

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

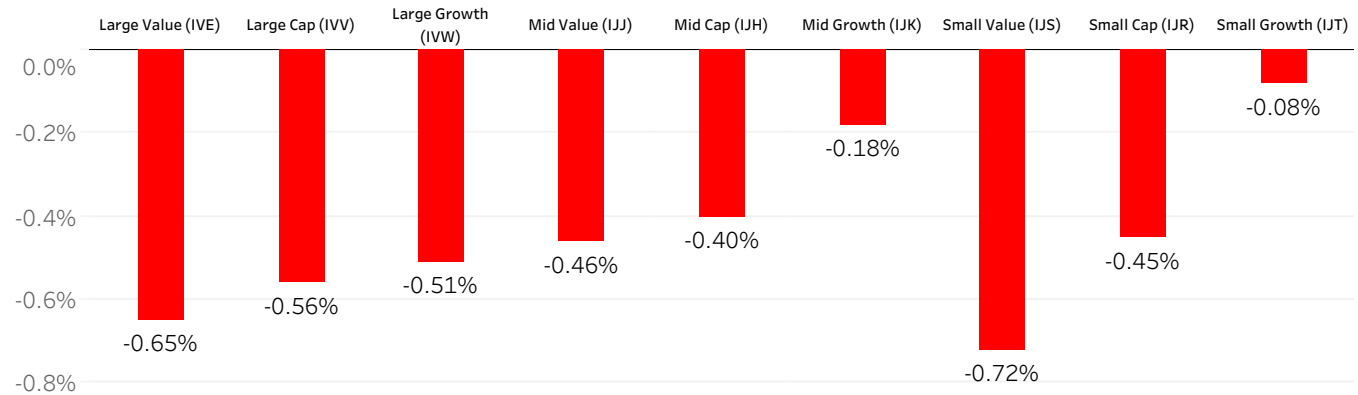


Small Cap Blend (S&P 600) IJR



■ 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	Performance
SMIG	AAM Bahl & Gaynor Small/Mid Cap Income Growth ETF	0.47%
DVOL	First Trust Dorsey Wright Momentum & Low Volatility E..	0.33%
OUSM	ALPS O'Shares US Small-Cap Quality Dividend ETF	0.23%
CSF	VictoryShares US Discovery Enhanced Volatility Wtd ETF	0.17%
XRLV	Invesco S&P 500 ex-Rate Sensitive Low Volatility ETF	0.15%
SPLV	Invesco S&P 500 Low Volatility ETF	0.11%
NOBL	ProShares S&P 500 Dividend Aristocrats ETF	0.11%
TMFM	Motley Fool Mid-Cap Growth ETF	0.08%
SPC	CrossingBridge Pre-Merger SPAC ETF	0.07%
JSML	Janus Henderson Small Cap Growth Alpha ETF	0.06%

Size & Style Most Overbought

Ticker	Fund	Price
SPC	CrossingBridge Pre-Merger SPAC ETF	72.98
CGDV	Capital Group Dividend Value ETF	66.70
HUSV	First Trust Horizon Managed Volatility Domestic ETF	65.75
OMFL	Invesco Russell 1000 Dynamic Multifactor ETF	64.76
QLV	FlexShares US Quality Low Volatility Index Fund	63.96
FDLO	Fidelity Low Volatility Factor ETF	63.84
VIG	Vanguard Dividend Appreciation ETF	63.71
FDMO	Fidelity Momentum Factor ETF	63.46
XRLV	Invesco S&P 500 ex-Rate Sensitive Low Volatility ETF	63.23
SPLV	Invesco S&P 500 Low Volatility ETF	62.93

Size & Style 1-Day Performance Laggards

Ticker	Fund	Performance
BUZZ	VanEck Social Sentiment ETF	-1.80%
AIEQ	AI Powered Equity ETF	-1.76%
WBIY	WBI Power Factor High Dividend ETF	-1.73%
IPO	Renaissance IPO ETF	-1.69%
SPVU	Invesco S&P 500 Enhanced Value ETF	-1.38%
RDIV	Invesco S&P Ultra Dividend Revenue ETF	-1.35%
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	-1.33%
DHS	WisdomTree U.S. High Dividend Fund	-1.32%
ACSI	American Customer Satisfaction ETF	-1.32%
SPDV	AAM S&P 500 High Dividend Value ETF	-1.31%

Size & Style Most Oversold

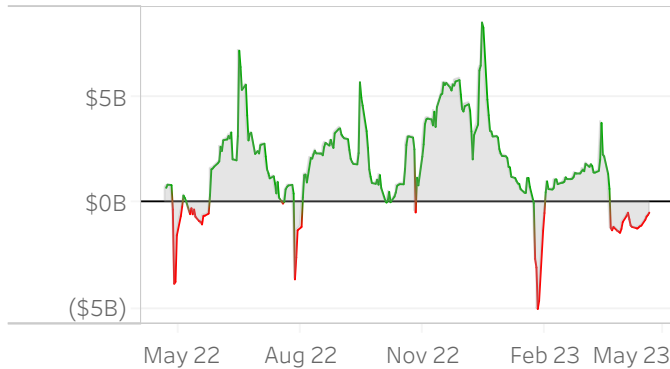
Ticker	Fund	Price
AIEQ	AI Powered Equity ETF	38.80
FDM	First Trust Dow Jones Select MicroCap Index Fund	41.84
XSLV	Invesco S&P SmallCap Low Volatility ETF	42.00
SVAL	iShares US Small Cap Value Factor ETF	42.10
SMLV	SPDR SSGA US Small Cap Low Volatility Index ETF	43.02
DIV	Global X SuperDividend US ETF	44.70
CSML	IQ Chaikin U.S. Small Cap ETF	45.72
SMDV	ProShares Russell 2000 Dividend Growers ETF	45.84
XMVM	Invesco S&P MidCap Value with Momentum ETF	45.85
WBIG	WBI BullBear Yield 3000 ETF	45.99

\*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, Beta	25	\$1,288B	(\$2.40B)	(\$0.87B)	(\$2.05B)	\$63.11B
Large Cap, Beta, Beta: Growth	10	\$246B	(\$0.11B)	\$1.84B	\$9.07B	\$22.30B
Large Cap, Beta, Beta: Value	11	\$222B	(\$0.43B)	(\$3.12B)	(\$3.60B)	\$3.73B
Mid Cap, Beta, Beta	10	\$185B	\$0.12B	\$1.14B	\$5.24B	\$11.13B
Mid Cap, Beta, Beta: Growth	6	\$34B	\$0.02B	(\$0.05B)	(\$0.29B)	\$0.99B
Mid Cap, Beta, Beta: Value	6	\$39B	\$0.07B	(\$0.42B)	(\$0.29B)	\$0.76B
Small Cap, Beta, Beta	13	\$189B	(\$0.70B)	(\$1.23B)	\$2.54B	\$1.35B
Small Cap, Beta, Beta: Growth	7	\$32B	\$0.16B	(\$0.25B)	\$0.44B	\$1.44B
Small Cap, Beta, Beta: Value	7	\$48B	(\$0.07B)	(\$0.49B)	\$0.68B	(\$0.44B)

U.S. Size & Style Flow Leaders

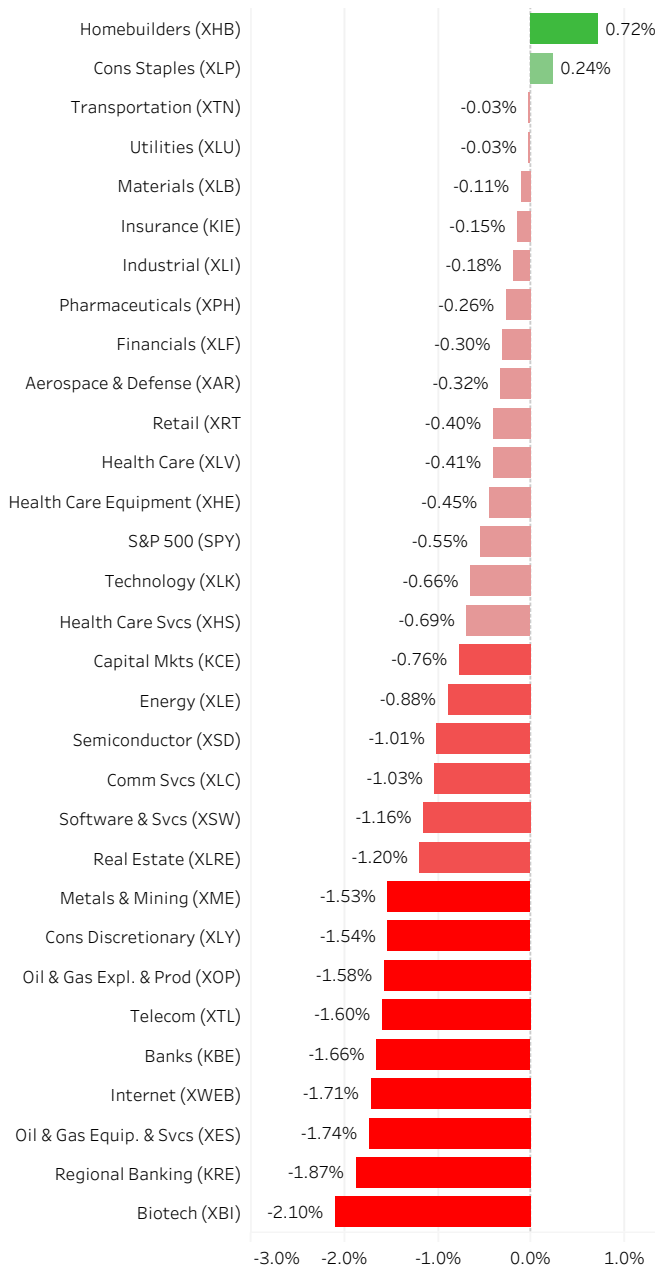
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VOO	Vanguard S&P 500 ETF	\$0.60B	\$6.01B	\$7.51B	\$33.15B	\$290.95B
IVV	iShares Core S&P 500 ETF	\$0.54B	(\$2.09B)	(\$3.60B)	\$16.00B	\$310.21B
VTI	Vanguard Total Stock Market ETF	\$0.40B	\$2.43B	\$8.22B	\$20.53B	\$285.27B
SPLG	SPDR Portfolio S&P 500 ETF	\$0.32B	\$1.02B	\$1.51B	\$3.03B	\$16.82B
QUAL	iShares MSCI USA Quality Factor ETF	\$0.26B	\$8.46B	\$8.11B	\$6.20B	\$28.10B
IJR	iShares Core S&P Small Cap ETF	\$0.23B	\$0.34B	\$1.62B	\$2.57B	\$66.05B
SPLV	Invesco S&P 500 Low Volatility ETF	\$0.16B	(\$0.54B)	(\$0.26B)	\$0.69B	\$10.16B
USMC	Principal U.S. Mega-Cap ETF	\$0.16B	\$0.16B	\$0.15B	(\$0.20B)	\$1.34B
DFAC	Dimensional U.S. Core Equity 2 ETF	\$0.15B	\$1.19B	\$2.46B	\$4.11B	\$18.61B
XLG	Invesco S&P 500 Top 50 ETF	\$0.12B	\$0.00B	(\$0.09B)	(\$0.09B)	\$2.02B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
QQQ	Invesco QQQ Trust	(\$0.81B)	\$0.98B	(\$3.74B)	(\$0.47B)	\$170.49B
IWM	iShares Russell 2000 ETF	(\$0.76B)	(\$2.60B)	(\$2.00B)	(\$2.54B)	\$49.76B
IWD	iShares Russell 1000 Value ETF	(\$0.50B)	(\$2.65B)	(\$3.55B)	(\$2.70B)	\$50.78B
IWF	iShares Russell 1000 Growth ETF	(\$0.28B)	(\$2.32B)	(\$1.69B)	\$1.33B	\$63.18B
JVAL	JPMorgan U.S. Value Factor ETF	(\$0.20B)	(\$0.05B)	\$0.14B	\$0.11B	\$0.62B
SCHX	Schwab U.S. Large-Cap ETF	(\$0.19B)	(\$0.37B)	(\$0.21B)	\$0.06B	\$31.33B
DVY	iShares Select Dividend ETF	(\$0.17B)	(\$0.71B)	\$0.13B	\$1.19B	\$21.81B
IWB	iShares Russell 1000 ETF	(\$0.17B)	(\$0.69B)	(\$0.71B)	\$1.34B	\$28.73B
ESGU	iShares ESG Aware MSCI USA ETF	(\$0.13B)	(\$6.06B)	(\$7.42B)	(\$8.37B)	\$13.98B
VB	Vanguard Small-Cap ETF	(\$0.12B)	\$0.36B	\$1.11B	\$0.73B	\$42.80B

\* 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)
XLK	Technology Select Sector SPDR Fund	-2.19%	27.18%	3.43%	9.93%	55.41
XLP	Consumer Staples Select Sector SPDR Fund	-2.69%	14.32%	3.41%	3.69%	67.23
XLI	Industrial Select Sector SPDR Fund	-2.73%	21.73%	0.69%	4.32%	56.79
SPY	SPDR S&P 500 ETF Trust	-4.15%	15.51%	2.35%	4.22%	59.22
XLV	Health Care Select Sector SPDR Fund	-4.78%	11.27%	2.79%	1.84%	58.95
XLB	Materials Select Sector SPDR Fund	-8.00%	20.94%	1.59%	4.22%	58.00
XLC	Communication Services Select Sector SPDR Fund	-8.56%	26.73%	2.92%	8.57%	51.11
XLE	Energy Select Sector SPDR Fund	-9.14%	26.66%	1.67%	2.22%	53.51
XLF	Financial Select Sector SPDR Fund	-9.89%	10.07%	-0.67%	-1.66%	59.15
XLU	Utilities Select Sector SPDR Fund	-11.14%	12.84%	3.30%	-0.40%	59.42
XLY	Consumer Discretionary Select Sector SPDR Fund	-15.73%	15.44%	0.37%	-0.50%	50.75
XLRE	Real Estate Select Sector SPDR Fund	-20.09%	9.98%	-1.00%	-4.40%	50.31

### Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
ITB	iShares U.S. Home Construction ETF	1.73%
PKB	Invesco Dynamic Building & Construction ETF	1.12%
PSCC	Invesco S&P SmallCap Consumer Staples ETF	0.73%
XHB	SPDR S&P Homebuilders ETF	0.72%
PSL	Invesco DWA Consumer Staples Momentum ETF	0.58%
FXR	First Trust Industrials/Producer Durables AlphaDE..	0.38%
PSCI	Invesco S&P SmallCap Industrials ETF	0.38%
PSCT	Invesco S&P SmallCap Information Technology ETF	0.33%
FSTA	FIDELITY COVINGTON TRUST MSCI CONSUMER ST..	0.31%
VDC	Vanguard Consumer Staples ETF	0.30%

### Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
ITB	iShares U.S. Home Construction ETF	73.88
PSL	Invesco DWA Consumer Staples Momentum ETF	68.56
VDC	Vanguard Consumer Staples ETF	68.40
PKB	Invesco Dynamic Building & Construction ETF	67.66
FSTA	FIDELITY COVINGTON TRUST MSCI CONSUMER STAPLES..	67.43
XLP	Consumer Staples Select Sector SPDR Fund	67.23
IHI	iShares U.S. Medical Devices ETF	67.16
XHB	SPDR S&P Homebuilders ETF	66.45
PTH	Invesco DWA Healthcare Momentum ETF	66.19
PSCC	Invesco S&P SmallCap Consumer Staples ETF	64.34

### Sector & Industry 1 Day Performance Laggards

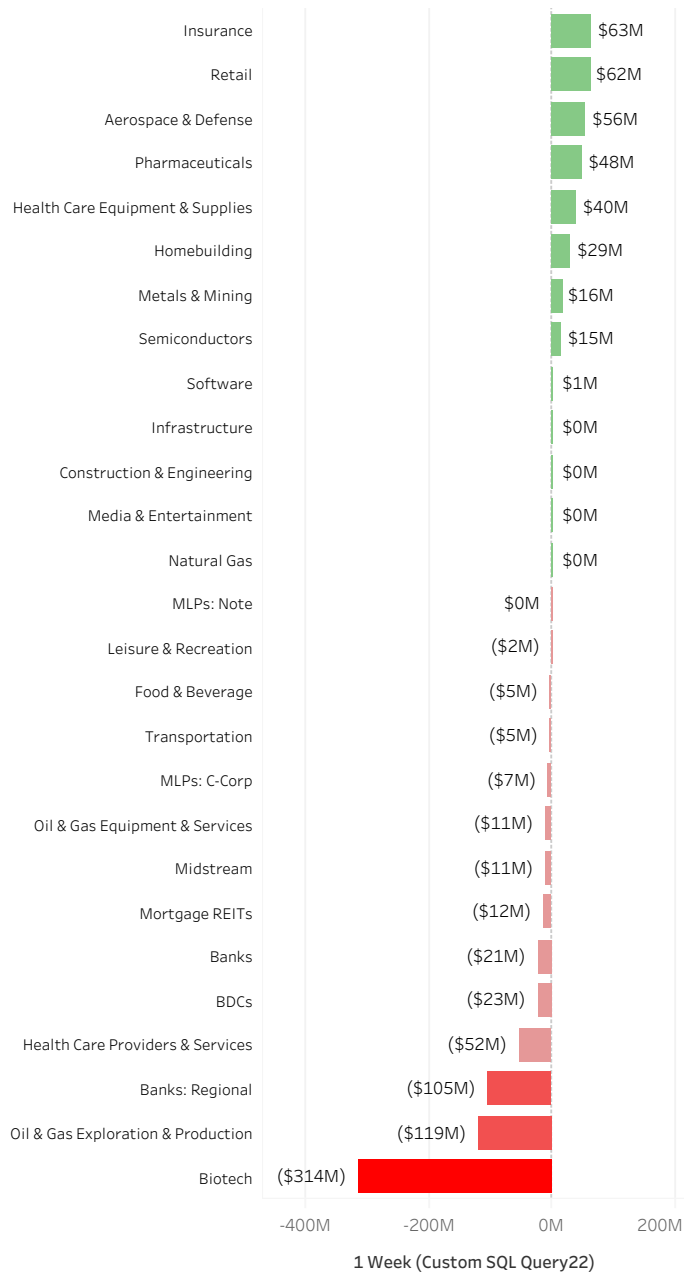
Ticker	Fund	1 Day Performance
IYZ	iShares U.S. Telecommunications ETF	-2.61%
IAT	iShares U.S. Regional Banks ETF	-2.43%
XBI	SPDR S&P BIOTECH ETF	-2.10%
KRE	SPDR S&P Regional Banking ETF	-1.87%
KBWY	Invesco KBW Premium Yield Equity REIT ETF	-1.80%
PSCE	Invesco S&P SmallCap Energy ETF	-1.80%
KBWB	Invesco KBW Bank ETF	-1.78%
PXJ	Invesco Dynamic Oil & Gas Services ETF	-1.77%
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-1.74%
KBE	SPDR S&P Bank ETF	-1.66%

### Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
XTL	SPDR S&P Telecom ETF	28.87
IGN	iShares North American Tech-Multimedia Networking ETF	30.03
IYZ	iShares U.S. Telecommunications ETF	32.46
QABA	First Trust NASDAQ ABA Community Bank Index Fund	39.07
KBWY	Invesco KBW Premium Yield Equity REIT ETF	39.15
PSCT	Invesco S&P SmallCap Information Technology ETF	40.02
XSD	SPDR S&P Semiconductor ETF	41.79
KBWR	Invesco KBW Regional Banking ETF	42.32
KRE	SPDR S&P Regional Banking ETF	42.61
NETL	NETLease Corporate Real Estate ETF	42.67

\* 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	7	\$15B	\$162M	\$1,351M	\$1,250M	\$923M
Consumer Discretionary	12	\$23B	\$333M	\$1,000M	\$806M	(\$2,148M)
Consumer Staples	10	\$31B	\$630M	\$543M	\$2,656M	\$4,680M
Energy	32	\$74B	(\$472M)	(\$4,289M)	(\$5,177M)	(\$9,033M)
Financials	26	\$57B	\$443M	\$2,077M	\$1,829M	(\$8,203M)
Health Care	23	\$93B	\$230M	(\$4,644M)	(\$813M)	\$2,218M
Industrial	13	\$32B	\$295M	\$117M	\$2,085M	(\$1,443M)
Materials	9	\$15B	(\$23M)	\$174M	\$517M	(\$3,541M)
Multi-Sector	19	\$14B	\$13M	\$260M	\$75M	(\$1,985M)
Real Estate	25	\$56B	(\$469M)	(\$2,742M)	(\$2,525M)	(\$6,761M)
Technology	23	\$131B	(\$145M)	\$555M	(\$54M)	(\$420M)
Utilities	9	\$26B	(\$52M)	(\$149M)	(\$459M)	\$2,497M

## U.S. Sector & Industry Flow Leaders

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	\$632M	\$1,060M	\$2,124M	(\$3,914M)	\$31,945M
XLP	Consumer Staples Select Sector SPDR Fund	\$529M	\$499M	\$1,912M	\$2,082M	\$18,257M
XLV	Health Care Select Sector SPDR Fund	\$516M	(\$1,360M)	\$348M	\$2,510M	\$40,130M
XLV	Consumer Discretionary Select Sector SPDR Fu..	\$296M	\$85M	\$89M	(\$645M)	\$14,753M
XLI	Industrial Select Sector SPDR Fund	\$272M	(\$685M)	\$183M	(\$1,511M)	\$13,610M
XLC	Communication Services Select Sector SPDR Fu..	\$138M	\$1,298M	\$1,225M	\$1,241M	\$10,966M
RHS	Invesco S&P 500 Equal Weight Consumer Stapl..	\$100M	\$265M	\$355M	\$471M	\$1,028M
KIE	SPDR S&P Insurance ETF	\$67M	\$3M	\$71M	\$73M	\$502M
XRT	SPDR S&P Retail ETF	\$62M	\$136M	\$78M	(\$162M)	\$372M
XPH	SPDR S&P Pharmaceuticals ETF	\$48M	\$37M	\$28M	\$55M	\$243M

## U.S. Sector & Industry Flow Laggards

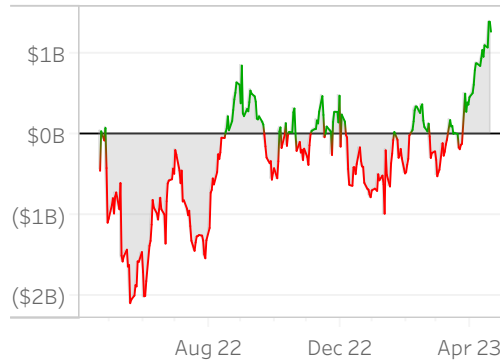
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IYR	iShares U.S. Real Estate ETF	(\$370M)	(\$815M)	(\$423M)	(\$1,452M)	\$2,802M
XLE	Energy Select Sector SPDR Fund	(\$294M)	(\$468M)	(\$1,289M)	(\$1,833M)	\$39,714M
XBI	SPDR S&P BIOTECH ETF	(\$235M)	(\$2,201M)	(\$592M)	\$119M	\$6,529M
VGT	Vanguard Information Technology ETF	(\$114M)	(\$357M)	(\$332M)	(\$955M)	\$45,977M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	(\$105M)	(\$420M)	(\$505M)	(\$1,887M)	\$3,557M
KRE	SPDR S&P Regional Banking ETF	(\$99M)	\$1,504M	\$550M	(\$382M)	\$3,078M
IBB	iShares Biotechnology ETF	(\$80M)	(\$600M)	\$6M	(\$410M)	\$8,215M
XLK	Technology Select Sector SPDR Fund	(\$74M)	(\$2,051M)	(\$1,981M)	(\$2,023M)	\$42,961M
IHF	iShares U.S. Healthcare Providers ETF	(\$51M)	(\$239M)	(\$359M)	(\$122M)	\$1,142M
KBE	SPDR S&P Bank ETF	(\$46M)	(\$3M)	(\$411M)	(\$784M)	\$1,409M

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

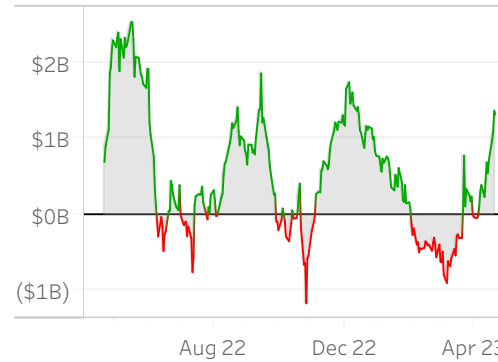
Communication Services



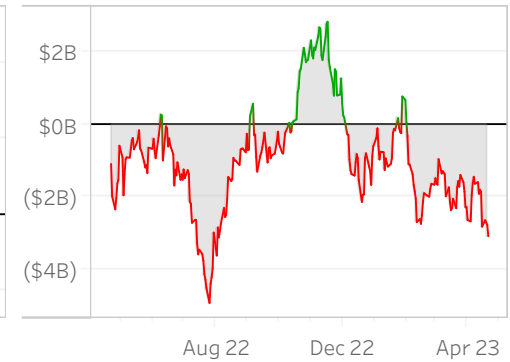
Consumer Discretionary



Consumer Staples



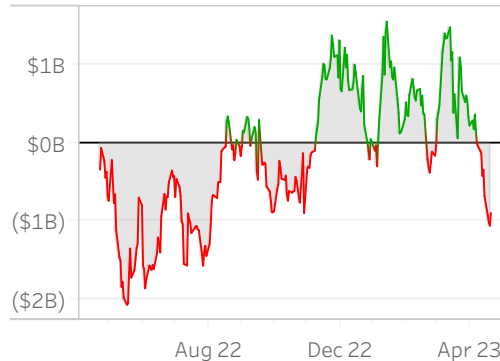
Energy



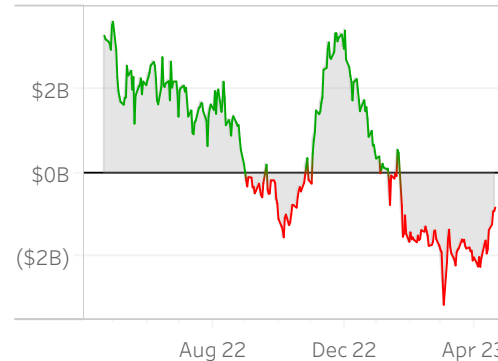
Financials



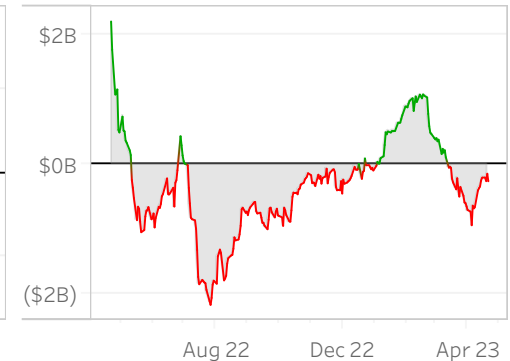
Industrial



Health Care



Materials



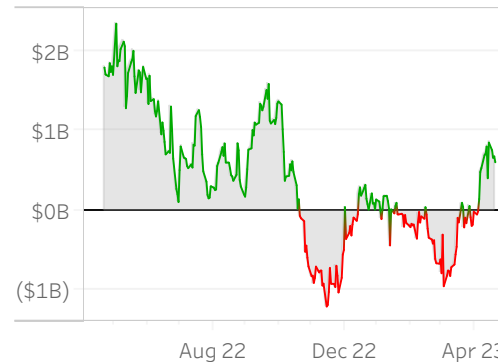
Real Estate



Technology



Utilities

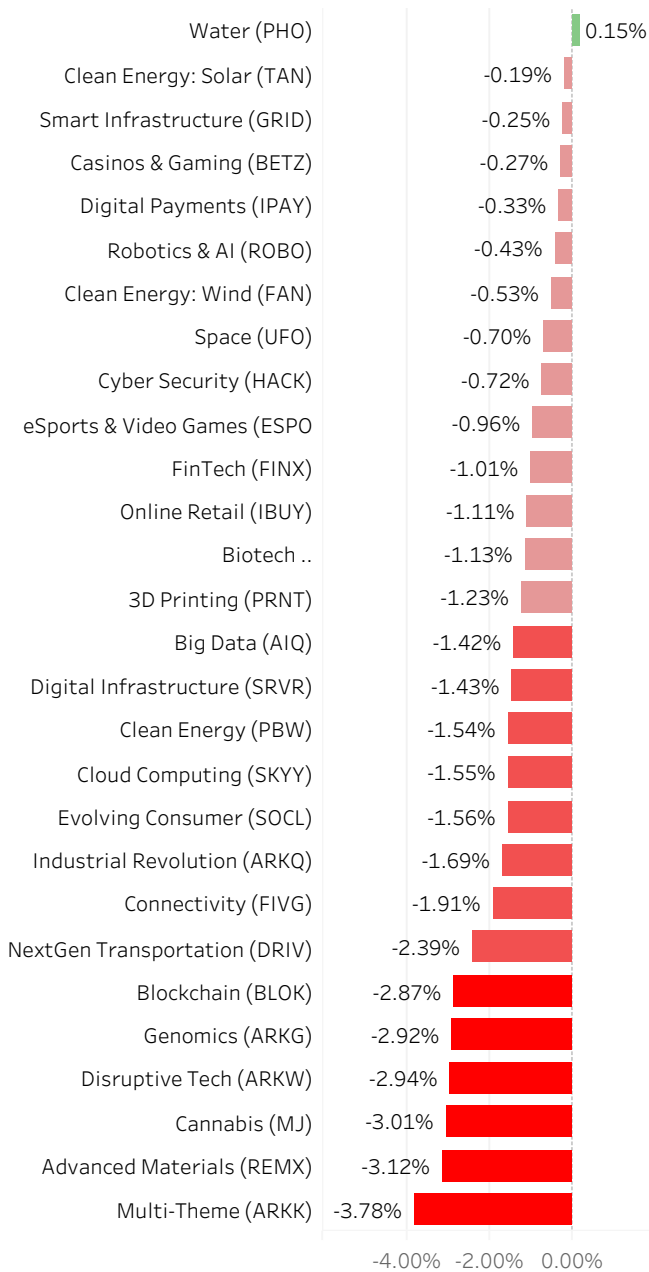


Multi-Sector

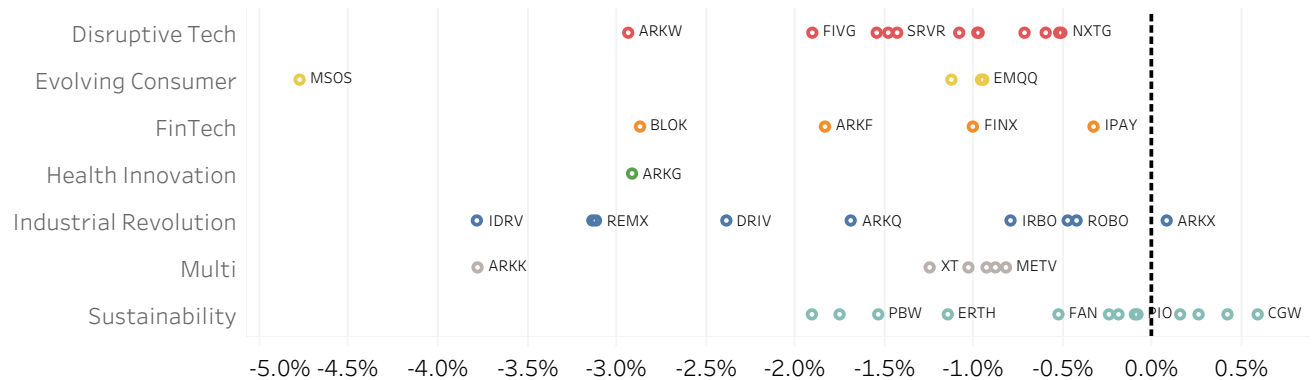


\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
BJK	VanEck Gaming ETF	1.08%
CGW	Invesco S&P Global Water Index ETF	0.59%
PAWZ	ProShares Pet Care ETF	0.55%
CNRG	SPDR S&P Kensho Clean Power ETF	0.42%
FIW	First Trust Water ETF	0.26%
PHO	Invesco Water Resources ETF	0.15%
KLDW	Knowledge Leaders Developed World ETF	0.14%
ARKX	ARK Space Exploration & Innovation ETF	0.08%
PIO	Invesco Global Water ETF	-0.09%
ICLN	iShares Global Clean Energy ETF	-0.10%

Thematic Most Overbought

Ticker	Fund	Price
BJK	VanEck Gaming ETF	69.49
AGNG	Global X Aging Population ETF	69.37
GDOC	Goldman Sachs Future Health Care Equity ETF	64.14
SBIO	ALPS Medical Breakthroughs ETF	62.43
PAWZ	ProShares Pet Care ETF	61.66
BETZ	Roundhill Sports Betting & iGaming ETF	61.31
KLDW	Knowledge Leaders Developed World ETF	60.38
BTEC	Principal Healthcare Innovators ETF	57.87
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure ..	57.84
MILN	Global X Millennial Consumer ETF	57.59

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
BKCH	Global X Blockchain ETF	-6.79%
BITQ	Bitwise Crypto Industry Innovators ETF	-6.54%
MSOS	AdvisorShares Pure US Cannabis ETF	-4.78%
IDRV	iShares Self-driving EV & Tech ETF	-3.79%
ARKK	ARK Innovation ETF	-3.78%
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	-3.17%
LIT	Global X Lithium & Battery Tech ETF	-3.14%
REMX	VanEck Rare Earth/Strategic Metals ETF	-3.12%
MJ	ETFMG Alternative Harvest ETF	-3.01%
KARS	KraneShares Electric Vehicles & Future Mobility Index ..	-2.98%

Thematic Most Oversold

Ticker	Fund	Price
MJ	ETFMG Alternative Harvest ETF	29.61
MJUS	ETFMG U.S. Alternative Harvest ETF	33.11
MSOS	AdvisorShares Pure US Cannabis ETF	34.78
FIVG	Defiance Next Gen Connectivity ETF	36.24
HAIL	SPDR S&P Kensho Smart Mobility ETF	37.59
FDRV	Fidelity Electric Vehicles and Future Transportation ETF	39.33
PBW	Invesco WilderHill Clean Energy ETF	39.87
ARKQ	ARK Autonomous Technology & Robotics ETF	39.97
IZRL	ARK Israel Innovative Technology ETF	40.00
IDRV	iShares Self-driving EV & Tech ETF	40.70

\* 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	
ARKK	ARK Innovation ETF	\$97M
CGW	Invesco S&P Global Water Index ETF	\$51M
ARKG	ARK Genomic Revolution ETF	\$40M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$15M
IRBO	iShares Robotics and Artificial Intelligence Multisector ETF	\$6M
AIQ	Global X Artificial Intelligence & Technology ETF	\$5M
FIW	First Trust Water ETF	\$4M
ACES	ALPS Clean Energy ETF	\$3M
KOMP	SPDR S&P Kensho New Economies Composite ETF	\$3M
IBUY	Amplify Online Retail ETF	\$2M

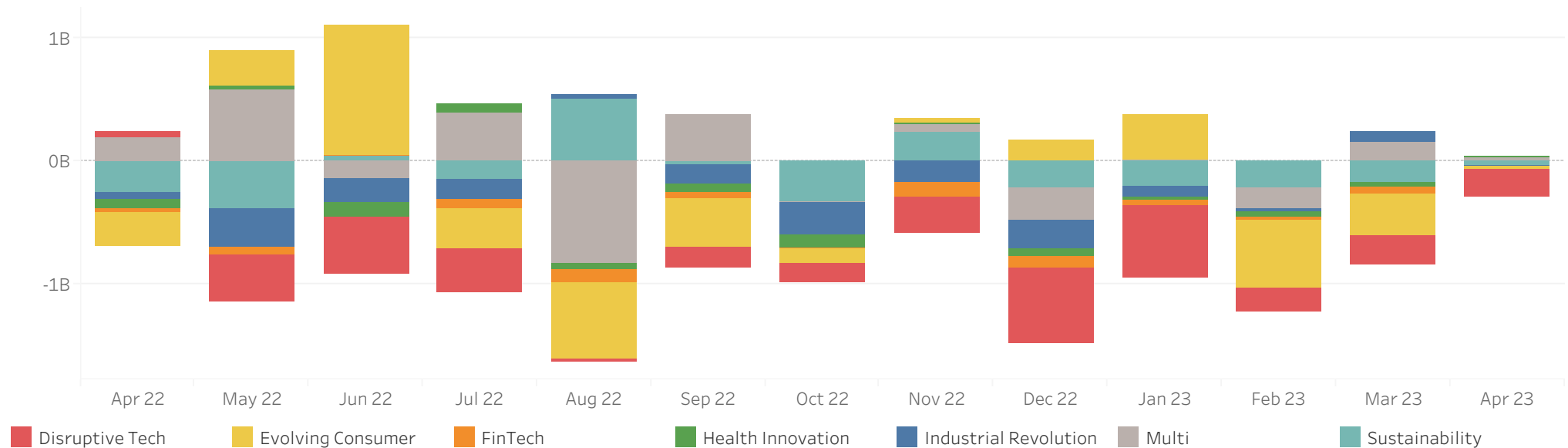
## Thematic 1 Week Flow Laggards

Ticker	Fund	
LIT	Global X Lithium & Battery Tech ETF	(\$20M)
ICLN	iShares Global Clean Energy ETF	(\$20M)
BOTZ	Global X Robotics & Artificial Intelligence ETF	(\$18M)
PBW	Invesco WilderHill Clean Energy ETF	(\$13M)
BUG	Global X Cybersecurity ETF	(\$13M)
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	(\$10M)
HACK	ETFMG Prime Cyber Security ETFMG Prime Cyber Security Fund	(\$7M)
SKYY	First Trust Cloud Computing ETF	(\$7M)
CIBR	First Trust NASDAQ Cybersecurity ETF	(\$6M)
TAN	Invesco Solar ETF	(\$6M)

## Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	34	\$15B	(\$49M)	(\$842M)	(\$2,193M)	(\$3,628M)
Evolving Consumer	44	\$9B	(\$1M)	(\$768M)	(\$338M)	(\$736M)
FinTech	19	\$3B	\$0M	(\$98M)	(\$342M)	(\$664M)
Health Innovation	19	\$3B	\$51M	(\$84M)	(\$188M)	(\$471M)
Industrial Revolution	31	\$11B	(\$36M)	\$45M	(\$538M)	(\$1,573M)
Multi	41	\$15B	\$85M	\$85M	(\$24M)	\$413M
Sustainability	40	\$17B	\$23M	(\$459M)	(\$777M)	(\$1,183M)
Grand Total	228	\$72B	\$73M	(\$2,120M)	(\$4,399M)	(\$7,843M)

## Thematic Monthly Flows

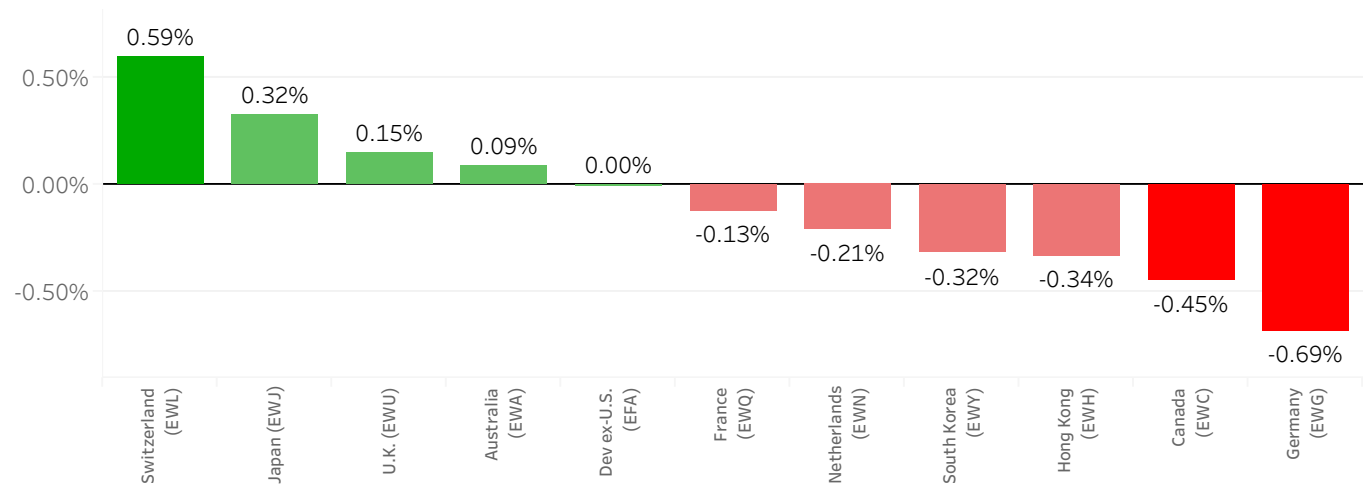


\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

Developed ex-U.S. (EFA)



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



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



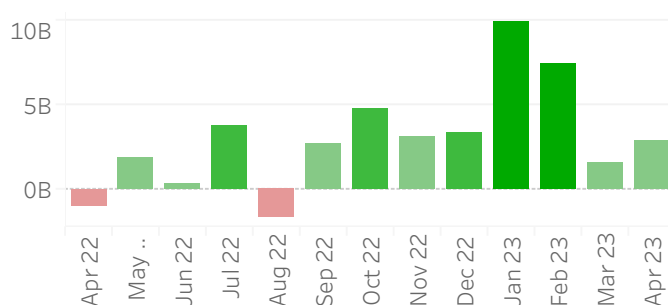
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	Performance
DFJ	WisdomTree Japan SmallCap Dividend Fund	0.91%
SCJ	iShares MSCI Japan Small-Cap ETF	0.85%
EWL	iShares MSCI Switzerland ETF	0.59%
FLSW	Franklin FTSE Switzerland ETF	0.52%
FSZ	First Trust Switzerland AlphaDEX Fund	0.47%
IDLV	Invesco S&P International Developed Low Volatility ETF	0.47%
FLJP	Franklin FTSE Japan ETF	0.46%
BBJP	JPMorgan BetaBuilders Japan ETF	0.44%
EFG	iShares MSCI EAFE Growth ETF	0.36%
JPNX	iShares JPX-Nikkei 400 ETF	0.34%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
EWL	iShares MSCI Switzerland ETF	76.57
FLSW	Franklin FTSE Switzerland ETF	76.24
EFAV	iShares MSCI EAFE Min Vol Factor ETF	72.60
EUDG	WisdomTree Europe Quality Dividend Growth Fund	71.95
IMFL	Invesco International Developed Dynamic Multifactor ETF	71.79
QLVD	FlexShares Developed Markets ex-US Quality Low Volatility ETF	70.64
FLGB	Franklin FTSE United Kingdom ETF	69.03
FSZ	First Trust Switzerland AlphaDEX Fund	68.70
EWQ	iShares MSCI France ETF	68.32
BBEU	JPMorgan BetaBuilders Europe ETF	67.99

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	Performance
ENZL	iShares MSCI New Zealand ETF	-1.31%
EIS	iShares MSCI Israel ETF	-0.91%
ISRA	VanEck Israel ETF	-0.90%
FEP	First Trust Europe AlphaDEX Fund	-0.81%
IDOG	ALPS International Sector Dividend Dogs ETF	-0.79%
DAX	Global X DAX Germany ETF	-0.73%
EWI	iShares MSCI Italy ETF	-0.73%
ICOW	Pacer Developed Markets International Cash Cows 100 ETF	-0.72%
DFE	WisdomTree Europe SmallCap Dividend Fund	-0.71%
EWG	iShares MSCI Germany ETF	-0.69%

Developed ex-U.S. Most Oversold

Ticker	Fund	Value
EIS	iShares MSCI Israel ETF	35.89
ISRA	VanEck Israel ETF	42.94
ENZL	iShares MSCI New Zealand ETF	43.57
MINV	Matthews Asia Innovators Active ETF	44.02
AIA	iShares Asia 50 ETF	44.94
NORW	Global X MSCI Norway ETF	49.19
AAXJ	iShares MSCI All Country Asia ex Japan ETF	49.21
EWH	iShares MSCI Hong Kong ETF	49.22
IVAL	Alpha Architect International Quantitative Value ETF	52.79
FYLD	Cambria Foreign Shareholder Yield ETF	53.84

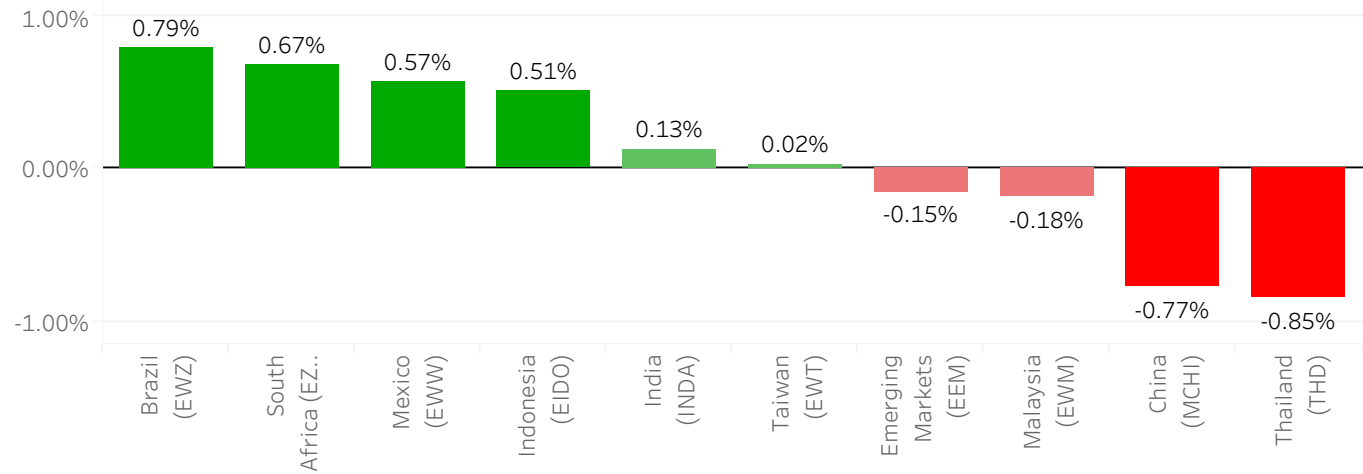
\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



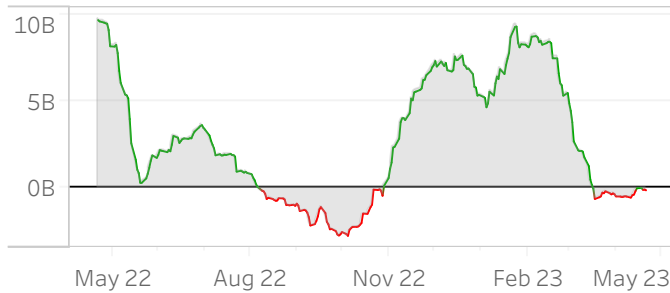
Emerging (EEM)



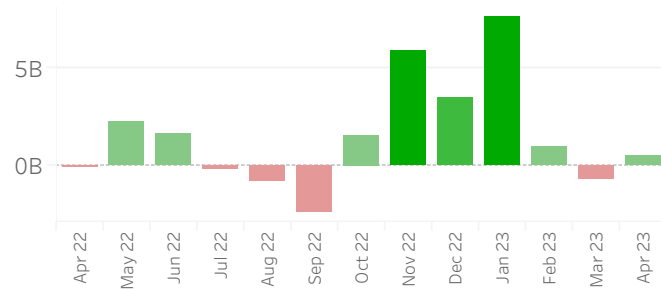
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
EPHE	iShares MSCI Philippines ETF	1.71%
EPOL	iShares MSCI Poland ETF	1.29%
EWZS	iShares MSCI Brazil Small-Cap ETF	1.03%
EWZ	iShares MSCI Brazil ETF	0.79%
FLBR	Franklin FTSE Brazil ETF	0.79%
EZA	iShares MSCI South Africa ETF	0.67%
EWW	iShares MSCI Mexico ETF	0.57%
ILF	iShares Latin America 40 ETF	0.53%
FLLA	Franklin FTSE Latin America ETF	0.53%
EIDO	iShares MSCI Indonesia ETF	0.51%

Emerging Most Overbought

Ticker	Fund	Value
EPOL	iShares MSCI Poland ETF	74.66
EPOL	iShares MSCI Poland ETF	66.14
KSA	iShares MSCI Saudi Arabia ETF	65.91
EDIV	SPDR S&P Emerging Markets Dividend ETF	64.12
UEVM	VictoryShares Emerging Markets Value Momentum E..	63.53
ECOW	Pacer Emerging Markets Cash Cows 100 ETF	62.75
KWT	iShares MSCI Kuwait ETF	61.87
EEMV	iShares MSCI Emerging Markets Min Vol Factor ETF	61.86
FEM	First Trust Emerging Markets AlphaDEX Fund	61.21
DFEV	Dimensional Emerging Markets Value ETF	60.99

Emerging 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
ECNS	iShares MSCI China Small-Cap ETF	-1.54%
PGJ	Invesco Golden Dragon China ETF	-1.46%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	-1.13%
FLCH	Franklin FTSE China ETF	-1.08%
KBA	KraneShares Bosera MSCI China A 50 Connect Index ETF	-1.07%
RAYC	Rayliant Quantamental China Equity ETF	-1.03%
THD	iShares MSCI Thailand ETF	-0.85%
MCHI	iShares MSCI China ETF	-0.77%
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fund	-0.77%
EYLD	Cambria Emerging Shareholder Yield ETF	-0.66%

Emerging Most Oversold

Ticker	Fund	Value
THD	iShares MSCI Thailand ETF	39.08
QAT	iShares MSCI Qatar ETF	41.70
PGJ	Invesco Golden Dragon China ETF	42.00
EWT	iShares MSCI Taiwan ETF	42.33
FLTW	Franklin FTSE Taiwan ETF	42.60
EPHE	iShares MSCI Philippines ETF	42.61
ECNS	iShares MSCI China Small-Cap ETF	43.50
FEMS	First Trust Emerging Markets Small Cap AlphaDEX F..	44.17
VNM	VanEck Vietnam ETF	44.97
EWM	iShares MSCI Malaysia ETF	45.02

\*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	0.46%	0.49%	3.18%
SHY	1-3 Year Treasury Bonds	0.24%	0.00%	1.62%
IEF	7-10 Year Treasury Bonds	0.58%	0.15%	3.80%
TLT	20+ Year Treasury Bonds	0.85%	-0.62%	6.25%
TIP	TIPS Bonds	0.32%	1.01%	3.17%
FLOT	Floating Rate Bonds	0.08%	1.55%	1.60%
LQD	Investment Grade Corporate	0.38%	1.48%	4.33%
HYG	High Yield Corporate	-0.09%	2.64%	3.11%
BKLN	Senior Loan	-0.05%	2.69%	4.12%
PFF	Preferred & Income Securities	-0.11%	5.68%	4.54%
MUB	Municipal Bonds	0.18%	0.39%	2.08%
MBB	MBS	0.59%	0.47%	2.68%
EMB	Dollar Denominated EM Bonds	-0.12%	1.13%	1.49%
LEMB	Local Currency EM Bond	0.34%	1.82%	3.11%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-1.05%	4.45%	-5.40%
DBE	Energy	-2.13%	5.39%	-9.70%
USO	WTI Crude Oil	-2.45%	13.06%	-3.58%
BNO	Brent Crude Oil	-2.42%	10.45%	-4.35%
UNG	Natural Gas	0.43%	-5.90%	-50.21%
UGA	Gasoline	-1.87%	4.90%	-1.27%
DBP	Precious Metals	0.26%	3.39%	8.56%
GLD	Gold	0.39%	1.22%	9.70%
SLV	Silver	-0.26%	11.99%	5.22%
PPLT	abrdn Physical Platin..	0.00%	10.52%	1.72%
PALL	abrdn Physical Palla..	-1.28%	12.83%	-11.01%
DBB	Base Metals	-0.95%	1.38%	1.75%
CPER	Copper	-1.12%	1.82%	6.58%
LD	Lead	1.00%	2.72%	-6.02%
JJN	Nickel	-2.28%	9.51%	-16.68%
JJU	Aluminum	-1.11%	6.18%	0.25%
JJT	Tin	-1.40%	17.01%	7.18%
DBA	Agriculture	-0.14%	6.36%	4.62%
CORN	Corn	-1.15%	0.48%	-7.65%
SOYB	Soybeans	-0.66%	-0.33%	-5.26%
WEAT	Wheat	-1.44%	-2.98%	-14.41%
CANE	Sugar	4.11%	24.03%	37.04%
BAL	Cotton	-3.98%	4.20%	-3.18%
NIB	Cocoa	-0.74%	10.63%	19.52%
JO	Coffee	-2.48%	10.34%	18.67%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	0.00%	-0.93%	-0.11%
UDN	Short Dollar	0.05%	1.50%	2.27%
FXE	Euro	0.03%	2.37%	2.71%
FXB	British Pound Sterling	-0.02%	1.44%	3.69%
FXF	Swiss Franc	0.49%	3.98%	3.32%
FXJ	Japanese Yen	0.38%	-2.16%	-2.46%
FXC	Canadian Dollar	-0.10%	1.62%	1.09%
FXA	Australian Dollar	0.28%	0.33%	-0.82%

\*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)