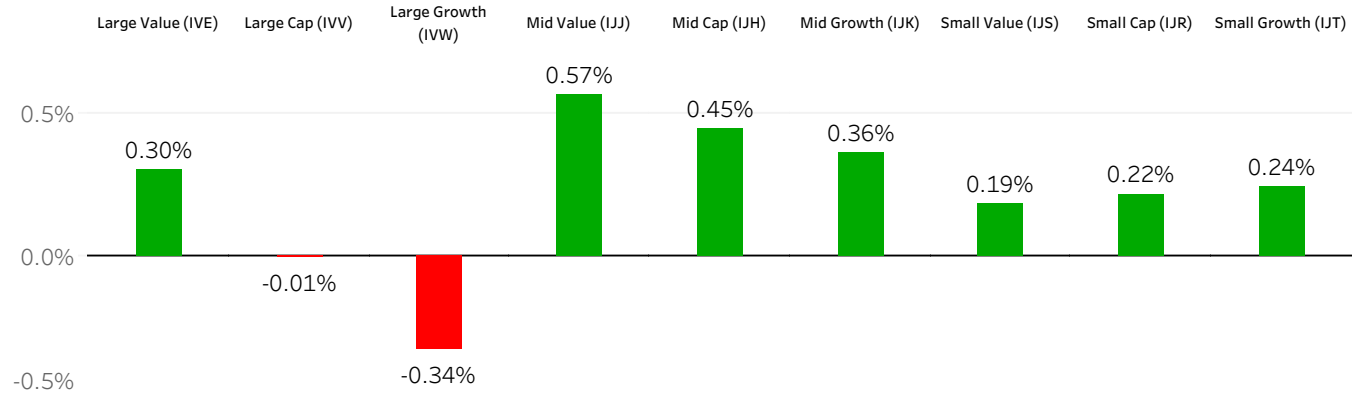


### Large Cap Blend (S&P 500) IVV



### U.S. Size & Style 1-Day Performance



### Mid Cap Blend (S&P 400) IJH



### Small Cap Blend (S&P 600) IJR



### Size & Style 1-Day Performance Leaders

Ticker	Fund	Performance
ACSI	American Customer Satisfaction ETF	5.29%
XMLV	Invesco S&P MidCap Low Volatility ETF	0.80%
DVOL	First Trust Dorsey Wright Momentum & Low Volatility E..	0.77%
XSLV	Invesco S&P SmallCap Low Volatility ETF	0.70%
REGL	ProShares S&P MidCap 400 Dividend Aristocrats ETF	0.68%
PEY	Invesco High Yield Equity Dividend Achievers ETF	0.66%
LVHD	Franklin U.S. Low Volatility High Dividend Index ETF	0.65%
DON	WisdomTree U.S. MidCap Dividend Fund	0.65%
QDIV	Global X S&P 500 Quality Dividend ETF	0.64%
FDM	First Trust Dow Jones Select MicroCap Index Fund	0.64%

### Size & Style Most Overbought

Ticker	Fund	Price
PTMC	Pacer Trendpilot US Mid Cap ETF	87.01
SPC	CrossingBridge Pre-Merger SPAC ETF	78.98
USNZ	Xtrackers Net Zero Pathway Paris Aligned US Equity ETF	76.66
ACSI	American Customer Satisfaction ETF	76.50
DEIF	Sterling Capital Diverse Multi-Manager Active ETF	74.98
DURA	VanEck Durable High Dividend ETF	73.51
DJD	Invesco Dow Jones Industrial Average Dividend ETF	73.04
SIXL	ETC 6 Meridian Low Beta Equity ETF	72.62
SIXS	ETC 6 Meridian Small Cap Equity ETF	72.18
ABEQ	Absolute Select Value ETF	72.16

### Size & Style 1-Day Performance Laggards

Ticker	Fund	Performance
IPO	Renaissance IPO ETF	-0.75%
IUS	Invesco RAFI Strategic US ETF	-0.74%
QQQM	Invesco NASDAQ 100 ETF	-0.72%
QQQ	Invesco QQQ Trust	-0.66%
EQRR	ProShares Equities for Rising Rates ETF	-0.59%
BUZZ	VanEck Social Sentiment ETF	-0.58%
QQH	HCM Defender 100 Index ETF	-0.56%
ONEQ	Fidelity Nasdaq Composite Index ETF	-0.52%
QQQE	Direxion NASDAQ-100 Equal Weighted Index Shares	-0.50%
QQEW	First Trust Nasdaq-100 Equal Weighted Index Fund	-0.50%

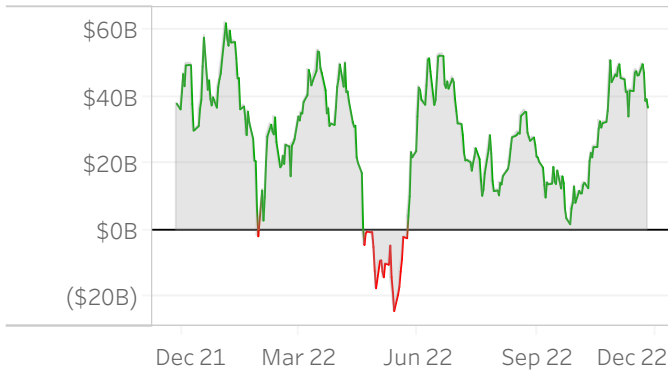
### Size & Style Most Oversold

Ticker	Fund	Price
IPO	Renaissance IPO ETF	44.97
LSAT	Leadershares Alphafactor Tactical Focused ETF	48.77
FFTY	Innovator IBD 50 ETF	50.86
BUZZ	VanEck Social Sentiment ETF	51.80
GUSA	Goldman Sachs MarketBeta U.S. 1000 Equity ETF	52.54
RPHS	Regents Park Hedged Market Strategy ETF	52.63
FPX	First Trust US Equity Opportunities ETF	52.72
AIEQ	AI Powered Equity ETF	53.71
IWC	iShares Micro-Cap ETF	54.40
WINN	Harbor Long-Term Growers ETF	54.80

■ Closing Price    
 ■ 50 Day Moving Average    
 ■ 200 Day Moving Average

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

### Large-Cap 30-Day Rolling Flows



### Mid-Cap 30-Day Rolling Flows



### Small-Cap 30-Day Rolling Flows



### U.S. Size & Style Landscape Flows

	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Large Cap, Beta Growth, Beta	25	\$1,257B	(\$5.74B)	\$32.76B	\$62.71B	\$112.91B
Large Cap, Beta Growth, Beta: Growth	10	\$225B	\$0.60B	\$4.89B	\$13.49B	\$21.85B
Large Cap, Beta Growth, Beta: Value	11	\$230B	\$0.48B	\$4.02B	\$5.06B	\$22.94B
Mid Cap, Beta, Beta	10	\$185B	\$0.20B	\$3.92B	\$6.68B	\$13.58B
Mid Cap, Beta, Beta: Growth	6	\$33B	(\$0.03B)	\$0.43B	\$1.32B	\$0.78B
Mid Cap, Beta, Beta: Value	6	\$42B	\$0.51B	\$1.13B	\$1.79B	\$2.16B
Small Cap, Beta, Beta	13	\$197B	(\$0.55B)	\$3.81B	\$5.50B	\$2.71B
Small Cap, Beta, Beta: Growth	7	\$31B	\$0.01B	\$0.09B	\$0.56B	\$1.47B
Small Cap, Beta, Beta: Value	7	\$51B	\$0.17B	\$0.43B	(\$0.30B)	(\$2.30B)

### U.S. Size & Style Flow Leaders

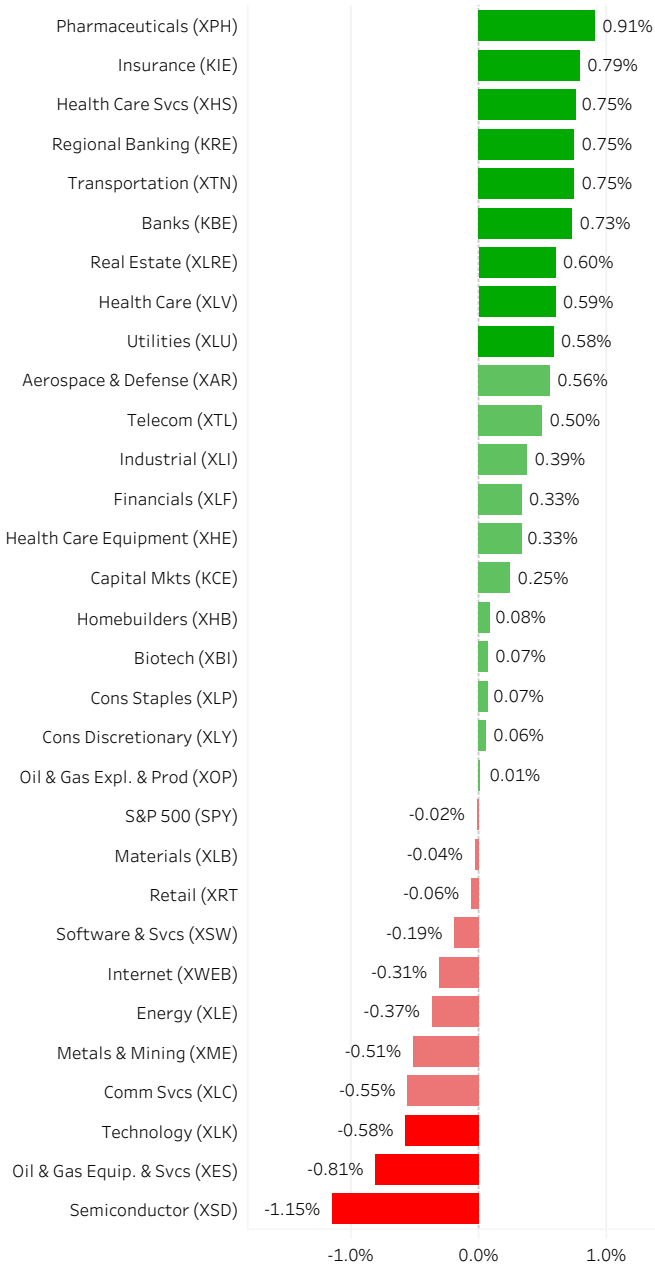
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.59B	\$1.33B	\$0.91B	\$1.97B	\$30.85B
SCHD	Schwab US Dividend Equity ETF	\$0.36B	\$4.20B	\$7.42B	\$13.33B	\$44.43B
IJJ	iShares S&P Mid-Cap 400 Value ETF	\$0.33B	(\$0.05B)	\$0.02B	(\$0.84B)	\$7.89B
IWF	iShares Russell 1000 Growth ETF	\$0.32B	\$1.34B	\$1.73B	\$3.06B	\$61.66B
IVE	iShares S&P 500 Value ETF	\$0.31B	\$0.34B	\$0.12B	\$2.86B	\$25.60B
VONG	Vanguard Russell 1000 Growth ETF	\$0.20B	\$1.99B	\$2.56B	\$3.05B	\$9.24B
RSP	Invesco S&P 500 Equal Weight ETF	\$0.18B	\$1.73B	\$1.96B	\$5.50B	\$33.83B
VUG	Vanguard Growth ETF	\$0.16B	\$1.69B	\$4.83B	\$9.24B	\$72.92B
IJH	iShares Core S&P Mid-Cap ETF	\$0.15B	\$2.31B	\$3.50B	\$5.66B	\$66.25B
SPLG	SPDR Portfolio S&P 500 ETF	\$0.14B	\$1.04B	\$2.37B	\$3.95B	\$15.65B

### U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VOO	Vanguard S&P 500 ETF	(\$4.15B)	\$5.72B	\$20.56B	\$37.36B	\$274.52B
QQQ	Invesco QQQ Trust	(\$1.01B)	\$3.22B	\$5.75B	\$13.77B	\$162.46B
VTI	Vanguard Total Stock Market ETF	(\$0.57B)	\$6.93B	\$12.93B	\$29.15B	\$272.35B
IWM	iShares Russell 2000 ETF	(\$0.55B)	\$2.05B	\$1.29B	(\$3.83B)	\$55.84B
QUAL	iShares MSCI USA Quality Factor ETF	(\$0.26B)	(\$1.34B)	(\$1.84B)	(\$1.82B)	\$18.59B
VTWO	Vanguard Russell 2000 ETF	(\$0.13B)	\$0.36B	(\$0.15B)	\$0.00B	\$5.63B
MGK	Vanguard Mega Cap Growth ETF	(\$0.09B)	(\$0.51B)	(\$0.13B)	\$0.40B	\$10.20B
IVW	iShares S&P 500 Growth ETF	(\$0.07B)	\$0.70B	\$0.72B	(\$0.15B)	\$29.96B
MDY	SPDR S&P Midcap 400 ETF Trust	(\$0.06B)	\$0.23B	\$0.17B	(\$0.42B)	\$19.03B
SPYD	SPDR Portfolio S&P 500 High Dividend ETF	(\$0.05B)	(\$0.24B)	(\$0.16B)	\$2.59B	\$7.75B

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

### S&P Sector & Industry 1 Day Performance



### Select Sector SPDRs Technicals

Ticker	Fund Name	% From 52W High	% From 52W Low	% Abv/Below 50 SMA	% Abv/Below 200 SMA	RSI (14D)
XLE	Energy Select Sector SPDR Fund	-2.35%	73.31%	8.60%	15.93%	56.53
XLV	Health Care Select Sector SPDR Fund	-3.98%	14.40%	6.81%	5.31%	69.30
XLP	Consumer Staples Select Sector SPDR Fund	-5.36%	14.66%	7.56%	3.60%	71.52
XLI	Industrial Select Sector SPDR Fund	-5.37%	22.28%	10.78%	7.62%	71.35
XLB	Materials Select Sector SPDR Fund	-9.09%	22.36%	11.60%	3.97%	69.44
XLU	Utilities Select Sector SPDR Fund	-9.19%	15.31%	5.64%	-0.29%	63.55
XLF	Financial Select Sector SPDR Fund	-12.82%	19.21%	9.41%	5.13%	67.37
SPY	SPDR S&P 500 ETF Trust	-15.78%	12.84%	6.27%	-0.28%	62.48
XLK	Technology Select Sector SPDR Fund	-24.37%	14.62%	6.46%	-2.81%	58.94
XLRE	Real Estate Select Sector SPDR Fund	-25.11%	14.89%	6.16%	-8.25%	62.11
XLY	Consumer Discretionary Select Sector SPDR Fund	-32.18%	8.02%	-0.29%	-8.92%	51.47
XLC	Communication Services Select Sector SPDR Fund	-36.35%	10.55%	2.24%	-12.33%	55.08

### Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
MORT	VanEck Mortgage REIT Income ETF	1.25%
REM	iShares Mortgage Real Estate ETF	1.12%
IHF	iShares U.S. Healthcare Providers ETF	0.98%
NETL	NETLease Corporate Real Estate ETF	0.93%
XPH	SPDR S&P Pharmaceuticals ETF	0.91%
INDS	Pacer Industrial Real Estate ETF	0.89%
KBWP	Invesco KBW Property & Casualty Insurance ETF	0.87%
QABA	First Trust NASDAQ ABA Community Bank Index F..	0.86%
PPA	Invesco Aerospace & Defense ETF	0.83%
KBWY	Invesco KBW Premium Yield Equity REIT ETF	0.82%

### Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
IYK	iShares U.S. Consumer Staples ETF	71.76
XLP	Consumer Staples Select Sector SPDR Fund	71.52
XLI	Industrial Select Sector SPDR Fund	71.35
PSL	Invesco DWA Consumer Staples Momentum ETF	71.03
VDC	Vanguard Consumer Staples ETF	70.89
FXG	First Trust Consumer Staples AlphaDEX Fund	70.83
FSTA	FIDELITY COVINGTON TRUST MSCI CONSUMER STAPLES..	70.60
RHS	Invesco S&P 500 Equal Weight Consumer Staples ETF	70.27
XLB	Materials Select Sector SPDR Fund	69.44
XLV	Health Care Select Sector SPDR Fund	69.30

### Sector & Industry 1 Day Performance Laggards

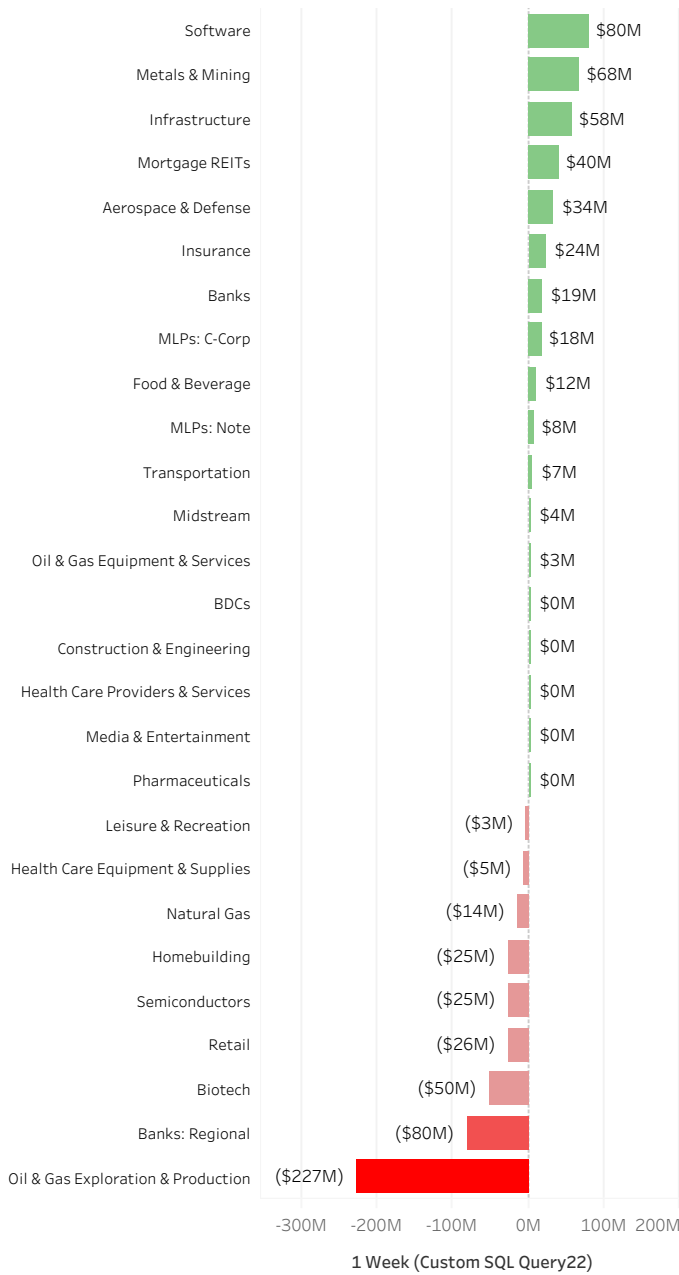
Ticker	Fund	1 Day Performance
SOXX	iShares Semiconductor ETF	-1.33%
SOXQ	Invesco PHLX Semiconductor ETF	-1.27%
FTXL	First Trust Nasdaq Semiconductor ETF	-1.20%
XSD	SPDR S&P Semiconductor ETF	-1.15%
PSI	Invesco Dynamic Semiconductors ETF	-0.99%
XNTK	SPDR NYSE Technology ETF	-0.97%
IEZ	iShares U.S. Oil Equipment & Services ETF	-0.97%
PNQI	Invesco NASDAQ Internet ETF	-0.90%
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-0.81%
IYW	iShares U.S. Technology ETF	-0.78%

### Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
XHS	SPDR S&P Health Care Services ETF	49.01
XBI	SPDR S&P BIOTECH ETF	49.89
FDN	First Trust Dow Jones Internet Index Fund	50.40
PNQI	Invesco NASDAQ Internet ETF	50.73
XSW	SPDR S&P Software & Services ETF	50.78
MLPA	Global X MLP ETF	51.37
XLY	Consumer Discretionary Select Sector SPDR Fund	51.47
FCG	First Trust Natural Gas ETF	51.68
XES	SPDR S&P Oil & Gas Equipment & Services ETF	51.96
IEZ	iShares U.S. Oil Equipment & Services ETF	52.08

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

### U.S. Sector & Industry 1-Week Flows



### U.S. Sector Landscape

	Funds	AUM	1 Week	3 Month	6 Month	1 Year
<b>Communication Services</b>	7	\$12B	\$19M	(\$432M)	(\$263M)	(\$1,386M)
<b>Consumer Discretionary</b>	12	\$22B	\$16M	(\$97M)	(\$1,000M)	(\$5,547M)
<b>Consumer Staples</b>	10	\$30B	\$182M	\$866M	\$1,989M	\$8,513M
<b>Energy</b>	33	\$86B	(\$169M)	\$1,131M	(\$2,483M)	\$2,388M
<b>Financials</b>	26	\$63B	(\$102M)	(\$2,066M)	(\$1,942M)	(\$10,086M)
<b>Health Care</b>	23	\$97B	\$401M	\$1,927M	\$4,743M	\$13,783M
<b>Industrial</b>	13	\$31B	\$135M	\$614M	(\$1,103M)	(\$2,298M)
<b>Materials</b>	9	\$14B	\$8M	(\$971M)	(\$3,067M)	(\$1,898M)
<b>Multi-Sector</b>	19	\$13B	\$21M	(\$634M)	(\$2,135M)	(\$5,936M)
<b>Real Estate</b>	25	\$61B	\$54M	(\$247M)	(\$2,629M)	(\$3,167M)
<b>Technology</b>	23	\$119B	(\$232M)	\$1,823M	\$2,049M	\$2,358M
<b>Utilities</b>	9	\$26B	\$41M	(\$428M)	\$1,137M	\$5,323M

### U.S. Sector & Industry Flow Leaders

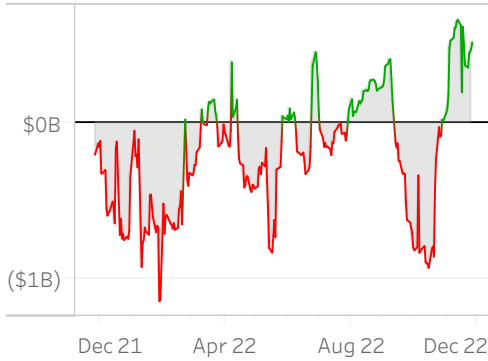
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
<b>XLV</b>	Health Care Select Sector SPDR Fund	\$472M	\$865M	\$1,972M	\$8,759M	\$42,132M
<b>XLP</b>	Consumer Staples Select Sector SPDR Fund	\$121M	\$726M	\$1,085M	\$4,982M	\$17,404M
<b>XLI</b>	Industrial Select Sector SPDR Fund	\$115M	\$327M	(\$828M)	(\$2,249M)	\$14,362M
<b>XLU</b>	Utilities Select Sector SPDR Fund	\$80M	(\$268M)	\$813M	\$3,569M	\$16,315M
<b>IGV</b>	iShares Expanded Tech-Software Sector ETF	\$80M	\$897M	\$371M	\$1,124M	\$4,702M
<b>SCHH</b>	Schwab U.S. REIT ETF	\$70M	\$230M	\$145M	\$322M	\$5,771M
<b>XME</b>	SPDR S&P Metals & Mining ETF	\$68M	(\$11M)	(\$529M)	\$31M	\$2,096M
<b>XLE</b>	Energy Select Sector SPDR Fund	\$54M	\$801M	(\$965M)	\$219M	\$43,820M
<b>KBWB</b>	Invesco KBW Bank ETF	\$49M	\$202M	\$395M	(\$42M)	\$2,202M
<b>REM</b>	iShares Mortgage Real Estate ETF	\$41M	(\$10M)	\$28M	(\$383M)	\$705M

### U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
<b>XOP</b>	SPDR S&P Oil & Gas Exploration & Production E..	(\$226M)	(\$435M)	(\$787M)	(\$704M)	\$4,738M
<b>VGT</b>	Vanguard Information Technology ETF	(\$160M)	(\$421M)	\$619M	\$754M	\$42,458M
<b>XLF</b>	Financial Select Sector SPDR Fund	(\$151M)	(\$2,410M)	(\$1,130M)	(\$5,593M)	\$33,575M
<b>XLK</b>	Technology Select Sector SPDR Fund	(\$125M)	\$510M	\$1,128M	\$2,368M	\$41,216M
<b>IBB</b>	iShares Biotechnology ETF	(\$87M)	\$205M	\$288M	\$346M	\$8,820M
<b>KRE</b>	SPDR S&P Regional Banking ETF	(\$80M)	(\$295M)	(\$662M)	(\$1,398M)	\$3,116M
<b>XLB</b>	Materials Select Sector SPDR Fund	(\$69M)	(\$505M)	(\$1,436M)	(\$2,305M)	\$5,536M
<b>XLRE</b>	Real Estate Select Sector SPDR Fund	(\$40M)	\$416M	\$167M	\$1,034M	\$5,121M
<b>VPU</b>	Vanguard Utilities ETF	(\$38M)	(\$89M)	(\$42M)	\$301M	\$5,645M
<b>SOXX</b>	iShares Semiconductor ETF	(\$37M)	(\$47M)	(\$270M)	\$91M	\$6,528M

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

Communication Services



Consumer Discretionary



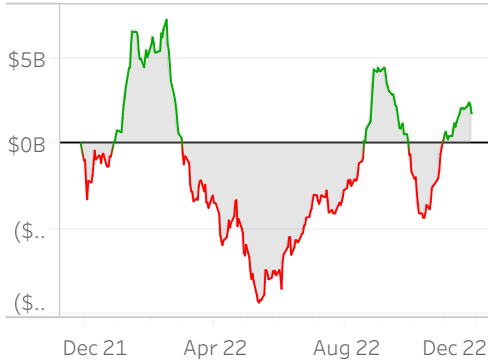
Consumer Staples



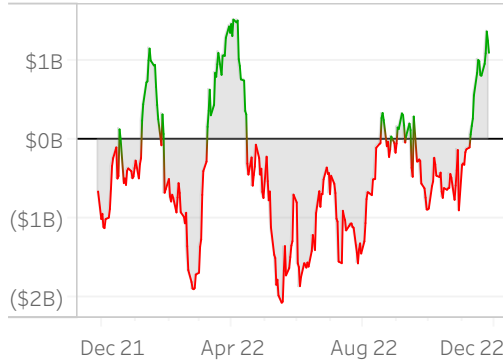
Energy



Financials



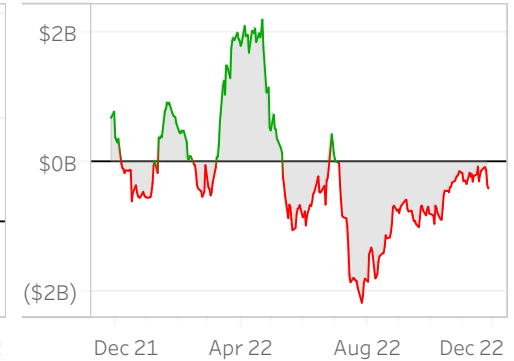
Industrial



Health Care



Materials



Real Estate



Technology



Utilities

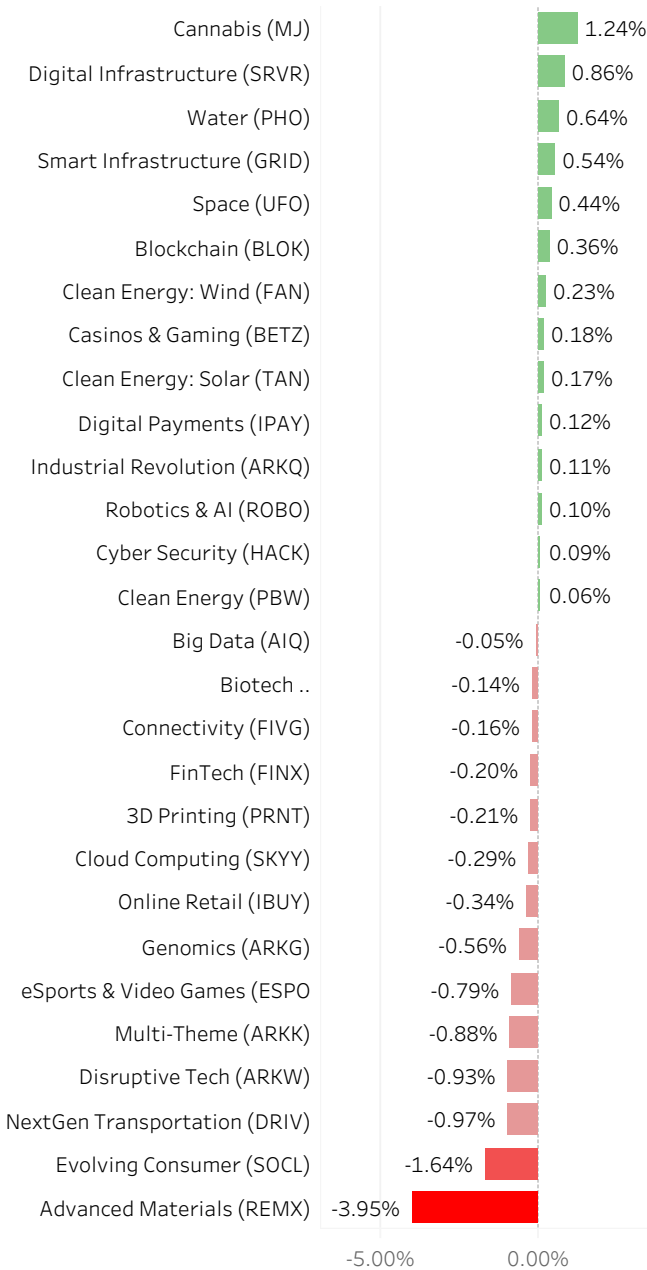


Multi-Sector

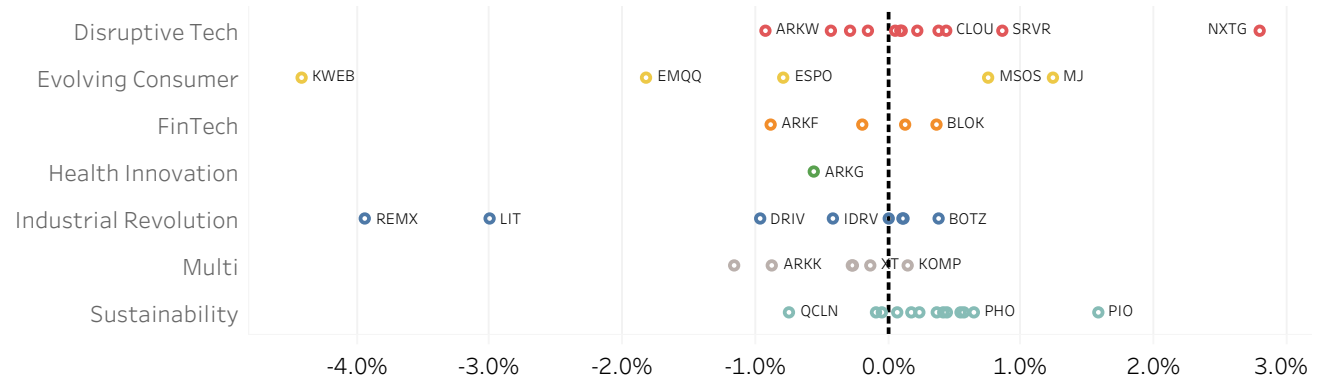


\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

## Global Thematic Segment 1-Day Performance



## Global Thematic 1-Day Performance Landscape



### Global Thematic 1-Day Performance Leaders

Ticker	Fund	Performance
POTX	Global X Cannabis ETF	4.34%
NXTG	First Trust Indxx NextG ETF	2.79%
PIO	Invesco Global Water ETF	1.58%
MJ	ETFMG Alternative Harvest ETFMG Alternative Harvest	1.24%
AWAY	ETFMG Travel Tech ETF	1.03%
HERO	Global X Video Games & Esports ETF	0.98%
VPN	Global X Data Center REITs & Digital Infrastructure ETF	0.91%
SRVR	Pacer Data & Infrastructure Real Estate ETF	0.86%
CTEC	Global X CleanTech ETF	0.79%
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	0.78%

### Thematic Most Overbought

Ticker	Fund	Value
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure ..	73.53
CGW	Invesco S&P Global Water Index ETF	69.50
PIO	Invesco Global Water ETF	69.34
CTEC	Global X CleanTech ETF	67.88
KLDW	Knowledge Leaders Developed World ETF	67.80
EBLU	Ecofin Global Water ESG Fund	67.77
LEGR	First Trust Indxx Innovative Transaction & Process ETF	67.18
CNRG	SPDR S&P Kensho Clean Power ETF	66.52
SNSR	Global X Internet of Things ETF	65.67
FAN	First Trust Global Wind Energy ETF	65.57

### Global Thematic 1-Day Performance Laggards

Ticker	Fund	Performance
KWEB	KraneShares CSI China Internet ETF	-4.42%
REMX	VanEck Rare Earth/Strategic Metals ETF	-3.95%
LIT	Global X Lithium & Battery Tech ETF	-3.01%
KGRN	KraneShares MSCI China Clean Technology Index ETF	-2.14%
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce E..	-1.83%
KARS	KraneShares Electric Vehicles & Future Mobility Index ..	-1.69%
SOCL	Global X Social Media ETF	-1.64%
BATT	Amplify Lithium & Battery Technology ETF	-1.28%
METV	Roundhill Ball Metaverse ETF	-1.16%
ONLN	ProShares Online Retail ETF	-1.10%

### Thematic Most Oversold

Ticker	Fund	Value
LIT	Global X Lithium & Battery Tech ETF	41.48
BLOK	Amplify Transformational Data Sharing ETF	43.31
KGRN	KraneShares MSCI China Clean Technology Index ETF	43.56
ARKG	ARK Genomic Revolution ETF	44.43
FINX	Global X FinTech ETF	46.11
ARKW	ARK Next Generation Internet ETF	46.50
ARKK	ARK Innovation ETF	46.52
REMX	VanEck Rare Earth/Strategic Metals ETF	46.67
KARS	KraneShares Electric Vehicles & Future Mobility Index ETF	46.78
WCLD	WisdomTree Cloud Computing Fund	46.91

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

### Thematic 1 Week Flow Leaders

Ticker	Fund	Flow
TAN	Invesco Solar ETF	\$71M
ICLN	iShares Global Clean Energy ETF	\$53M
MSOS	AdvisorShares Pure US Cannabis ETF	\$22M
KWEB	KraneShares CSI China Internet ETF	\$16M
GINN	Goldman Sachs Innovate Equity ETF	\$15M
PBW	Invesco WilderHill Clean Energy ETF	\$5M
TARK	AXS 2X Innovation ETF	\$2M
ARKW	ARK Next Generation Internet ETF	\$2M
KLDW	Knowledge Leaders Developed World ETF	\$2M
FAN	First Trust Global Wind Energy ETF	\$2M

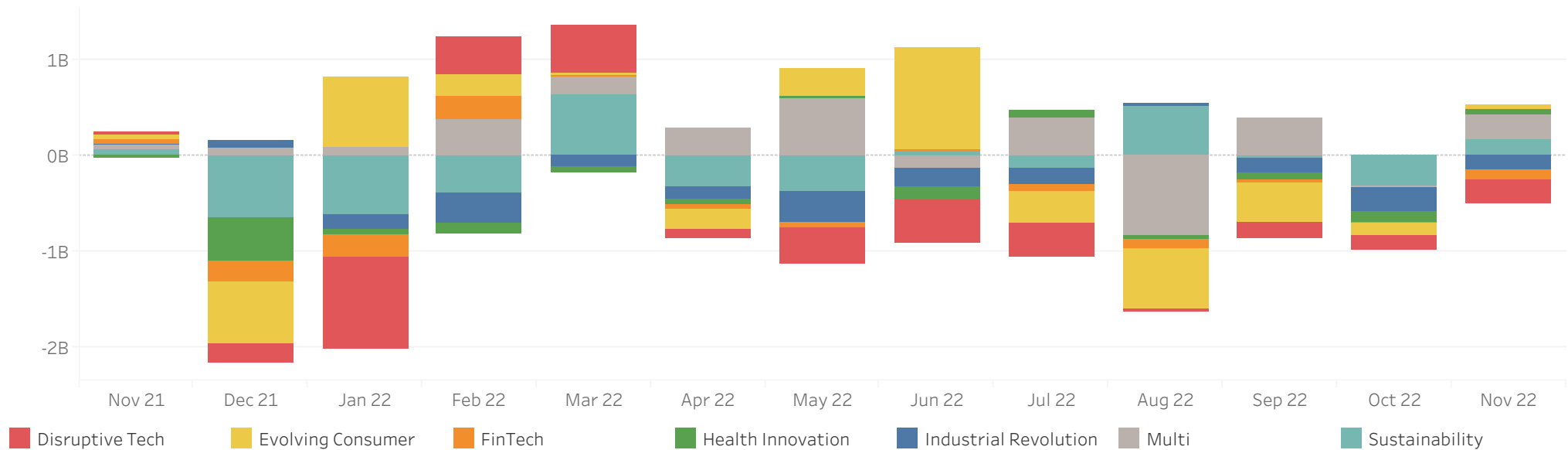
### Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
ARKK	ARK Innovation ETF	(\$155M)
ARKG	ARK Genomic Revolution ETF	(\$42M)
BUG	Global X Cybersecurity ETF	(\$19M)
BOTZ	Global X Robotics & Artificial Intelligence ETF	(\$13M)
LIT	Global X Lithium & Battery Tech ETF	(\$13M)
ARKF	ARK Fintech Innovation ETF	(\$12M)
SRVR	Pacer Data & Infrastructure Real Estate ETF	(\$12M)
KOMP	SPDR S&P Kensho New Economies Composite ETF	(\$11M)
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	(\$10M)
EDOC	Global X Telemedicine & Digital Health ETF Registered	(\$9M)

### Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	35	\$16B	(\$26M)	(\$585M)	(\$1,389M)	(\$2,093M)
Evolving Consumer	46	\$9B	\$21M	(\$453M)	(\$348M)	\$83M
FinTech	23	\$3B	(\$23M)	(\$181M)	(\$336M)	(\$595M)
Health Innovation	19	\$3B	(\$31M)	(\$130M)	(\$264M)	(\$964M)
Industrial Revolution	32	\$11B	(\$27M)	(\$576M)	(\$885M)	(\$1,867M)
Multi	41	\$14B	(\$45M)	\$465M	\$160M	\$1,675M
Sustainability	40	\$19B	\$28M	(\$158M)	\$233M	(\$1,474M)
<b>Grand Total</b>	<b>236</b>	<b>\$75B</b>	<b>(\$103M)</b>	<b>(\$1,617M)</b>	<b>(\$2,829M)</b>	<b>(\$5,235M)</b>

### Thematic Monthly Flows

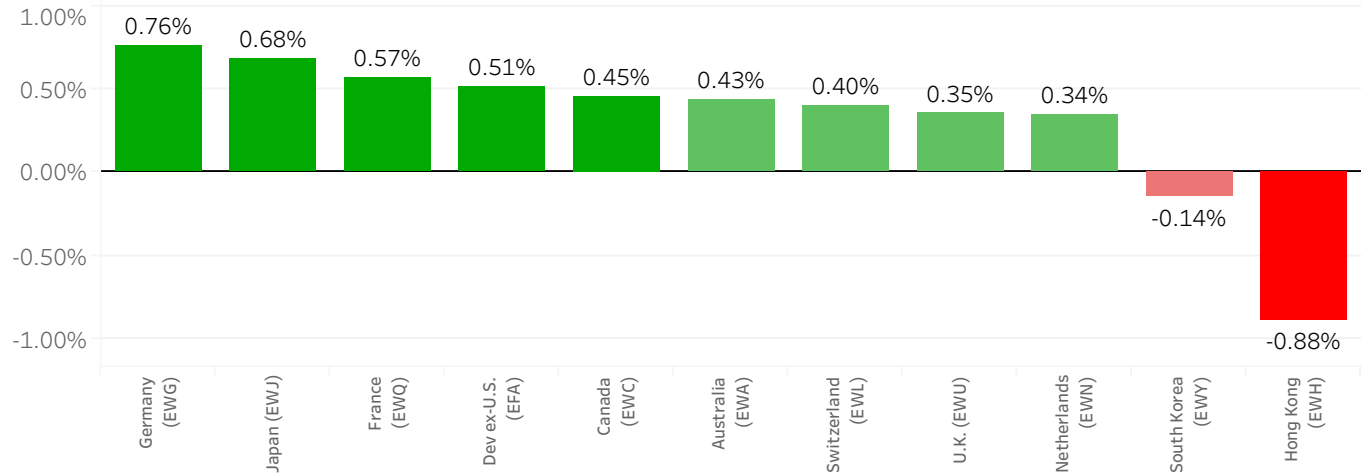


\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

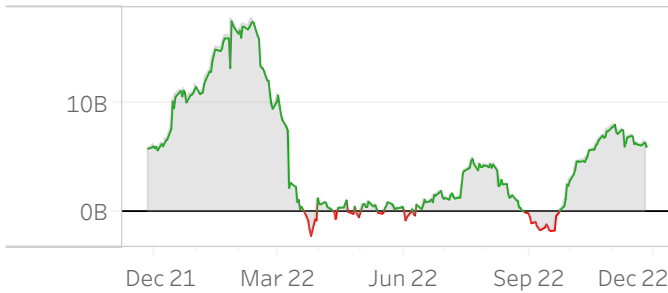
Developed ex-U.S. (EFA)



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



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



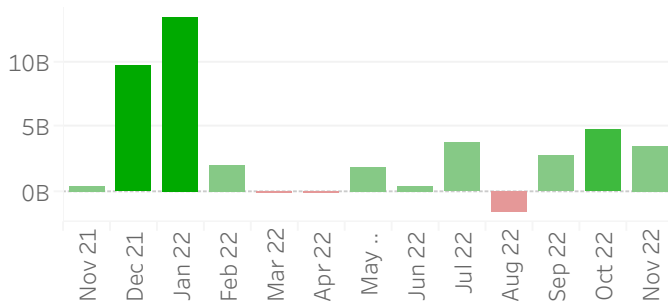
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
FSZ	First Trust Switzerland AlphaDEX Fund	5.30%
GREK	Global X MSCI Greece ETF	1.49%
NORW	Global X MSCI Norway ETF	1.34%
EWP	iShares MSCI Spain ETF	1.20%
CIL	VictoryShares International Volatility Wtd ETF	1.13%
DFJ	WisdomTree Japan SmallCap Dividend Fund	1.12%
EDEN	iShares MSCI Denmark ETF	1.12%
AIVI	WisdomTree International AI Enhanced Value Fund	1.08%
EWJV	iShares MSCI Japan Value ETF	1.03%
FEP	First Trust Europe AlphaDEX Fund	1.00%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
DXJ	WisdomTree Japan Hedged Equity Fund	77.55
IMFL	Invesco International Developed Dynamic Multifactor ETF	76.49
GSID	Goldman Sachs MarketBeta International Equity ETF	76.32
LVHI	Franklin International Low Volatility High Dividend Index ..	76.22
HDEF	Xtrackers MSCI EAFE High Dividend Yield Equity ETF	75.82
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	75.72
EWP	iShares MSCI Spain ETF	75.48
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	75.17
QLVD	FlexShares Developed Markets ex-US Quality Low Volatilit..	74.72
DBEF	Xtrackers MSCI EAFE Hedged Equity ETF	74.22

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
AIA	iShares Asia 50 ETF	-1.56%
EWH	iShares MSCI Hong Kong ETF	-0.88%
AAXJ	iShares MSCI All Country Asia ex Japan ETF	-0.49%
FLKR	Franklin FTSE South Korea ETF	-0.32%
EWS	iShares MSCI Singapore ETF	-0.32%
EWY	iShares MSCI South Korea ETF	-0.14%
ISRA	VanEck Israel ETF	-0.07%
EPP	iShares MSCI Pacific ex-Japan ETF	0.00%
ISDX	Invesco RAFI Strategic Developed ex-US ETF	0.00%
EIS	iShares MSCI Israel ETF	0.03%

Developed ex-U.S. Most Oversold

Ticker	Fund	Value
EIS	iShares MSCI Israel ETF	52.31
ISRA	VanEck Israel ETF	53.40
EWH	iShares MSCI Hong Kong ETF	56.64
AIA	iShares Asia 50 ETF	57.22
AAXJ	iShares MSCI All Country Asia ex Japan ETF	58.63
FLKR	Franklin FTSE South Korea ETF	59.23
EWY	iShares MSCI South Korea ETF	59.89
FSZ	First Trust Switzerland AlphaDEX Fund	61.60
NORW	Global X MSCI Norway ETF	62.94
EWS	iShares MSCI Singapore ETF	63.78

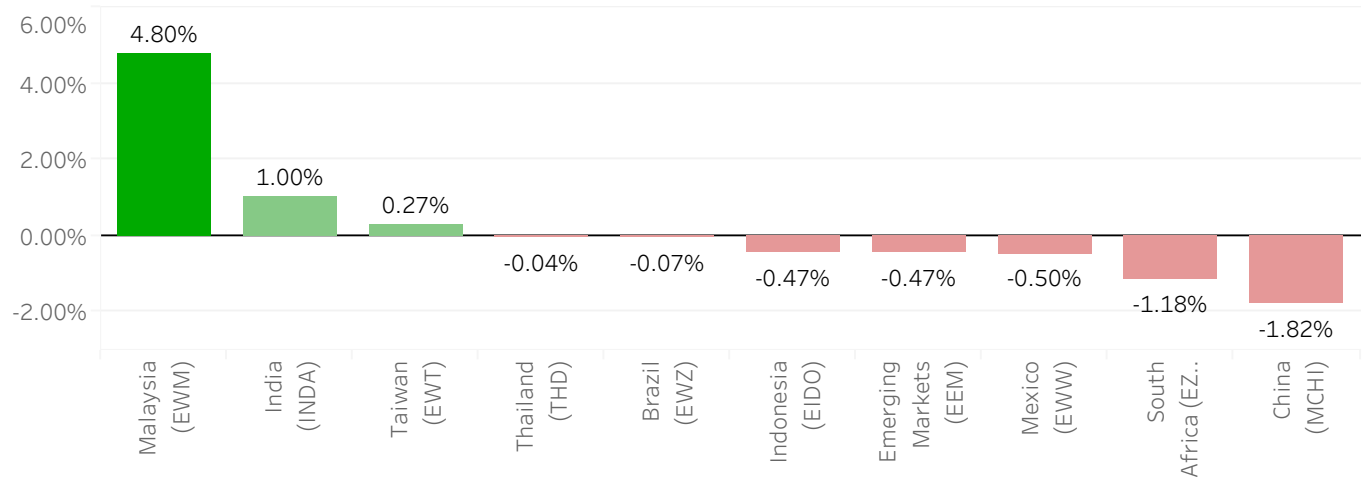
\* ETF Landscape represented using the ETF Action classification system \*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



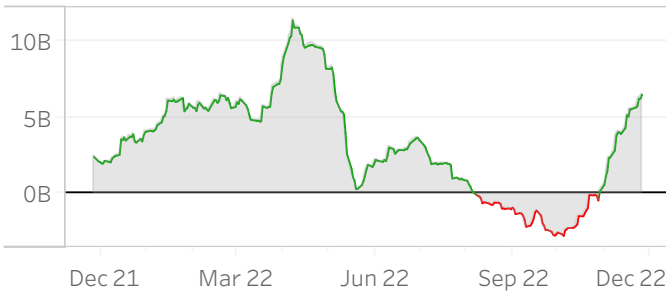
Emerging (EEM)



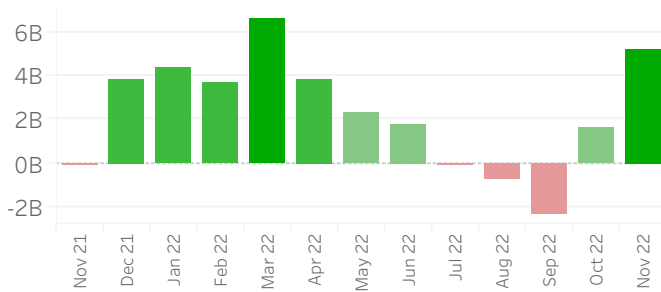
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
EWM	iShares MSCI Malaysia ETF	4.80%
TUR	iShares MSCI Turkey ETF	3.08%
EPOL	iShares MSCI Poland ETF	2.39%
EPI	WisdomTree India Earnings Fund	1.37%
PIN	Invesco India ETF	1.37%
FLIN	Franklin FTSE India ETF	1.33%
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fund	1.18%
SMIN	iShares MSCI India Small Cap ETF	1.10%
INDA	iShares MSCI India ETF	1.00%
INDY	iShares India 50 ETF	0.93%

Emerging Most Overbought

Ticker	Fund	Price
TUR	iShares MSCI Turkey ETF	77.21
EWM	iShares MSCI Malaysia ETF	73.62
EPOL	iShares MSCI Poland ETF	73.32
EPHE	iShares MSCI Philippines ETF	70.95
EWW	iShares MSCI Mexico ETF	69.79
EWT	iShares MSCI Taiwan ETF	69.56
EYLD	Cambria Emerging Shareholder Yield ETF	67.47
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fu..	66.94
FM	iShares MSCI Frontier and Select EM ETF	66.50
DGS	WisdomTree Emerging Markets SmallCap Dividend F..	66.18

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
PGJ	Invesco Golden Dragon China ETF	-3.47%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	-2.56%
ECH	iShares MSCI Chile ETF	-2.45%
MCHI	iShares MSCI China ETF	-1.82%
FXI	iShares China Large-Cap ETF	-1.71%
GXC	SPDR S&P China ETF	-1.67%
FLCH	Franklin FTSE China ETF	-1.61%
RAYC	Rayliant Quantamental China Equity ETF	-1.28%
FNI	First Trust Chindia ETF	-1.25%
CNYA	iShares MSCI China A ETF	-1.24%

Emerging Most Oversold

Ticker	Fund	Price
QAT	iShares MSCI Qatar ETF	34.64
KSA	iShares MSCI Saudi Arabia ETF	34.82
EWZS	iShares MSCI Brazil Small-Cap ETF	40.47
FLBR	Franklin FTSE Brazil ETF	42.00
EWZ	iShares MSCI Brazil ETF	42.10
RAYC	Rayliant Quantamental China Equity ETF	45.49
ILF	iShares Latin America 40 ETF	45.83
EIDO	iShares MSCI Indonesia ETF	46.17
KBA	KraneShares Bosera MSCI China A 50 Connect Index ..	46.18
FLLA	Franklin FTSE Latin America ETF	46.60

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

### Fixed Income (AGG)



### Commodities (DJP)



### Currencies (UUP)



■ 200 Day Moving Average 
 ■ 50 Day Moving Average 
 ■ Closing Price

### Fixed Income Performance

Ticker	Name	1 Day	1 Month	YTD
AGG	U.S. Aggregate	0.02%	3.92%	-12.48%
SHY	1-3 Year Treasury Bonds	0.01%	0.41%	-4.26%
IEF	7-10 Year Treasury Bonds	-0.03%	3.33%	-14.32%
TLT	20+ Year Treasury Bonds	-0.34%	8.48%	-29.27%
TIP	TIPS Bonds	-0.09%	1.38%	-11.79%
FLOT	Floating Rate Bonds	-0.10%	0.32%	0.38%
LQD	Investment Grade Corporate	0.10%	7.28%	-16.63%
HYG	High Yield Corporate	-0.20%	2.81%	-10.18%
BKLN	Senior Loan	-0.24%	1.34%	-2.49%
PFF	Preferred & Income Securities	0.25%	5.28%	-15.53%
MUB	Municipal Bonds	-0.13%	3.97%	-7.78%
MBB	MBS	0.00%	4.63%	-11.28%
EMB	Dollar Denominated EM Bonds	0.46%	8.30%	-18.49%
LEMB	Local Currency EM Bond	-0.12%	5.72%	-12.83%

### Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-1.26%	2.87%	19.79%
DBE	Energy	-1.44%	-5.02%	36.12%
USO	WTI Crude Oil	-0.67%	-5.17%	23.18%
BNO	Brent Crude Oil	-0.39%	-6.76%	32.66%
UNG	Natural Gas	-3.45%	13.50%	81.75%
UGA	Gasoline	-3.38%	-7.60%	35.89%
DBP	Precious Metals	-0.20%	6.85%	-6.47%
GLD	Gold	0.09%	5.99%	-4.53%
SLV	Silver	-0.45%	10.41%	-8.32%
PPLT	abrdrn Physical Platin..	-1.81%	6.74%	1.32%
PALL	abrdrn Physical Palla..	-2.85%	-5.21%	-3.47%
DBB	Base Metals	-0.47%	6.36%	-13.61%
CPER	Copper	-0.68%	6.23%	-19.85%
LD	Lead	-0.40%	15.19%	-6.73%
JJN	Nickel	-3.76%	13.91%	23.27%
JJU	Aluminum	-1.36%	6.13%	-15.98%
JJT	Tin	1.10%	21.02%	-40.51%
DBA	Agriculture	-0.05%	-0.25%	0.61%
CORN	Corn	0.91%	-2.45%	23.68%
SOYB	Soybeans	0.11%	2.87%	19.60%
WEAT	Wheat	-1.34%	-5.72%	9.20%
CANE	Sugar	-0.21%	6.13%	1.63%
BAL	Cotton	-2.84%	5.36%	-10.88%
NIB	Cocoa	2.13%	10.16%	-8.57%
JO	Coffee	0.60%	-9.06%	-23.58%

### Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	0.00%	-4.13%	11.51%
UDN	Short Dollar	0.06%	4.66%	-10.13%
FXE	Euro	0.03%	4.43%	-9.21%
FXB	British Pound Sterling	0.30%	5.42%	-10.42%
FXF	Swiss Franc	-0.45%	5.15%	-4.48%
FXJ	Japanese Yen	0.22%	6.25%	-17.66%
FXC	Canadian Dollar	-0.08%	1.84%	-5.45%
FXA	Australian Dollar	0.06%	5.58%	-7.37%

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

*Disclaimer of Warranties*

Except for the express warranties set forth in the terms of service, all services, including all ETF Action materials, are provided on an “as is,” “where is” basis, and ETF Action and its licensors disclaim all representations or warranties, express or implied as to the services. ETF Action and its licensors specifically disclaim all implied warranties of merchantability, fitness for a particular purpose, title and non-infringement, and all warranties arising from course of dealing, usage or trade practice. Without limiting the foregoing, ETF Action and its licensors make no warranty of any kind that the services or ETF Action materials, or any products or results of the use thereof, will meet customer’s or any other person’s requirements, operate without interruption, achieve any intended result, be compatible or work with any software, system or other services, or be secure, accurate, complete, timely, free of harmful code or error free. All third-party materials are provided “as is” and any representation or warranty of or concerning any third-party materials is strictly between customer and the third-party owner or distributor of the third-party materials.

*Additional Disclaimers*

The services are not intended and should not be construed as financial or investment advice, a recommendation or promotion. Neither ETF Action nor its licensors shall be responsible for investment decisions, damages, or other losses *resulting from use of the services*. *Past performance* does not guarantee future performance. Neither ETF Action nor its licensors shall be considered an “expert” under the securities act of 1933. Neither ETF Action nor its licensors warrant that the services comply with the requirements of the NASD or any similar organization or with the securities laws of any jurisdiction. Any information contained in in the services should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional.

Distribution prohibited without prior permission. Full terms of service, including terms of use, copyrights, and disclaimers are available at <https://www.etfaction.com/terms>.

© Copyright ETF Action, Inc. All Rights Reserved.

*Data Reliability and Definitions*

ETF Action, LLC believes the information herein to be accurate (at time of publication) and was obtained from reliable sources, but makes no guarantees with respect to its accuracy. Calculations of fundamental data are based on weighted averages of reported results and consensus estimates of current ETF constituents. Valuation data (price/earnings, price/sales, price/cash flow, price/book value) are calculated using per share data divided by current NAV of corresponding ETF. Performance, risk and technical data (moving averages, relative performance, RSI) calculated for specified periods using ETF market price which may differ from net asset value (NAV).

ETF Action Sector Beta Composites represent ETFs that meet stringent criteria surrounding index methodology, liquidity, assets under management, and management fee.

*Source Data & ETF Issuer Information ..*

ETF Action is an independent technology and research firm focused on helping advisors build better portfolios, create engaging experiences with their clients, and navigate the vast ETF landscape.

Contact us at:

[team@etfaction.com](mailto:team@etfaction.com)

[www.etfaction.com](http://www.etfaction.com)