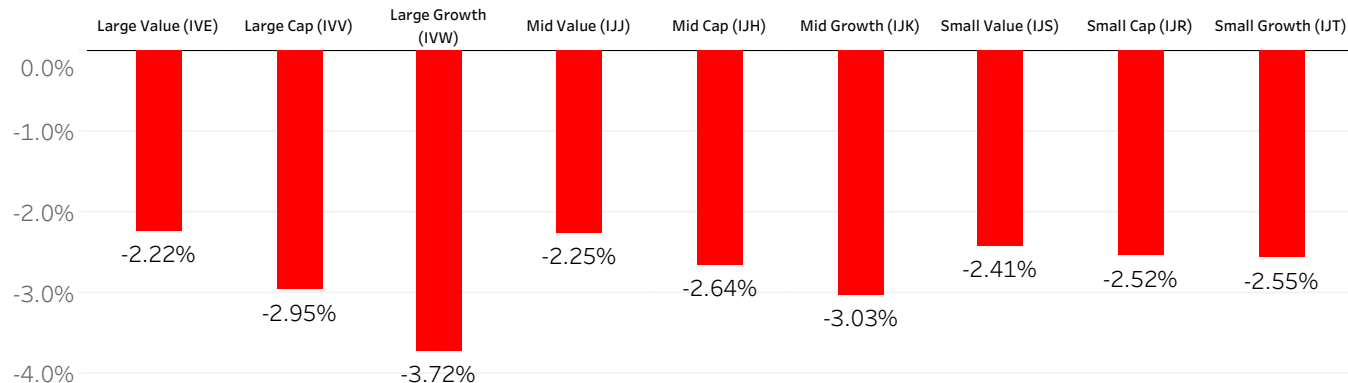


Large Cap Blend (S&P 500) IVV



U.S. Size & Style 1-Day Performance



Mid Cap Blend (S&P 400) IJH



Size & Style 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
UTRN	Vesper U.S. Large Cap Short-Term Reversal Strategy ETF	0.00%
PTLC	Pacer Trendpilot US Large Cap ETF	0.00%
SPC	CrossingBridge Pre-Merger SPAC ETF	0.00%
PTMC	Pacer Trendpilot US Mid Cap ETF	0.00%
CSF	VictoryShares US Discovery Enhanced Volatility Wtd ETF	-0.52%
TPLE	Timothy Plan US Large/Mid Cap Core Enhanced ETF	-0.61%
ABEQ	Absolute Core Strategy ETF	-0.61%
SIXL	ETC 6 Meridian Low Beta Equity ETF	-0.80%
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	-0.92%
SPLV	Invesco S&P 500 Low Volatility ETF	-0.93%

Size & Style Most Overbought

Ticker	Fund	Value
SPC	CrossingBridge Pre-Merger SPAC ETF	51.33
PTMC	Pacer Trendpilot US Mid Cap ETF	50.69
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	47.24
DWAS	Invesco DWA SmallCap Momentum ETF	46.17
UTRN	Vesper U.S. Large Cap Short-Term Reversal Strategy ETF	45.60
AVUV	Avantis U.S. Small Cap Value ETF	45.24
RWJ	Invesco S&P SmallCap 600 Revenue ETF	45.11
PTLC	Pacer Trendpilot US Large Cap ETF	45.11
JMEE	JPMorgan Market Expansion Enhanced Equity ETF	45.00
PDP	Invesco DWA Momentum ETF	44.88

Small Cap Blend (S&P 600) IJR



Size & Style 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
IPO	Renaissance IPO ETF	-4.50%
SPHB	Invesco S&P 500 High Beta ETF	-4.37%
BUZZ	VanEck Social Sentiment ETF	-4.11%
MMLG	First Trust Multi-Manager Large Growth ETF	-4.01%
CSD	Invesco S&P Spin-Off ETF	-3.94%
RPG	Invesco S&P 500 Pure Growth ETF	-3.87%
RUFF	Alpha Dog ETF	-3.86%
TMFC	Motley Fool 100 Index ETF	-3.86%
MGK	Vanguard Mega Cap Growth ETF	-3.85%
RFG	Invesco S&P Midcap 400 Pure Growth ETF	-3.83%

Size & Style Most Oversold

Ticker	Fund	Value
NZUS	SPDR MSCI USA Climate Paris Aligned ETF	29.11
DEIF	Sterling Capital Diverse Multi-Manager Active ETF	30.07
CFO	VictoryShares US 500 Enhanced Volatility Wtd ETF	31.03
ONOF	Global X Adaptive U.S. Risk Management ETF	31.77
QVML	Invesco S&P 500 QVM Multi-factor ETF	34.02
SPLV	Invesco S&P 500 Low Volatility ETF	34.11
ALTL	Pacer Lunt Large Cap Alternator ETF	34.24
RDIV	Invesco S&P Ultra Dividend Revenue ETF	34.34
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	34.65
ACSI	American Customer Satisfaction ETF	35.33

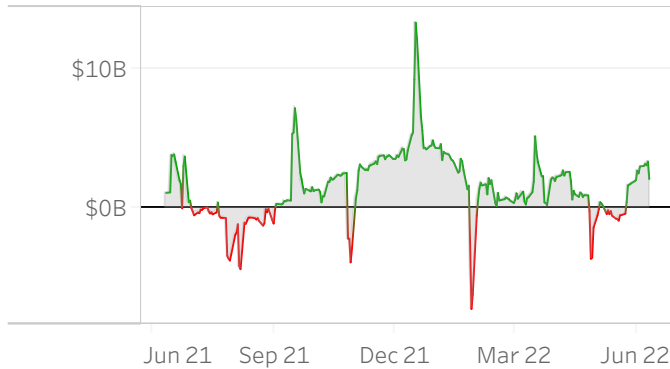
■ Closing Price ■ 50 Day Moving Average ■ 200 Day Moving Average

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

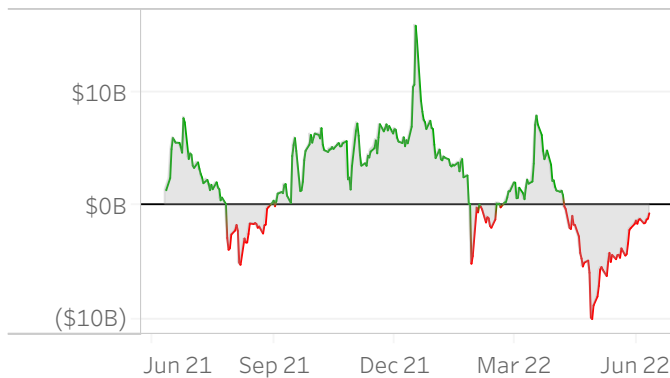
Large-Cap 30-Day Rolling Flows



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	\$1,205B	\$8.57B	\$13.60B	\$43.79B	\$140.52B
Large Cap, Beta Growth, Beta: Growth	10	\$218B	(\$0.16B)	\$6.75B	\$6.34B	\$18.25B
Large Cap, Beta Growth, Beta: Value	11	\$219B	\$0.14B	\$3.97B	\$17.21B	\$25.62B
Mid Cap, Beta, Beta	10	\$175B	(\$0.36B)	\$3.31B	\$6.29B	\$12.17B
Mid Cap, Beta, Beta: Growth	6	\$31B	(\$0.07B)	\$0.27B	(\$0.41B)	\$0.49B
Mid Cap, Beta, Beta: Value	6	\$40B	(\$0.11B)	(\$0.59B)	(\$0.01B)	(\$0.17B)
Small Cap, Beta, Beta	13	\$190B	\$0.52B	(\$6.30B)	(\$2.82B)	\$8.08B
Small Cap, Beta, Beta: Growth	7	\$31B	(\$0.03B)	\$0.46B	\$0.83B	\$1.68B
Small Cap, Beta, Beta: Value	7	\$52B	\$0.03B	(\$2.68B)	(\$1.66B)	(\$2.29B)

U.S. Size & Style Flow Leaders

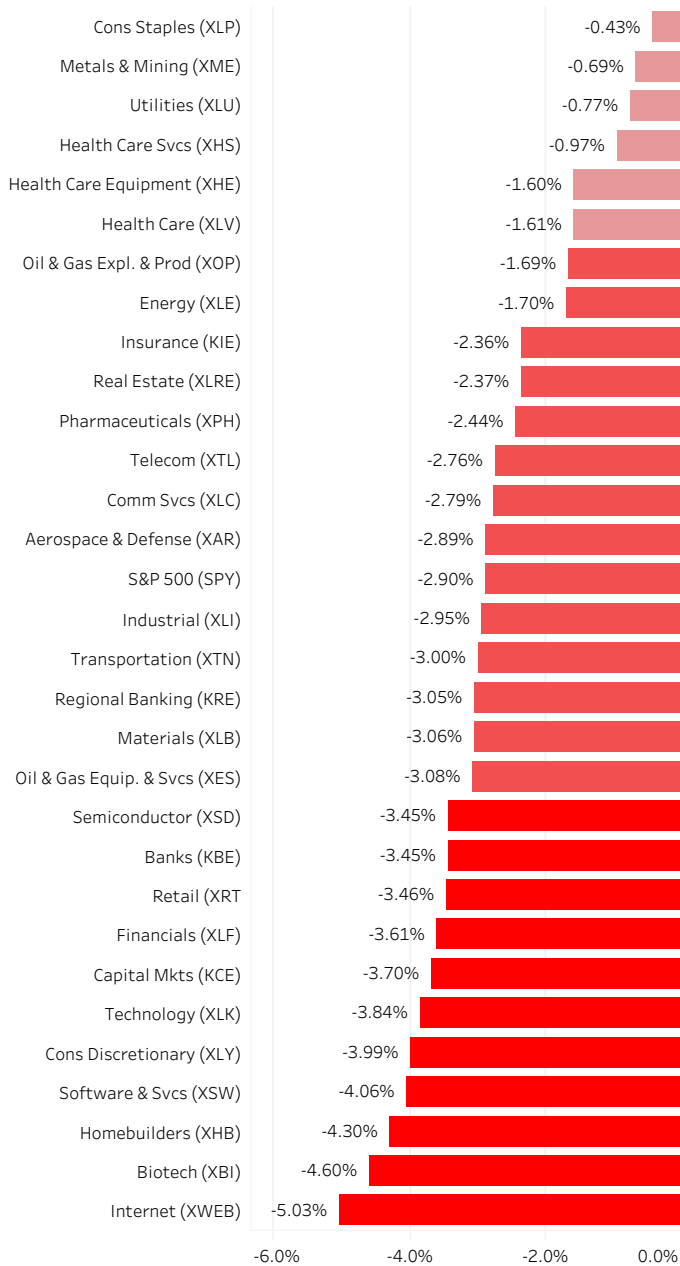
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IVV	iShares Core S&P 500 ETF	\$5.16B	\$7.49B	\$15.17B	\$36.61B	\$298.91B
VOO	Vanguard S&P 500 ETF	\$4.70B	\$2.27B	\$29.19B	\$45.47B	\$259.08B
QQQ	Invesco QQQ Trust	\$1.19B	\$4.82B	\$6.86B	\$24.57B	\$163.56B
IWM	iShares Russell 2000 ETF	\$0.50B	(\$2.61B)	(\$4.03B)	(\$0.67B)	\$54.20B
HDV	iShares Core High Dividend ETF	\$0.28B	\$4.14B	\$5.10B	\$5.51B	\$13.20B
VTV	Vanguard Value ETF	\$0.23B	\$3.54B	\$13.03B	\$17.90B	\$99.93B
COWZ	Pacer US Cash Cows 100 ETF	\$0.21B	\$3.48B	\$5.28B	\$5.74B	\$6.55B
VB	Vanguard Small-Cap ETF	\$0.20B	(\$0.70B)	\$0.24B	\$3.04B	\$42.45B
VUG	Vanguard Growth ETF	\$0.20B	\$3.47B	\$4.88B	\$7.00B	\$71.26B
IWB	iShares Russell 1000 ETF	\$0.17B	\$0.82B	\$0.81B	\$0.50B	\$27.54B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	(\$2.62B)	(\$3.25B)	(\$13.16B)	\$19.18B	\$361.04B
VO	Vanguard Mid-Cap ETF	(\$0.45B)	\$1.37B	\$2.07B	\$6.40B	\$50.23B
IWF	iShares Russell 1000 Growth ETF	(\$0.30B)	\$0.91B	(\$0.08B)	\$1.25B	\$60.11B
VTI	Vanguard Total Stock Market ETF	(\$0.22B)	\$4.60B	\$13.36B	\$37.38B	\$259.45B
DIA	SPDR Dow Jones Industrial Average ETF Trust	(\$0.22B)	\$0.37B	\$1.48B	(\$0.84B)	\$28.03B
VIOO	Vanguard S&P Small-Cap 600 ETF	(\$0.19B)	(\$0.16B)	\$0.12B	\$0.27B	\$1.73B
IWV	iShares Russell 3000 ETF	(\$0.09B)	(\$0.10B)	(\$0.07B)	(\$0.30B)	\$10.52B
QUAL	iShares MSCI USA Quality Factor ETF	(\$0.09B)	\$0.34B	(\$0.19B)	\$1.52B	\$20.57B
IJJ	iShares S&P Mid-Cap 400 Value ETF	(\$0.08B)	\$0.02B	(\$1.02B)	(\$1.14B)	\$7.39B
VIG	Vanguard Dividend Appreciation ETF	(\$0.08B)	\$1.55B	\$2.11B	\$4.87B	\$62.22B

* 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	-3.87%	93.73%	8.77%	33.86%	58.87
XLU	Utilities Select Sector SPDR Fund	-7.30%	12.83%	-3.23%	2.51%	38.86
XLB	Materials Select Sector SPDR Fund	-9.87%	3.24%	-4.87%	-4.52%	39.44
XLP	Consumer Staples Select Sector SPDR Fund	-10.74%	4.53%	-5.64%	-3.13%	37.51
XLV	Health Care Select Sector SPDR Fund	-12.14%	0.29%	-5.51%	-5.40%	36.19
XLI	Industrial Select Sector SPDR Fund	-15.20%	1.23%	-5.44%	-9.98%	38.56
SPY	SPDR S&P 500 ETF Trust	-18.40%	0.09%	-6.72%	-11.99%	37.74
XLRE	Real Estate Select Sector SPDR Fund	-20.54%	0.00%	-9.98%	-12.40%	33.58
XLF	Financial Select Sector SPDR Fund	-21.46%	0.00%	-7.96%	-14.62%	34.16
XLK	Technology Select Sector SPDR Fund	-25.79%	0.24%	-7.74%	-15.85%	38.51
XLY	Consumer Discretionary Select Sector SPDR Fund	-31.67%	4.83%	-10.81%	-21.18%	38.94
XLC	Communication Services Select Sector SPDR Fund	-34.10%	0.00%	-7.94%	-21.53%	38.29

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
RHS	Invesco S&P 500 Equal Weight Consumer Staples ..	-0.12%
PBJ	Invesco Dynamic Food & Beverage ETF	-0.36%
IYK	iShares U.S. Consumer Staples ETF	-0.37%
XLP	Consumer Staples Select Sector SPDR Fund	-0.43%
FSTA	FIDELITY COVINGTON TRUST MSCI CONSUMER ST..	-0.44%
VDC	Vanguard Consumer Staples ETF	-0.48%
VRAI	Virtus Real Asset Income ETF	-0.49%
BIZD	VanEck BDC Income ETF	-0.56%
XME	SPDR S&P Metals & Mining ETF	-0.69%
KBWY	Invesco KBW Premium Yield Equity REIT ETF	-0.70%

Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	64.86
PXE	Invesco Dynamic Energy Exploration & Production ETF	64.22
FCG	First Trust Natural Gas ETF	61.33
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	61.24
PXI	Invesco DWA Energy Momentum ETF	60.25
VDE	Vanguard Energy ETF	59.32
PSCE	Invesco S&P SmallCap Energy ETF	59.07
FENY	Fidelity MSCI Energy Index ETF	59.03
XLE	Energy Select Sector SPDR Fund	58.87
FTXN	First Trust Nasdaq Oil & Gas ETF	58.33

Sector & Industry 1 Day Performance Laggards

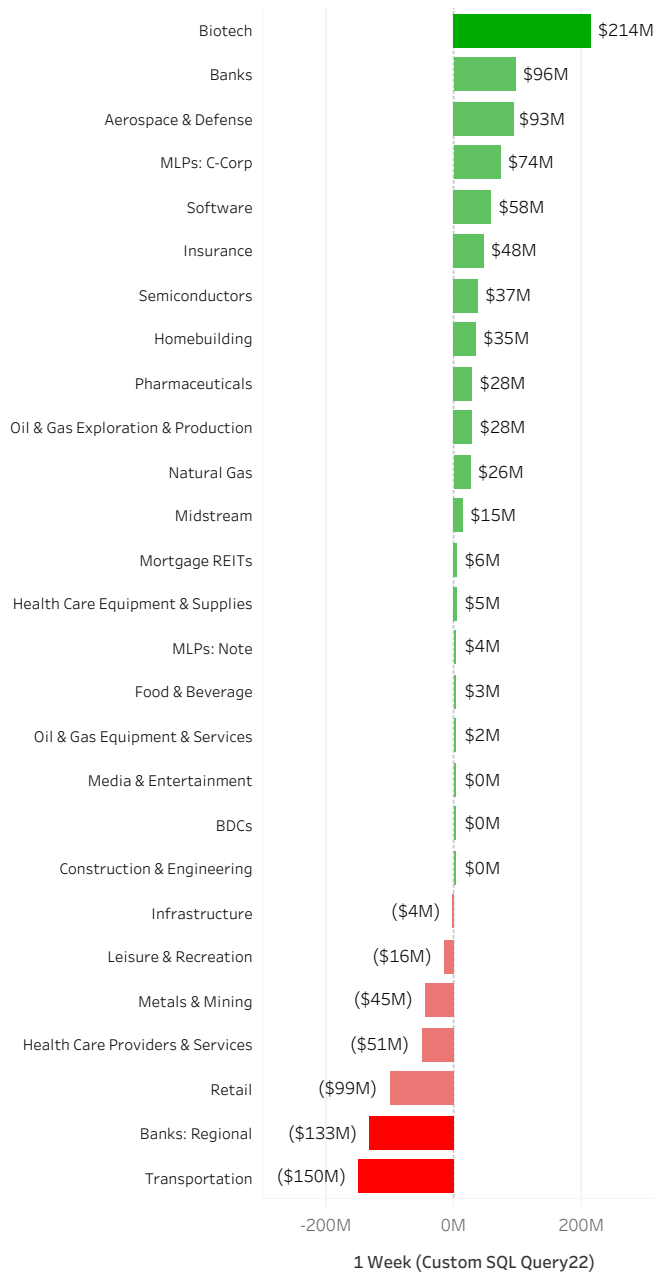
Ticker	Fund	1 Day Performance
FDN	First Trust Dow Jones Internet Index Fund	-4.79%
ITB	iShares U.S. Home Construction ETF	-4.69%
XBI	SPDR S&P BIOTECH ETF	-4.60%
PNQI	Invesco NASDAQ Internet ETF	-4.59%
QTEC	First Trust NASDAQ-100 Technology Sector Index Fund	-4.44%
IGV	iShares Expanded Tech-Software Sector ETF	-4.41%
KBWB	Invesco KBW Bank ETF	-4.36%
FTXO	First Trust Nasdaq Bank ETF	-4.34%
XHB	SPDR S&P Homebuilders ETF	-4.30%
PEJ	Invesco Dynamic Leisure & Entertainment ETF	-4.21%

Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
EWRE	Invesco S&P 500 Equal Weight Real Estate ETF	32.03
REZ	iShares Residential and Multisector Real Estate ETF	32.08
USRT	iShares Core U.S. REIT ETF	32.58
RWR	SPDR Dow Jones REIT ETF	32.67
FRI	First Trust S&P REIT Index Fund	33.15
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	33.15
PPTY	US Diversified Real Estate ETF	33.24
BBRE	JPMorgan BetaBuilders MSCI U.S. REIT ETF	33.29
ICF	iShares Cohen & Steers REIT ETF	33.53
XLRE	Real Estate Select Sector SPDR Fund	33.58

* 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	\$14B	(\$97M)	(\$473M)	(\$1,247M)	\$207M
Consumer Discretionary	13	\$24B	(\$56M)	(\$1,871M)	(\$5,683M)	(\$4,176M)
Consumer Staples	12	\$26B	(\$69M)	\$1,860M	\$5,814M	\$5,867M
Energy	34	\$89B	\$73M	(\$1,954M)	\$5,130M	\$4,411M
Financials	28	\$62B	(\$308M)	(\$11,315M)	(\$8,784M)	(\$10,346M)
Health Care	26	\$87B	\$24M	\$5,475M	\$9,155M	\$14,258M
Industrial	14	\$29B	(\$17M)	(\$1,768M)	(\$1,875M)	(\$6,186M)
Materials	10	\$18B	(\$42M)	\$906M	\$2,234M	(\$948M)
Multi-Sector	19	\$16B	(\$30M)	(\$1,959M)	(\$4,084M)	(\$2,490M)
Real Estate	24	\$70B	\$309M	(\$1,635M)	(\$836M)	\$4,401M
Technology	24	\$121B	\$255M	\$1,479M	(\$644M)	\$6,987M
Utilities	10	\$26B	\$313M	\$3,459M	\$4,322M	\$5,685M

U.S. Sector & Industry Flow Leaders

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IYR	iShares U.S. Real Estate ETF	\$278M	(\$172M)	(\$685M)	(\$1,282M)	\$4,675M
XLU	Utilities Select Sector SPDR Fund	\$231M	\$2,435M	\$2,817M	\$3,787M	\$16,223M
XLK	Technology Select Sector SPDR Fund	\$217M	\$852M	\$251M	\$2,307M	\$40,703M
XBI	SPDR S&P BIOTECH ETF	\$135M	\$743M	\$2,675M	\$3,092M	\$6,190M
VNQ	Vanguard Real Estate ETF	\$118M	(\$475M)	\$394M	\$2,683M	\$40,722M
ITB	iShares U.S. Home Construction ETF	\$104M	(\$328M)	(\$621M)	(\$595M)	\$1,596M
ITA	iShares U.S. Aerospace & Defense ETF	\$96M	\$806M	\$1,398M	\$1,112M	\$3,817M
IBB	iShares Biotechnology ETF	\$87M	(\$48M)	(\$104M)	(\$598M)	\$7,306M
KBWB	Invesco KBW Bank ETF	\$82M	(\$311M)	(\$378M)	(\$77M)	\$2,063M
AML	Alerian MLP ETF	\$73M	\$216M	\$753M	\$692M	\$7,253M

U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	(\$253M)	(\$6,984M)	(\$4,865M)	(\$7,150M)	\$32,487M
XLE	Energy Select Sector SPDR Fund	(\$180M)	(\$426M)	\$1,493M	\$1,035M	\$44,335M
IYT	iShares US Transportation ETF	(\$147M)	(\$506M)	(\$658M)	(\$807M)	\$930M
KRE	SPDR S&P Regional Banking ETF	(\$124M)	(\$1,228M)	(\$752M)	(\$1,287M)	\$3,478M
XRT	SPDR S&P Retail ETF	(\$99M)	(\$25M)	(\$274M)	(\$200M)	\$326M
XLC	Communication Services Select Sector SPDR Fu..	(\$98M)	(\$301M)	(\$956M)	(\$213M)	\$9,832M
VHT	Vanguard Health Care ETF	(\$96M)	(\$355M)	(\$58M)	\$1,214M	\$15,331M
XLV	Health Care Select Sector SPDR Fund	(\$72M)	\$4,858M	\$7,069M	\$10,227M	\$38,156M
XHB	SPDR S&P Homebuilders ETF	(\$68M)	(\$254M)	(\$674M)	(\$508M)	\$1,063M
IHF	iShares U.S. Healthcare Providers ETF	(\$51M)	\$315M	\$315M	\$353M	\$1,441M

* 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



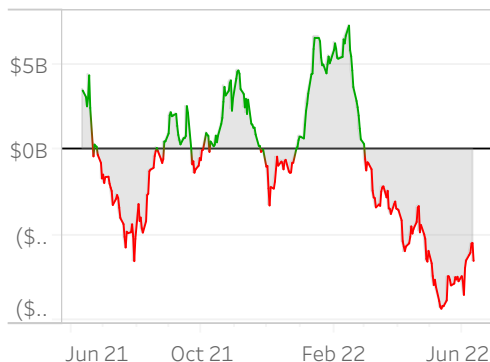
Consumer Staples



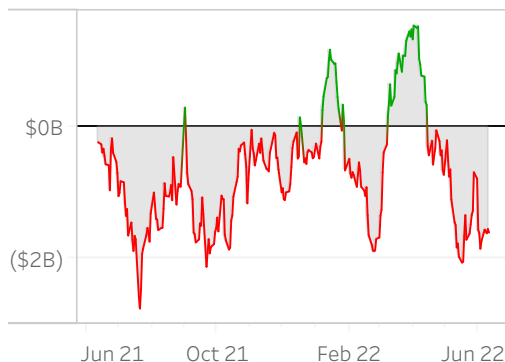
Energy



Financials



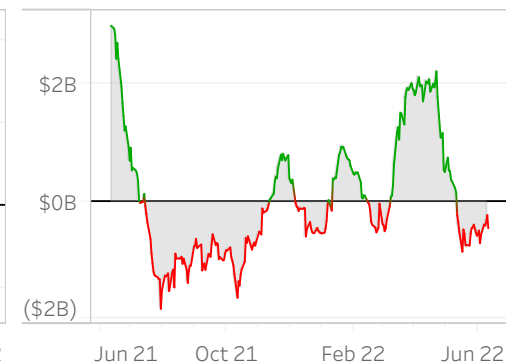
Industrial



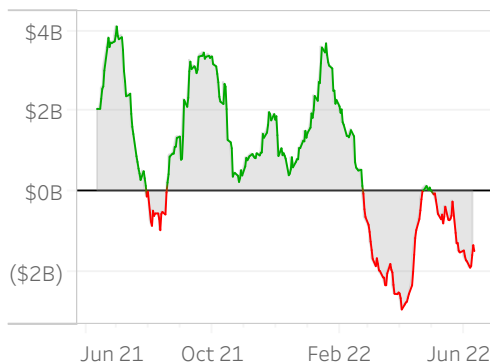
Health Care



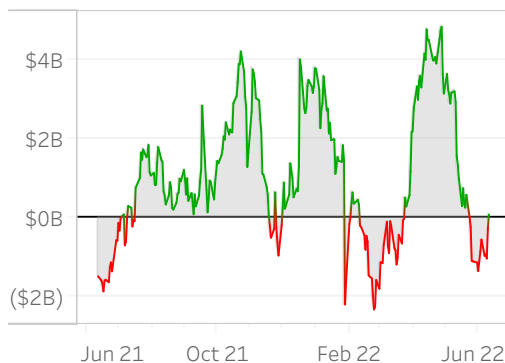
Materials



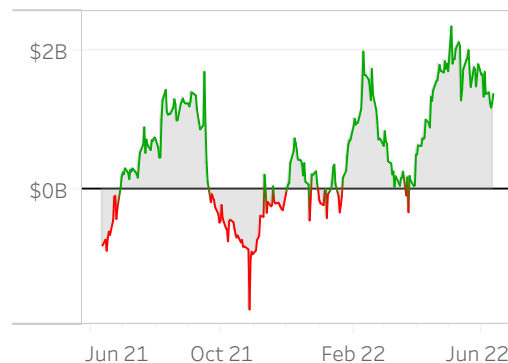
Real Estate



Technology



Utilities

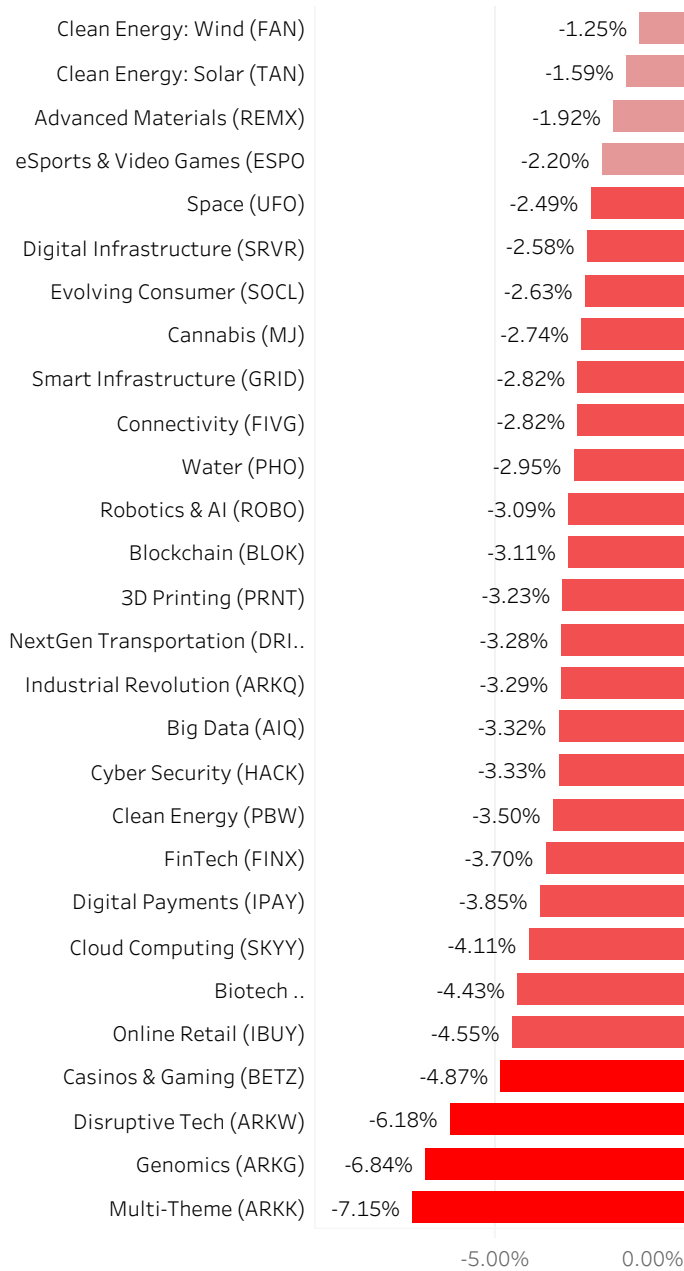


Multi-Sector

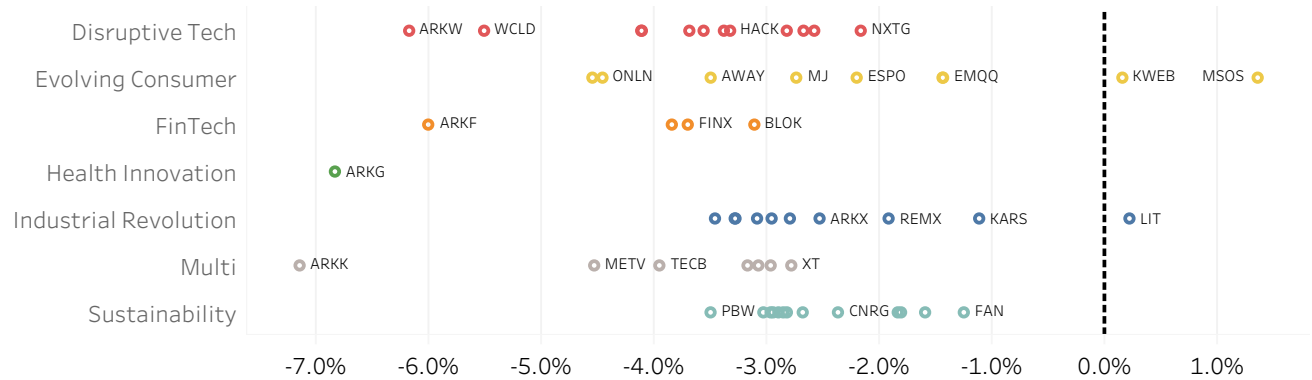


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Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
MSOS	AdvisorShares Pure US Cannabis ETF	1.36%
KSTR	KraneShares SSE STAR Market 50 Index ETF	1.34%
LIT	Global X Lithium & Battery Tech ETF	0.22%
KWEB	KraneShares CSI China Internet ETF	0.16%
KGRN	KraneShares MSCI China Clean Technology Index ETF	-0.04%
YOLO	AdvisorShares Pure Cannabis ETF	-0.93%
KARS	KraneShares Electric Vehicles & Future Mobility Index ETF	-1.11%
BATT	Amplify Lithium & Battery Technology ETF	-1.12%
FAN	First Trust Global Wind Energy ETF	-1.25%
EDOC	Global X Telemedicine & Digital Health ETF Registered	-1.29%

Thematic Most Overbought

Ticker	Fund	Price
KWEB	KraneShares CSI China Internet ETF	60.10
KGRN	KraneShares MSCI China Clean Technology Index ETF	59.37
KSTR	KraneShares SSE STAR Market 50 Index ETF	58.06
TAN	Invesco Solar ETF	57.28
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	56.32
KEMQ	KraneShares Emerging Markets Consumer Technology Ind..	52.04
CNRG	SPDR S&P Kensho Clean Power ETF	51.68
LIT	Global X Lithium & Battery Tech ETF	51.45
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	49.10
ICLN	iShares Global Clean Energy ETF	48.95

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
ARKK	ARK Innovation ETF	-7.15%
ARKG	ARK Genomic Revolution ETF	-6.84%
ARKW	ARK Next Generation Internet ETF	-6.18%
ARKF	ARK Fintech Innovation ETF	-6.01%
GNOM	Global X Genomics & Biotechnology ETF	-5.72%
WCLD	WisdomTree Cloud Computing Fund	-5.51%
MOON	Direxion Moonshot Innovators ETF	-4.97%
BETZ	Roundhill Sports Betting & iGaming ETF	-4.87%
BKCH	Global X Blockchain ETF	-4.79%
BITQ	Bitwise Crypto Industry Innovators ETF	-4.58%

Thematic Most Oversold

Ticker	Fund	Price
POTX	Global X Cannabis ETF	28.88
YOLO	AdvisorShares Pure Cannabis ETF	29.13
MJ	ETFMG Alternative Harvest ETF	30.33
BKCH	Global X Blockchain ETF	32.10
BITQ	Bitwise Crypto Industry Innovators ETF	33.21
BLOK	Amplify Transformational Data Sharing ETF	34.37
IDNA	iShares Genomics Immunology and Healthcare ETF Geno..	34.56
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	35.58
PAWZ	ProShares Pet Care ETF	36.45
IZRL	ARK Israel Innovative Technology ETF	36.51

* 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	
KWEB	KraneShares CSI China Internet ETF	\$464M
TAN	Invesco Solar ETF	\$68M
PBW	Invesco WilderHill Clean Energy ETF	\$47M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$34M
ARKG	ARK Genomic Revolution ETF	\$33M
ARKF	ARK Fintech Innovation ETF	\$17M
BUG	Global X Cybersecurity ETF	\$6M
ARKW	ARK Next Generation Internet ETF	\$6M
ICLN	iShares Global Clean Energy ETF	\$6M
MSOS	AdvisorShares Pure US Cannabis ETF	\$6M

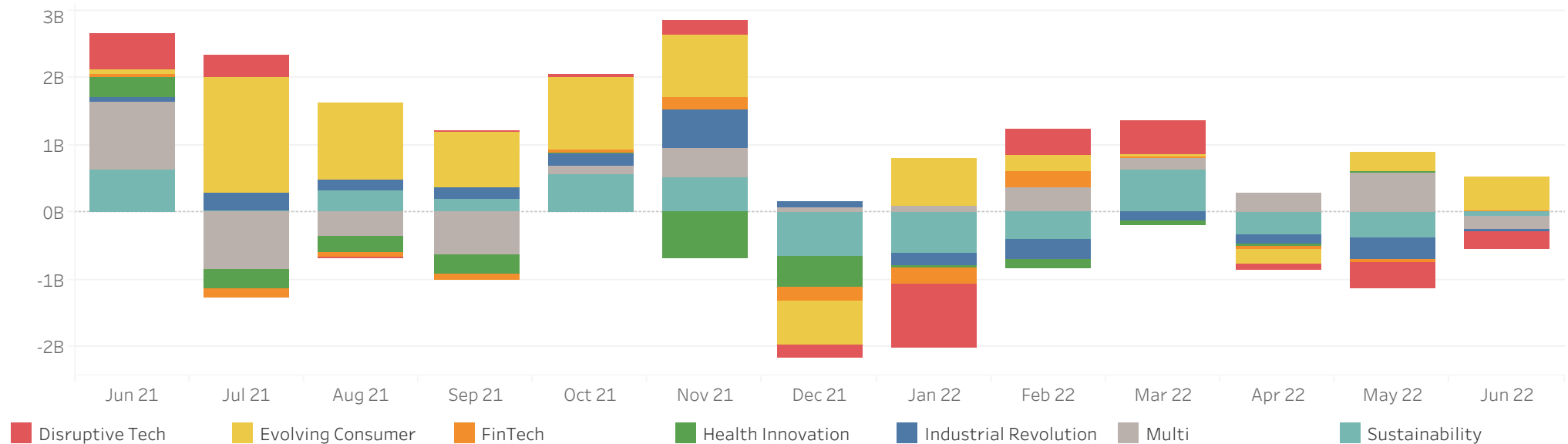
Thematic 1 Week Flow Laggards

Ticker	Fund	
NXTG	First Trust Indxx NextG ETF	(\$145M)
KOMP	SPDR S&P Kensho New Economies Composite ETF	(\$34M)
ACES	ALPS Clean Energy ETF	(\$27M)
ARKK	ARK Innovation ETF	(\$24M)
SKYY	First Trust Cloud Computing ETF	(\$18M)
CLOU	Global X Cloud Computing ETF	(\$13M)
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	(\$12M)
DTEC	ALPS Disruptive Technologies ETF	(\$12M)
HACK	ETFMG Prime Cyber Security ETF	(\$10M)
IPAY	ETFMG Prime Mobile Payments ETF	(\$9M)

Thematic Landscape Assets & Flows

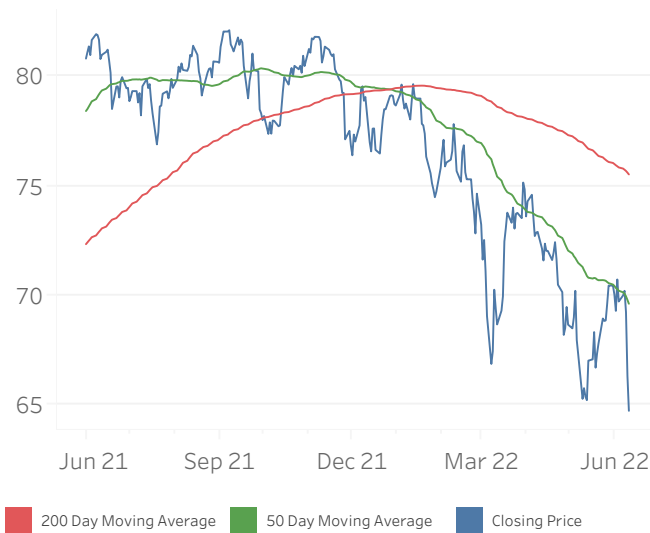
Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	35	\$19B	(\$26M)	(\$602M)	(\$940M)	\$143M
Evolving Consumer	48	\$12B	\$459M	\$1,046M	\$871M	\$6,683M
FinTech	24	\$3B	\$10M	(\$48M)	(\$252M)	(\$284M)
Health Innovation	19	\$3B	\$5M	\$41M	(\$669M)	(\$1,862M)
Industrial Revolution	32	\$13B	(\$17M)	(\$595M)	(\$1,147M)	\$356M
Multi	42	\$16B	\$8M	\$409M	\$1,606M	\$1,127M
Sustainability	41	\$18B	\$96M	(\$724M)	(\$1,446M)	\$452M
Grand Total	241	\$85B	\$535M	(\$473M)	(\$1,978M)	\$6,615M

Thematic Monthly Flows

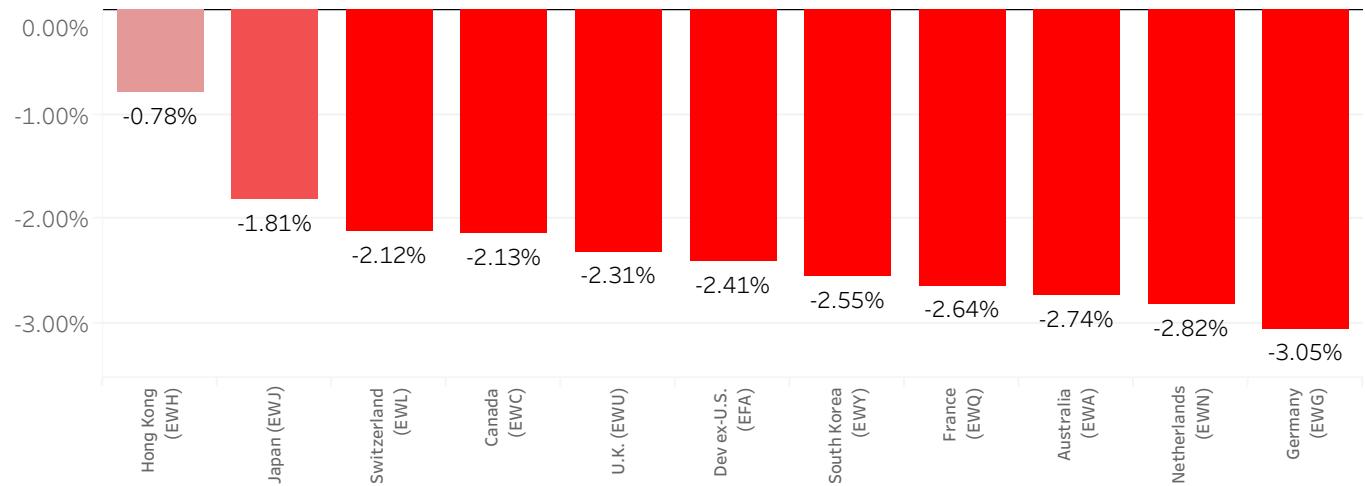


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

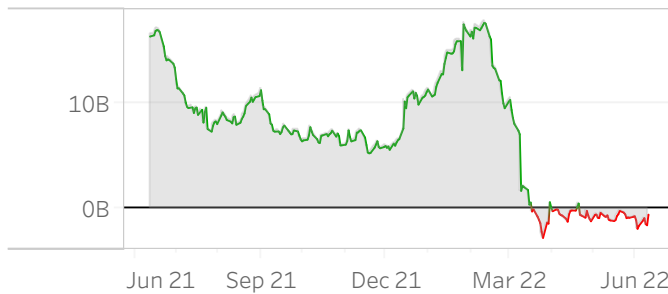
Developed ex-U.S. (EFA)



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



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



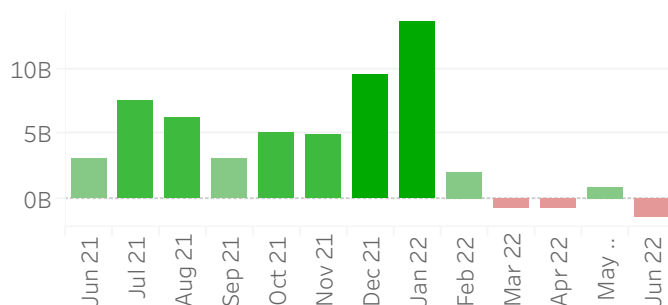
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
PTIN	Pacer Trendpilot International ETF	0.00%
CIL	VictoryShares International Volatility Wtd ETF	-0.74%
EWH	iShares MSCI Hong Kong ETF	-0.78%
LVHI	Legg Mason International Low Volatility High Dividend ETF	-0.84%
AAXJ	iShares MSCI All Country Asia ex Japan ETF	-0.85%
AIA	iShares Asia 50 ETF	-1.04%
QLVD	FlexShares Developed Markets ex-US Quality Low Volatility I..	-1.24%
EWJV	iShares MSCI Japan Value ETF	-1.29%
DFJ	WisdomTree Japan SmallCap Dividend Fund	-1.32%
IDLV	Invesco S&P International Developed Low Volatility ETF	-1.38%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
DXJ	WisdomTree Japan Hedged Equity Fund	52.27
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	51.59
HEWJ	iShares Currency Hedged MSCI Japan ETF	50.90
AIA	iShares Asia 50 ETF	50.57
AAXJ	iShares MSCI All Country Asia ex Japan ETF	47.77
EWH	iShares MSCI Hong Kong ETF	44.52
BBCA	JPMorgan BetaBuilders Canada ETF	41.85
FLCA	Franklin FTSE Canada ETF	41.71
FYLD	Cambria Foreign Shareholder Yield ETF	41.45
ICOW	Pacer Developed Markets International Cash Cows 100 ETF	41.33

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
EWI	iShares MSCI Italy ETF	-5.00%
EIRL	iShares MSCI Ireland ETF	-3.89%
EWP	iShares MSCI Spain ETF	-3.78%
EWO	iShares MSCI Austria ETF	-3.64%
IEUS	iShares MSCI Europe Small-Cap ETF	-3.30%
FEZ	SPDR EURO STOXX 50 ETF	-3.24%
FEP	First Trust Europe AlphaDEX Fund	-3.17%
EZU	iShares MSCI Eurozone ETF	-3.10%
FKU	First Trust United Kingdom AlphaDEX Fund	-3.06%
EWG	iShares MSCI Germany ETF	-3.05%

Developed ex-U.S. Most Oversold

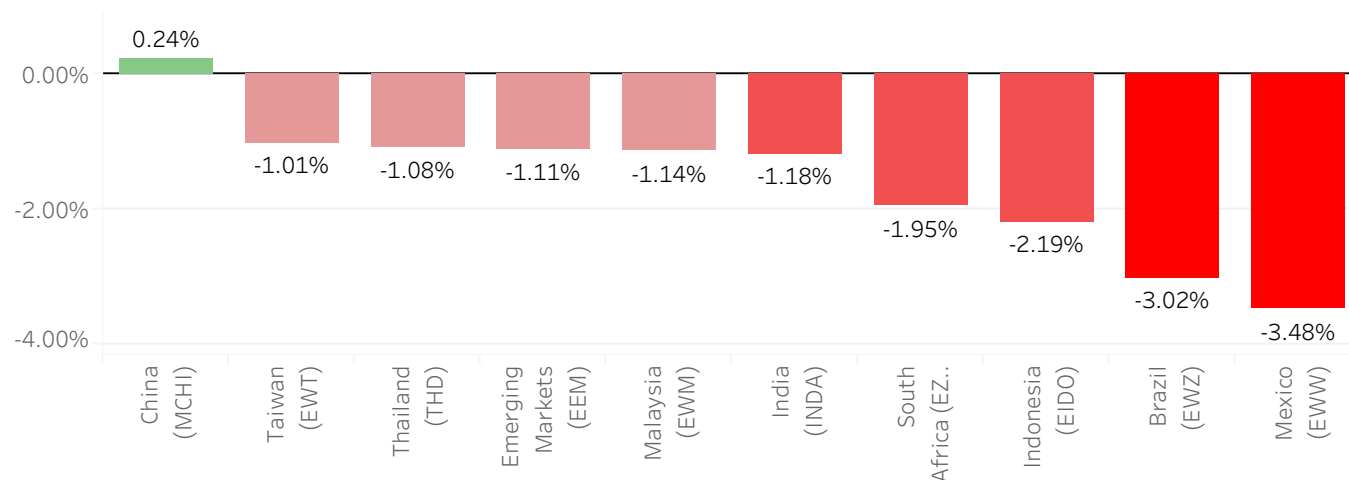
Ticker	Fund	Value
WPS	iShares International Developed Property ETF	27.56
EFAV	iShares MSCI EAFE Min Vol Factor ETF	27.86
EWL	iShares MSCI Switzerland ETF	28.19
EWI	iShares MSCI Italy ETF	29.49
EWA	iShares MSCI Australia ETF	29.84
FLSW	Franklin FTSE Switzerland ETF	30.55
ENZL	iShares MSCI New Zealand ETF	30.79
QLVD	FlexShares Developed Markets ex-US Quality Low V..	31.16
INTF	iShares International Equity Factor ETF	31.71
SCZ	iShares MSCI EAFE Small-Cap ETF	31.77

*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)



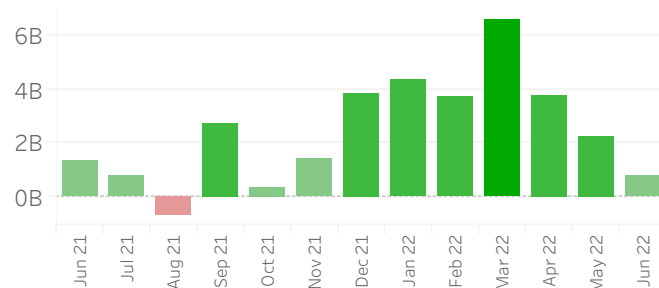
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
KBA	KraneShares Boser MSCI China A 50 Connect Index ETF	1.28%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	1.16%
RAYC	Rayliant Quantamental China Equity ETF	1.09%
CNYA	iShares MSCI China A ETF	0.80%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	0.52%
ECNS	iShares MSCI China Small-Cap ETF	0.47%
MCHI	iShares MSCI China ETF	0.24%
FLCH	Franklin FTSE China ETF	0.23%
GXC	SPDR S&P China ETF	0.20%
FXI	iShares China Large-Cap ETF	0.06%

Emerging Most Overbought

Ticker	Fund	Price
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	60.23
FLCH	Franklin FTSE China ETF	59.69
GXC	SPDR S&P China ETF	58.76
PGJ	Invesco Golden Dragon China ETF	58.34
KBA	KraneShares Boser MSCI China A 50 Connect Index E..	58.10
CNYA	iShares MSCI China A ETF	58.00
MCHI	iShares MSCI China ETF	58.00
FXI	iShares China Large-Cap ETF	57.97
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	57.31
RAYC	Rayliant Quantamental China Equity ETF	57.24

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
EYLD	Cambria Emerging Shareholder Yield ETF	-4.39%
EWZS	iShares MSCI Brazil Small-Cap ETF	-3.67%
EWZ	iShares MSCI Mexico ETF	-3.48%
FLBR	Franklin FTSE Brazil ETF	-3.07%
FLN	First Trust Latin America AlphaDEX Fund	-3.06%
EWZ	iShares MSCI Brazil ETF	-3.02%
ILF	iShares Latin America 40 ETF	-2.70%
EPOL	iShares MSCI Poland ETF	-2.46%
EPHE	iShares MSCI Philippines ETF	-2.40%
EIDO	iShares MSCI Indonesia ETF	-2.19%

Emerging Most Oversold

Ticker	Fund	Price
EWM	iShares MSCI Malaysia ETF	22.18
FM	iShares MSCI Frontier and Select EM ETF	28.09
TUR	iShares MSCI Turkey ETF	29.90
DVYE	iShares Emerging Markets Dividend ETF	29.91
QAT	iShares MSCI Qatar ETF	30.45
EWZ	iShares MSCI Brazil ETF	30.50
EPHE	iShares MSCI Philippines ETF	30.79
EWZ	iShares MSCI Mexico ETF	30.87
ILF	iShares Latin America 40 ETF	31.09
EWZS	iShares MSCI Brazil Small-Cap ETF	32.22

*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	-0.77%	-0.92%	-10.53%
SHY	1-3 Year Treasury Bonds	-0.42%	-0.51%	-3.27%
IEF	7-10 Year Treasury Bonds	-0.98%	-1.29%	-11.93%
TLT	20+ Year Treasury Bonds	-0.62%	-1.50%	-22.63%
TIP	TIPS Bonds	-0.44%	0.99%	-6.58%
FLOT	Floating Rate Bonds	-0.16%	-0.41%	-0.78%
LQD	Investment Grade Corporate	-0.97%	-0.79%	-15.70%
HYG	High Yield Corporate	-1.70%	-1.67%	-11.40%
BKLN	Senior Loan	-1.23%	-0.99%	-4.14%
PFF	Preferred & Income Securities	-1.80%	1.68%	-14.01%
MUB	Municipal Bonds	-0.36%	1.12%	-7.66%
MBB	MBS	-1.00%	-0.67%	-9.01%
EMB	Dollar Denominated EM Bonds	-1.68%	-1.64%	-18.51%
LEMB	Local Currency EM Bond	-0.92%	0.44%	-12.26%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-0.68%	10.71%	42.26%
DBE	Energy	-0.92%	19.98%	76.11%
USO	WTI Crude Oil	-1.04%	20.93%	65.80%
BNO	Brent Crude Oil	-0.89%	21.74%	70.35%
UNG	Natural Gas	-2.14%	19.89%	137.95%
UGA	Gasoline	-2.37%	23.61%	89.16%
DBP	Precious Metals	1.40%	2.30%	-0.12%
GLD	Gold	1.34%	1.82%	2.09%
SLV	Silver	1.10%	3.27%	-6.14%
PPLT	abrdn Physical Platin..	0.42%	1.05%	0.96%
PALL	abrdn Physical Palla..	0.25%	-6.42%	1.54%
DBB	Base Metals	-1.78%	1.47%	-0.58%
CPER	Copper	-1.33%	3.21%	-4.30%
LD	Lead	-1.16%	0.60%	-3.71%
JJN	Nickel	-2.79%	-2.71%	32.57%
JJU	Aluminum	2.59%	-3.03%	-3.72%
JJT	Tin	-4.13%	0.05%	-9.36%
DBA	Agriculture	-0.77%	2.47%	11.44%
CORN	Corn	0.98%	0.81%	33.66%
SOYB	Soybeans	-0.85%	6.11%	27.43%
WEAT	Wheat	0.55%	1.28%	49.53%
CANE	Sugar	-1.83%	2.99%	4.78%
BAL	Cotton	-2.38%	1.03%	31.26%
NIB	Cocoa	-1.52%	-1.39%	-8.63%
JO	Coffee	-3.38%	10.97%	1.27%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	0.80%	0.18%	8.58%
UDN	Short Dollar	-0.86%	-0.30%	-8.60%
FXE	Euro	-0.90%	-0.26%	-7.96%
FXB	British Pound Sterling	-1.39%	0.06%	-9.02%
FXF	Swiss Franc	-0.77%	0.66%	-8.17%
FXJ	Japanese Yen	0.07%	-2.97%	-14.48%
FXC	Canadian Dollar	-0.58%	1.92%	-1.21%
FXA	Australian Dollar	-0.64%	1.63%	-3.08%

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