

Large Cap Blend (S&P 500) IVV



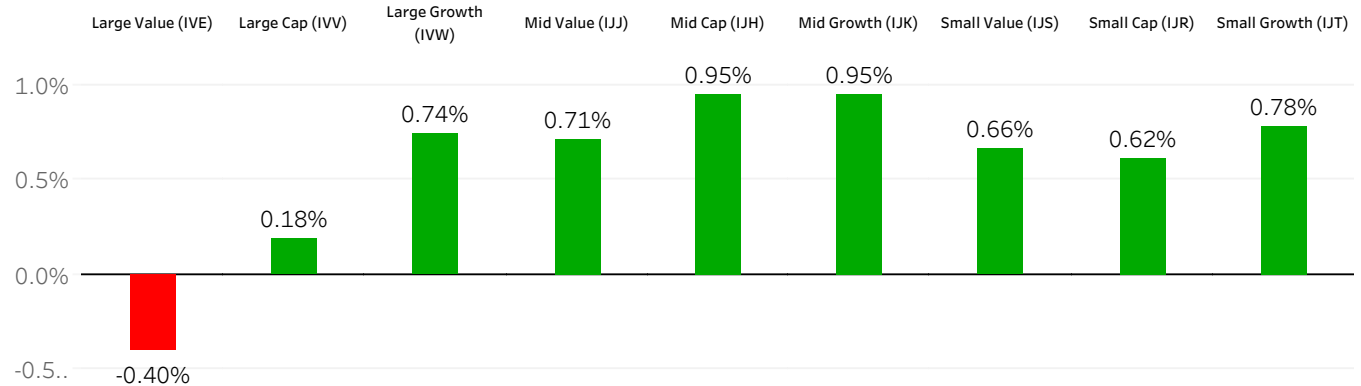
Mid Cap Blend (S&P 400) IJH



Small Cap Blend (S&P 600) IJR



U.S. Size & Style 1-Day Performance



Size & Style 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
IPO	Renaissance IPO ETF	3.92%
TMFS	Motley Fool Small-Cap Growth ETF	2.63%
BUZZ	VanEck Social Sentiment ETF	2.40%
QQQJ	Invesco NASDAQ Next Gen 100 ETF	2.11%
ETHO	Etho Climate Leadership U.S. ETF	2.05%
ISCG	iShares Morningstar Small-Cap Growth ETF	1.96%
MMLG	First Trust Multi-Manager Large Growth ETF	1.95%
QQXT	First Trust Nasdaq-100 Ex-Technology Sector Index Fund	1.95%
GVIP	Goldman Sachs Hedge Industry VIP ETF	1.85%
VTWG	Vanguard Russell 2000 Growth ETF	1.79%

Size & Style Most Overbought

Ticker	Fund	Price
PTMC	Pacer Trendpilot US Mid Cap ETF	48.04
PTLC	Pacer Trendpilot US Large Cap ETF	46.18
IPO	Renaissance IPO ETF	42.33
JSMD	Janus Henderson Small/Mid Cap Growth Alpha ETF	39.64
QQXT	First Trust Nasdaq-100 Ex-Technology Sector Index Fund	38.93
RPHS	Regents Park Hedged Market Strategy ETF	38.12
BUZZ	VanEck Social Sentiment ETF	38.08
DFNV	TrimTabs Donoghue Forlines Risk Managed Innovation ETF	37.77
QQQJ	Invesco NASDAQ Next Gen 100 ETF	37.36
QQQE	Direxion NASDAQ-100 Equal Weighted Index Shares	37.34

Size & Style 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	-2.96%
FFTY	Innovator IBD 50 ETF	-1.57%
GUSA	Goldman Sachs MarketBeta U.S. 1000 Equity ETF	-1.42%
MTUM	iShares MSCI USA Momentum Factor ETF	-1.37%
EQRR	ProShares Equities for Rising Rates ETF	-1.23%
DIVZ	TrueShares Low Volatility Equity Income ETF	-1.19%
SPMO	Invesco S&P 500 Momentum ETF	-1.13%
DHS	WisdomTree U.S. High Dividend Fund	-1.12%
HDV	iShares Core High Dividend ETF	-1.11%
PDP	Invesco DWA Momentum ETF	-1.08%

Size & Style Most Oversold

Ticker	Fund	Price
DEIF	Sterling Capital Diverse Multi-Manager Active ETF	16.05
NZUS	SPDR MSCI USA Climate Paris Aligned ETF	19.09
QVML	Invesco S&P 500 QVM Multi-factor ETF	19.60
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	21.45
SPYD	SPDR Portfolio S&P 500 High Dividend ETF	22.25
DIV	Global X SuperDividend US ETF	22.53
TPHD	Timothy Plan High Dividend Stock ETF	22.95
CDL	VictoryShares US Large Cap High Dividend Volatility ..	23.30
CDC	VictoryShares US EQ Income Enhanced Volatility Wt..	23.36
RDIV	Invesco S&P Ultra Dividend Revenue ETF	23.40

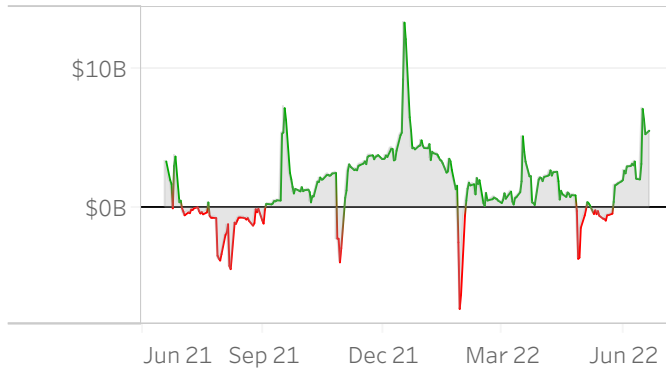
■ Closing Price
 ■ 50 Day Moving Average
 ■ 200 Day Moving Average

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

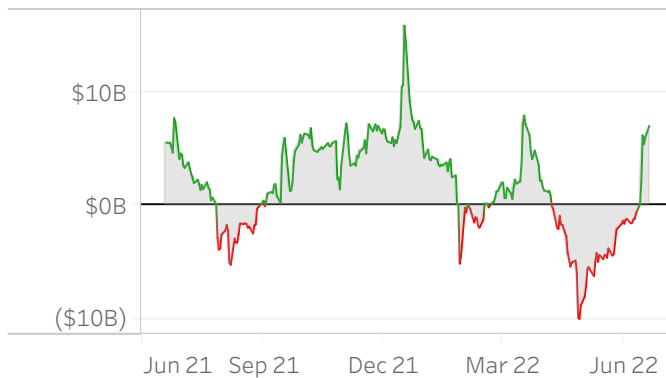
### Large-Cap 30-Day Rolling Flows



### 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	\$1,106B	\$12.11B	\$9.86B	\$40.18B	\$139.93B
Large Cap, Beta Growth, Beta: Growth	10	\$197B	\$0.27B	\$5.73B	\$5.39B	\$16.07B
Large Cap, Beta Growth, Beta: Value	11	\$202B	\$1.43B	\$3.55B	\$17.59B	\$26.61B
Mid Cap, Beta, Beta	10	\$158B	\$1.80B	\$3.39B	\$5.98B	\$12.32B
Mid Cap, Beta, Beta: Growth	6	\$28B	\$0.33B	\$0.11B	(\$0.31B)	\$0.44B
Mid Cap, Beta, Beta: Value	6	\$37B	\$0.80B	(\$0.10B)	\$0.49B	\$0.24B
Small Cap, Beta, Beta	13	\$174B	\$4.41B	(\$4.04B)	(\$1.59B)	\$10.33B
Small Cap, Beta, Beta: Growth	7	\$28B	\$0.36B	\$0.31B	\$0.58B	\$1.87B
Small Cap, Beta, Beta: Value	7	\$47B	\$0.98B	(\$2.00B)	(\$1.26B)	(\$2.05B)

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

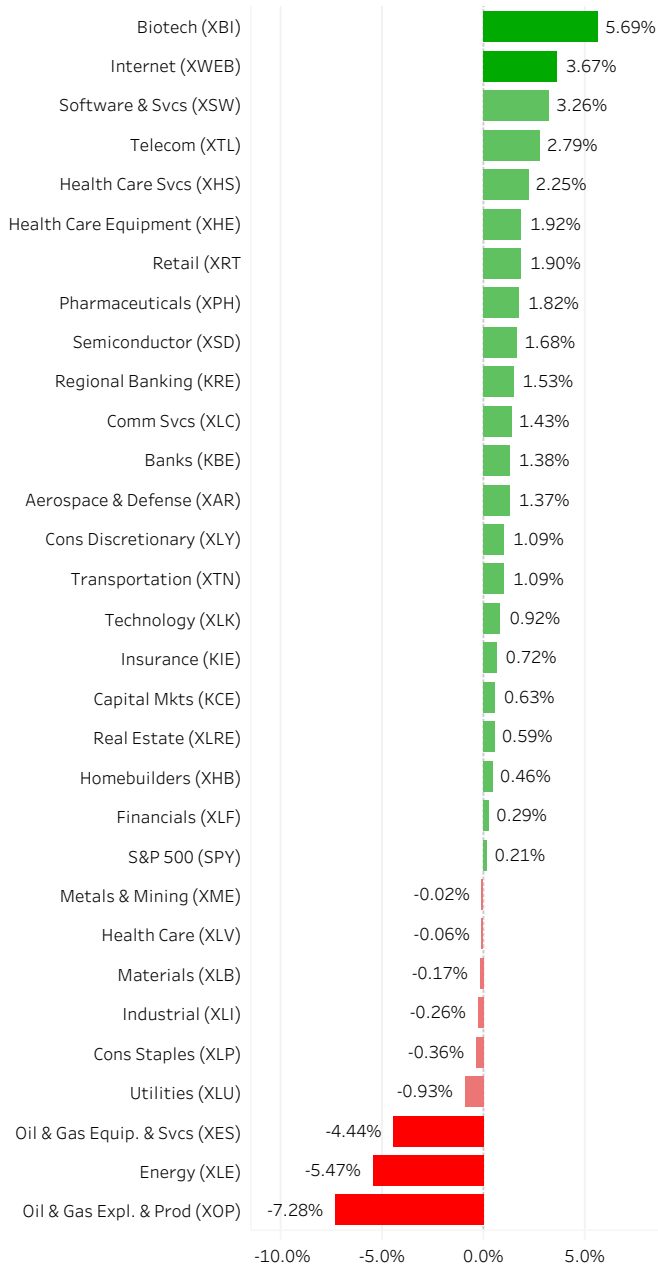
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	\$12.29B	\$1.12B	(\$10.31B)	\$26.03B	\$336.43B
IWM	iShares Russell 2000 ETF	\$2.92B	(\$0.30B)	(\$1.60B)	\$1.38B	\$51.13B
VTI	Vanguard Total Stock Market ETF	\$2.67B	\$3.76B	\$13.48B	\$38.03B	\$238.54B
VO	Vanguard Mid-Cap ETF	\$1.93B	\$1.67B	\$2.80B	\$7.00B	\$46.77B
VB	Vanguard Small-Cap ETF	\$1.60B	(\$0.45B)	\$0.58B	\$3.60B	\$39.26B
VTV	Vanguard Value ETF	\$1.12B	\$3.73B	\$13.59B	\$17.72B	\$92.97B
VOO	Vanguard S&P 500 ETF	\$1.12B	\$1.50B	\$27.88B	\$46.27B	\$237.63B
MOAT	VanEck Morningstar Wide Moat ETF	\$1.06B	\$0.03B	\$1.43B	\$1.47B	\$7.09B
VBR	Vanguard Small Cap Value ETF	\$0.98B	(\$0.90B)	(\$0.04B)	\$1.54B	\$22.35B
VOE	Vanguard Mid-Cap Value ETF	\$0.81B	\$0.98B	\$1.97B	\$2.57B	\$15.39B

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

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IVV	iShares Core S&P 500 ETF	(\$0.86B)	\$2.31B	\$16.37B	\$33.11B	\$272.07B
SPLG	SPDR Portfolio S&P 500 ETF	(\$0.29B)	\$0.53B	\$1.45B	\$3.74B	\$12.17B
SPLV	Invesco S&P 500 Low Volatility ETF	(\$0.21B)	\$1.20B	\$1.91B	\$1.56B	\$9.16B
QQQ	Invesco QQQ Trust	(\$0.19B)	\$3.48B	\$1.28B	\$20.33B	\$148.32B
IWB	iShares Russell 1000 ETF	(\$0.18B)	\$0.42B	\$0.57B	\$0.34B	\$24.96B
VONV	Vanguard Russell 1000 Value ETF	(\$0.16B)	(\$0.76B)	(\$0.49B)	\$0.56B	\$5.70B
IJH	iShares Core S&P Mid-Cap ETF	(\$0.16B)	\$0.49B	\$1.77B	\$3.42B	\$54.17B
QUAL	iShares MSCI USA Quality Factor ETF	(\$0.16B)	\$0.12B	(\$0.41B)	\$1.25B	\$18.49B
MGK	Vanguard Mega Cap Growth ETF	(\$0.13B)	(\$0.01B)	\$0.15B	\$1.68B	\$9.73B
IJJ	iShares S&P Mid-Cap 400 Value ETF	(\$0.11B)	(\$0.09B)	(\$1.15B)	(\$1.23B)	\$6.52B

\* 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)
XLP	Consumer Staples Select Sector SPDR Fund	-14.57%	0.04%	-8.73%	-7.21%	28.14
XLU	Utilities Select Sector SPDR Fund	-15.71%	2.06%	-10.81%	-6.69%	23.40
XLV	Health Care Select Sector SPDR Fund	-16.06%	0.00%	-8.43%	-9.38%	29.70
XLB	Materials Select Sector SPDR Fund	-17.32%	0.00%	-11.55%	-12.21%	27.24
XLI	Industrial Select Sector SPDR Fund	-20.13%	0.00%	-9.69%	-14.88%	30.01
XLE	Energy Select Sector SPDR Fund	-20.36%	60.49%	-10.24%	9.56%	28.67
SPY	SPDR S&P 500 ETF Trust	-23.41%	0.00%	-10.78%	-17.03%	30.39
XLRE	Real Estate Select Sector SPDR Fund	-24.57%	0.59%	-12.58%	-16.46%	31.49
XLF	Financial Select Sector SPDR Fund	-25.33%	0.29%	-10.85%	-18.47%	29.68
XLK	Technology Select Sector SPDR Fund	-29.45%	0.92%	-10.37%	-19.58%	35.80
XLY	Consumer Discretionary Select Sector SPDR Fund	-35.63%	1.09%	-13.55%	-25.28%	35.66
XLC	Communication Services Select Sector SPDR Fund	-37.43%	1.43%	-10.36%	-24.69%	35.62

### Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
XBI	SPDR S&P BIOTECH ETF	5.69%
MORT	VanEck Mortgage REIT Income ETF	3.85%
REM	iShares Mortgage Real Estate ETF	3.71%
PBE	Invesco Dynamic Biotechnology & Genome ETF	3.61%
FBT	First Trust NYSE Arca Biotechnology Index Fund	3.59%
IBB	iShares Biotechnology ETF	3.53%
XSW	SPDR S&P Software & Services ETF	3.26%
XTL	SPDR S&P Telecom ETF	2.79%
PSJ	Invesco Dynamic Software ETF	2.68%
FDN	First Trust Dow Jones Internet Index Fund	2.50%

### Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
XBI	SPDR S&P BIOTECH ETF	46.95
PBE	Invesco Dynamic Biotechnology & Genome ETF	45.10
FBT	First Trust NYSE Arca Biotechnology Index Fund	44.08
IBB	iShares Biotechnology ETF	42.92
XPH	SPDR S&P Pharmaceuticals ETF	41.05
PSJ	Invesco Dynamic Software ETF	40.73
PSCH	Invesco S&P SmallCap Health Care ETF	39.73
IGV	iShares Expanded Tech-Software Sector ETF	39.60
PNQI	Invesco NASDAQ Internet ETF	38.92
XHS	SPDR S&P Health Care Services ETF	38.88

### Sector & Industry 1 Day Performance Laggards

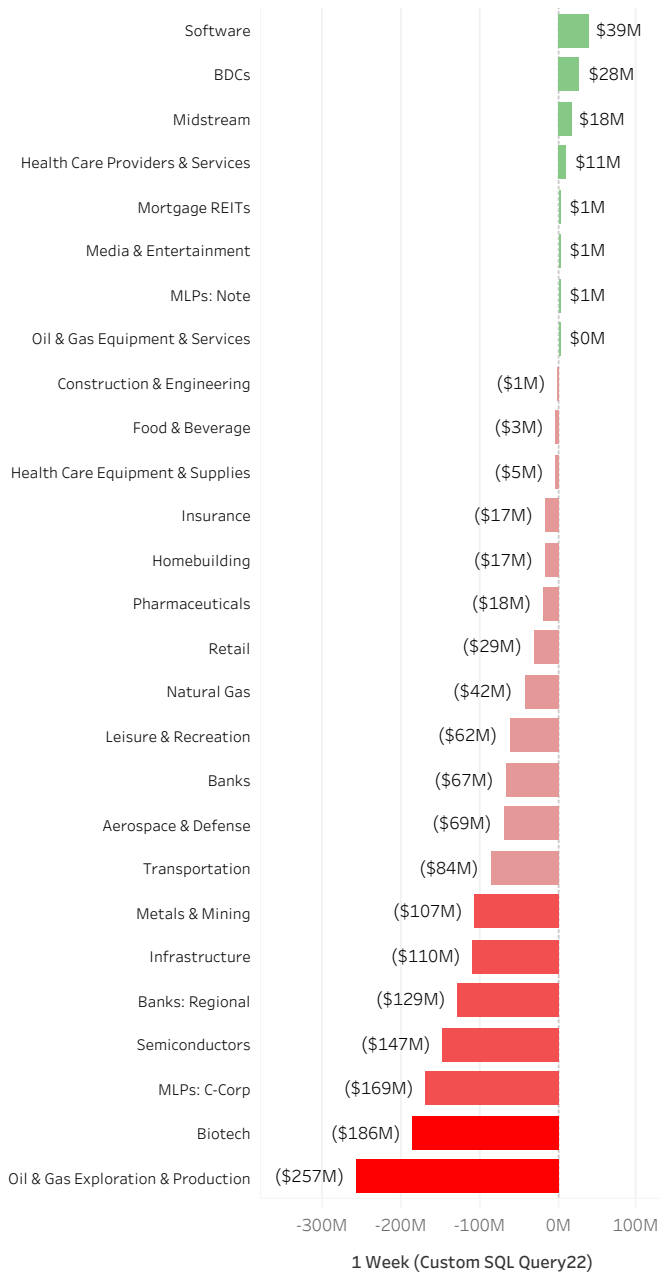
Ticker	Fund	1 Day Performance
PXE	Invesco Dynamic Energy Exploration & Production ETF	-7.35%
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	-7.28%
FCG	First Trust Natural Gas ETF	-7.09%
PSCE	Invesco S&P SmallCap Energy ETF	-6.90%
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	-6.74%
PXI	Invesco DWA Energy Momentum ETF	-6.45%
FTXN	First Trust Nasdaq Oil & Gas ETF	-5.82%
FENY	Fidelity MSCI Energy Index ETF	-5.59%
VDE	Vanguard Energy ETF	-5.58%
XLE	Energy Select Sector SPDR Fund	-5.47%

### Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
FXU	First Trust Utilities AlphaDEX Fund	21.47
RYU	Invesco S&P 500 Equal Weight Utilities ETF	21.84
IDU	iShares U.S. Utilities ETF	22.80
PUI	Invesco DWA Utilities Momentum ETF	23.01
FUTY	Fidelity MSCI Utilities Index ETF	23.02
XLU	Utilities Select Sector SPDR Fund	23.40
TPYP	Tortoise North American Pipeline Fund	23.70
VPU	Vanguard Utilities ETF	23.75
MLPX	Global X MLP & Energy Infrastructure ETF	24.49
EMLP	First Trust North American Energy Infrastructure Fund	24.56

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



### U.S. Sector Landscape

	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Communication Services	9	\$13B	(\$151M)	(\$796M)	(\$1,187M)	(\$388M)
Consumer Discretionary	13	\$21B	\$91M	(\$2,001M)	(\$4,944M)	(\$3,661M)
Consumer Staples	12	\$25B	(\$193M)	\$2,008M	\$5,566M	\$5,810M
Energy	34	\$76B	(\$1,035M)	(\$2,082M)	\$3,788M	\$3,462M
Financials	28	\$55B	(\$329M)	(\$13,417M)	(\$9,379M)	(\$11,648M)
Health Care	26	\$81B	(\$199M)	\$4,891M	\$8,650M	\$14,914M
Industrial	14	\$27B	(\$34M)	(\$2,228M)	(\$1,651M)	(\$5,749M)
Materials	10	\$16B	(\$330M)	(\$173M)	\$1,839M	(\$1,345M)
Multi-Sector	19	\$14B	(\$169M)	(\$1,214M)	(\$4,322M)	(\$2,946M)
Real Estate	24	\$63B	(\$623M)	(\$2,216M)	(\$2,241M)	\$3,167M
Technology	24	\$109B	(\$398M)	\$598M	(\$1,922M)	\$6,244M
Utilities	10	\$24B	(\$233M)	\$2,978M	\$4,345M	\$5,402M

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

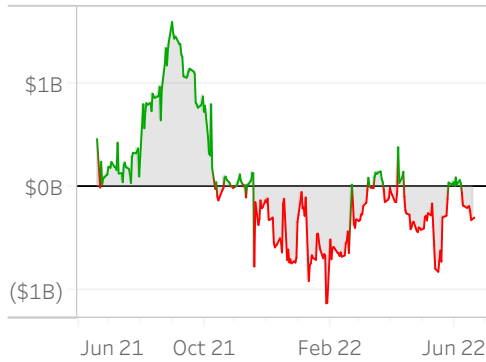
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
FTXN	First Trust Nasdaq Oil & Gas ETF	\$287M	\$119M	\$251M	\$1,079M	\$1,459M
VHT	Vanguard Health Care ETF	\$246M	(\$82M)	\$264M	\$1,530M	\$14,664M
VGT	Vanguard Information Technology ETF	\$187M	\$1,486M	\$283M	\$2,440M	\$39,096M
XLI	Industrial Select Sector SPDR Fund	\$177M	(\$1,197M)	(\$1,690M)	(\$4,366M)	\$12,868M
VCR	Vanguard Consumer Discretionary ETF	\$117M	(\$372M)	(\$887M)	(\$184M)	\$4,175M
VFH	Vanguard Financials ETF	\$98M	(\$1,325M)	(\$906M)	(\$523M)	\$8,352M
VIS	Vanguard Industrials ETF	\$76M	(\$661M)	(\$1,090M)	(\$1,410M)	\$3,253M
IGV	iShares Expanded Tech-Software Sector ETF	\$43M	\$102M	(\$191M)	\$922M	\$4,077M
RCD	Invesco S&P 500 Equal Weight Consumer Discr..	\$40M	(\$33M)	(\$34M)	(\$444M)	\$296M
XHB	SPDR S&P Homebuilders ETF	\$32M	(\$247M)	(\$445M)	(\$628M)	\$908M

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

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLE	Energy Select Sector SPDR Fund	(\$757M)	(\$1,025M)	\$645M	\$204M	\$37,485M
VNQ	Vanguard Real Estate ETF	(\$386M)	(\$916M)	(\$447M)	\$2,045M	\$36,951M
RYT	Invesco S&P 500 Equal Weight Technology ETF	(\$322M)	(\$139M)	(\$259M)	(\$406M)	\$1,860M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	(\$278M)	(\$1,426M)	(\$223M)	(\$1,267M)	\$4,634M
XLV	Health Care Select Sector SPDR Fund	(\$261M)	\$4,260M	\$6,560M	\$10,440M	\$35,805M
XLP	Consumer Staples Select Sector SPDR Fund	(\$173M)	\$164M	\$2,908M	\$2,819M	\$14,391M
AMLP	Alerian MLP ETF	(\$160M)	\$124M	\$607M	\$499M	\$5,979M
PAVE	Global X U.S. Infrastructure Development ETF	(\$130M)	(\$475M)	(\$816M)	\$605M	\$3,657M
SOXX	iShares Semiconductor ETF	(\$129M)	(\$352M)	\$117M	\$1,603M	\$6,356M
XLB	Materials Select Sector SPDR Fund	(\$129M)	\$176M	(\$231M)	(\$2,391M)	\$6,571M

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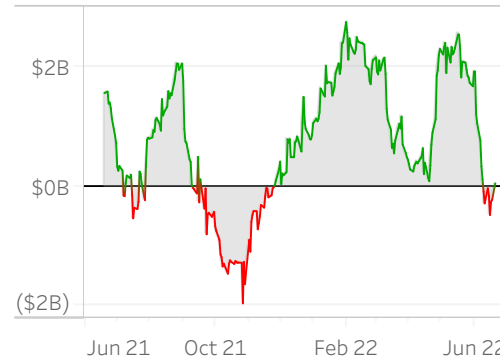
Communication Services



Consumer Discretionary



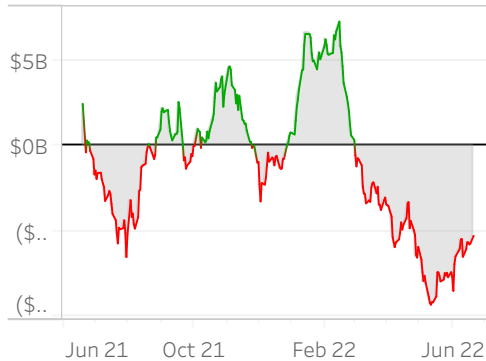
Consumer Staples



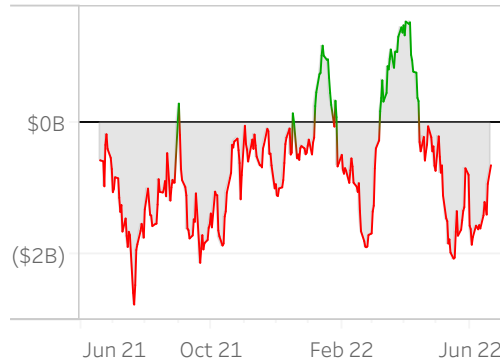
Energy



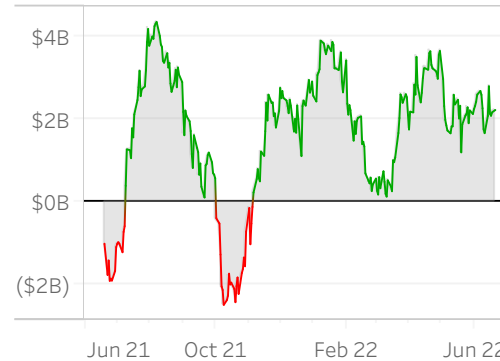
Financials



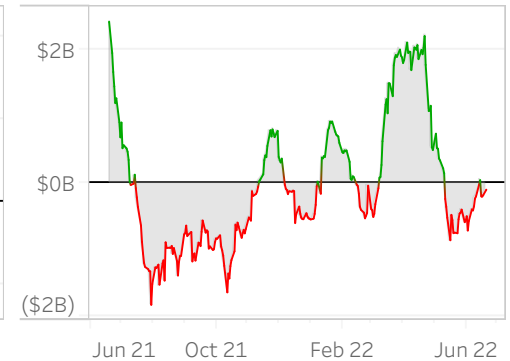
Industrial



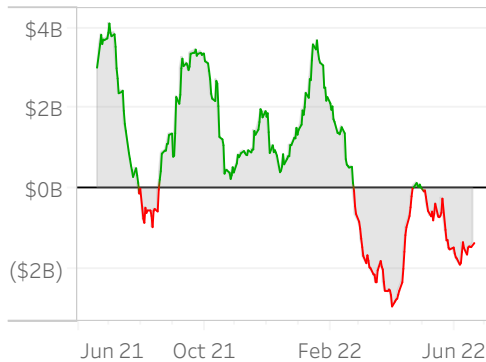
Health Care



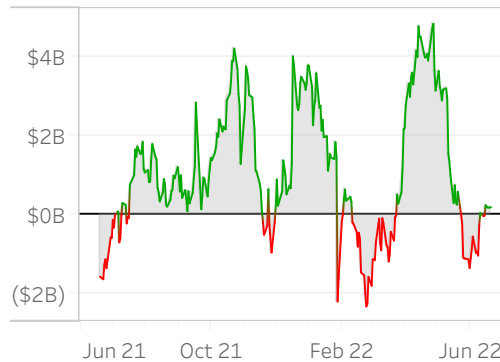
Materials



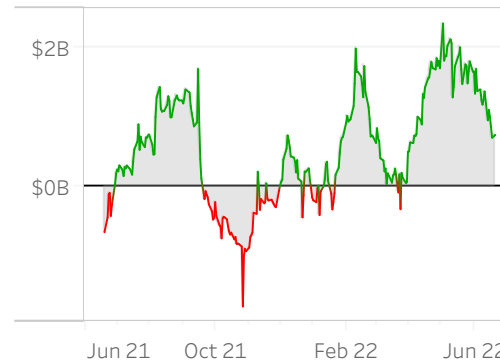
Real Estate



Technology



Utilities

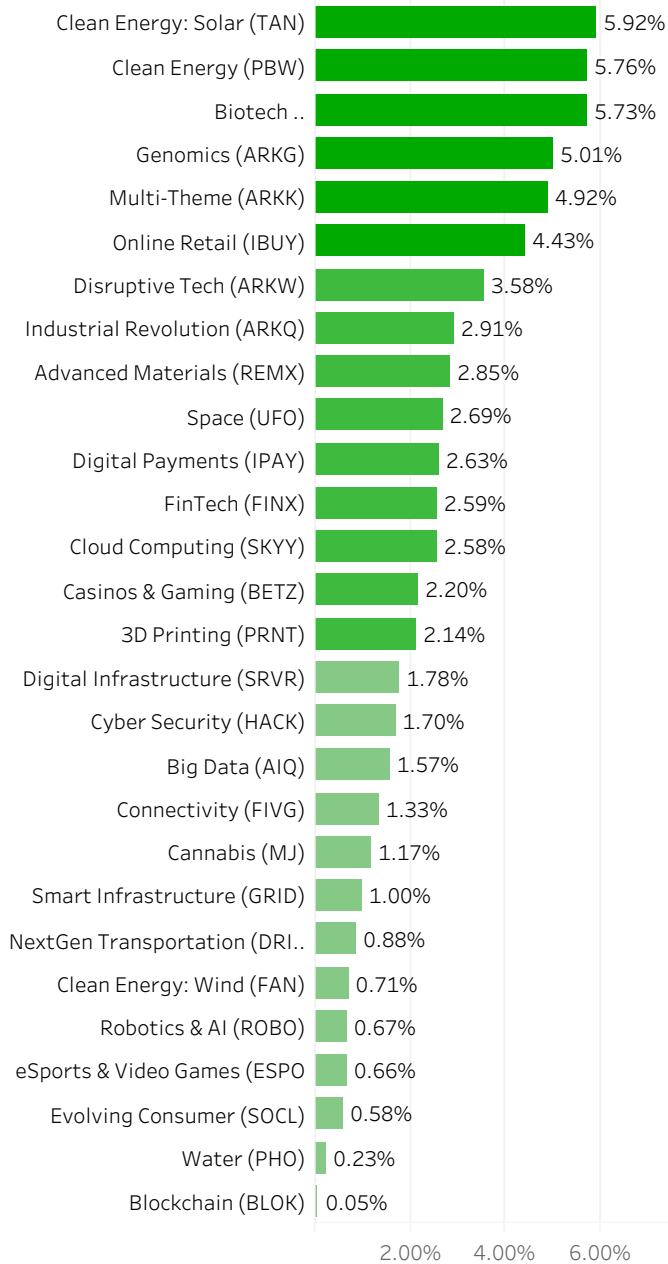


Multi-Sector

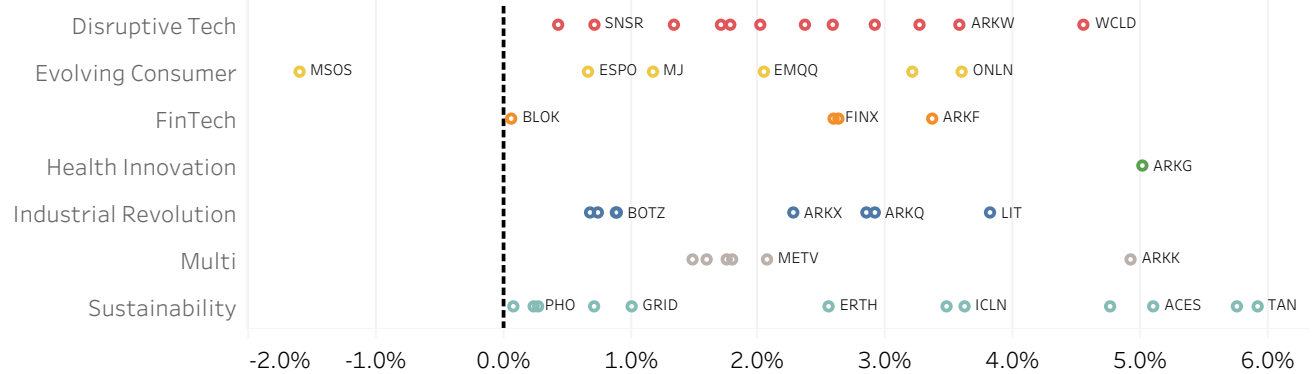


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## Global Thematic Segment 1-Day Performance



## Global Thematic 1-Day Performance Landscape



## Global Thematic 1-Day Performance Leaders

Ticker	Fund	Performance (%)
TAN	Invesco Solar ETF	5.92%
PBW	Invesco WilderHill Clean Energy ETF	5.76%
SBIO	ALPS Medical Breakthroughs ETF	5.73%
ACES	ALPS Clean Energy ETF	5.10%
ARKG	ARK Genomic Revolution ETF	5.01%
ARKK	ARK Innovation ETF	4.92%
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	4.76%
CTEC	Global X CleanTech ETF	4.60%
WCLD	WisdomTree Cloud Computing Fund	4.55%
IBUY	Amplify Online Retail ETF	4.43%

## Thematic Most Overbought

Ticker	Fund	Value
KGRN	KraneShares MSCI China Clean Technology Index ETF	60.47
KSTR	KraneShares SSE STAR Market 50 Index ETF	58.48
KWEB	KraneShares CSI China Internet ETF	55.64
LIT	Global X Lithium & Battery Tech ETF	51.50
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	50.84
TAN	Invesco Solar ETF	50.31
KARS	KraneShares Electric Vehicles & Future Mobility Index ETF	48.48
SBIO	ALPS Medical Breakthroughs ETF	46.55
BATT	Amplify Lithium & Battery Technology ETF	46.38
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	45.14

## Global Thematic 1-Day Performance Laggards

Ticker	Fund	Performance (%)
MSOS	AdvisorShares Pure US Cannabis ETF	-1.61%
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	-0.15%
KLDW	Knowledge Leaders Developed World ETF	-0.09%
EVX	VanEck Environmental Services ETF	0.04%
BLOK	Amplify Transformational Data Sharing ETF	0.05%
CGW	Invesco S&P Global Water Index ETF	0.07%
PIO	Invesco Global Water ETF	0.10%
PHO	Invesco Water Resources ETF	0.23%
LEGR	First Trust Indxx Innovative Transaction & Process ETF	0.26%
FIW	First Trust Water ETF	0.27%

## Thematic Most Oversold

Ticker	Fund	Value
YOLO	AdvisorShares Pure Cannabis ETF	23.72
CGW	Invesco S&P Global Water Index ETF	26.82
BLOK	Amplify Transformational Data Sharing ETF	27.25
MSOS	AdvisorShares Pure US Cannabis ETF	27.50
FIW	First Trust Water ETF	28.14
EVX	VanEck Environmental Services ETF	28.57
PHO	Invesco Water Resources ETF	29.01
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	29.57
PIO	Invesco Global Water ETF	29.74
KLDW	Knowledge Leaders Developed World ETF	29.75

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## Thematic 1 Week Flow Leaders

Ticker	Fund	
KWEB	KraneShares CSI China Internet ETF	\$106M
HACK	ETFMG Prime Cyber Security ETF	\$41M
ARKK	ARK Innovation ETF	\$33M
TARK	AXS 2X Innovation ETF	\$14M
PBW	Invesco WilderHill Clean Energy ETF	\$8M
WCLD	WisdomTree Cloud Computing Fund	\$4M
FDIG	Fidelity Crypto Industry and Digital Payments ETF	\$3M
KOMP	SPDR S&P Kensho New Economies Composite ETF	\$3M
IBUY	Amplify Online Retail ETF	\$2M
MSOS	AdvisorShares Pure US Cannabis ETF	\$2M

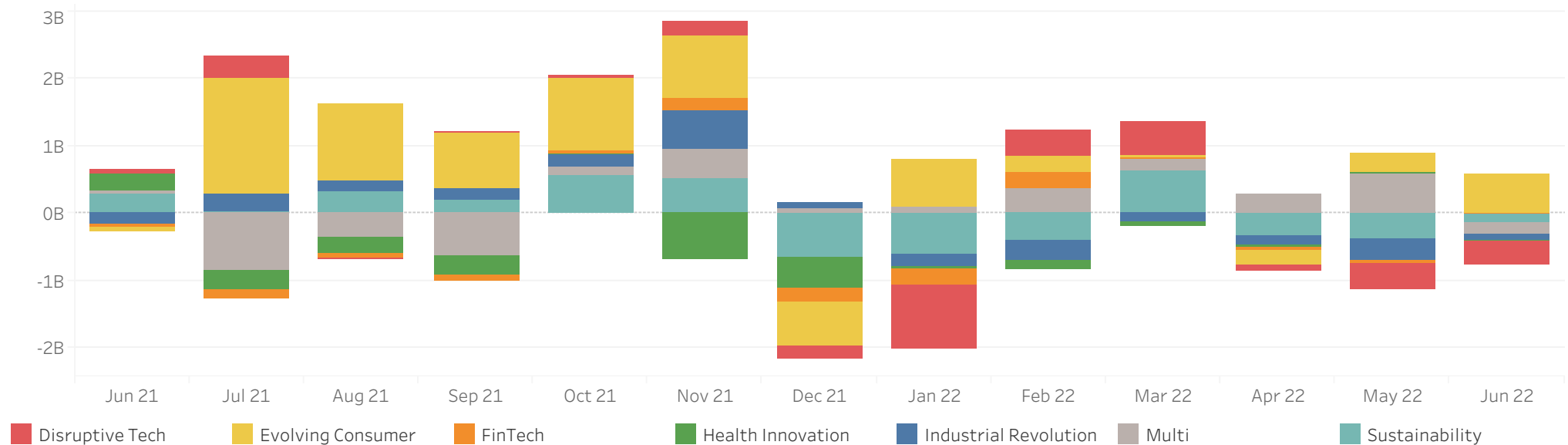
## Thematic 1 Week Flow Laggards

Ticker	Fund	
TAN	Invesco Solar ETF	(\$44M)
SKYY	First Trust Cloud Computing ETF	(\$32M)
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR ETF	(\$22M)
ARKW	ARK Next Generation Internet ETF	(\$22M)
CIBR	First Trust NASDAQ Cybersecurity ETF	(\$21M)
LIT	Global X Lithium & Battery Tech ETF	(\$19M)
ICLN	iShares Global Clean Energy ETF	(\$18M)
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	(\$16M)
BUG	Global X Cybersecurity ETF	(\$12M)
CLOU	Global X Cloud Computing ETF	(\$11M)

## Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	36	\$17B	(\$74M)	(\$1,276M)	(\$970M)	(\$429M)
Evolving Consumer	48	\$11B	\$53M	\$1,034M	\$1,095M	\$6,627M
FinTech	24	\$3B	(\$3M)	(\$55M)	(\$171M)	(\$366M)
Health Innovation	19	\$3B	(\$14M)	\$0M	(\$500M)	(\$1,917M)
Industrial Revolution	32	\$12B	(\$65M)	(\$595M)	(\$1,173M)	\$72M
Multi	42	\$14B	\$192M	(\$54M)	\$1,348M	\$166M
Sustainability	42	\$16B	(\$69M)	(\$961M)	(\$1,408M)	\$40M
Grand Total	243	\$76B	\$20M	(\$1,906M)	(\$1,779M)	\$4,193M

## Thematic Monthly Flows



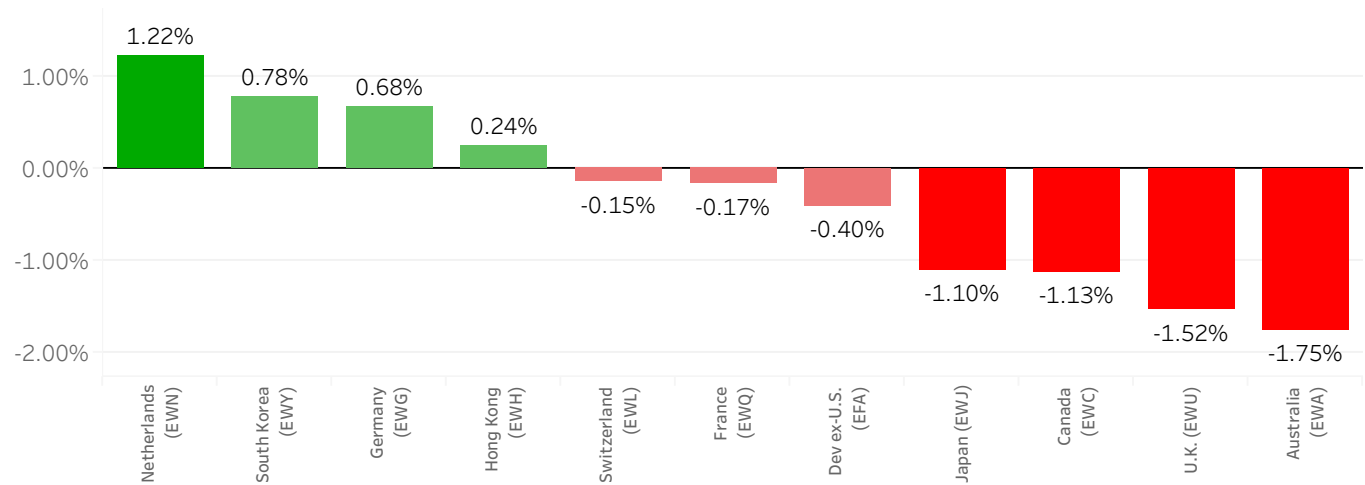
\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



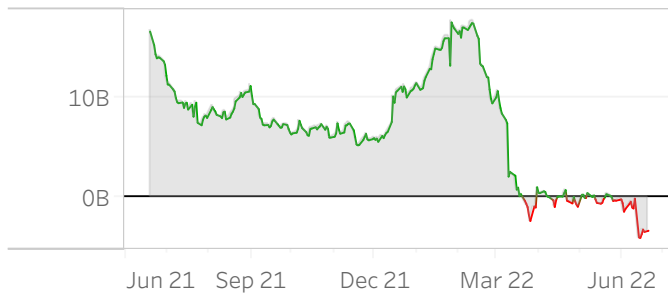
Developed ex-U.S. (EFA)



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



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



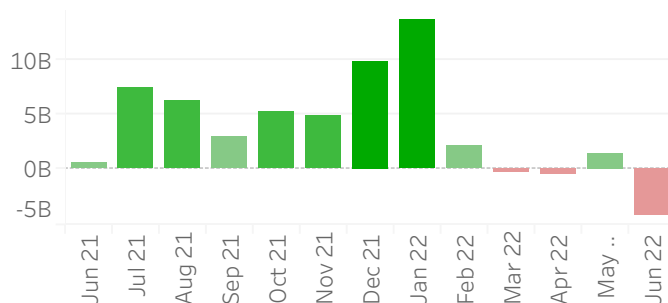
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
ISRA	VanEck Israel ETF	2.14%
EUSC	WisdomTree Europe Hedged SmallCap Equity Fund	1.59%
HSCZ	iShares Currency Hedged MSCI EAFE Small-Cap ETF	1.46%
HEDJ	WisdomTree Europe Hedged Equity Fund	1.34%
HEZU	iShares Currency Hedged MSCI Eurozone ETF	1.23%
EWN	iShares MSCI Netherlands ETF	1.22%
HEWJ	iShares Currency Hedged MSCI Japan ETF	1.14%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	1.10%
GREK	Global X MSCI Greece ETF	1.10%
IEUS	iShares MSCI Europe Small-Cap ETF	1.09%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
AIA	iShares Asia 50 ETF	44.74
PTIN	Pacer Trendpilot International ETF	42.82
AAXJ	iShares MSCI All Country Asia ex Japan ETF	42.60
DXJ	WisdomTree Japan Hedged Equity Fund	41.54
HEWJ	iShares Currency Hedged MSCI Japan ETF	39.10
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	39.07
EWH	iShares MSCI Hong Kong ETF	37.48
ISRA	VanEck Israel ETF	36.69
GREK	Global X MSCI Greece ETF	36.46
EUSC	WisdomTree Europe Hedged SmallCap Equity Fund	36.25

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
IVAL	Alpha Architect International Quantitative Value ETF	-2.13%
FYLD	Cambria Foreign Shareholder Yield ETF	-2.10%
CIL	VictoryShares International Volatility Wtd ETF	-2.00%
IDV	iShares International Select Dividend ETF	-1.80%
EWA	iShares MSCI Australia ETF	-1.75%
EWJV	iShares MSCI Japan Value ETF	-1.59%
DFIV	Dimensional International Value ETF	-1.56%
EWU	iShares MSCI United Kingdom ETF	-1.52%
ICOW	Pacer Developed Markets International Cash Cows 100 ETF	-1.49%
IDOG	ALPS International Sector Dividend Dogs ETF	-1.45%

Developed ex-U.S. Most Oversold

Ticker	Fund	Value
QLVD	FlexShares Developed Markets ex-US Quality Low V..	24.35
WPS	iShares International Developed Property ETF	25.09
EWA	iShares MSCI Australia ETF	25.61
ENZL	iShares MSCI New Zealand ETF	25.84
SCJ	iShares MSCI Japan Small-Cap ETF	26.29
EWL	iShares MSCI Switzerland ETF	26.44
FIDI	Fidelity International High Dividend ETF	26.58
ISDX	Invesco RAFI Strategic Developed ex-US ETF	26.81
EFV	iShares MSCI EAFE Min Vol Factor ETF	26.84
VPL	Vanguard FTSE Pacific ETF	27.21

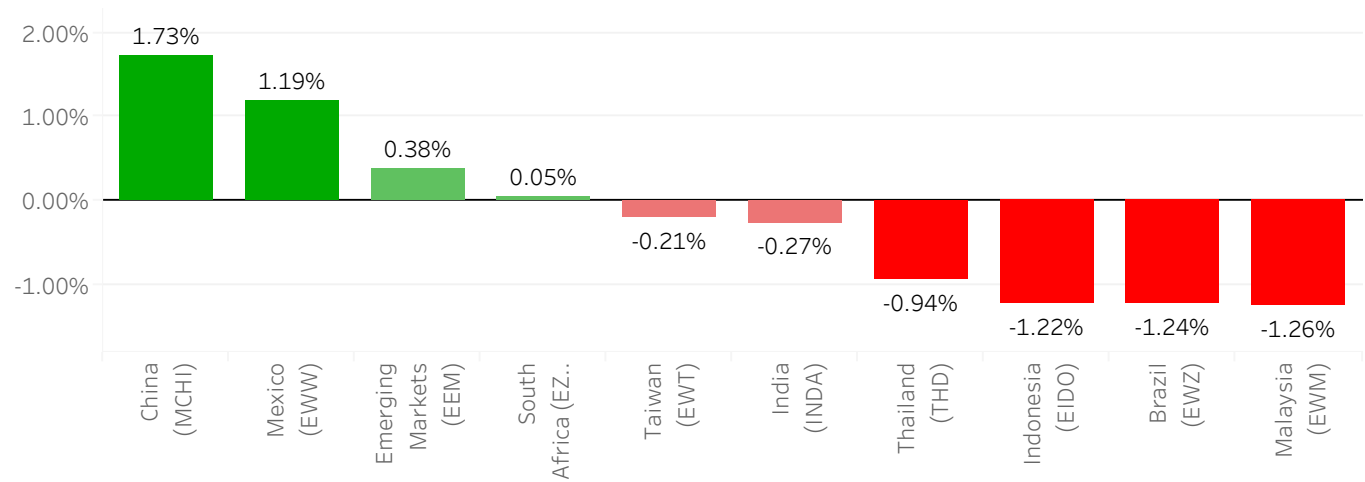
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Emerging (EEM)



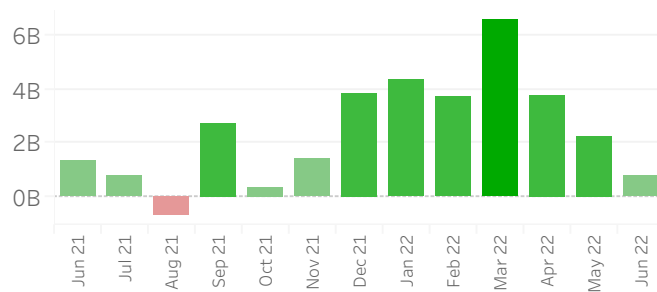
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
EYLD	Cambria Emerging Shareholder Yield ETF	4.08%
PGJ	Invesco Golden Dragon China ETF	3.17%
EPOL	iShares MSCI Poland ETF	3.13%
KBA	KraneShares Boser MSCI China A 50 Connect Index ETF	2.29%
FNI	First Trust Chindia ETF	2.19%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	2.06%
RAYC	Rayliant Quantamental China Equity ETF	1.92%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	1.88%
FXI	iShares China Large-Cap ETF	1.83%
MCHI	iShares MSCI China ETF	1.73%

Emerging Most Overbought

Ticker	Fund	Price
RAYC	Rayliant Quantamental China Equity ETF	63.30
CNYA	iShares MSCI China A ETF	61.97
KBA	KraneShares Boser MSCI China A 50 Connect Index E..	61.22
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	61.11
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	56.55
PGJ	Invesco Golden Dragon China ETF	56.03
GXC	SPDR S&P China ETF	54.35
MCHI	iShares MSCI China ETF	53.60
FLCH	Franklin FTSE China ETF	53.59
FXI	iShares China Large-Cap ETF	53.12

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
IDX	VanEck Indonesia Index ETF	-1.74%
EWM	iShares MSCI Malaysia ETF	-1.26%
EWZ	iShares MSCI Brazil ETF	-1.24%
EIDO	iShares MSCI Indonesia ETF	-1.22%
EPU	iShares MSCI Peru ETF	-1.21%
SDEM	Global X MSCI SuperDividend Emerging Markets ETF	-1.10%
FLBR	Franklin FTSE Brazil ETF	-0.95%
THD	iShares MSCI Thailand ETF	-0.94%
DVYE	iShares Emerging Markets Dividend ETF	-0.82%
ECH	iShares MSCI Chile ETF	-0.66%

Emerging Most Oversold

Ticker	Fund	Price
EWM	iShares MSCI Malaysia ETF	23.16
EPHE	iShares MSCI Philippines ETF	23.73
FM	iShares MSCI Frontier and Select EM ETF	23.80
DVYE	iShares Emerging Markets Dividend ETF	24.50
THD	iShares MSCI Thailand ETF	24.53
FLBR	Franklin FTSE Brazil ETF	24.60
EWZ	iShares MSCI Brazil ETF	26.35
ILF	iShares Latin America 40 ETF	26.91
QAT	iShares MSCI Qatar ETF	27.41
KSA	iShares MSCI Saudi Arabia ETF	27.91

\*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	-0.01%	-1.62%	-11.34%
SHY	1-3 Year Treasury Bonds	-0.02%	-0.68%	-3.47%
IEF	7-10 Year Treasury Bonds	0.03%	-1.89%	-12.39%
TLT	20+ Year Treasury Bonds	0.32%	-1.90%	-23.78%
TIP	TIPS Bonds	0.05%	-1.76%	-8.38%
FLOT	Floating Rate Bonds	0.56%	-0.69%	-1.10%
LQD	Investment Grade Corporate	0.20%	-1.32%	-16.53%
HYG	High Yield Corporate	0.31%	-2.99%	-13.25%
BKLN	Senior Loan	0.39%	-1.75%	-5.28%
PFF	Preferred & Income Securities	0.09%	-3.55%	-17.24%
MUB	Municipal Bonds	0.25%	0.76%	-8.65%
MBB	MBS	-0.01%	-2.38%	-10.40%
EMB	Dollar Denominated EM Bonds	0.54%	-3.25%	-19.71%
LEMB	Local Currency EM Bond	-0.12%	-0.90%	-12.98%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-2.90%	-3.71%	31.88%
DBE	Energy	-5.10%	6.60%	63.52%
USO	WTI Crude Oil	-4.93%	2.75%	53.31%
BNO	Brent Crude Oil	-4.91%	3.76%	58.39%
UNG	Natural Gas	-6.29%	-16.74%	89.59%
UGA	Gasoline	-2.82%	1.23%	72.49%
DBP	Precious Metals	-0.85%	0.87%	-2.06%
GLD	Gold	-0.82%	1.15%	0.18%
SLV	Silver	-1.28%	0.30%	-7.11%
PPLT	abrdn Physical Platin..	-1.95%	-2.08%	-3.48%
PALL	abrdn Physical Palla..	-3.76%	-11.92%	-4.68%
DBB	Base Metals	-2.10%	-6.93%	-5.84%
CPER	Copper	-1.89%	-4.69%	-10.44%
LD	Lead	-5.54%	-4.39%	-10.63%
JJN	Nickel	0.18%	-3.72%	22.98%
JJU	Aluminum	0.34%	-11.30%	-8.43%
JJT	Tin	-0.01%	-4.69%	-16.10%
DBA	Agriculture	-0.59%	-5.05%	10.38%
CORN	Corn	-0.82%	-3.38%	33.98%
SOYB	Soybeans	-0.63%	0.35%	25.14%
WEAT	Wheat	-4.25%	-14.24%	43.44%
CANE	Sugar	-0.32%	-6.01%	1.96%
BAL	Cotton	-0.30%	-9.02%	26.55%
NIB	Cocoa	-0.19%	-6.00%	-9.83%
JO	Coffee	-2.36%	-1.32%	0.56%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	1.01%	1.16%	9.05%
UDN	Short Dollar	-0.75%	-1.13%	-8.84%
FXE	Euro	-0.60%	-0.55%	-8.20%
FXB	British Pound Sterling	-1.17%	-2.10%	-9.80%
FXF	Swiss Franc	-0.50%	2.29%	-6.58%
FXJ	Japanese Yen	-2.23%	-4.17%	-14.91%
FXC	Canadian Dollar	-0.73%	-1.68%	-3.13%
FXA	Australian Dollar	-1.70%	-1.19%	-4.75%

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