

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

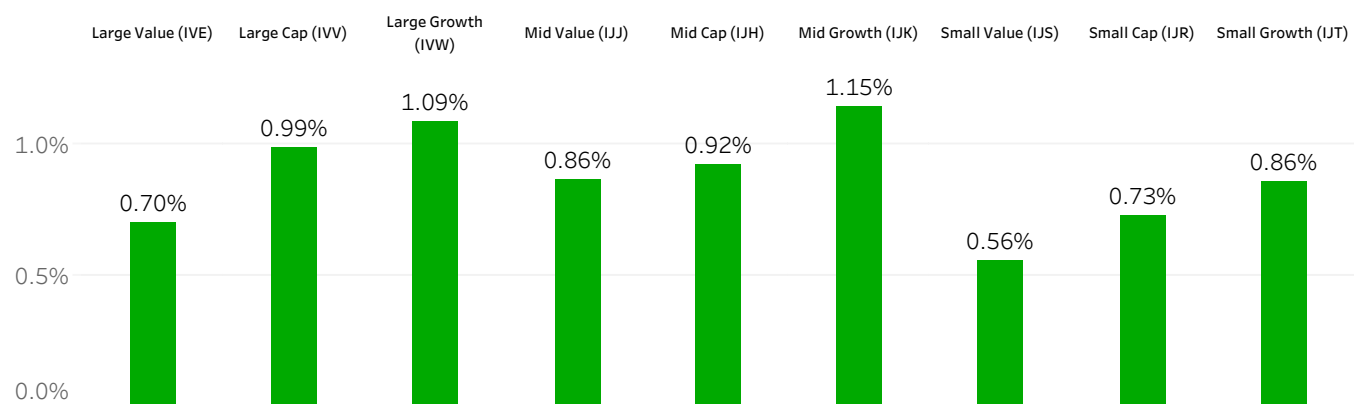


Small Cap Blend (S&P 600) IJR



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

U.S. Size & Style 1-Day Performance



Size & Style 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
IPO	Renaissance IPO ETF	2.85%
TMFS	Motley Fool Small-Cap Growth ETF	2.48%
FPX	First Trust US Equity Opportunities ETF	2.28%
QQH	HCM Defender 100 Index ETF	2.02%
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	1.96%
BUZZ	VanEck Social Sentiment ETF	1.96%
SPHB	Invesco S&P 500 High Beta ETF	1.93%
QQXT	First Trust Nasdaq-100 Ex-Technology Sector Index Fund	1.90%
QQQE	Direxion NASDAQ-100 Equal Weighted Index Shares	1.90%
QQEW	First Trust Nasdaq-100 Equal Weighted Index Fund	1.81%

Size & Style Most Overbought

Ticker	Fund	Value
DHS	WisdomTree U.S. High Dividend Fund	80.85
FDL	First Trust Morningstar Dividend Leaders Index Fund	79.80
HDV	iShares Core High Dividend ETF	76.92
SPYD	SPDR Portfolio S&P 500 High Dividend ETF	75.50
PEY	Invesco High Yield Equity Dividend Achievers ETF	74.10
DVY	iShares Select Dividend ETF	73.46
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	73.43
VLUE	iShares MSCI USA Value Factor ETF	72.67
PWV	Invesco Dynamic Large Cap Value ETF	72.56
SDOG	ALPS Sector Dividend Dogs ETF	72.20

Size & Style 1-Day Performance Laggards

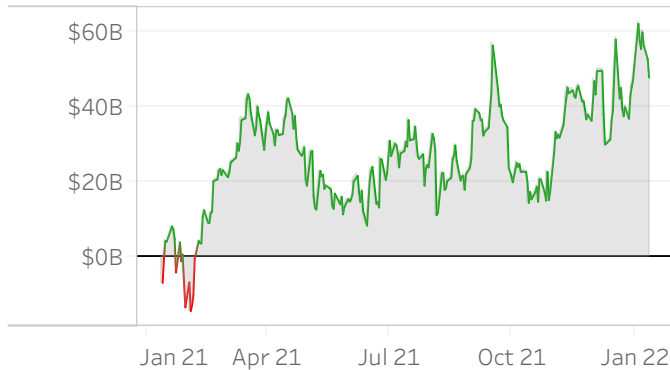
Ticker	Fund	1-Day Performance
OMFS	Invesco Russell 2000 Dynamic Multifactor ETF	-0.51%
SMDV	ProShares Russell 2000 Dividend Growers ETF	-0.43%
CSB	VictoryShares US Small Cap High Dividend Volatility Wt..	-0.34%
XSLV	Invesco S&P SmallCap Low Volatility ETF	-0.31%
LVHD	Legg Mason Low Volatility High Dividend ETF	-0.30%
SPLV	Invesco S&P 500 Low Volatility ETF	-0.15%
DES	WisdomTree U.S. SmallCap Dividend Fund	-0.12%
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	-0.11%
SMLV	SPDR SSGA US Small Cap Low Volatility Index ETF	-0.10%
TPSC	Timothy Plan US Small Cap Core ETF	-0.05%

Size & Style Most Oversold

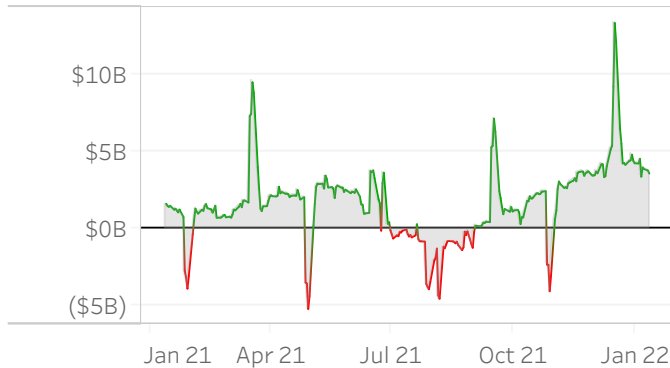
Ticker	Fund	Value
UTRN	Vesper U.S. Large Cap Short-Term Reversal Strategy..	21.33
DWEQ	AdvisorShares Dorsey Wright Alpha Equal Weight E..	30.08
NUMG	Nuveen ESG Mid-Cap Growth ETF	31.45
TTAC	FCF US Quality ETF	31.88
LCG	Sterling Capital Focus Equity ETF	33.35
BIBL	Inspire 100 ETF	33.58
NULG	Nuveen ESG Large-Cap Growth ETF	34.67
PDP	Invesco DWA Momentum ETF	34.78
AIEQ	AI Powered Equity ETF	34.89
AQGX	AI Quality Growth ETF	34.96

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

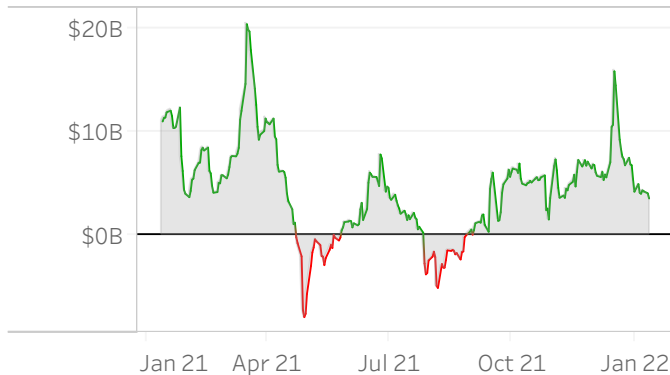
Large-Cap 30-Day Rolling Flows



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: Value	11	\$220B	\$0.97B	\$6.94B	\$11.22B	\$30.65B
Mid Cap, Beta, Beta	10	\$195B	\$0.57B	\$6.56B	\$7.02B	\$12.15B
Small Cap, Beta, Beta: Value	7	\$59B	\$0.25B	\$0.48B	\$0.68B	\$6.44B
Mid Cap, Beta, Beta: Value	6	\$43B	\$0.03B	\$0.33B	\$0.53B	\$3.29B
Mid Cap, Beta, Beta: Growth	6	\$39B	(\$0.14B)	\$0.81B	\$0.79B	(\$1.29B)
Small Cap, Beta, Beta	12	\$222B	(\$0.18B)	\$7.51B	\$11.44B	\$19.04B
Large Cap, Beta Growth, Beta: Growth	10	\$268B	(\$0.30B)	\$4.81B	\$9.49B	\$10.34B
Small Cap, Beta, Beta: Growth	7	\$37B	(\$0.36B)	\$0.56B	\$0.74B	\$0.87B
Large Cap, Beta Growth, Beta	25	\$1,392B	(\$1.93B)	\$65.95B	\$93.96B	\$151.47B

U.S. Size & Style Flow Leaders

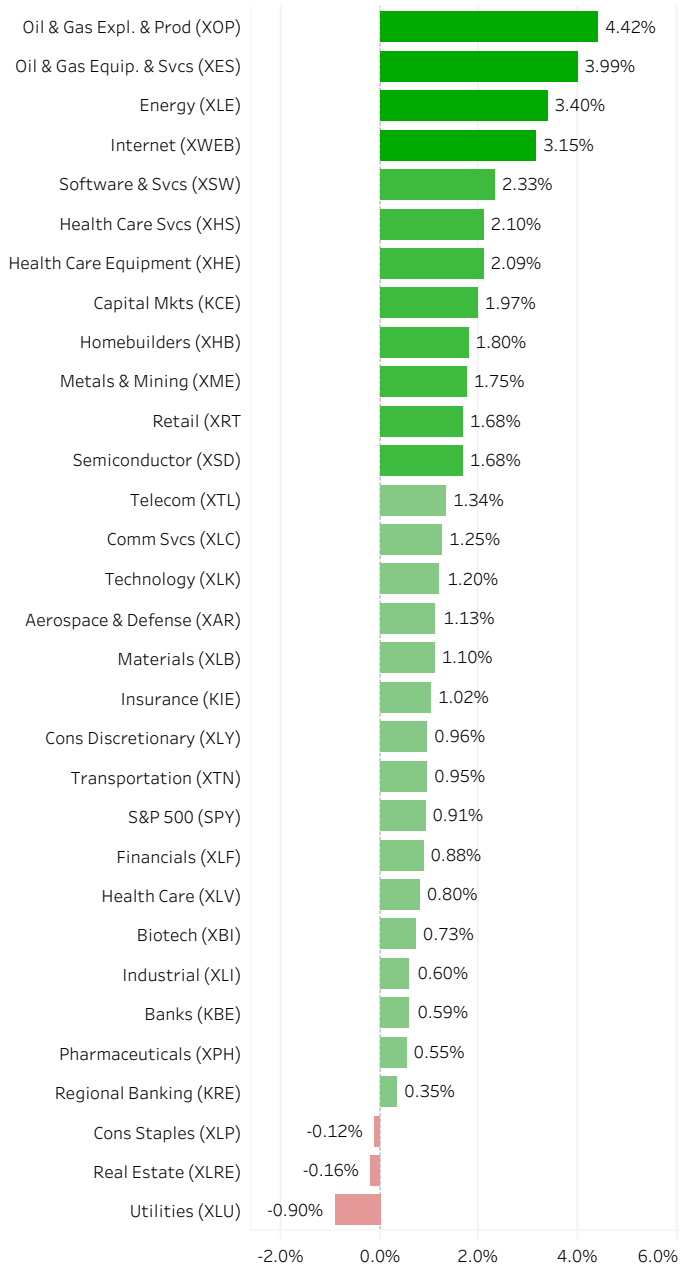
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
RSP	Invesco S&P 500 Equal Weight ETF	\$0.76B	\$1.57B	\$2.25B	\$8.11B	\$32.53B
VTV	Vanguard Value ETF	\$0.71B	\$3.36B	\$5.91B	\$15.67B	\$94.99B
IVE	iShares S&P 500 Value ETF	\$0.52B	\$0.91B	\$0.98B	\$1.74B	\$24.70B
VTI	Vanguard Total Stock Market ETF	\$0.50B	\$13.12B	\$24.35B	\$43.97B	\$292.88B
SCHD	Schwab US Dividend Equity ETF	\$0.39B	\$1.47B	\$3.74B	\$10.23B	\$32.19B
VLUE	iShares MSCI USA Value Factor ETF	\$0.33B	(\$0.31B)	(\$0.24B)	\$4.05B	\$17.04B
ESGU	iShares ESG Aware MSCI USA ETF	\$0.31B	\$2.07B	\$5.30B	\$8.29B	\$25.42B
IJR	iShares Core S&P Small Cap ETF	\$0.31B	\$3.89B	\$3.43B	\$5.65B	\$74.69B
RDVY	First Trust Rising Dividend Achievers ETF	\$0.26B	\$1.86B	\$3.01B	\$5.43B	\$8.37B
MDY	SPDR S&P Midcap 400 ETF Trust	\$0.24B	\$0.53B	(\$0.34B)	(\$0.51B)	\$21.70B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IVV	iShares Core S&P 500 ETF	(\$1.27B)	\$15.77B	\$15.49B	\$28.28B	\$327.71B
IWD	iShares Russell 1000 Value ETF	(\$0.60B)	\$1.69B	\$2.02B	\$4.73B	\$59.35B
IWM	iShares Russell 2000 ETF	(\$0.57B)	\$0.22B	\$1.21B	(\$0.46B)	\$65.92B
VOO	Vanguard S&P 500 ETF	(\$0.57B)	\$4.02B	\$17.34B	\$45.49B	\$273.22B
SUSA	iShares MSCI USA ESG Select ETF	(\$0.36B)	\$0.33B	\$0.72B	\$1.28B	\$4.34B
QUAL	iShares MSCI USA Quality Factor ETF	(\$0.36B)	(\$0.21B)	\$0.80B	(\$1.36B)	\$24.10B
IWF	iShares Russell 1000 Growth ETF	(\$0.32B)	(\$0.62B)	\$0.66B	(\$1.81B)	\$74.86B
IVW	iShares S&P 500 Growth ETF	(\$0.28B)	\$0.43B	\$0.86B	(\$0.97B)	\$38.54B
IWO	iShares Russell 2000 Growth ETF	(\$0.28B)	\$0.26B	\$0.46B	\$0.05B	\$11.28B
IUSG	iShares Core S&P U.S. Growth ETF	(\$0.25B)	\$0.19B	\$0.36B	\$0.28B	\$13.26B

\* 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	0.00%	60.81%	11.25%	19.25%	76.34
XLF	Financial Select Sector SPDR Fund	0.00%	42.97%	4.98%	9.10%	67.16
XLI	Industrial Select Sector SPDR Fund	-1.12%	24.95%	0.99%	2.62%	54.38
XLP	Consumer Staples Select Sector SPDR Fund	-1.16%	21.20%	3.54%	7.25%	60.44
XLB	Materials Select Sector SPDR Fund	-1.38%	26.50%	1.28%	5.28%	53.35
SPY	SPDR S&P 500 ETF Trust	-1.67%	26.94%	0.58%	6.48%	51.24
XLV	Utilities Select Sector SPDR Fund	-3.16%	18.78%	1.00%	3.82%	46.33
XLV	Health Care Select Sector SPDR Fund	-3.31%	23.47%	1.27%	5.47%	50.22
XLK	Technology Select Sector SPDR Fund	-4.92%	33.47%	-1.03%	9.04%	45.31
XLY	Consumer Discretionary Select Sector SPDR Fund	-5.32%	28.45%	-1.99%	7.60%	45.93
XLRE	Real Estate Select Sector SPDR Fund	-5.62%	34.27%	-0.54%	6.11%	41.73
XLC	Communication Services Select Sector SPDR Fund	-10.62%	15.00%	-1.43%	-3.73%	46.93

### Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
PXE	Invesco Dynamic Energy Exploration & Production ..	4.50%
PSCE	Invesco S&P SmallCap Energy ETF	4.44%
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	4.42%
PXI	Invesco DWA Energy Momentum ETF	4.33%
FCG	First Trust Natural Gas ETF	4.03%
XES	SPDR S&P Oil & Gas Equipment & Services ETF	3.99%
FTXN	First Trust Nasdaq Oil & Gas ETF	3.89%
IEZ	iShares U.S. Oil Equipment & Services ETF	3.81%
RYE	Invesco S&P 500 Equal Weight Energy ETF	3.69%
FENY	Fidelity MSCI Energy Index ETF	3.54%

### Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
MLPA	Global X MLP ETF	76.34
XLE	Energy Select Sector SPDR Fund	76.34
FXG	First Trust Consumer Staples AlphaDEX Fund	76.09
AMLP	Alerian MLP ETF	75.05
FENY	Fidelity MSCI Energy Index ETF	74.71
KBWR	Invesco KBW Regional Banking ETF	74.63
VDE	Vanguard Energy ETF	74.56
AMZA	InfraCap MLP ETF	74.55
IYE	iShares U.S. Energy ETF	73.73
IEZ	iShares U.S. Oil Equipment & Services ETF	73.48

### Sector & Industry 1 Day Performance Laggards

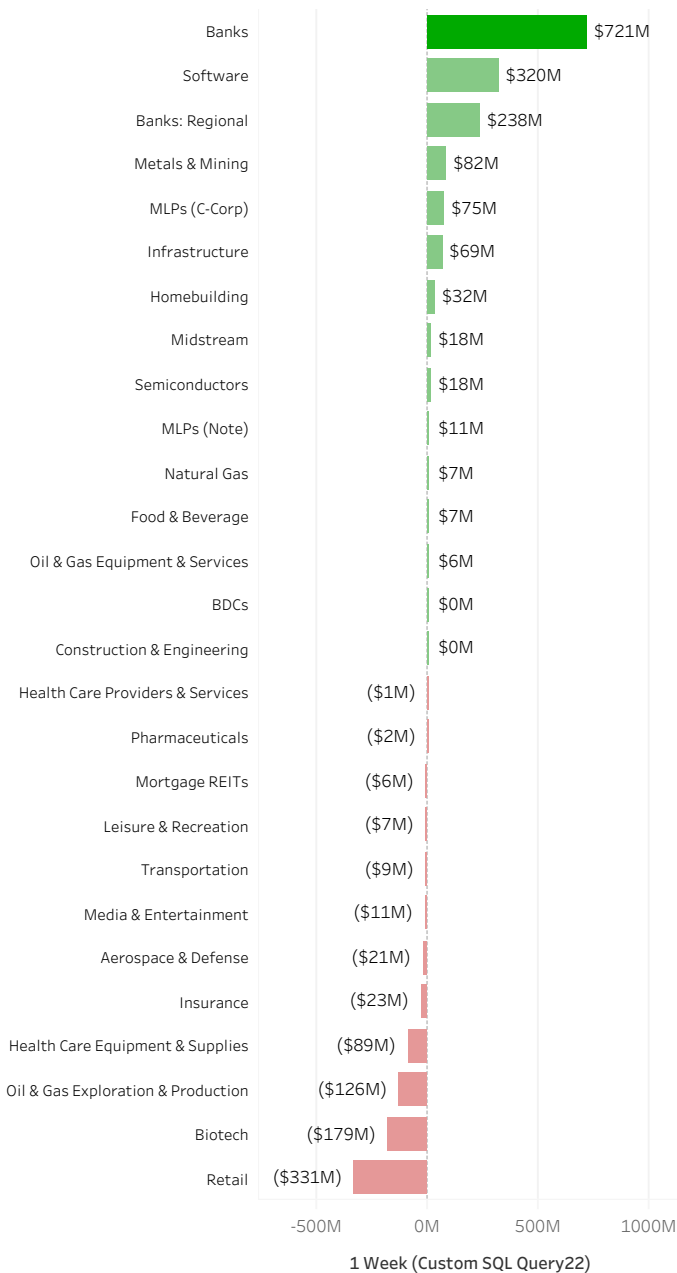
Ticker	Fund	1 Day Performance
XLU	Utilities Select Sector SPDR Fund	-0.90%
RYU	Invesco S&P 500 Equal Weight Utilities ETF	-0.90%
VPU	Vanguard Utilities ETF	-0.87%
FUTY	Fidelity MSCI Utilities Index ETF	-0.82%
IDU	iShares U.S. Utilities ETF	-0.81%
FXU	First Trust Utilities AlphaDEX Fund	-0.77%
KBWY	Invesco KBW Premium Yield Equity REIT ETF	-0.27%
QABA	First Trust NASDAQ ABA Community Bank Index Fund	-0.21%
XLRE	Real Estate Select Sector SPDR Fund	-0.16%
PSR	Invesco Active U.S. Real Estate Fund	-0.14%

### Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
PTH	Invesco DWA Healthcare Momentum ETF	33.98
PSJ	Invesco Dynamic Software ETF	34.37
XBI	SPDR S&P BIOTECH ETF	34.39
PBE	Invesco Dynamic Biotechnology & Genome ETF	36.67
IBB	iShares Biotechnology ETF	36.75
PRN	Invesco DWA Industrials Momentum ETF	36.96
PEZ	Invesco DWA Consumer Cyclical Momentum ETF	37.17
IGV	iShares Expanded Tech-Software Sector ETF	37.21
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	37.79
PTF	Invesco DWA Technology Momentum ETF	38.47

\* 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
Communication Services	9	\$19B	(\$357M)	(\$965M)	\$540M	\$599M
Consumer Discretionary	13	\$36B	(\$192M)	\$953M	\$328M	\$1,999M
Consumer Staples	12	\$24B	\$737M	\$1,777M	\$2,316M	(\$259M)
Energy	34	\$62B	\$769M	\$3,084M	\$3,202M	\$10,804M
Financials	28	\$91B	\$1,958M	\$4,361M	\$6,261M	\$19,221M
Health Care	26	\$91B	\$451M	\$5,366M	\$6,401M	\$6,234M
Industrial	14	\$36B	\$790M	\$296M	(\$2,447M)	\$462M
Materials	10	\$17B	\$481M	\$910M	(\$1,614M)	\$3,502M
Multi-Sector	19	\$25B	(\$100M)	\$1,737M	\$2,200M	\$4,591M
Real Estate	22	\$83B	\$844M	\$4,725M	\$8,591M	\$15,309M
Technology	24	\$153B	\$742M	\$3,991M	\$7,087M	\$6,740M
Utilities	10	\$21B	\$213M	(\$32M)	\$727M	\$391M

## U.S. Sector & Industry Flow Leaders

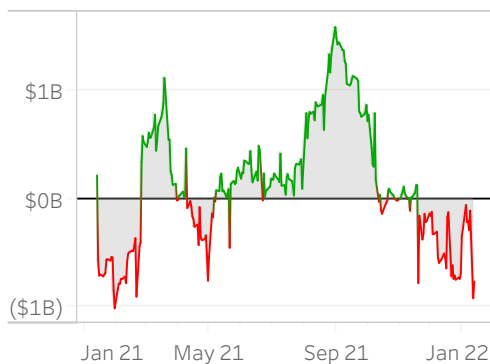
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	\$872M	\$3,231M	\$3,976M	\$8,927M	\$48,711M
XLI	Industrial Select Sector SPDR Fund	\$844M	\$182M	(\$1,675M)	(\$1,135M)	\$18,327M
XLV	Health Care Select Sector SPDR Fund	\$751M	\$4,061M	\$3,932M	\$5,590M	\$35,750M
XLP	Consumer Staples Select Sector SPDR Fund	\$741M	\$1,398M	\$1,716M	(\$225M)	\$14,178M
XLE	Energy Select Sector SPDR Fund	\$592M	\$1,168M	\$1,987M	\$6,022M	\$30,466M
KBE	SPDR S&P Bank ETF	\$508M	\$197M	\$187M	\$110M	\$3,885M
XLK	Technology Select Sector SPDR Fund	\$406M	\$1,620M	\$2,285M	\$1,509M	\$49,981M
VGT	Vanguard Information Technology ETF	\$405M	\$941M	\$1,745M	\$2,915M	\$54,089M
XLY	Consumer Discretionary Select Sector SPDR Fu..	\$361M	\$1,202M	\$720M	\$517M	\$23,067M
XLB	Materials Select Sector SPDR Fund	\$351M	\$624M	(\$1,059M)	\$1,226M	\$8,546M

## U.S. Sector & Industry Flow Laggards

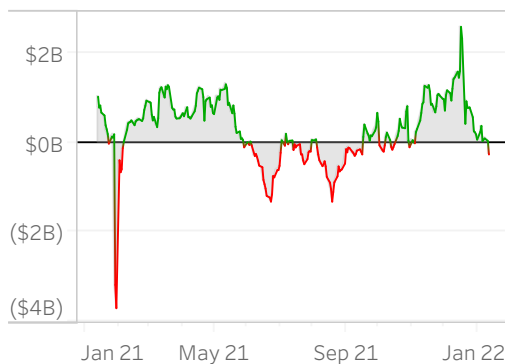
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IYW	iShares U.S. Technology ETF	(\$379M)	\$49M	\$578M	\$677M	\$9,221M
XLC	Communication Services Select Sector SPDR Fu..	(\$341M)	(\$828M)	\$256M	(\$226M)	\$13,369M
XRT	SPDR S&P Retail ETF	(\$331M)	(\$431M)	(\$499M)	(\$451M)	\$425M
XBI	SPDR S&P BIOTECH ETF	(\$262M)	\$753M	\$897M	\$1,389M	\$6,079M
FDN	First Trust Dow Jones Internet Index Fund	(\$191M)	(\$307M)	(\$182M)	(\$2,029M)	\$9,102M
FDIS	Fidelity MSCI Consumer Discretionary Index ETF	(\$179M)	\$96M	\$60M	\$234M	\$1,748M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	(\$134M)	(\$185M)	(\$242M)	(\$101M)	\$4,063M
XHB	SPDR S&P Homebuilders ETF	(\$84M)	\$486M	\$279M	\$537M	\$2,286M
VHT	Vanguard Health Care ETF	(\$63M)	\$354M	\$998M	\$1,686M	\$16,839M
FXL	First Trust Technology AlphaDEX Fund	(\$62M)	(\$974M)	(\$942M)	(\$1,168M)	\$1,743M

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

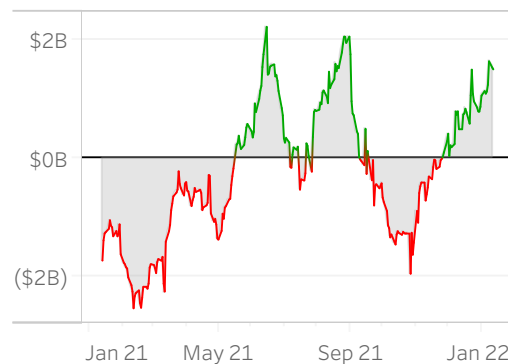
Communication Services



Consumer Discretionary



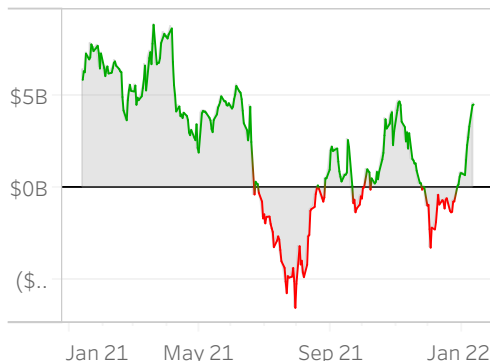
Consumer Staples



Energy



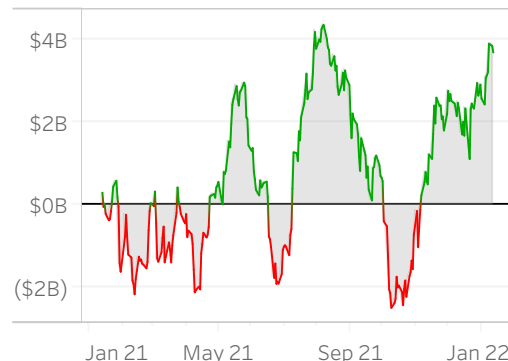
Financials



Industrial



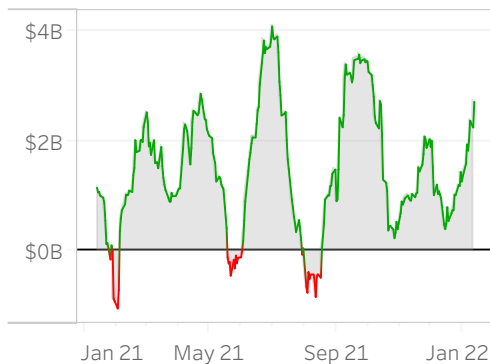
Health Care



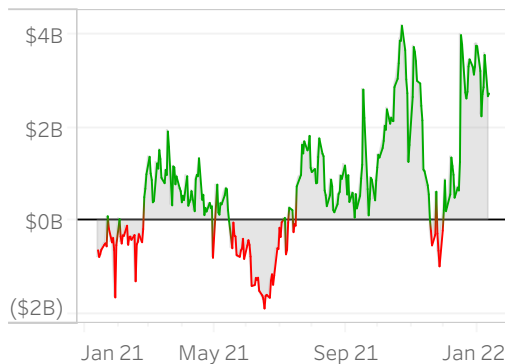
Materials



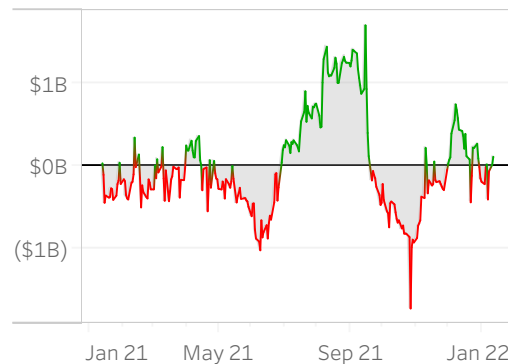
Real Estate



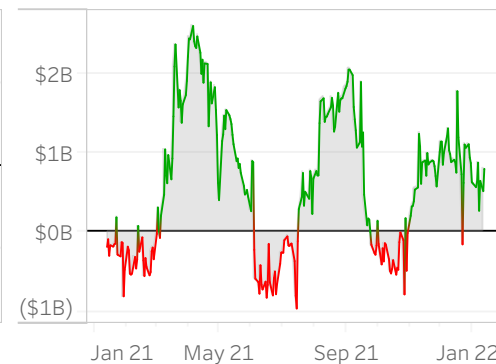
Technology



Utilities

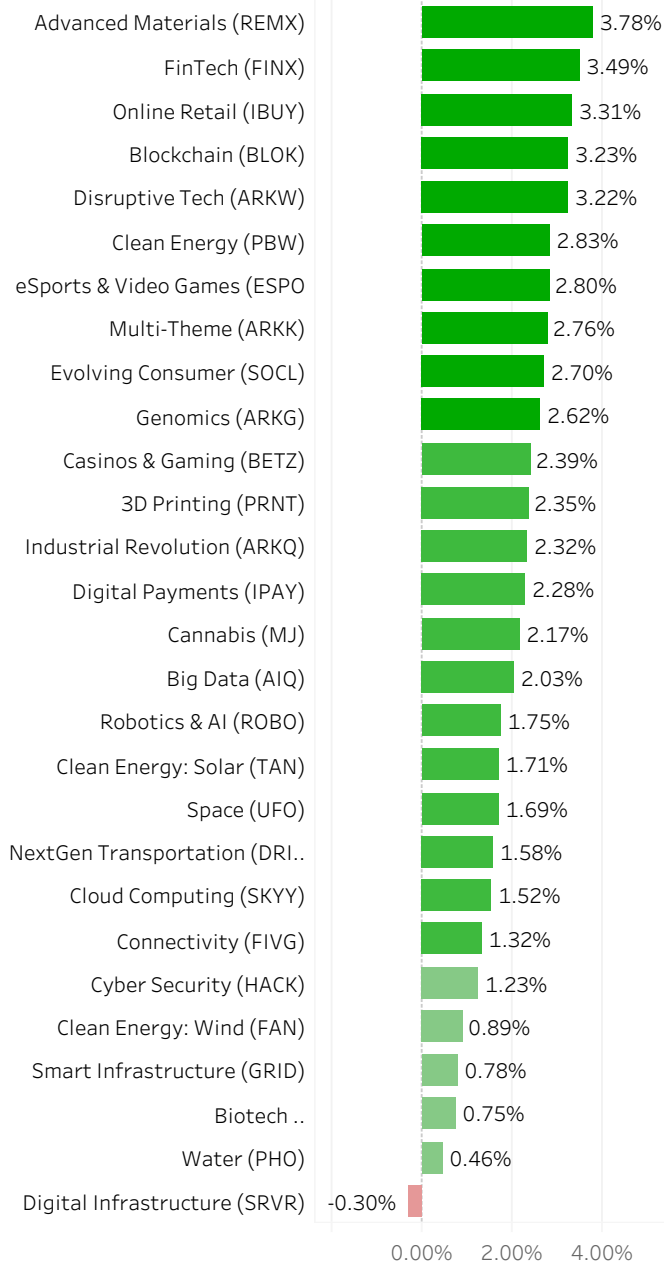


Multi-Sector

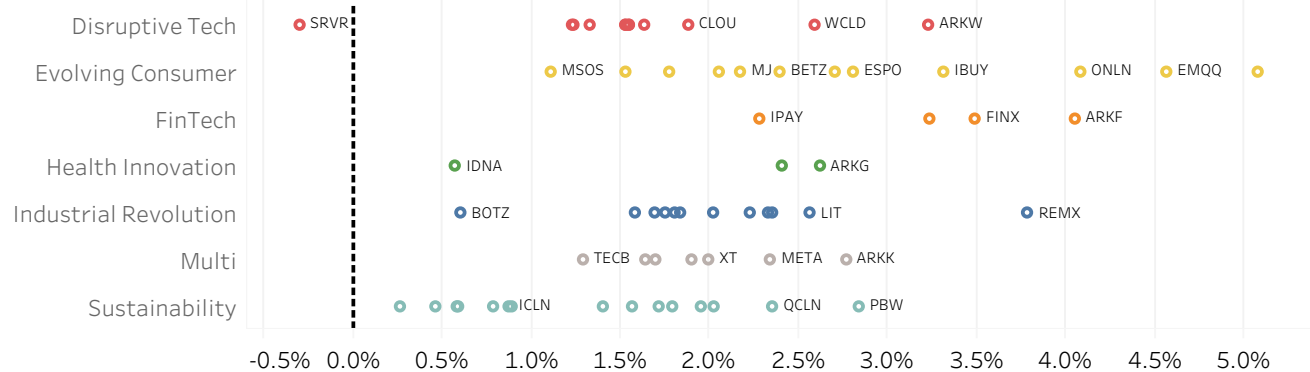


\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

## Global Thematic Segment 1-Day Performance



## Global Thematic 1-Day Performance Landscape



## Global Thematic 1-Day Performance Leaders

Ticker	Fund	Performance
BKCH	Global X Blockchain ETF	6.72%
BITQ	Bitwise Crypto Industry Innovators ETF	5.40%
KWEB	KraneShares CSI China Internet ETF	5.07%
EMQQ	Emerging Markets Internet & Ecommerce ETF	4.56%
ONLN	ProShares Online Retail ETF	4.08%
ARKF	ARK Fintech Innovation ETF	4.05%
KEMQ	KraneShares Emerging Markets Consumer Technology In..	3.87%
REMX	VanEck Rare Earth/Strategic Metals ETF	3.78%
MOON	Direxion Moonshot Innovators ETF	3.57%
FINX	Global X FinTech ETF	3.49%

## Thematic Most Overbought

Ticker	Fund	Price
LEGR	First Trust Indxx Innovative Transaction & Process ETF	65.50
DRIV	Global X Autonomous & Electric Vehicles ETF	54.19
IDRV	iShares Self-driving EV & Tech ETF	53.54
NXTG	First Trust Indxx NextG ETF	51.38
REMX	VanEck Rare Earth/Strategic Metals ETF	51.14
BJK	VanEck Gaming ETF	49.23
AWAY	ETFMG Travel Tech ETF	48.85
KWEB	KraneShares CSI China Internet ETF	48.47
EMQQ	Emerging Markets Internet & Ecommerce ETF	47.92
QTUM	Defiance Quantum ETF	47.64

## Global Thematic 1-Day Performance Laggards

Ticker	Fund	Performance
KSTR	KraneShares SSE STAR Market 50 Index ETF	-1.90%
SRVR	Pacer Benchmark Data & Infrastructure Real Estate S..	-0.30%
FIW	First Trust Water ETF	0.26%
EBLU	Ecofin Global Water ESG Fund	0.44%
EVX	VanEck Environmental Services ETF	0.45%
PHO	Invesco Water Resources ETF	0.46%
IDNA	iShares Genomics Immunology and Healthcare ETF Ge..	0.57%
CGW	Invesco S&P Global Water Index ETF	0.58%
HDRO	Defiance Next Gen H2 ETF	0.58%
PIO	Invesco Global Water ETF	0.59%

## Thematic Most Oversold

Ticker	Fund	Price
ENTR	ERShares Entrepreneurs ETF	16.54
IDNA	iShares Genomics Immunology and Healthcare ETF Geno..	26.27
BLOK	Amplify Transformational Data Sharing ETF	30.09
ICLN	iShares Global Clean Energy ETF	30.10
KSTR	KraneShares SSE STAR Market 50 Index ETF	30.32
HDRO	Defiance Next Gen H2 ETF	30.56
GNOM	Global X Genomics & Biotechnology ETF	31.67
RNRG	Global X Funds Global X Renewable Energy Producers ETF	32.09
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR..	32.14
FINX	Global X FinTech ETF	32.31

\* 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
KWEB	KraneShares CSI China Internet ETF	\$373M
META	Roundhill Ball Metaverse ETF	\$41M
SARK	Tuttle Capital Short Innovation ETF	\$40M
DRIV	Global X Autonomous & Electric Vehicles ETF	\$22M
ROBO	ROBO Global Robotics & Automation Index ETF	\$21M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$15M
ROBT	First Trust Nasdaq Artificial Intelligence & Robotics ETF	\$13M
BATT	Amplify Lithium & Battery Technology ETF	\$13M
IDRV	iShares Self-driving EV & Tech ETF	\$11M
KARS	KraneShares Electric Vehicles & Future Mobility Index ETF	\$9M

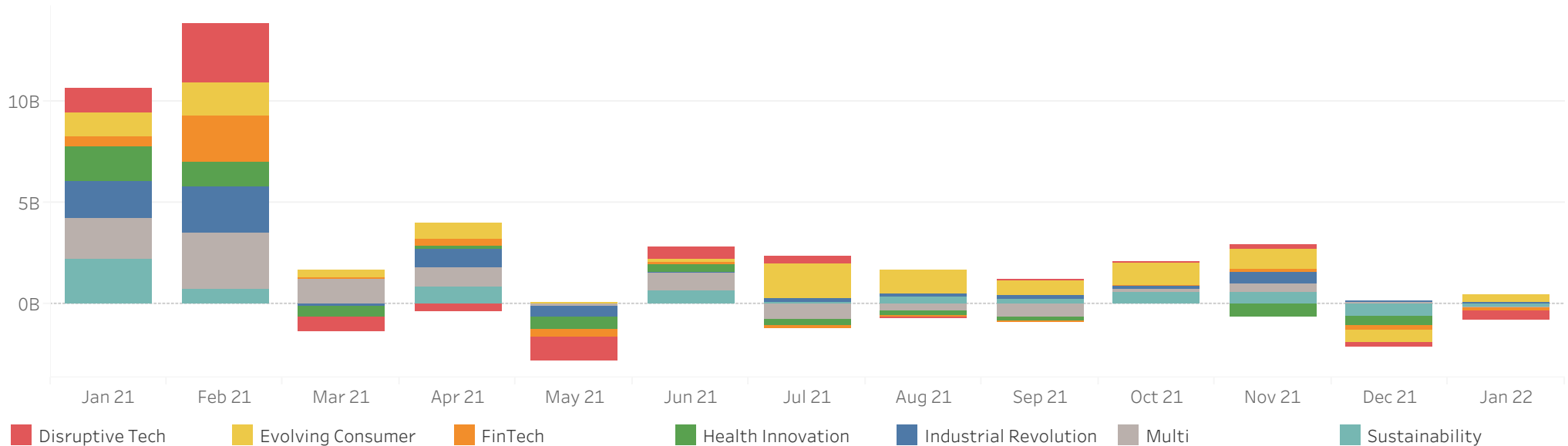
## Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
ARKW	ARK Next Generation Internet ETF	(\$199M)
ARKF	ARK Fintech Innovation ETF	(\$125M)
TAN	Invesco Solar ETF	(\$108M)
ARKG	ARK Genomic Revolution ETF	(\$94M)
WCLD	WisdomTree Cloud Computing Fund	(\$67M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$62M)
SKYY	First Trust Cloud Computing ETF	(\$59M)
PBW	Invesco WilderHill Clean Energy ETF	(\$44M)
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	(\$29M)
ICLN	iShares Global Clean Energy ETF	(\$28M)

## Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	38	\$26B	(\$350M)	(\$137M)	\$40M	\$2,390M
Evolving Consumer	44	\$14B	\$275M	\$1,729M	\$5,504M	\$9,628M
FinTech	19	\$6B	(\$101M)	(\$59M)	(\$421M)	\$2,636M
Health Innovation	17	\$6B	(\$171M)	(\$1,068M)	(\$1,875M)	\$429M
Industrial Revolution	25	\$17B	(\$23M)	\$991M	\$1,407M	\$5,907M
Multi	30	\$24B	\$233M	\$223M	(\$543M)	\$6,218M
Sustainability	38	\$21B	(\$151M)	\$498M	\$567M	\$5,062M
Grand Total	211	\$113B	(\$287M)	\$2,176M	\$4,679M	\$32,270M

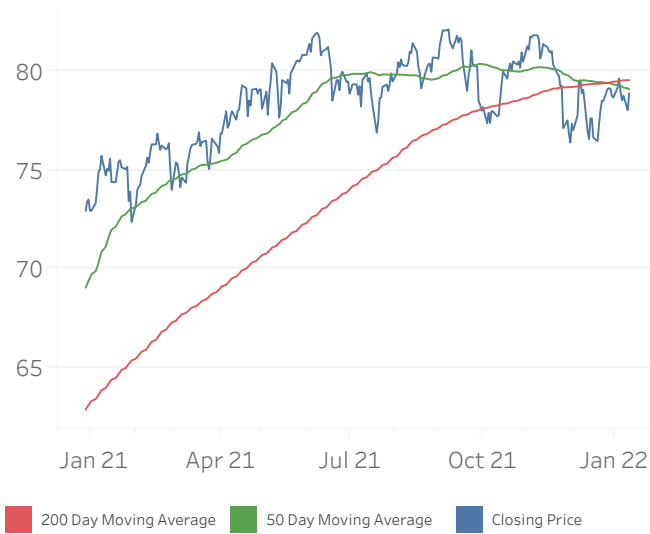
## Thematic Monthly Flows



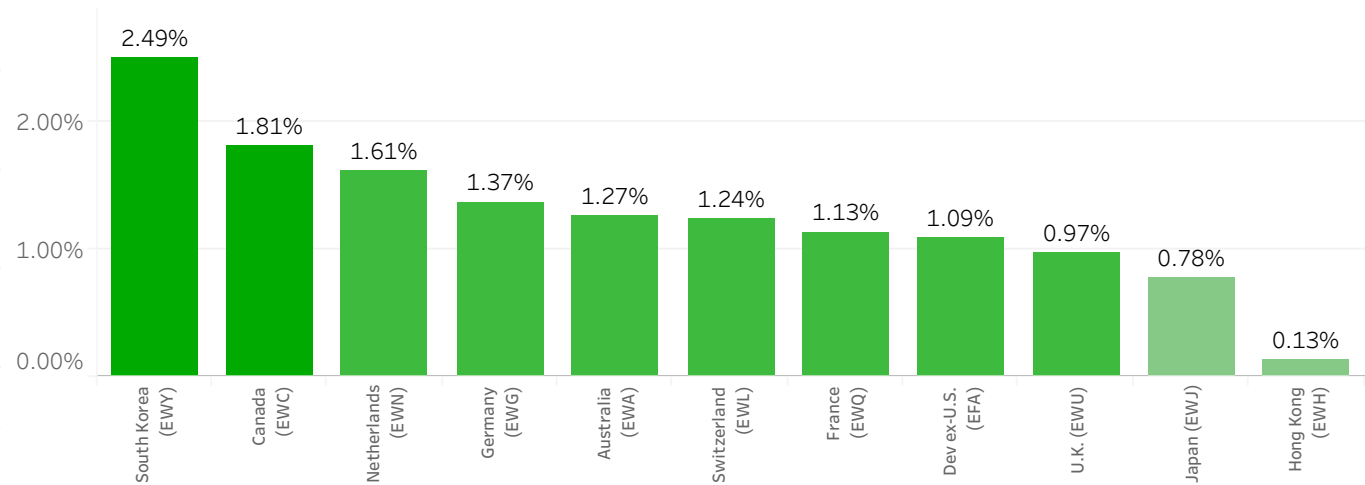
\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



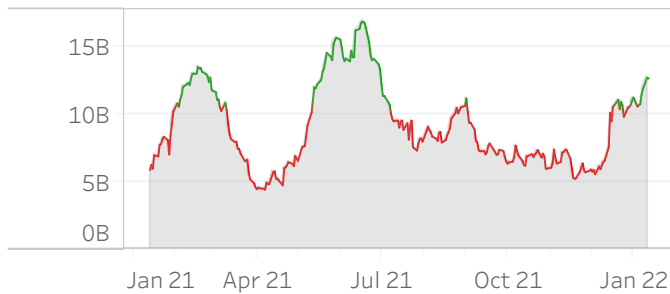
Developed ex-U.S. (EFA)



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



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



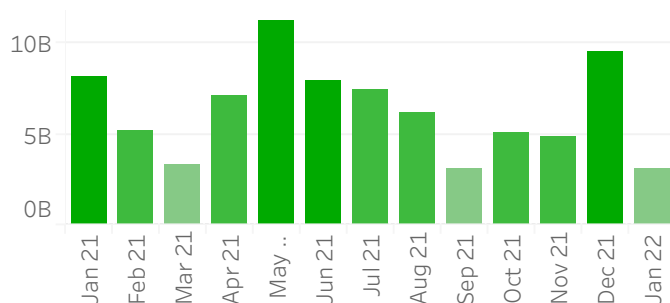
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
GREK	Global X MSCI Greece ETF	3.45%
AIA	iShares Asia 50 ETF	2.86%
EWY	iShares MSCI South Korea ETF	2.49%
FLKR	Franklin FTSE South Korea ETF	2.38%
EIS	iShares MSCI Israel ETF	2.19%
ISRA	VanEck Israel ETF	2.17%
EWD	iShares MSCI Sweden ETF	2.01%
AAXJ	iShares MSCI All Country Asia ex Japan ETF	2.00%
EWS	iShares MSCI Singapore ETF	1.93%
NORW	Global X MSCI Norway ETF	1.81%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
HDEF	Xtrackers MSCI EAFE High Dividend Yield Equity ETF	77.49
FDD	First Trust Stoxx European Select Dividend Index Fund	76.16
IDOG	ALPS International Sector Dividend Dogs ETF	75.14
DTH	WisdomTree International High Dividend Fund	75.05
IDV	iShares International Select Dividend ETF	74.94
LVHI	Legg Mason International Low Volatility High Dividend ETF	72.89
DFIV	Dimensional International Value ETF	72.88
ICOW	Pacer Developed Markets International Cash Cows 100 ETF	72.52
FIDI	Fidelity International High Dividend ETF	72.35
IVLU	iShares MSCI Intl Value Factor ETF	72.23

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
EWK	iShares MSCI Hong Kong ETF	0.13%
FKU	First Trust United Kingdom AlphaDEX Fund	0.29%
EFAD	ProShares MSCI EAFE Dividend Growers ETF	0.38%
ENZL	iShares MSCI New Zealand ETF	0.43%
LVHI	Legg Mason International Low Volatility High Dividend ETF	0.46%
WPS	iShares International Developed Property ETF	0.48%
EUSC	WisdomTree Europe Hedged SmallCap Equity Fund	0.57%
EWUS	iShares MSCI United Kingdom Small Cap ETF	0.58%
FSZ	First Trust Switzerland AlphaDEX Fund	0.65%
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	0.69%

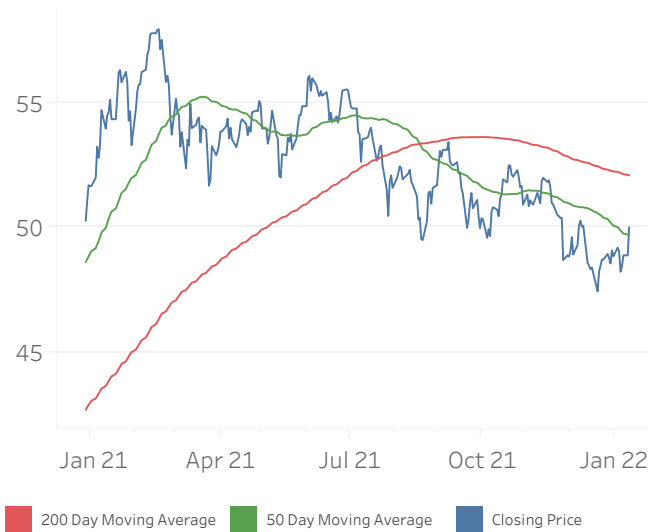
Developed ex-U.S. Most Oversold

Ticker	Fund	Value
EFAD	ProShares MSCI EAFE Dividend Growers ETF	30.34
IMOM	Alpha Architect International Quantitative Momentum	31.32
PIZ	Invesco DWA Developed Markets Momentum ETF	33.26
EFG	iShares MSCI EAFE Growth ETF	37.41
EDEN	iShares MSCI Denmark ETF	38.75
TTAI	FCF International Quality ETF	40.44
FSZ	First Trust Switzerland AlphaDEX Fund	40.77
SCJ	iShares MSCI Japan Small-Cap ETF	41.01
IMFL	Invesco International Developed Dynamic Multifactor	41.57
RBIN	Nationwide Risk-Based International Equity ETF	41.98

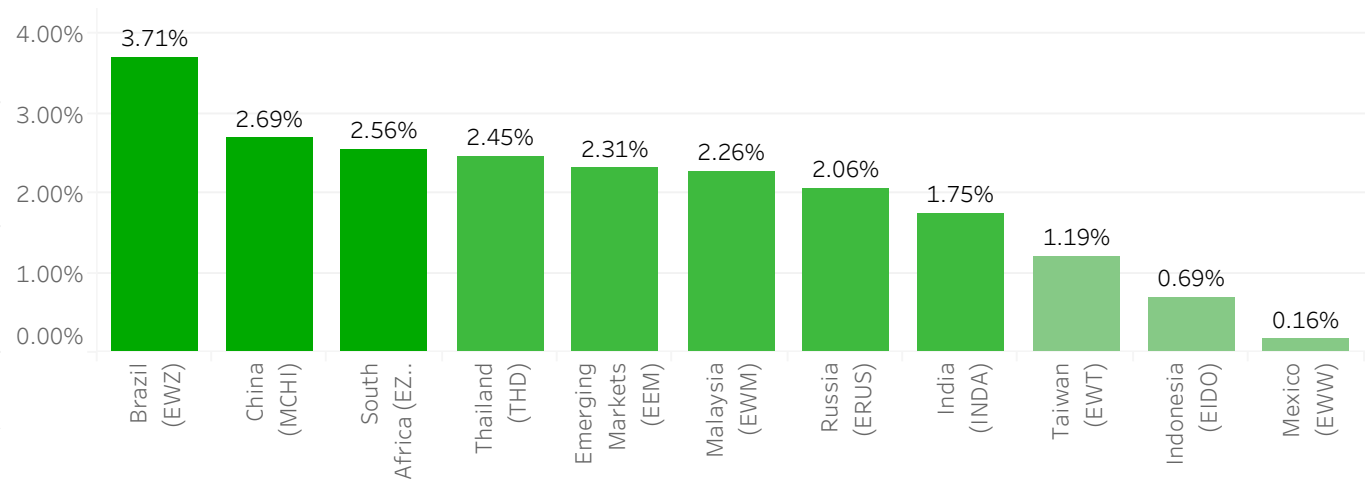
\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



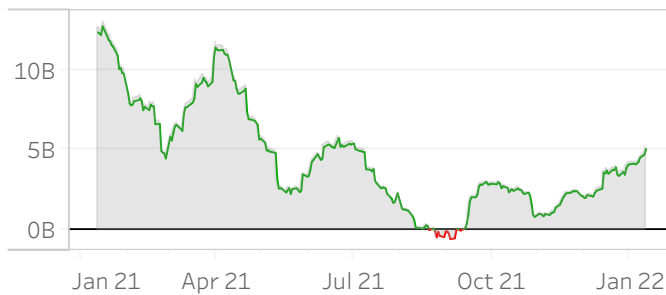
Emerging (EEM)



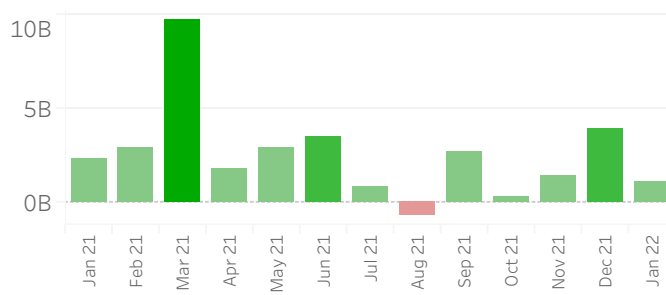
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
PGJ	Invesco Golden Dragon China ETF	4.56%
EWZ	iShares MSCI Brazil ETF	3.71%
FLBR	Franklin FTSE Brazil ETF	3.57%
EWZS	iShares MSCI Brazil Small-Cap ETF	3.56%
ECH	iShares MSCI Chile ETF	3.26%
FXI	iShares China Large-Cap ETF	3.19%
ADRE	Invesco BLDERS Emerging Markets 50 ADR Index Fund	3.13%
EPOL	iShares MSCI Poland ETF	3.12%
ILF	iShares Latin America 40 ETF	2.96%
FNI	First Trust Chindia ETF	2.94%

Emerging Most Overbought

Ticker	Fund	Price
EPU	iShares MSCI Peru ETF	79.15
KSA	iShares MSCI Saudi Arabia ETF	75.04
EPI	WisdomTree India Earnings Fund	72.81
EPOL	iShares MSCI Poland ETF	71.60
SMIN	iShares MSCI India Small Cap ETF	69.99
GLIN	VanEck India Growth Leaders ETF	68.15
NFTY	First Trust India NIFTY 50 Equal Weight ETF	68.14
DEM	WisdomTree Emerging Markets High Dividend Fund	67.87
EDIV	SPDR S&P Emerging Markets Dividend ETF	67.80
EZA	iShares MSCI South Africa ETF	66.74

Emerging 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
CNYA	iShares MSCI China A ETF	-0.38%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	-0.29%
KBA	KraneShares Bosera MSCI China A 50 Connect Index ETF	-0.26%
RAYC	Rayliant Quantamental China Equity ETF	-0.16%
IDX	VanEck Indonesia Index ETF	-0.10%
EWW	iShares MSCI Mexico ETF	0.16%
PIE	Invesco DWA Emerging Markets Momentum ETF	0.32%
EYLD	Cambria Emerging Shareholder Yield ETF	0.33%
QAT	iShares MSCI Qatar ETF	0.34%
EWX	SPDR S&P Emerging Markets Small Cap ETF	0.43%

Emerging Most Oversold

Ticker	Fund	Price
KBA	KraneShares Bosera MSCI China A 50 Connect Index ..	22.02
MFEM	PIMCO RAFI Dynamic Multi-Factor Emerging Market..	33.64
CNYA	iShares MSCI China A ETF	33.87
RAYC	Rayliant Quantamental China Equity ETF	36.82
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	38.28
PIE	Invesco DWA Emerging Markets Momentum ETF	41.03
EWZS	iShares MSCI Brazil Small-Cap ETF	42.00
EPHE	iShares MSCI Philippines ETF	42.91
RSX	VanEck Russia ETF	45.27
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	47.39

\* 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	0.19%	-1.33%	-1.30%
SHY	1-3 Year Treasury Bonds	0.04%	-0.31%	-0.32%
IEF	7-10 Year Treasury Bonds	0.24%	-1.96%	-1.76%
TLT	20+ Year Treasury Bonds	0.67%	-3.45%	-3.12%
TIP	TIPS Bonds	0.70%	-0.41%	-1.49%
FLOT	Floating Rate Bonds	0.00%	0.11%	-0.08%
LQD	Investment Grade Corporate	0.30%	-1.92%	-1.91%
HYG	High Yield Corporate	0.47%	0.01%	-0.77%
BKLN	Senior Loan	0.14%	0.71%	0.27%
PFF	Preferred & Income Securities	0.52%	0.64%	-1.57%
MUB	Municipal Bonds	-0.05%	-0.63%	-0.67%
MBB	MBS	0.22%	-0.92%	-0.99%
EMB	Dollar Denominated EM Bonds	0.21%	-2.12%	-2.40%
LEMB	Local Currency EM Bond	0.38%	0.03%	-0.15%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	1.98%	7.09%	4.18%
DBE	Energy	2.76%	9.09%	6.79%
USO	WTI Crude Oil	3.56%	11.78%	6.99%
BNO	Brent Crude Oil	3.41%	10.97%	7.36%
UNG	Natural Gas	2.40%	10.70%	12.65%
UGA	Gasoline	3.55%	10.30%	6.15%
DBP	Precious Metals	1.23%	2.26%	-0.85%
GLD	Gold	1.21%	2.23%	-0.39%
SLV	Silver	1.40%	2.68%	-2.14%
PPLT	Platinum	3.32%	3.59%	1.11%
PALL	Palladium	0.25%	8.94%	1.09%
DBB	Base Metals	1.97%	8.58%	2.29%
CPER	Copper	1.58%	3.13%	-0.66%
LD	Lead	1.41%	1.09%	-0.58%
JJN	Nickel	4.57%	10.64%	5.26%
JJU	Aluminum	0.26%	13.69%	5.66%
JJT	Tin	1.28%	3.72%	4.66%
DBA	Agriculture	0.61%	0.41%	0.25%
CORN	Corn	0.23%	1.27%	1.53%
SOYB	Soybeans	0.17%	6.74%	3.08%
WEAT	Wheat	1.23%	-1.99%	0.14%
CANE	Sugar	0.68%	-6.04%	-3.59%
BAL	Cotton	0.56%	9.18%	2.94%
NIB	Cocoa	2.23%	5.46%	2.44%
JO	Coffee	1.19%	2.36%	5.60%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.43%	-0.54%	-0.08%
UDN	Short Dollar	0.45%	0.40%	0.05%
FXE	Euro	0.33%	0.38%	-0.10%
FXB	British Pound Sterling	0.42%	2.72%	0.85%
FXF	Swiss Franc	0.42%	-0.42%	-1.31%
FXJ	Japanese Yen	0.00%	-1.58%	-0.06%
FXC	Canadian Dollar	0.80%	1.21%	0.50%
FXA	Australian Dollar	0.46%	0.52%	-0.79%

\*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 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)