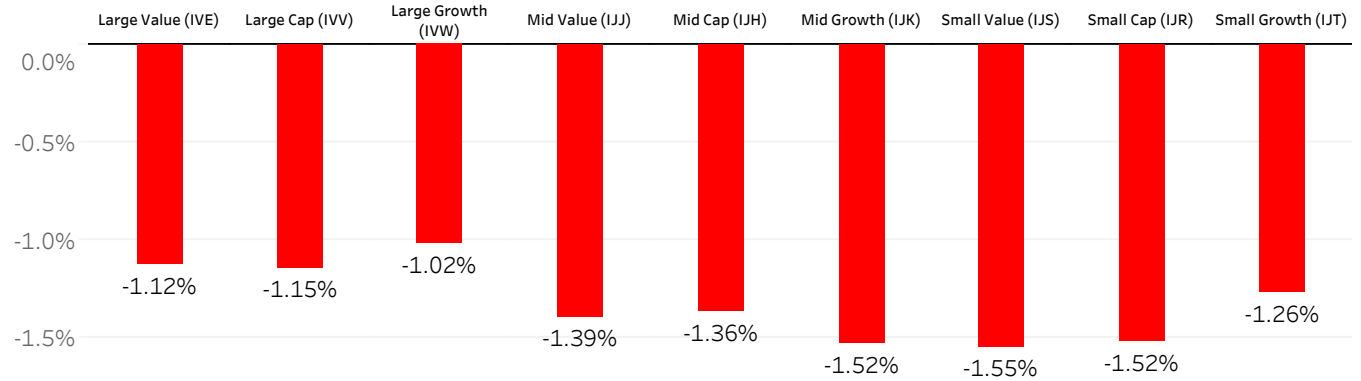


Large Cap Blend (S&P 500) IVV



U.S. Size & Style 1-Day Performance



Mid Cap Blend (S&P 400) IJH



Size & Style 1-Day Performance Leaders

Ticker	Fund	Performance
RPHS	Regents Park Hedged Market Strategy ETF	0.32%
ONOF	Global X Adaptive U.S. Risk Management ETF	0.06%
LSAT	Leadershares Alphafactor Tactical Focused ETF	0.00%
PTLC	Pacer Trendpilot US Large Cap ETF	0.00%
SPC	CrossingBridge Pre-Merger SPAC ETF	0.00%
CFO	VictoryShares US 500 Enhanced Volatility Wtd ETF	-0.27%
TPLE	Timothy Plan Us Large/Mid Cap Core Enhanced ETF	-0.44%
QQH	HCM Defender 100 Index ETF	-0.51%
LGH	HCM Defender 500 Index ETF	-0.54%
CSF	VictoryShares US Discovery Enhanced Volatility Wtd ETF	-0.61%

Size & Style Most Overbought

Ticker	Fund	Value
ONOF	Global X Adaptive U.S. Risk Management ETF	56.69
SPC	CrossingBridge Pre-Merger SPAC ETF	56.10
PTLC	Pacer Trendpilot US Large Cap ETF	54.49
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	51.98
LSAT	Leadershares Alphafactor Tactical Focused ETF	51.24
EQRR	ProShares Equities for Rising Rates ETF	49.61
DWAS	Invesco DWA SmallCap Momentum ETF	47.83
SYLD	Cambria Shareholder Yield ETF	46.68
VFMO	Vanguard U.S. Momentum Factor ETF	46.33
PWC	Invesco Dynamic Market ETF	46.23

Small Cap Blend (S&P 600) IJR



Size & Style 1-Day Performance Laggards

Ticker	Fund	Performance
QVML	Invesco S&P 500 QVM Multi-factor ETF	-4.99%
FFTY	Innovator IBD 50 ETF	-3.70%
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	-3.49%
DWAS	Invesco DWA SmallCap Momentum ETF	-2.92%
AIEQ	AI Powered Equity ETF	-2.68%
QVAL	Alpha Architect U.S. Quantitative Value ETF	-2.60%
VFMO	Vanguard U.S. Momentum Factor ETF	-2.26%
RZV	Invesco S&P Smallcap 600 Pure Value ETF	-2.26%
RWJ	Invesco S&P SmallCap 600 Revenue ETF	-2.22%
XMMO	Invesco S&P MidCap Momentum ETF	-2.12%

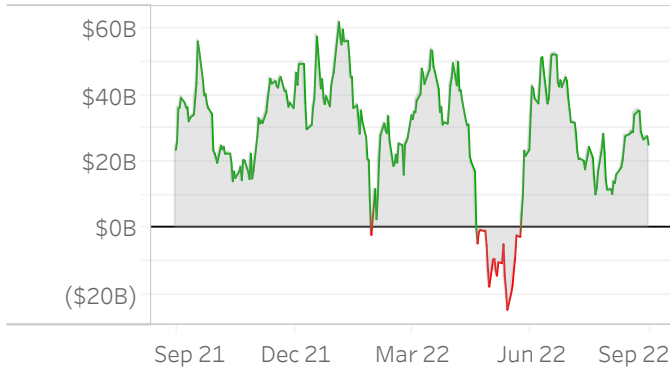
Size & Style Most Oversold

Ticker	Fund	Value
PTMC	Pacer Trendpilot US Mid Cap ETF	22.91
LGH	HCM Defender 500 Index ETF	33.40
UTRN	Vesper U.S. Large Cap Short-Term Reversal Strategy..	33.73
DJD	Invesco Dow Jones Industrial Average Dividend ETF	33.73
OUSA	ALPS O'Shares U.S. Quality Dividend ETF	33.89
QQH	HCM Defender 100 Index ETF	33.96
JEPQ	J.P. Morgan Nasdaq Equity Premium Income ETF	34.39
QVML	Invesco S&P 500 QVM Multi-factor ETF	35.38
DURA	VanEck Morningstar Durable Dividend ETF	35.49
RFDA	RiverFront Dynamic US Dividend Advantage ETF	36.25

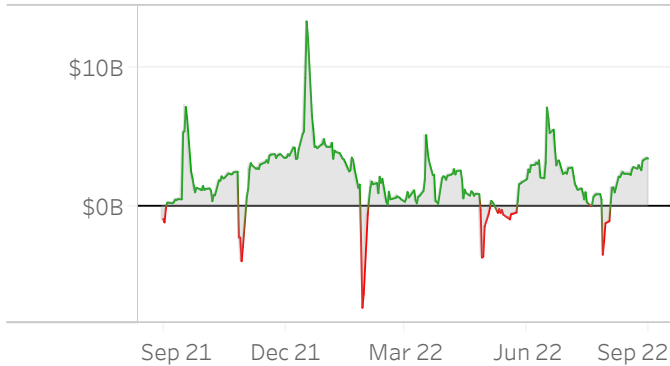
■ Closing Price
 ■ 50 Day Moving Average
 ■ 200 Day Moving Average

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

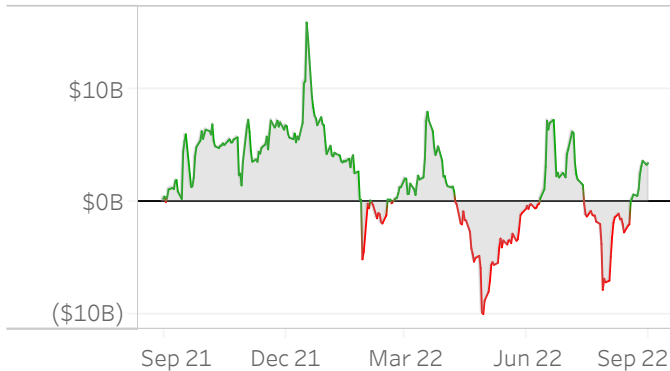
Large-Cap 30-Day Rolling Flows



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	\$1,229B	(\$6.62B)	\$25.44B	\$29.78B	\$114.54B
Large Cap, Beta Growth, Beta: Growth	10	\$231B	(\$0.51B)	\$7.91B	\$15.28B	\$18.04B
Large Cap, Beta Growth, Beta: Value	11	\$216B	\$0.38B	\$0.98B	\$6.15B	\$25.05B
Mid Cap, Beta, Beta	10	\$178B	\$0.07B	\$2.39B	\$5.96B	\$13.79B
Mid Cap, Beta, Beta: Growth	6	\$33B	(\$0.06B)	\$0.88B	\$1.05B	\$1.30B
Mid Cap, Beta, Beta: Value	6	\$40B	\$0.50B	\$0.74B	\$0.19B	\$1.68B
Small Cap, Beta, Beta	13	\$193B	(\$0.71B)	\$1.20B	(\$3.21B)	\$7.27B
Small Cap, Beta, Beta: Growth	7	\$32B	(\$0.03B)	\$0.41B	\$1.10B	\$1.97B
Small Cap, Beta, Beta: Value	7	\$50B	\$0.45B	(\$0.70B)	(\$3.58B)	(\$1.70B)

U.S. Size & Style Flow Leaders

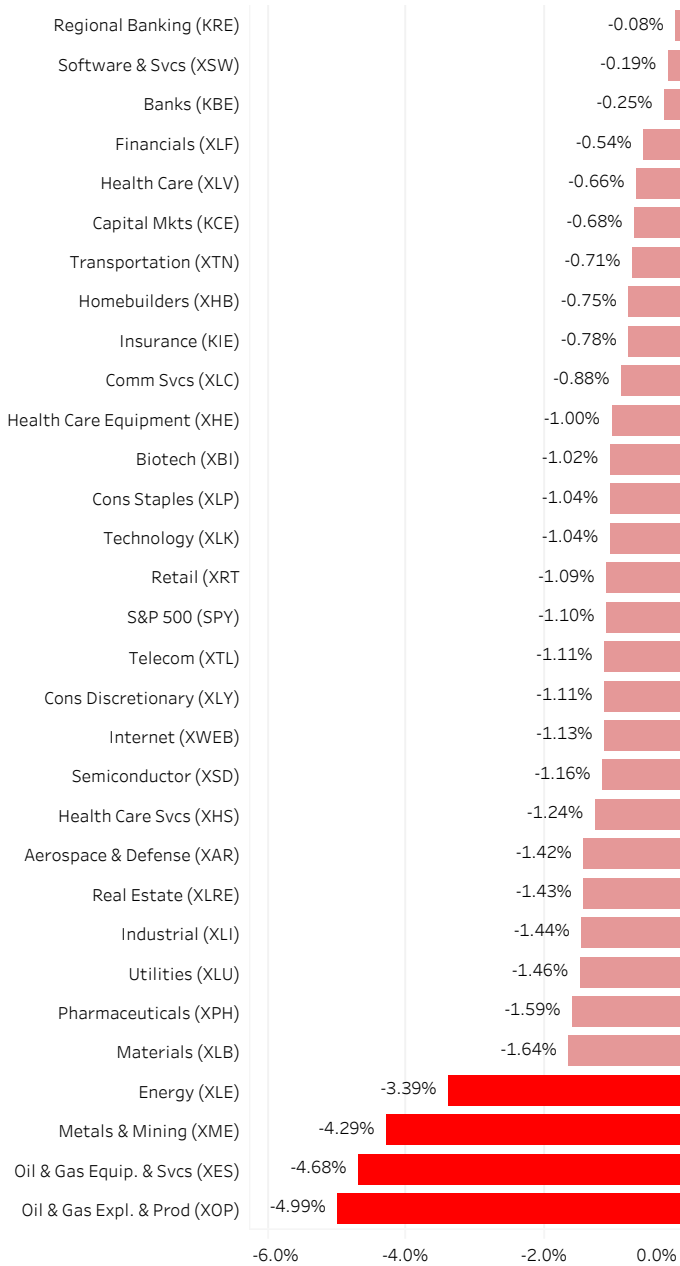
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IJJ	iShares S&P Mid-Cap 400 Value ETF	\$0.43B	\$0.14B	\$0.41B	(\$0.57B)	\$7.78B
IJS	iShares S&P Small-Cap 600 Value ETF	\$0.38B	(\$0.88B)	(\$0.82B)	(\$0.63B)	\$7.52B
VTI	Vanguard Total Stock Market ETF	\$0.36B	\$6.39B	\$11.56B	\$33.51B	\$266.53B
IVE	iShares S&P 500 Value ETF	\$0.34B	(\$0.08B)	\$1.18B	\$2.55B	\$24.38B
SCHD	Schwab US Dividend Equity ETF	\$0.22B	\$3.32B	\$5.25B	\$11.76B	\$37.75B
VYM	Vanguard High Dividend Yield Index ETF	\$0.15B	\$2.87B	\$5.48B	\$8.80B	\$46.95B
NULV	Nuveen ESG Large-Cap Value ETF	\$0.13B	\$0.07B	\$0.41B	\$0.69B	\$1.65B
COWZ	Pacer US Cash Cows 100 ETF	\$0.13B	\$1.70B	\$5.17B	\$6.88B	\$7.44B
VTV	Vanguard Value ETF	\$0.11B	\$2.09B	\$5.41B	\$17.44B	\$99.53B
SDY	SPDR S&P Dividend ETF	\$0.10B	\$0.83B	\$1.80B	\$2.21B	\$22.32B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	(\$4.19B)	(\$3.67B)	(\$3.19B)	\$11.45B	\$365.66B
QQQ	Invesco QQQ Trust	(\$2.22B)	\$2.77B	\$7.37B	\$14.91B	\$167.13B
IWM	iShares Russell 2000 ETF	(\$0.80B)	(\$1.23B)	(\$3.41B)	(\$3.21B)	\$53.82B
QUAL	iShares MSCI USA Quality Factor ETF	(\$0.56B)	(\$1.02B)	(\$0.64B)	(\$2.17B)	\$19.21B
IVV	iShares Core S&P 500 ETF	(\$0.29B)	\$7.57B	\$7.43B	\$31.11B	\$300.96B
SPYG	SPDR Portfolio S&P 500 Growth ETF	(\$0.27B)	\$2.66B	\$3.36B	\$3.54B	\$15.15B
SPLV	Invesco S&P 500 Low Volatility ETF	(\$0.18B)	\$0.99B	\$2.20B	\$3.17B	\$11.27B
IWD	iShares Russell 1000 Value ETF	(\$0.15B)	(\$0.85B)	(\$0.89B)	\$0.75B	\$52.50B
IWF	iShares Russell 1000 Growth ETF	(\$0.12B)	\$0.25B	\$1.41B	(\$0.03B)	\$62.50B
DIA	SPDR Dow Jones Industrial Average ETF Trust	(\$0.09B)	(\$0.25B)	\$0.31B	\$0.17B	\$27.88B

* 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)
XLU	Utilities Select Sector SPDR Fund	-3.74%	17.73%	3.19%	5.26%	49.03
XLP	Consumer Staples Select Sector SPDR Fund	-8.70%	6.92%	-0.57%	-1.73%	39.43
XLE	Energy Select Sector SPDR Fund	-11.96%	71.97%	8.85%	12.65%	58.14
XLV	Health Care Select Sector SPDR Fund	-12.09%	4.73%	-3.54%	-4.88%	33.65
XLI	Industrial Select Sector SPDR Fund	-12.51%	9.61%	1.42%	-4.09%	42.20
XLB	Materials Select Sector SPDR Fund	-15.74%	7.64%	0.23%	-8.24%	42.78
SPY	SPDR S&P 500 ETF Trust	-16.64%	8.84%	-0.46%	-6.85%	39.11
XLRE	Real Estate Select Sector SPDR Fund	-18.93%	8.11%	-1.61%	-7.99%	37.76
XLF	Financial Select Sector SPDR Fund	-19.60%	8.33%	0.65%	-8.38%	42.95
XLK	Technology Select Sector SPDR Fund	-22.68%	10.61%	-1.34%	-8.65%	37.84
XLY	Consumer Discretionary Select Sector SPDR Fund	-25.71%	16.66%	1.51%	-8.67%	42.49
XLC	Communication Services Select Sector SPDR Fund	-35.78%	2.20%	-3.79%	-16.63%	37.56

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
KRE	SPDR S&P Regional Banking ETF	-0.08%
QABA	First Trust NASDAQ ABA Community Bank Index F..	-0.17%
XSW	SPDR S&P Software & Services ETF	-0.19%
IGV	iShares Expanded Tech-Software Sector ETF	-0.21%
KBWB	Invesco KBW Bank ETF	-0.24%
FTXO	First Trust Nasdaq Bank ETF	-0.25%
KBE	SPDR S&P Bank ETF	-0.25%
KBWR	Invesco KBW Regional Banking ETF	-0.26%
IAT	iShares U.S. Regional Banks ETF	-0.32%
IYG	iShares US Financial Services ETF	-0.36%

Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	59.83
PXE	Invesco Dynamic Energy Exploration & Production ETF	58.27
IYE	iShares U.S. Energy ETF	58.24
RYE	Invesco S&P 500 Equal Weight Energy ETF	58.15
XLE	Energy Select Sector SPDR Fund	58.14
VDE	Vanguard Energy ETF	57.97
FENY	Fidelity MSCI Energy Index ETF	57.90
FXN	First Trust Energy AlphaDEX Fund	57.36
FCG	First Trust Natural Gas ETF	57.08
FTXN	First Trust Nasdaq Oil & Gas ETF	56.83

Sector & Industry 1 Day Performance Laggards

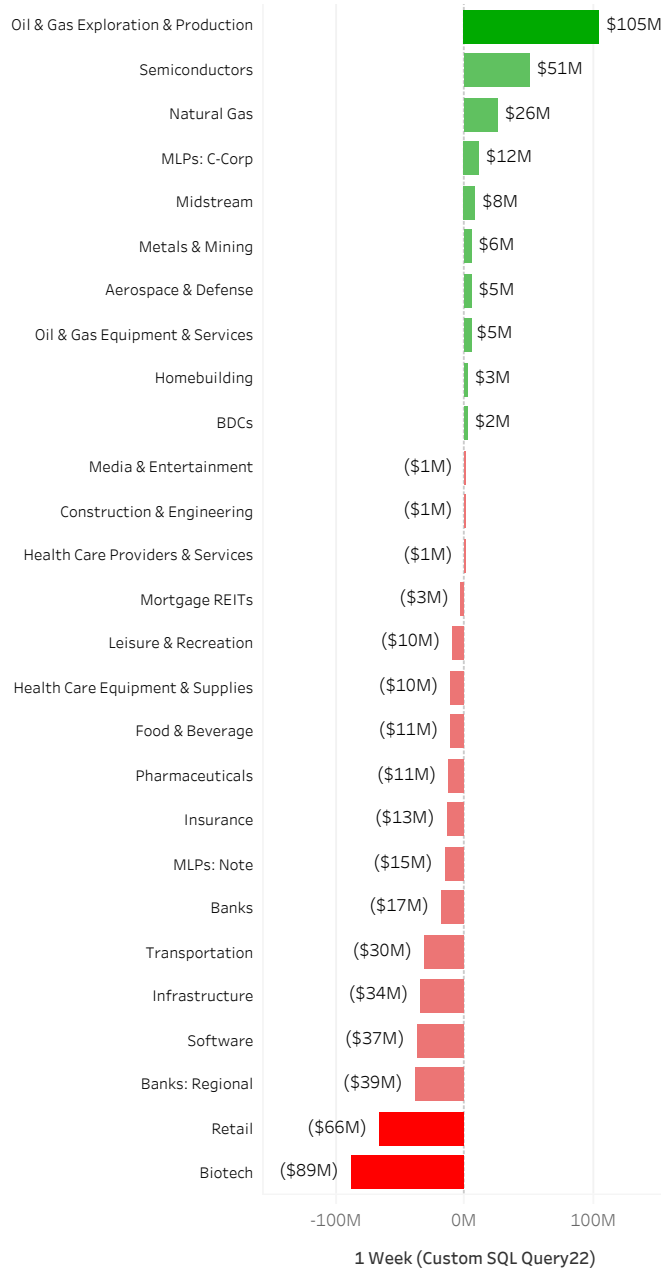
Ticker	Fund	1 Day Performance
PSCE	Invesco S&P SmallCap Energy ETF	-6.39%
PXI	Invesco DWA Energy Momentum ETF	-5.80%
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	-4.99%
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-4.68%
PXE	Invesco Dynamic Energy Exploration & Production ETF	-4.66%
IEZ	iShares U.S. Oil Equipment & Services ETF	-4.66%
FCG	First Trust Natural Gas ETF	-4.64%
FTXN	First Trust Nasdaq Oil & Gas ETF	-4.64%
XME	SPDR S&P Metals & Mining ETF	-4.29%
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	-3.84%

Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
IHE	iShares U.S. Pharmaceuticals ETF	26.59
PJP	Invesco Dynamic Pharmaceuticals ETF	30.44
NETL	NETLease Corporate Real Estate ETF	32.69
FXH	First Trust Health Care AlphaDEX Fund	32.92
IYH	iShares U.S. Healthcare ETF	33.01
XLV	Health Care Select Sector SPDR Fund	33.65
RYH	Invesco S&P 500 Equal Weight Health Care ETF	33.96
VHT	Vanguard Health Care ETF	34.10
KBWY	Invesco KBW Premium Yield Equity REIT ETF	34.27
SZNE	Pacer CFRA-Stovall Equal Weight Seasonal Rotation ETF	34.40

* 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	8	\$13B	\$60M	\$150M	\$29M	(\$1,278M)
Consumer Discretionary	13	\$24B	(\$340M)	(\$1,091M)	(\$3,678M)	(\$4,915M)
Consumer Staples	11	\$28B	(\$15M)	\$611M	\$3,400M	\$5,879M
Energy	34	\$80B	\$163M	(\$3,283M)	(\$3,996M)	\$2,923M
Financials	27	\$62B	\$1,045M	\$278M	(\$13,774M)	(\$7,199M)
Health Care	24	\$90B	(\$280M)	\$2,046M	\$7,687M	\$11,057M
Industrial	14	\$29B	\$6M	(\$1,075M)	(\$2,128M)	(\$5,222M)
Materials	10	\$14B	(\$130M)	(\$2,230M)	(\$679M)	(\$1,581M)
Multi-Sector	19	\$14B	(\$33M)	(\$1,727M)	(\$3,776M)	(\$4,523M)
Real Estate	25	\$67B	(\$14M)	(\$2,534M)	(\$4,974M)	\$1,643M
Technology	24	\$123B	\$942M	\$1,383M	\$2,741M	\$4,217M
Utilities	10	\$28B	\$56M	\$1,511M	\$4,708M	\$4,853M

U.S. Sector & Industry Flow Leaders

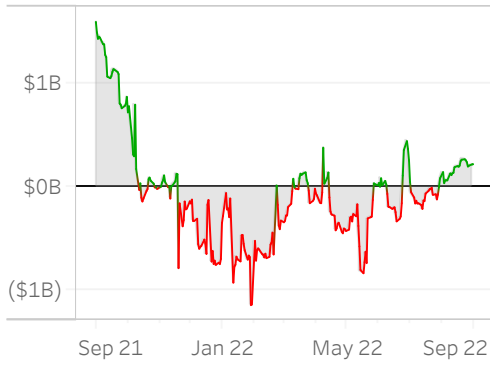
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	\$1,131M	\$1,418M	(\$6,790M)	(\$3,568M)	\$33,760M
VGT	Vanguard Information Technology ETF	\$1,131M	\$1,961M	\$2,967M	\$3,133M	\$45,645M
FTEC	Fidelity MSCI Information Technology Index ETF	\$110M	\$62M	(\$13M)	\$299M	\$5,635M
VDE	Vanguard Energy ETF	\$91M	(\$300M)	(\$838M)	(\$147M)	\$8,323M
XLC	Communication Services Select Sector SPDR Fu..	\$72M	\$341M	\$232M	(\$745M)	\$9,682M
PBE	Invesco Dynamic Biotechnology & Genome ETF	\$59M	\$66M	\$61M	\$60M	\$299M
SOXX	iShares Semiconductor ETF	\$49M	(\$316M)	(\$769M)	\$788M	\$7,059M
XLI	Industrial Select Sector SPDR Fund	\$44M	(\$534M)	(\$2,273M)	(\$4,592M)	\$13,179M
PXE	Invesco Dynamic Energy Exploration & Producti..	\$43M	(\$48M)	\$82M	\$164M	\$346M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	\$38M	(\$433M)	(\$440M)	(\$311M)	\$5,191M

U.S. Sector & Industry Flow Laggards

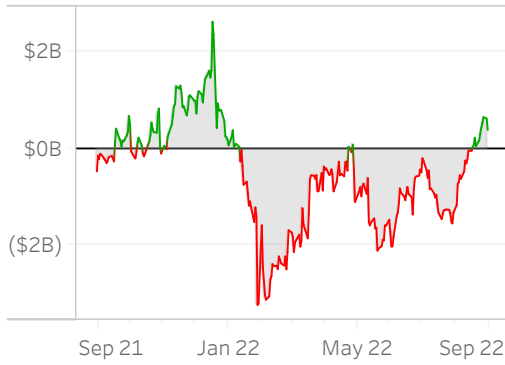
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLK	Technology Select Sector SPDR Fund	(\$282M)	\$561M	\$1,288M	\$1,827M	\$41,765M
XLY	Consumer Discretionary Select Sector SPDR Fu..	(\$247M)	(\$535M)	(\$1,455M)	(\$1,160M)	\$15,858M
XLB	Materials Select Sector SPDR Fund	(\$123M)	(\$1,039M)	(\$947M)	(\$2,001M)	\$5,717M
XLV	Health Care Select Sector SPDR Fund	(\$119M)	\$461M	\$5,713M	\$7,176M	\$38,120M
XLE	Energy Select Sector SPDR Fund	(\$99M)	(\$1,377M)	(\$3,203M)	(\$41M)	\$39,162M
XBI	SPDR S&P BIOTECH ETF	(\$78M)	\$332M	\$919M	\$2,588M	\$7,422M
IBB	iShares Biotechnology ETF	(\$68M)	\$70M	\$38M	(\$78M)	\$7,878M
VHT	Vanguard Health Care ETF	(\$67M)	\$664M	\$333M	\$1,020M	\$16,051M
XRT	SPDR S&P Retail ETF	(\$66M)	(\$351M)	(\$232M)	(\$671M)	\$245M
XLP	Consumer Staples Select Sector SPDR Fund	(\$55M)	(\$74M)	\$912M	\$2,462M	\$16,011M

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

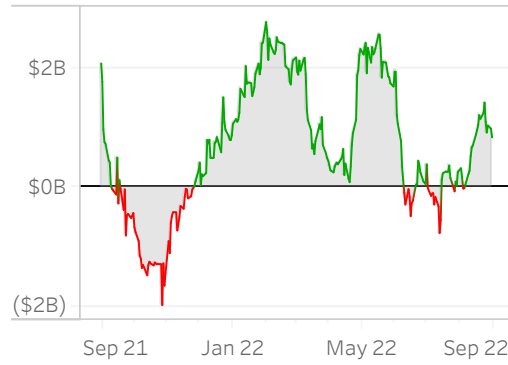
Communication Services



Consumer Discretionary



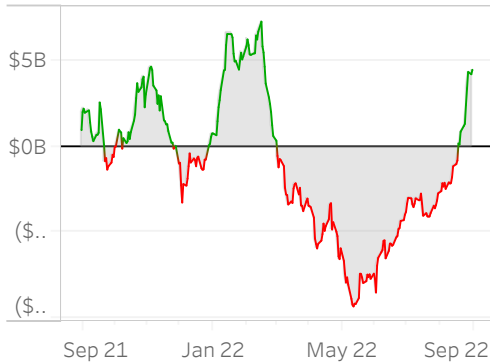
Consumer Staples



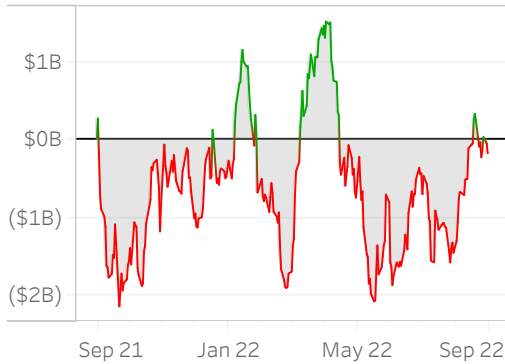
Energy



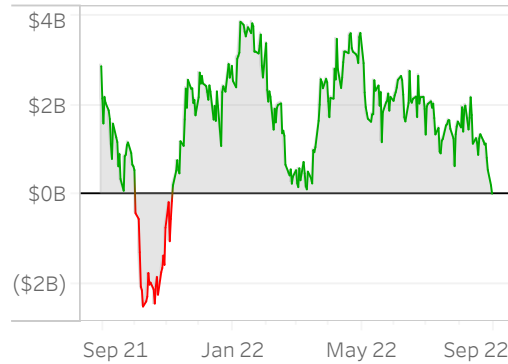
Financials



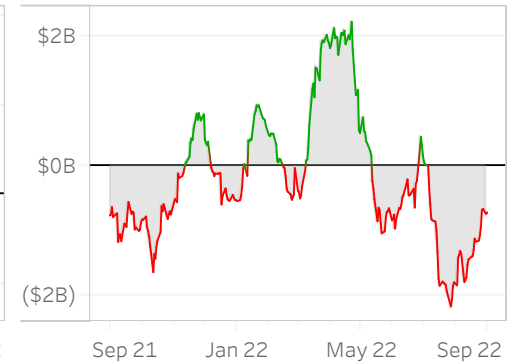
Industrial



Health Care



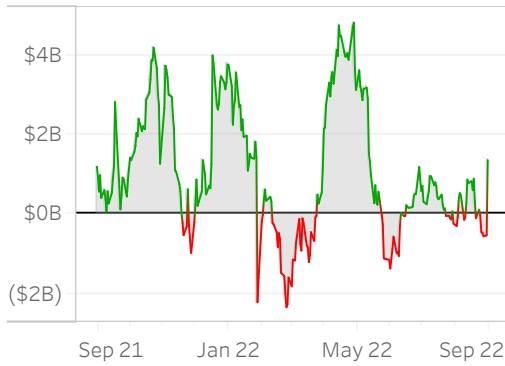
Materials



Real Estate



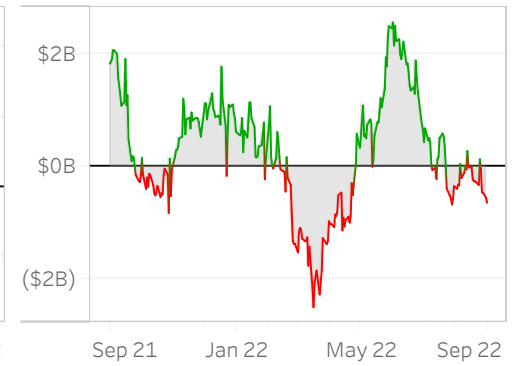
Technology



Utilities

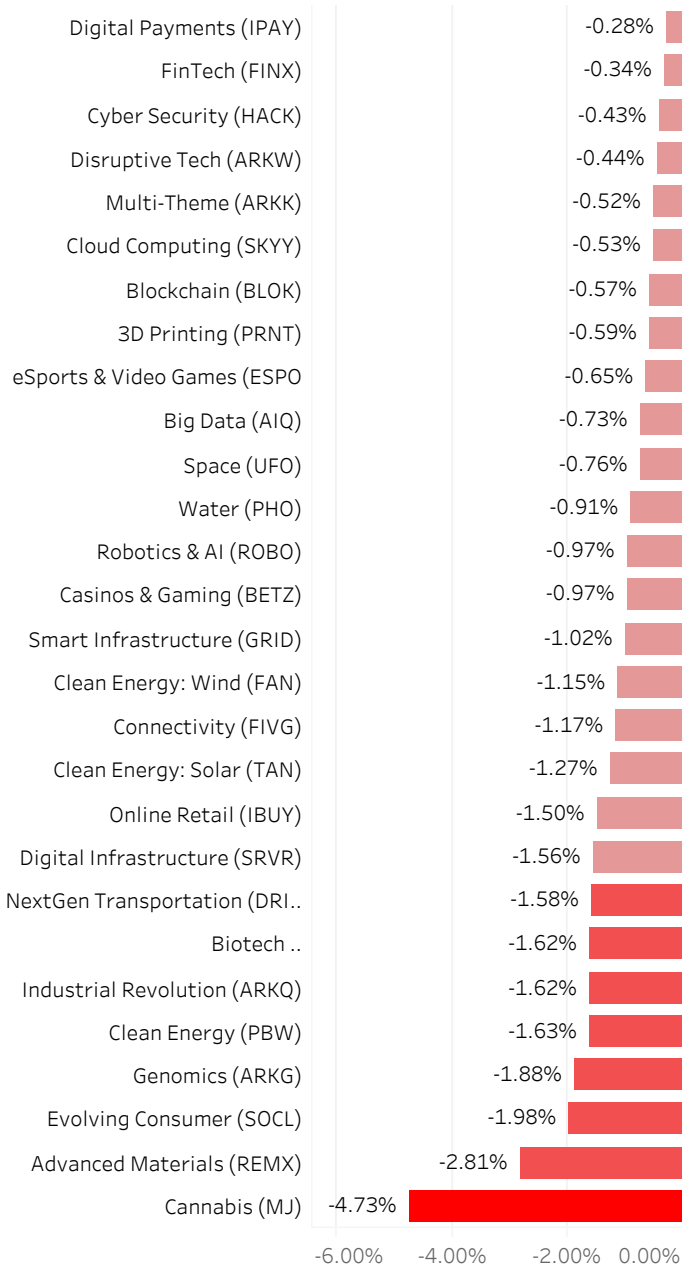


Multi-Sector

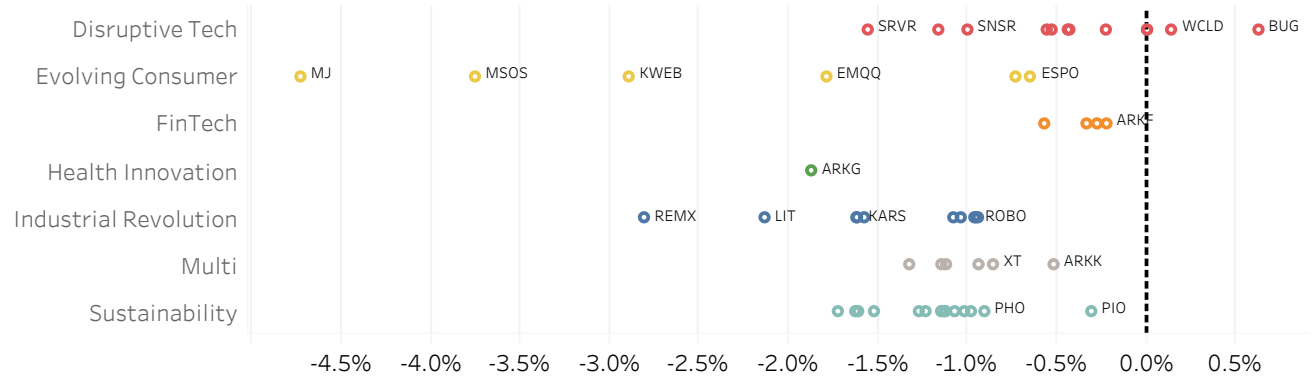


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Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
BUG	Global X Cybersecurity ETF	0.62%
WCLD	WisdomTree Cloud Computing Fund	0.13%
CLOU	Global X Cloud Computing ETF	0.00%
IHAK	iShares Cybersecurity & Tech ETF	0.00%
ARKF	ARK Fintech Innovation ETF	-0.23%
CIBR	First Trust NASDAQ Cybersecurity ETF	-0.23%
IPAY	ETFMG Prime Mobile Payments ETF	-0.28%
PIO	Invesco Global Water ETF	-0.31%
KLDW	Knowledge Leaders Developed World ETF	-0.33%
FINX	Global X FinTech ETF	-0.34%

Thematic Most Overbought

Ticker	Fund	Price
MJUS	ETFMG U.S. Alternative Harvest ETF	60.21
MSOS	AdvisorShares Pure US Cannabis ETF	59.27
CTEC	Global X CleanTech ETF	52.76
ACES	ALPS Clean Energy ETF	52.29
CNRG	SPDR S&P Kensho Clean Power ETF	51.94
QLCN	First Trust Nasdaq Clean Edge Green Energy Index Fund	51.76
HDRO	Defiance Next Gen H2 ETF	50.63
BUG	Global X Cybersecurity ETF	50.61
TAN	Invesco Solar ETF	50.52
ICLN	iShares Global Clean Energy ETF	50.23

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
POTX	Global X Cannabis ETF	-5.49%
MJ	ETFMG Alternative Harvest ETF	-4.73%
MSOS	AdvisorShares Pure US Cannabis ETF	-3.76%
YOLO	AdvisorShares Pure Cannabis ETF	-2.90%
KWEB	KraneShares CSI China Internet ETF	-2.90%
REMX	VanEck Rare Earth/Strategic Metals ETF	-2.81%
BATT	Amplify Lithium & Battery Technology ETF	-2.27%
LIT	Global X Lithium & Battery Tech ETF	-2.14%
RNRG	Global X Funds Global X Renewable Energy Producers ..	-2.06%
SOCL	Global X Social Media ETF	-1.98%

Thematic Most Oversold

Ticker	Fund	Price
KGRN	KraneShares MSCI China Clean Technology Index ETF	28.96
PAWZ	ProShares Pet Care ETF	30.95
GAMR	Wedbush ETFMG Video Game Tech ETF	33.24
KSTR	KraneShares SSE STAR Market 50 Index ETF	33.48
EBLU	Ecofin Global Water ESG Fund	34.56
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR..	34.90
NXTG	First Trust Indxx NextG ETF	34.96
BOTZ	Global X Robotics & Artificial Intelligence ETF	35.60
VPN	Global X Data Center REITs & Digital Infrastructure ETF	35.66
KLDW	Knowledge Leaders Developed World ETF	35.75

* 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
ARKK	ARK Innovation ETF	\$176M
PBW	Invesco WilderHill Clean Energy ETF	\$30M
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	\$23M
MJUS	ETFMG U.S. Alternative Harvest ETF	\$20M
MSOS	AdvisorShares Pure US Cannabis ETF	\$19M
ICLN	iShares Global Clean Energy ETF	\$18M
ERTH	Invesco MSCI Sustainable Future ETF	\$17M
KOMP	SPDR S&P Kensho New Economies Composite ETF	\$13M
SAMT	Strategas Macro Thematic Opportunities ETF	\$12M
KWEB	KraneShares CSI China Internet ETF	\$10M

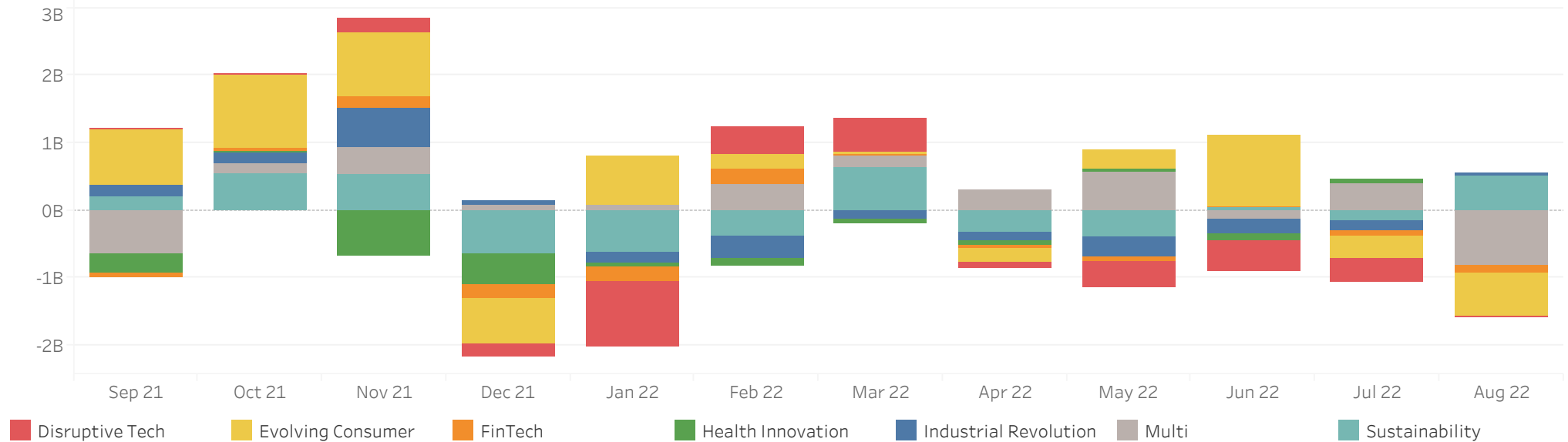
Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
TAN	Invesco Solar ETF	(\$27M)
ARKW	ARK Next Generation Internet ETF	(\$21M)
SOCL	Global X Social Media ETF	(\$15M)
DRIV	Global X Autonomous & Electric Vehicles ETF	(\$14M)
NXTG	First Trust Indxx NextG ETF	(\$10M)
ARKF	ARK Fintech Innovation ETF	(\$9M)
ONLN	ProShares Online Retail ETF	(\$9M)
FIVG	Defiance Next Gen Connectivity ETF	(\$9M)
SKYY	First Trust Cloud Computing ETF	(\$7M)
REMX	VanEck Rare Earth/Strategic Metals ETF	(\$5M)

Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	35	\$18B	(\$21M)	(\$837M)	(\$807M)	(\$1,304M)
Evolving Consumer	47	\$11B	\$24M	\$89M	\$193M	\$3,333M
FinTech	24	\$3B	(\$9M)	(\$174M)	(\$253M)	(\$330M)
Health Innovation	19	\$4B	\$20M	(\$58M)	(\$151M)	(\$1,696M)
Industrial Revolution	32	\$12B	\$4M	(\$330M)	(\$905M)	(\$390M)
Multi	41	\$15B	\$14M	(\$562M)	\$481M	\$937M
Sustainability	42	\$20B	\$68M	\$411M	\$332M	(\$59M)
Grand Total	240	\$84B	\$101M	(\$1,462M)	(\$1,111M)	\$491M

Thematic Monthly Flows

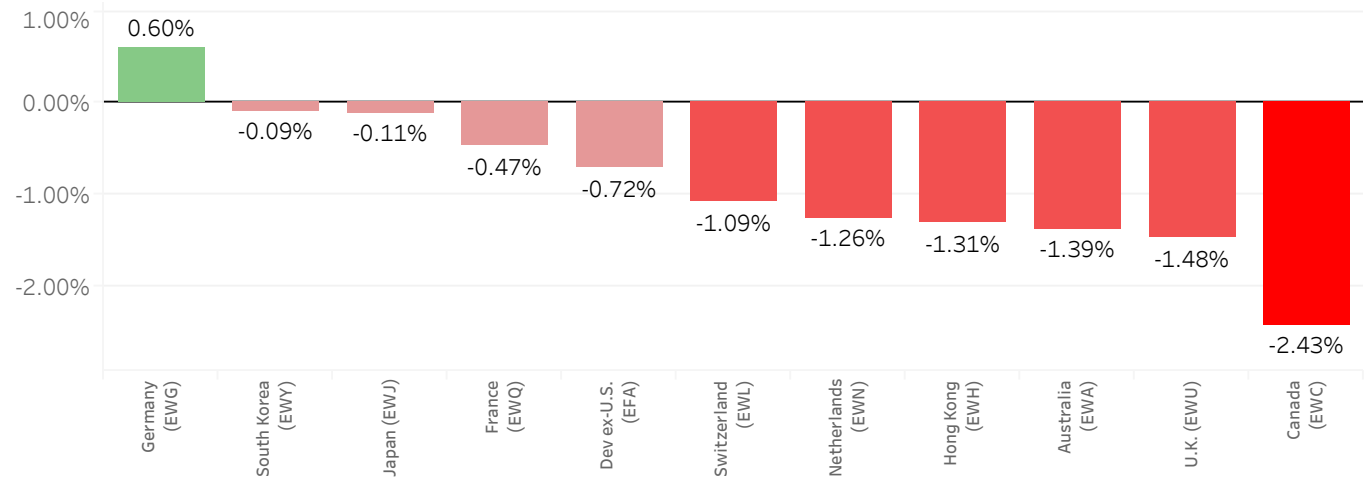


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

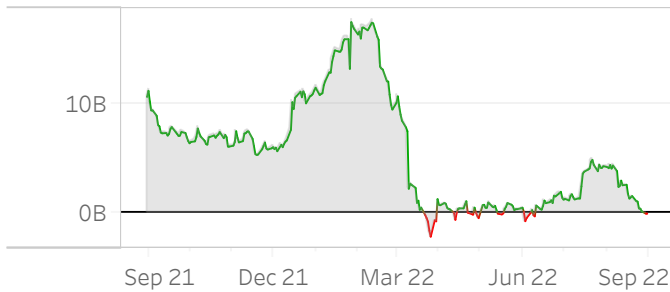
Developed ex-U.S. (EFA)



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



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



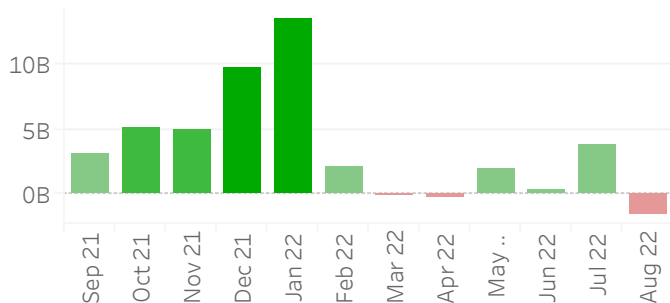
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
ENZL	iShares MSCI New Zealand ETF	0.64%
EWG	iShares MSCI Germany ETF	0.60%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	0.00%
SCJ	iShares MSCI Japan Small-Cap ETF	-0.05%
FKU	First Trust United Kingdom AlphaDEX Fund	-0.07%
EWY	iShares MSCI South Korea ETF	-0.09%
BBJP	JPMorgan BetaBuilders Japan ETF	-0.09%
EWD	iShares MSCI Sweden ETF	-0.10%
PTIN	Pacer Trendpilot International ETF	-0.10%
DFJ	WisdomTree Japan SmallCap Dividend Fund	-0.10%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
PTIN	Pacer Trendpilot International ETF	53.62
DXJ	WisdomTree Japan Hedged Equity Fund	52.69
EIS	iShares MSCI Israel ETF	48.53
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	48.23
HEWJ	iShares Currency Hedged MSCI Japan ETF	47.53
IMOM	Alpha Architect International Quantitative Momentum ETF	47.35
ISRA	VanEck Israel ETF	46.06
IVAL	Alpha Architect International Quantitative Value ETF	45.02
NORW	Global X MSCI Norway ETF	44.85
FYLD	Cambria Foreign Shareholder Yield ETF	43.93

Developed ex-U.S. Monthly Flows



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

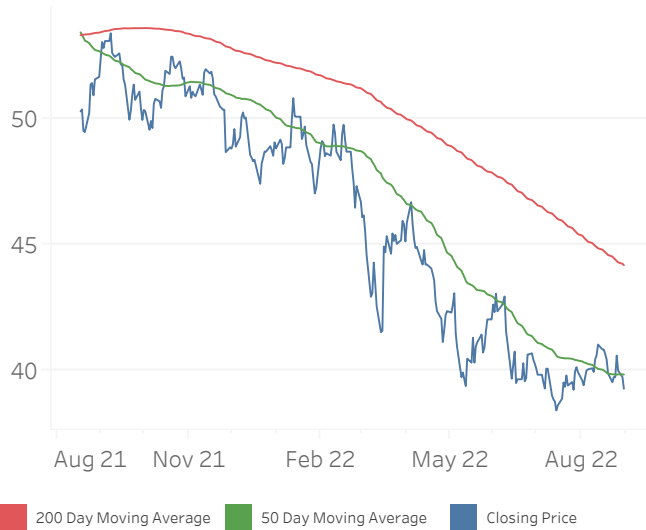
Ticker	Fund	1-Day Performance
GREK	Global X MSCI Greece ETF	-2.62%
FLCA	Franklin FTSE Canada ETF	-2.52%
EWC	iShares MSCI Canada ETF	-2.43%
BBCA	JPMorgan BetaBuilders Canada ETF	-2.28%
NORW	Global X MSCI Norway ETF	-2.07%
IMOM	Alpha Architect International Quantitative Momentum ETF	-1.91%
AIA	iShares Asia 50 ETF	-1.83%
CIL	VictoryShares International Volatility Wtd ETF	-1.70%
ISDX	Invesco RAFI Strategic Developed ex-US ETF	-1.61%
EWU	iShares MSCI United Kingdom ETF	-1.48%

Developed ex-U.S. Most Oversold

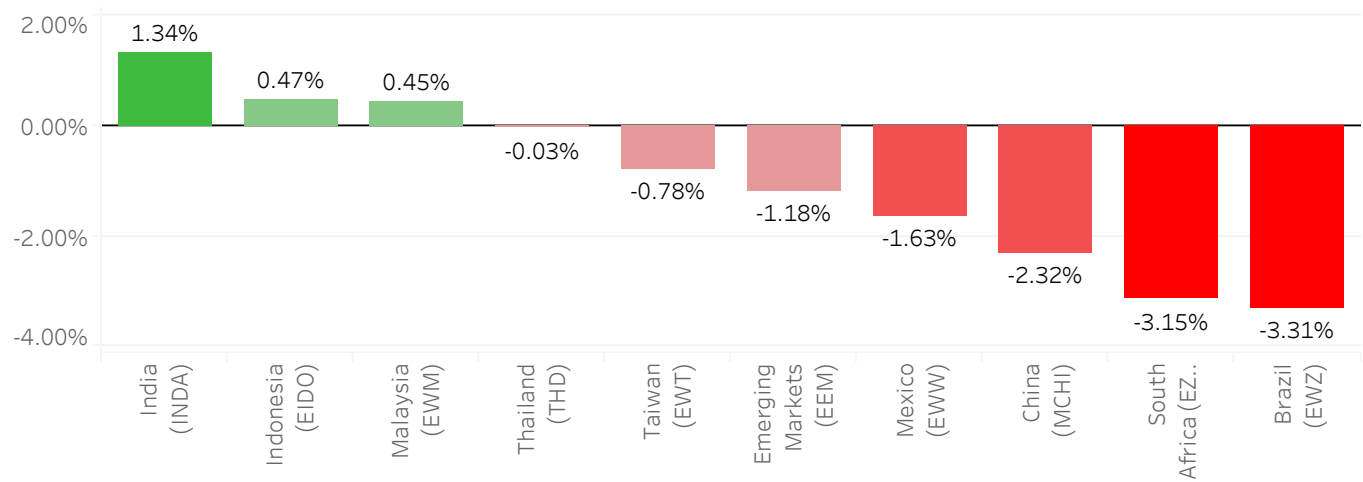
Ticker	Fund	Value
QLVD	FlexShares Developed Markets ex-US Quality Low V..	31.99
IMFL	Invesco International Developed Dynamic Multifact..	32.74
EFAV	iShares MSCI EAFE Min Vol Factor ETF	32.75
EUDG	WisdomTree Europe Quality Dividend Growth Fund	32.87
RODM	Hartford Multifactor Developed Markets (ex-US) ETF	33.22
EFAD	ProShares MSCI EAFE Dividend Growers ETF	33.59
IDHQ	Invesco S&P International Developed High Quality E..	33.61
DFE	WisdomTree Europe SmallCap Dividend Fund	33.71
IDOG	ALPS International Sector Dividend Dogs ETF	33.79
EWU	iShares MSCI United Kingdom ETF	33.87

* 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



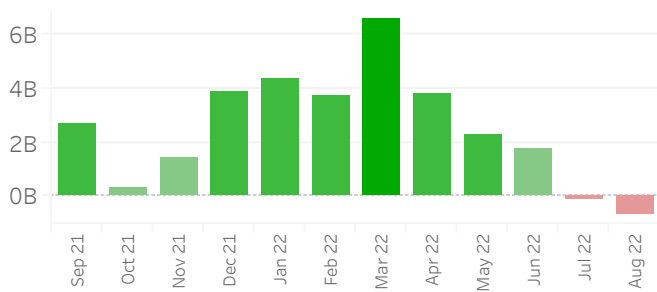
Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
PIN	Invesco India ETF	1.56%
INDY	iShares India 50 ETF	1.48%
FLIN	Franklin FTSE India ETF	1.37%
INDA	iShares MSCI India ETF	1.34%
EPI	WisdomTree India Earnings Fund	1.05%
SMIN	iShares MSCI India Small Cap ETF	0.70%
ECH	iShares MSCI Chile ETF	0.57%
EIDO	iShares MSCI Indonesia ETF	0.47%
EWM	iShares MSCI Malaysia ETF	0.45%
THD	iShares MSCI Thailand ETF	-0.03%

Emerging Most Overbought

Ticker	Fund	Value
TUR	iShares MSCI Turkey ETF	67.74
ECH	iShares MSCI Chile ETF	64.49
SMIN	iShares MSCI India Small Cap ETF	59.24
EWZS	iShares MSCI Brazil Small-Cap ETF	56.90
FLBR	Franklin FTSE Brazil ETF	56.56
EPI	WisdomTree India Earnings Fund	56.30
FLIN	Franklin FTSE India ETF	55.74
INDA	iShares MSCI India ETF	55.54
EIDO	iShares MSCI Indonesia ETF	55.17
EWZ	iShares MSCI Brazil ETF	55.04

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
EWZ	iShares MSCI Brazil ETF	-3.31%
FLBR	Franklin FTSE Brazil ETF	-3.16%
EZA	iShares MSCI South Africa ETF	-3.15%
FXI	iShares China Large-Cap ETF	-2.70%
ILF	iShares Latin America 40 ETF	-2.66%
EWZS	iShares MSCI Brazil Small-Cap ETF	-2.63%
FLLA	Franklin FTSE Latin America ETF	-2.56%
QAT	iShares MSCI Qatar ETF	-2.42%
MCHI	iShares MSCI China ETF	-2.32%
PGJ	Invesco Golden Dragon China ETF	-2.26%

Emerging Most Oversold

Ticker	Fund	Value
EPOL	iShares MSCI Poland ETF	32.09
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	33.05
CNYA	iShares MSCI China A ETF	34.08
KBA	KraneShares Boser MSCI China A 50 Connect Index ..	34.21
ECNS	iShares MSCI China Small-Cap ETF	35.95
EDIV	SPDR S&P Emerging Markets Dividend ETF	36.49
EEMV	iShares MSCI Emerging Markets Min Vol Factor ETF	37.30
RAYC	Rayliant Quantamental China Equity ETF	37.91
EWW	iShares MSCI Mexico ETF	38.23
EWT	iShares MSCI Taiwan ETF	38.23

* 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	0.13%	-2.52%	-10.20%
SHY	1-3 Year Treasury Bonds	-0.05%	-0.80%	-3.37%
IEF	7-10 Year Treasury Bonds	-0.03%	-3.45%	-11.09%
TLT	20+ Year Treasury Bonds	0.25%	-3.64%	-22.89%
TIP	TIPS Bonds	-0.17%	-1.83%	-6.86%
FLOT	Floating Rate Bonds	0.02%	0.38%	-0.33%
LQD	Investment Grade Corporate	0.13%	-3.42%	-15.34%
HYG	High Yield Corporate	-0.77%	-3.78%	-11.47%
BKLN	Senior Loan	-0.14%	0.47%	-2.72%
PFF	Preferred & Income Securities	-0.48%	-3.46%	-12.97%
MUB	Municipal Bonds	-0.13%	-2.52%	-8.13%
MBB	MBS	0.07%	-3.15%	-8.66%
EMB	Dollar Denominated EM Bonds	-0.03%	-1.92%	-19.00%
LEMB	Local Currency EM Bond	-0.06%	-0.35%	-13.36%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-1.98%	1.16%	27.67%
DBE	Energy	-3.18%	1.33%	51.70%
USO	WTI Crude Oil	-4.09%	-3.31%	38.83%
BNO	Brent Crude Oil	-4.35%	-4.32%	48.16%
UNG	Natural Gas	-1.69%	9.71%	151.40%
UGA	Gasoline	-6.72%	-11.01%	35.23%
DBP	Precious Metals	-1.04%	-3.76%	-10.26%
GLD	Gold	-0.83%	-2.19%	-6.11%
SLV	Silver	-1.91%	-9.30%	-21.15%
PPLT	abrdrn Physical Platin..	-2.13%	-5.22%	-12.47%
PALL	abrdrn Physical Palla..	-2.84%	-1.78%	9.70%
DBB	Base Metals	-2.10%	-0.46%	-12.04%
CPER	Copper	-1.38%	-1.52%	-21.46%
LD	Lead	-4.07%	-2.18%	-14.77%
JJN	Nickel	2.22%	-10.53%	3.53%
JJU	Aluminum	-3.62%	-3.76%	-15.15%
JJT	Tin	-3.11%	-3.63%	-37.61%
DBA	Agriculture	-0.43%	2.53%	4.81%
CORN	Corn	-0.62%	8.36%	25.77%
SOYB	Soybeans	-0.55%	-1.61%	18.42%
WEAT	Wheat	-2.54%	-0.35%	14.07%
CANE	Sugar	-1.76%	2.41%	-2.83%
BAL	Cotton	-4.19%	16.74%	20.55%
NIB	Cocoa	-1.07%	2.20%	-12.78%
JO	Coffee	-0.46%	10.26%	6.73%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.03%	2.97%	13.66%
UDN	Short Dollar	0.00%	-2.80%	-12.55%
FXE	Euro	0.23%	-2.03%	-12.52%
FXB	British Pound Sterling	-0.42%	-4.22%	-13.88%
FXF	Swiss Franc	-0.53%	-2.24%	-7.02%
FXJ	Japanese Yen	-0.01%	-3.93%	-17.28%
FXC	Canadian Dollar	-0.67%	-2.17%	-3.64%
FXA	Australian Dollar	-0.68%	-1.86%	-5.85%

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