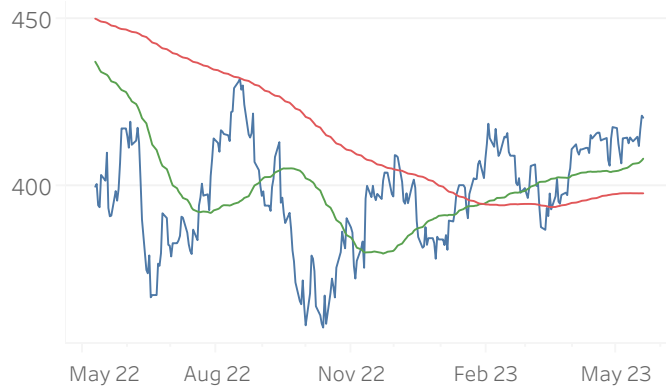


Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

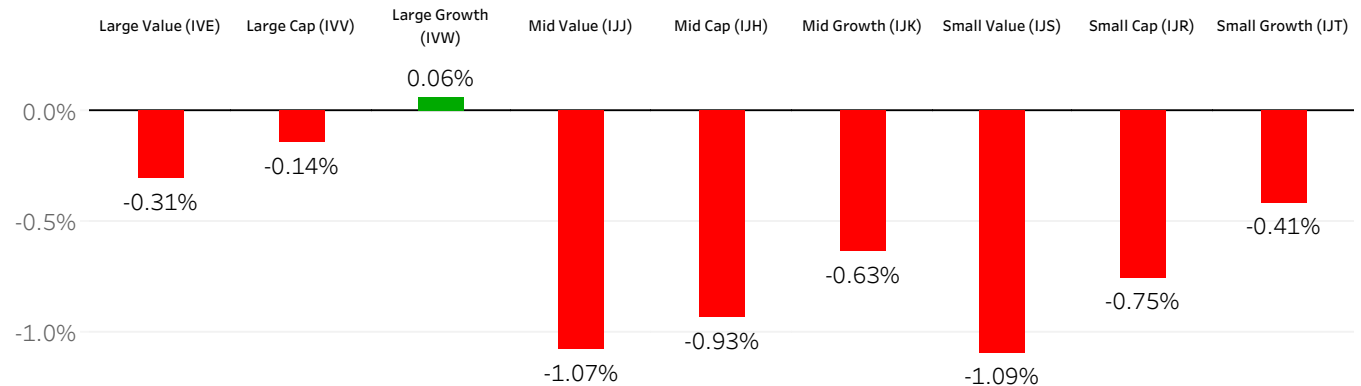


Small Cap Blend (S&P 600) IJR



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

U.S. Size & Style 1-Day Performance



Size & Style 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
ABEQ	Absolute Select Value ETF	0.49%
HDV	iShares Core High Dividend ETF	0.44%
MTUM	iShares MSCI USA Momentum Factor ETF	0.41%
SPMO	Invesco S&P 500 Momentum ETF	0.40%
CWS	AdvisorShares Focused Equity ETF	0.26%
DURA	VanEck Durable High Dividend ETF	0.21%
FDL	First Trust Morningstar Dividend Leaders Index Fund	0.21%
SIXA	ETC 6 Meridian Mega Cap Equity ETF	0.20%
HUSV	First Trust Horizon Managed Volatility Domestic ETF	0.19%
RPG	Invesco S&P 500 Pure Growth ETF	0.18%

Size & Style Most Overbought

Ticker	Fund	Price
SPC	CrossingBridge Pre-Merger SPAC ETF	72.51
PTNQ	Pacer Trendpilot 100 ETF	72.06
QQH	HCM Defender 100 Index ETF	71.54
QQQ	Invesco QQQ Trust	71.44
QQQM	Invesco NASDAQ 100 ETF	71.26
IWY	iShares Russell Top 200 Growth ETF	71.24
WINN	Harbor Long-Term Growers ETF	71.24
MGK	Vanguard Mega Cap Growth ETF	71.23
TMFC	Motley Fool 100 Index ETF	71.01
SCHG	Schwab U.S. Large-Cap Growth ETF	70.62

Size & Style 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
RFV	Invesco S&P Midcap 400 Pure Value ETF	-1.97%
AIEQ	AI Powered Equity ETF	-1.55%
IPO	Renaissance IPO ETF	-1.53%
RZV	Invesco S&P Smallcap 600 Pure Value ETF	-1.49%
FNK	First Trust Mid Cap Value AlphaDEX Fund	-1.42%
XMVM	Invesco S&P MidCap Value with Momentum ETF	-1.33%
SVAL	iShares US Small Cap Value Factor ETF	-1.32%
AVUV	Avantis U.S. Small Cap Value ETF	-1.26%
RWK	Invesco S&P MidCap 400 Revenue ETF	-1.25%
EZM	WisdomTree U.S. MidCap Fund	-1.23%

Size & Style Most Oversold

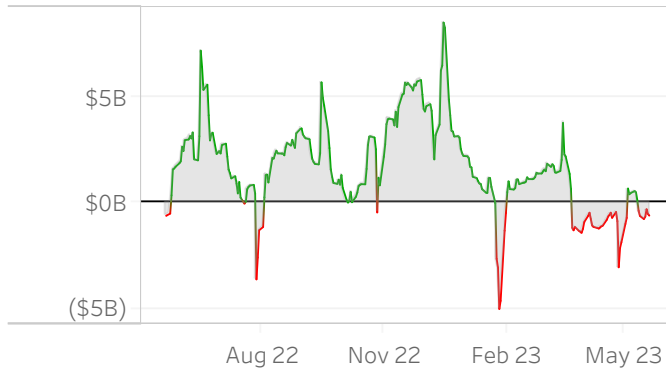
Ticker	Fund	Price
LVHD	Franklin U.S. Low Volatility High Dividend Index ETF	38.28
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	38.52
CDC	VictoryShares US EQ Income Enhanced Volatility Wt..	38.54
PEY	Invesco High Yield Equity Dividend Achievers ETF	38.55
ALTL	Pacer Lunt Large Cap Alternator ETF	38.65
DVY	iShares Select Dividend ETF	38.76
DIVZ	TrueShares Low Volatility Equity Income ETF	39.18
SPYD	SPDR Portfolio S&P 500 High Dividend ETF	39.70
SDOG	ALPS Sector Dividend Dogs ETF	40.28
CDL	VictoryShares US Large Cap High Dividend Volatility ..	40.30

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

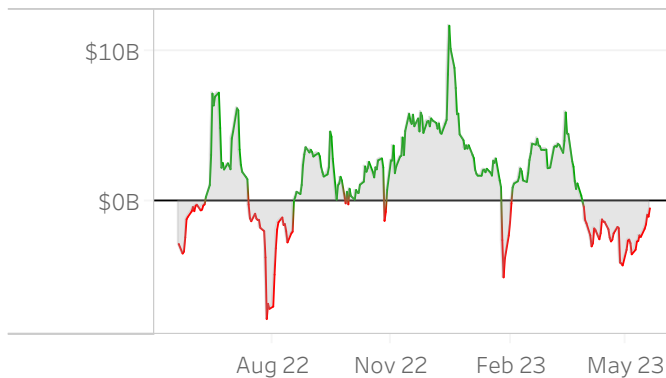
Large-Cap 30-Day Rolling Flows



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	26	\$1,322B	\$2.42B	\$13.82B	(\$16.59B)	\$60.08B
Large Cap, Beta, Beta: Growth	10	\$256B	\$0.24B	\$3.76B	\$5.20B	\$19.21B
Large Cap, Beta, Beta: Value	11	\$214B	(\$3.27B)	(\$8.68B)	(\$8.52B)	(\$2.76B)
Mid Cap, Beta, Beta	10	\$182B	\$0.12B	(\$0.58B)	\$2.14B	\$9.22B
Mid Cap, Beta, Beta: Growth	6	\$33B	(\$0.01B)	\$0.35B	(\$0.41B)	\$1.05B
Mid Cap, Beta, Beta: Value	6	\$38B	(\$0.06B)	(\$1.08B)	(\$0.81B)	\$1.10B
Small Cap, Beta, Beta	13	\$187B	\$1.95B	(\$2.62B)	(\$0.74B)	\$4.58B
Small Cap, Beta, Beta: Growth	7	\$32B	\$0.03B	(\$0.05B)	\$0.11B	\$0.82B
Small Cap, Beta, Beta: Value	7	\$47B	(\$0.13B)	(\$1.29B)	(\$0.39B)	(\$0.58B)

U.S. Size & Style Flow Leaders

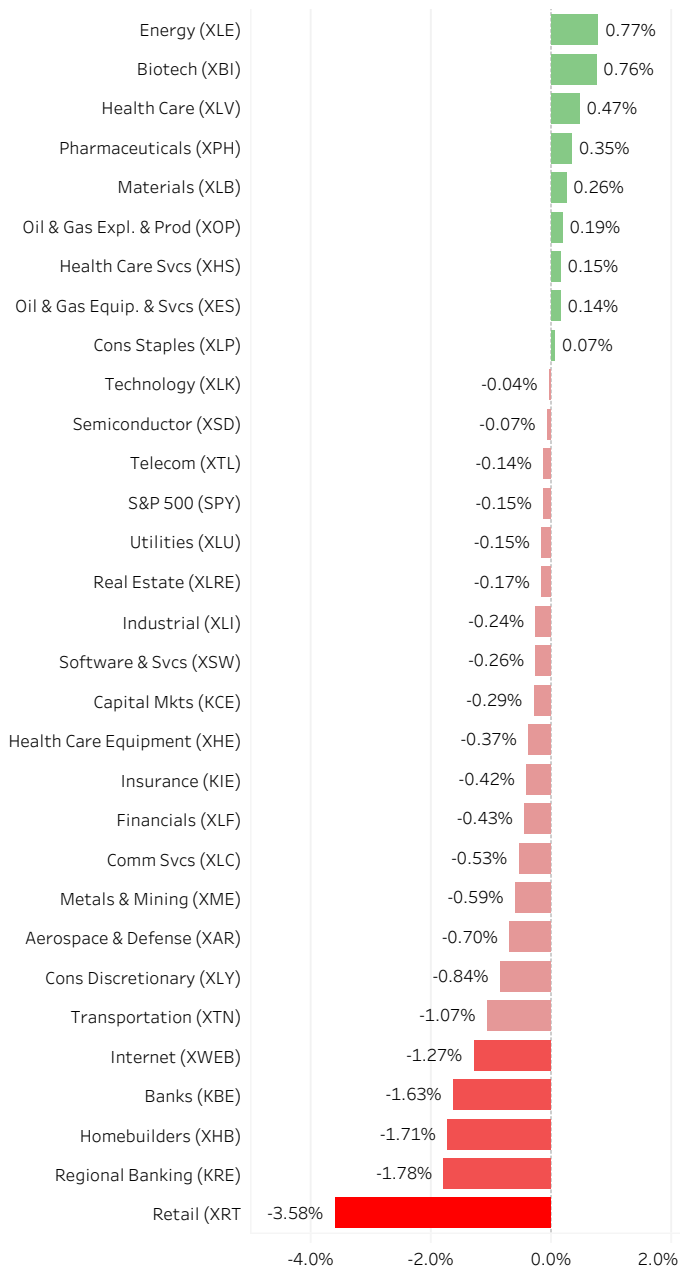
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IWM	iShares Russell 2000 ETF	\$2.02B	(\$1.93B)	(\$3.52B)	(\$1.78B)	\$50.09B
SPY	SPDR S&P 500 ETF Trust	\$1.95B	\$6.59B	(\$10.01B)	\$8.87B	\$389.53B
VOO	Vanguard S&P 500 ETF	\$0.51B	\$7.16B	\$5.78B	\$32.29B	\$296.66B
VO	Vanguard Mid-Cap ETF	\$0.28B	(\$0.51B)	\$0.36B	\$2.24B	\$50.86B
QUAL	iShares MSCI USA Quality Factor ETF	\$0.23B	\$9.30B	\$9.04B	\$7.15B	\$29.37B
JEPQ	J.P. Morgan Nasdaq Equity Premium Income ..	\$0.20B	\$1.08B	\$1.89B	\$2.67B	\$2.88B
VTI	Vanguard Total Stock Market ETF	\$0.20B	\$2.71B	\$7.31B	\$20.69B	\$289.82B
USMV	iShares MSCI USA Min Vol Factor ETF	\$0.12B	(\$0.78B)	(\$1.69B)	\$1.50B	\$28.70B
SPYG	SPDR Portfolio S&P 500 Growth ETF	\$0.09B	\$1.07B	\$2.01B	\$4.42B	\$17.03B
MOAT	VanEck Morningstar Wide Moat ETF	\$0.09B	\$0.71B	\$1.00B	\$1.05B	\$8.36B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VTV	Vanguard Value ETF	(\$3.08B)	(\$4.03B)	(\$3.69B)	(\$0.56B)	\$96.67B
SPLV	Invesco S&P 500 Low Volatility ETF	(\$0.35B)	(\$0.28B)	(\$0.47B)	(\$0.42B)	\$9.67B
IWD	iShares Russell 1000 Value ETF	(\$0.20B)	(\$1.88B)	(\$4.08B)	(\$3.68B)	\$49.21B
VB	Vanguard Small-Cap ETF	(\$0.16B)	(\$0.27B)	\$0.81B	\$0.77B	\$42.14B
IVV	iShares Core S&P 500 ETF	(\$0.12B)	(\$2.67B)	(\$7.14B)	\$9.01B	\$312.44B
DVY	iShares Select Dividend ETF	(\$0.09B)	(\$1.03B)	(\$0.45B)	\$0.35B	\$20.11B
MDY	SPDR S&P Midcap 400 ETF Trust	(\$0.08B)	(\$0.13B)	(\$0.01B)	\$0.45B	\$18.55B
IJH	iShares Core S&P Mid-Cap ETF	(\$0.07B)	\$0.30B	\$1.12B	\$4.63B	\$65.45B
IWN	iShares Russell 2000 Value ETF	(\$0.07B)	(\$0.11B)	(\$0.59B)	(\$0.33B)	\$10.84B
SPYV	SPDR Portfolio S&P 500 Value ETF	(\$0.06B)	(\$1.47B)	(\$0.05B)	\$1.25B	\$14.84B

* 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	-0.04%	35.11%	6.28%	15.98%	70.48
XLC	Communication Services Select Sector SPDR Fund	-0.53%	35.23%	6.07%	15.36%	66.02
XLP	Consumer Staples Select Sector SPDR Fund	-2.04%	14.17%	0.94%	3.17%	46.42
SPY	SPDR S&P 500 ETF Trust	-2.58%	17.41%	2.92%	5.73%	60.74
XLI	Industrial Select Sector SPDR Fund	-3.75%	20.45%	0.77%	2.58%	52.62
XLV	Health Care Select Sector SPDR Fund	-6.27%	9.53%	0.08%	0.12%	44.96
XLB	Materials Select Sector SPDR Fund	-10.77%	16.80%	-0.54%	0.29%	47.05
XLF	Financial Select Sector SPDR Fund	-11.89%	7.63%	1.26%	-3.58%	52.19
XLY	Consumer Discretionary Select Sector SPDR Fund	-12.38%	20.03%	3.96%	4.29%	61.42
XLE	Energy Select Sector SPDR Fund	-15.35%	18.00%	-2.88%	-5.59%	44.60
XLU	Utilities Select Sector SPDR Fund	-15.37%	7.46%	-2.74%	-4.57%	34.45
XLRE	Real Estate Select Sector SPDR Fund	-20.84%	7.23%	-1.51%	-5.19%	42.49

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
PBE	Invesco Dynamic Biotechnology & Genome ETF	1.54%
FBT	First Trust NYSE Arca Biotechnology Index Fund	1.09%
BIZD	VanEck BDC Income ETF	0.90%
IBB	iShares Biotechnology ETF	0.86%
IHE	iShares U.S. Pharmaceuticals ETF	0.84%
XLE	Energy Select Sector SPDR Fund	0.77%
XBI	SPDR S&P BIOTECH ETF	0.76%
IYE	iShares U.S. Energy ETF	0.70%
VDE	Vanguard Energy ETF	0.70%
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	0.68%

Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
IETC	iShares U.S. Tech Independence Focused ETF	74.44
IYW	iShares U.S. Technology ETF	73.56
IGM	iShares Expanded Tech Sector ETF	72.08
PSCT	Invesco S&P SmallCap Information Technology ETF	70.93
XLK	Technology Select Sector SPDR Fund	70.48
IGV	iShares Expanded Tech-Software Sector ETF	69.76
VGT	Vanguard Information Technology ETF	69.38
XNTK	SPDR NYSE Technology ETF	69.26
FTEC	Fidelity MSCI Information Technology Index ETF	69.05
QTEC	First Trust NASDAQ-100 Technology Sector Index Fund	68.70

Sector & Industry 1 Day Performance Laggards

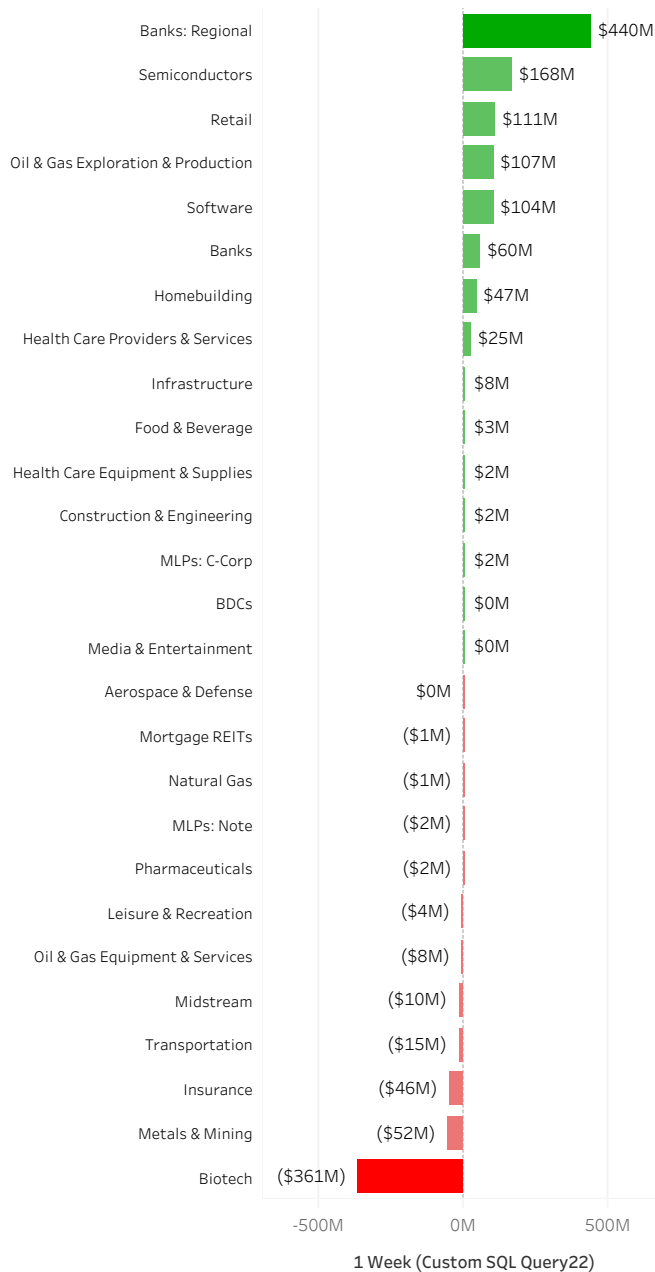
Ticker	Fund	1 Day Performance
XRT	SPDR S&P Retail ETF	-3.58%
QABA	First Trust NASDAQ ABA Community Bank Index Fund	-1.99%
ITB	iShares U.S. Home Construction ETF	-1.83%
FXD	First Trust Consumer Discretionary AlphaDEX Fund	-1.80%
KBWR	Invesco KBW Regional Banking ETF	-1.79%
KRE	SPDR S&P Regional Banking ETF	-1.78%
XHB	SPDR S&P Homebuilders ETF	-1.71%
KBE	SPDR S&P Bank ETF	-1.63%
PKB	Invesco Dynamic Building & Construction ETF	-1.63%
RCD	Invesco S&P 500 Equal Weight Consumer Discretionar..	-1.38%

Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
FXU	First Trust Utilities AlphaDEX Fund	33.46
FUTY	Fidelity MSCI Utilities Index ETF	34.05
RYU	Invesco S&P 500 Equal Weight Utilities ETF	34.07
XLU	Utilities Select Sector SPDR Fund	34.45
VPU	Vanguard Utilities ETF	34.58
IDU	iShares U.S. Utilities ETF	34.62
XME	SPDR S&P Metals & Mining ETF	37.82
XPH	SPDR S&P Pharmaceuticals ETF	39.10
PSR	Invesco Active U.S. Real Estate Fund	39.57
XRT	SPDR S&P Retail ETF	40.50

* 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	\$16B	\$155M	\$1,623M	\$1,712M	\$1,539M
Consumer Discretionary	12	\$23B	\$203M	\$967M	\$399M	(\$171M)
Consumer Staples	10	\$32B	(\$96M)	\$1,507M	\$2,042M	\$3,994M
Energy	32	\$68B	\$324M	(\$4,315M)	(\$7,079M)	(\$8,837M)
Financials	26	\$53B	\$404M	(\$1,771M)	(\$1,652M)	(\$3,853M)
Health Care	23	\$91B	(\$23M)	(\$2,197M)	(\$3,583M)	\$1,993M
Industrial	13	\$31B	(\$24M)	(\$306M)	\$417M	(\$83M)
Materials	9	\$13B	(\$152M)	(\$994M)	\$78M	(\$2,565M)
Multi-Sector	19	\$15B	\$46M	\$507M	(\$188M)	(\$2,123M)
Real Estate	25	\$54B	(\$109M)	(\$2,850M)	(\$3,615M)	(\$6,262M)
Technology	23	\$138B	\$669M	\$1,417M	(\$653M)	\$1,168M
Utilities	9	\$25B	(\$77M)	\$471M	\$196M	\$1,924M

U.S. Sector & Industry Flow Leaders

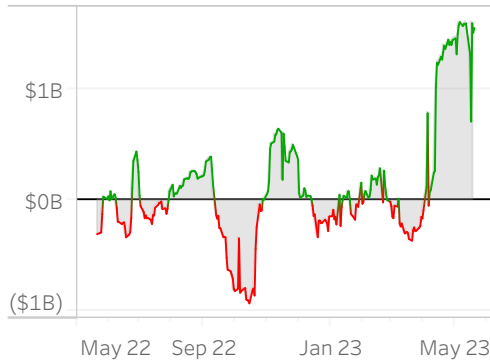
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VGT	Vanguard Information Technology ETF	\$479M	(\$90M)	(\$802M)	(\$174M)	\$48,668M
KRE	SPDR S&P Regional Banking ETF	\$417M	\$1,901M	\$1,295M	\$704M	\$3,243M
XLE	Energy Select Sector SPDR Fund	\$386M	(\$1,405M)	(\$1,914M)	(\$2,573M)	\$35,394M
XLV	Health Care Select Sector SPDR Fund	\$334M	\$5M	(\$184M)	\$2,659M	\$40,122M
SOXX	iShares Semiconductor ETF	\$174M	\$583M	\$472M	\$100M	\$8,103M
XRT	SPDR S&P Retail ETF	\$111M	\$54M	(\$27M)	\$174M	\$432M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	\$109M	(\$71M)	(\$513M)	(\$1,033M)	\$3,348M
IGV	iShares Expanded Tech-Software Sector ETF	\$106M	\$44M	\$106M	\$555M	\$5,445M
XLY	Consumer Discretionary Select Sector SPDR Fu..	\$105M	\$272M	(\$147M)	(\$553M)	\$15,012M
IYW	iShares U.S. Technology ETF	\$97M	\$840M	\$886M	\$2,689M	\$11,383M

U.S. Sector & Industry Flow Laggards

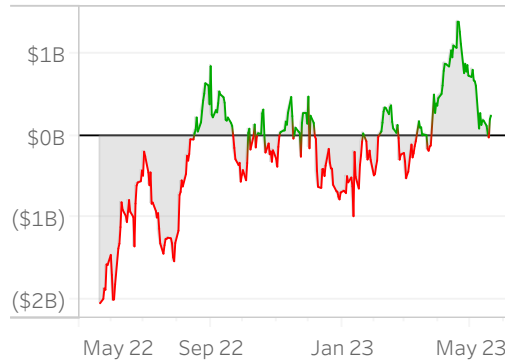
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XBI	SPDR S&P BIOTECH ETF	(\$356M)	(\$1,205M)	(\$1,670M)	(\$546M)	\$6,339M
XLK	Technology Select Sector SPDR Fund	(\$214M)	(\$1,544M)	(\$3,033M)	(\$1,981M)	\$44,957M
XLP	Consumer Staples Select Sector SPDR Fund	(\$115M)	\$1,140M	\$1,358M	\$2,452M	\$18,624M
XLU	Utilities Select Sector SPDR Fund	(\$99M)	\$739M	\$293M	\$1,598M	\$15,614M
VNQ	Vanguard Real Estate ETF	(\$79M)	(\$1,318M)	(\$1,824M)	(\$3,512M)	\$31,280M
VDE	Vanguard Energy ETF	(\$73M)	(\$352M)	(\$491M)	(\$758M)	\$7,174M
XME	SPDR S&P Metals & Mining ETF	(\$52M)	(\$485M)	(\$100M)	(\$549M)	\$1,702M
FXN	First Trust Energy AlphaDEX Fund	(\$45M)	(\$241M)	(\$1,184M)	(\$1,081M)	\$575M
XLB	Materials Select Sector SPDR Fund	(\$39M)	(\$275M)	\$156M	(\$958M)	\$5,416M
FXZ	First Trust Materials AlphaDEX Fund	(\$24M)	(\$120M)	\$104M	(\$110M)	\$1,502M

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

Communication Services



Consumer Discretionary



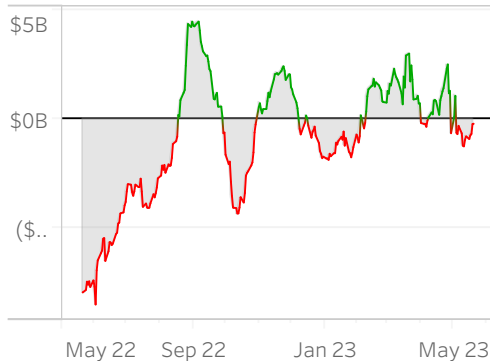
Consumer Staples



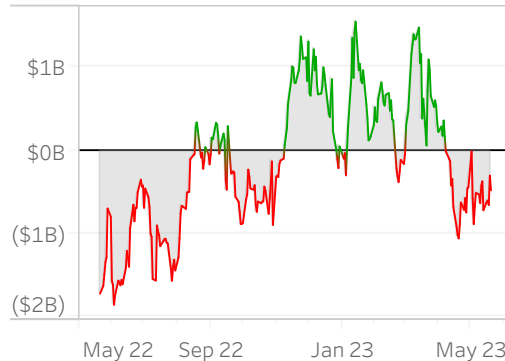
Energy



Financials



Industrial



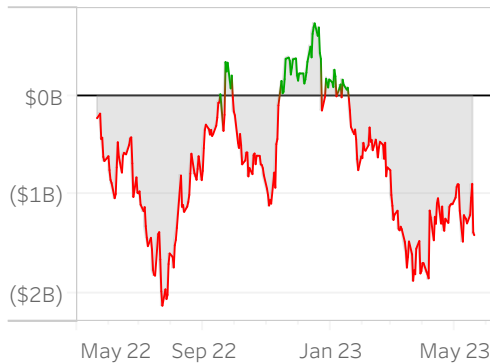
Health Care



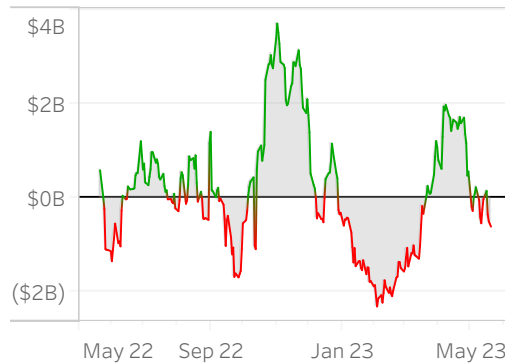
Materials



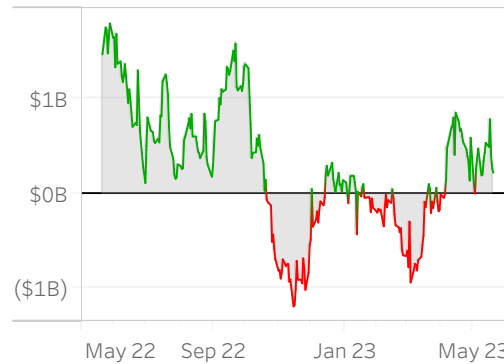
Real Estate



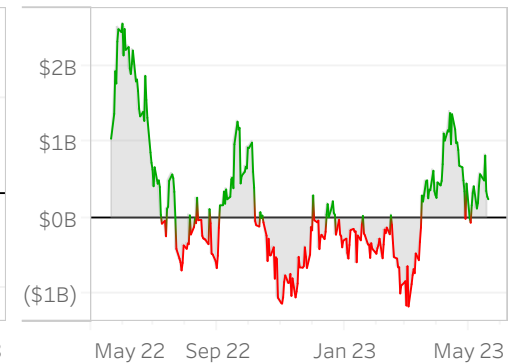
Technology



Utilities

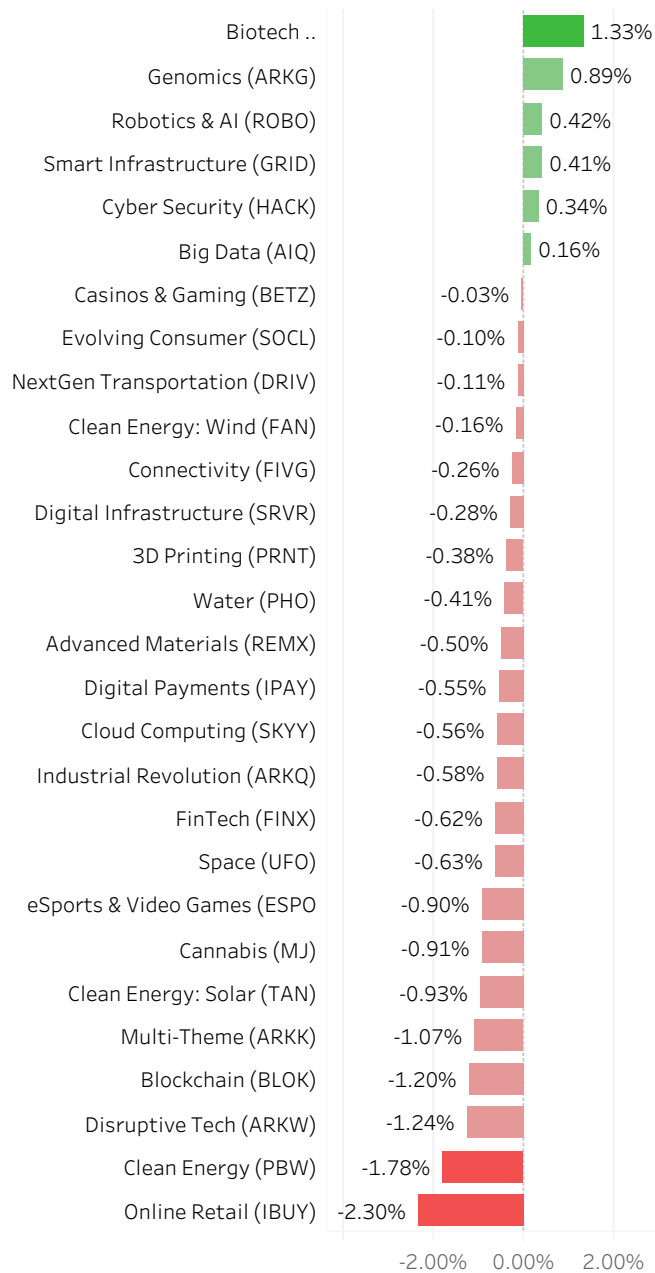


Multi-Sector

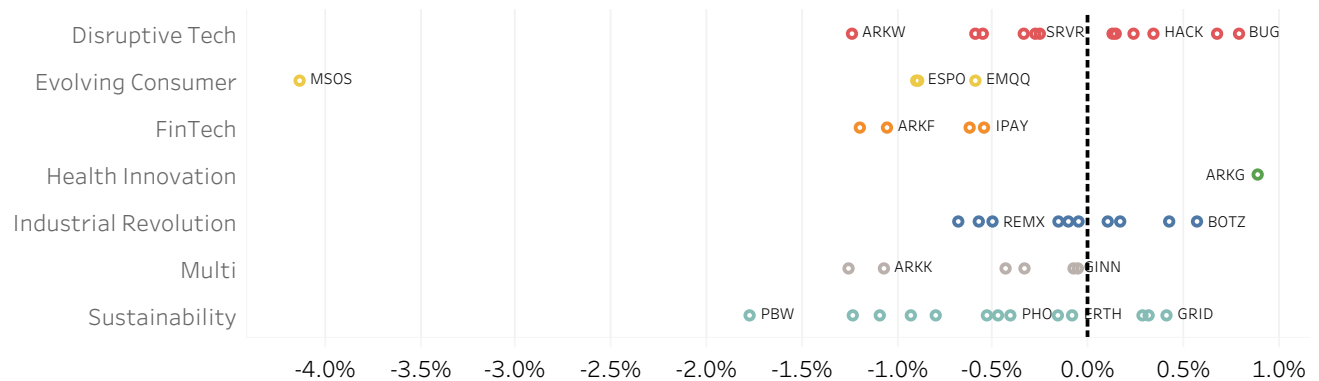


*ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	Performance
SBIO	ALPS Medical Breakthroughs ETF	1.33%
BTEC	Principal Healthcare Innovators ETF	1.07%
ARKG	ARK Genomic Revolution ETF	0.89%
BUG	Global X Cybersecurity ETF	0.79%
AGNG	Global X Aging Population ETF	0.75%
CIBR	First Trust NASDAQ Cybersecurity ETF	0.67%
LEGR	First Trust Indxx Innovative Transaction & Process ETF	0.65%
BITQ	Bitwise Crypto Industry Innovators ETF	0.60%
BOTZ	Global X Robotics & Artificial Intelligence ETF	0.57%
IDNA	iShares Genomics Immunology and Healthcare ETF	0.56%

Thematic Most Overbought

Ticker	Fund	Price
BOTZ	Global X Robotics & Artificial Intelligence ETF	72.45
TIME	Clockwise Capital Innovation ETF	70.23
AIQ	Global X Artificial Intelligence & Technology ETF	69.44
QTUM	Defiance Quantum ETF	67.96
TECB	iShares U.S. Tech Breakthrough Multisector ETF	67.74
SKYY	First Trust Cloud Computing ETF	66.60
ROBT	First Trust Nasdaq Artificial Intelligence & Robotics ETF	64.36
DTEC	ALPS Disruptive Technologies ETF	63.43
GTEK	Goldman Sachs Future Tech Leaders Equity ETF	63.08
ROBO	ROBO Global Robotics & Automation Index ETF	63.01

Global Thematic 1-Day Performance Laggards

Ticker	Fund	Performance
MSOS	AdvisorShares Pure US Cannabis ETF	-4.14%
MJUS	ETFMG U.S. Alternative Harvest ETF	-3.42%
ONLN	ProShares Online Retail ETF	-2.70%
IBUY	Amplify Online Retail ETF	-2.30%
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	-1.79%
PBW	Invesco WilderHill Clean Energy ETF	-1.78%
MILN	Global X Millennial Consumer ETF	-1.36%
METV	Roundhill Ball Metaverse ETF	-1.26%
ARKW	ARK Next Generation Internet ETF	-1.24%
ACES	ALPS Clean Energy ETF	-1.24%

Thematic Most Oversold

Ticker	Fund	Price
SRVR	Pacer Data & Infrastructure Real Estate ETF	40.03
KWEB	KraneShares CSI China Internet ETF	40.89
EDOC	Global X Telemedicine & Digital Health ETF Registered	41.52
MJUS	ETFMG U.S. Alternative Harvest ETF	42.01
RNRG	Global X Renewable Energy Producers ETF	42.32
TAN	Invesco Solar ETF	42.65
MSOS	AdvisorShares Pure US Cannabis ETF	44.24
PAWZ	ProShares Pet Care ETF	44.31
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	44.50
CTEC	Global X CleanTech ETF	44.79

* 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	
BOTZ	Global X Robotics & Artificial Intelligence ETF	\$43M
ARKK	ARK Innovation ETF	\$22M
ARKG	ARK Genomic Revolution ETF	\$22M
ROBT	First Trust Nasdaq Artificial Intelligence & Robotics ETF	\$17M
AIQ	Global X Artificial Intelligence & Technology ETF	\$10M
KWEB	KraneShares CSI China Internet ETF	\$9M
IRBO	iShares Robotics and Artificial Intelligence Multisector ETF	\$6M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$5M
ERTH	Invesco MSCI Sustainable Future ETF	\$5M
KOMP	SPDR S&P Kensho New Economies Composite ETF	\$5M

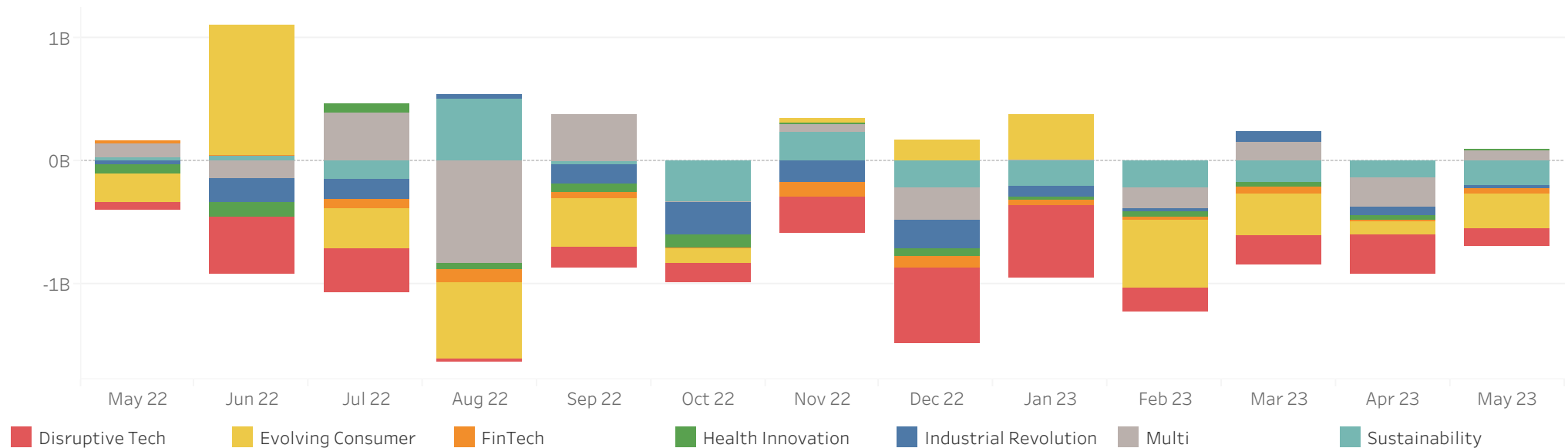
Thematic 1 Week Flow Laggards

Ticker	Fund	
TAN	Invesco Solar ETF	(\$35M)
CIBR	First Trust NASDAQ Cybersecurity ETF	(\$31M)
ICLN	iShares Global Clean Energy ETF	(\$27M)
LIT	Global X Lithium & Battery Tech ETF	(\$13M)
ACES	ALPS Clean Energy ETF	(\$10M)
REMX	VanEck Rare Earth/Strategic Metals ETF	(\$9M)
SNSR	Global X Internet of Things ETF	(\$8M)
ARKW	ARK Next Generation Internet ETF	(\$7M)
FIVG	Defiance Next Gen Connectivity ETF	(\$6M)
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	(\$6M)

Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	34	\$15B	(\$40M)	(\$737M)	(\$2,164M)	(\$3,588M)
Evolving Consumer	43	\$8B	\$7M	(\$929M)	(\$745M)	(\$1,365M)
FinTech	18	\$3B	(\$10M)	(\$157M)	(\$293M)	(\$602M)
Health Innovation	18	\$3B	\$28M	(\$52M)	(\$253M)	(\$527M)
Industrial Revolution	31	\$11B	\$38M	(\$43M)	(\$387M)	(\$1,301M)
Multi	40	\$14B	\$12M	\$268M	(\$573M)	(\$430M)
Sustainability	40	\$16B	(\$46M)	(\$544M)	(\$1,076M)	(\$823M)
Grand Total	224	\$70B	(\$10M)	(\$2,196M)	(\$5,492M)	(\$8,637M)

Thematic Monthly Flows

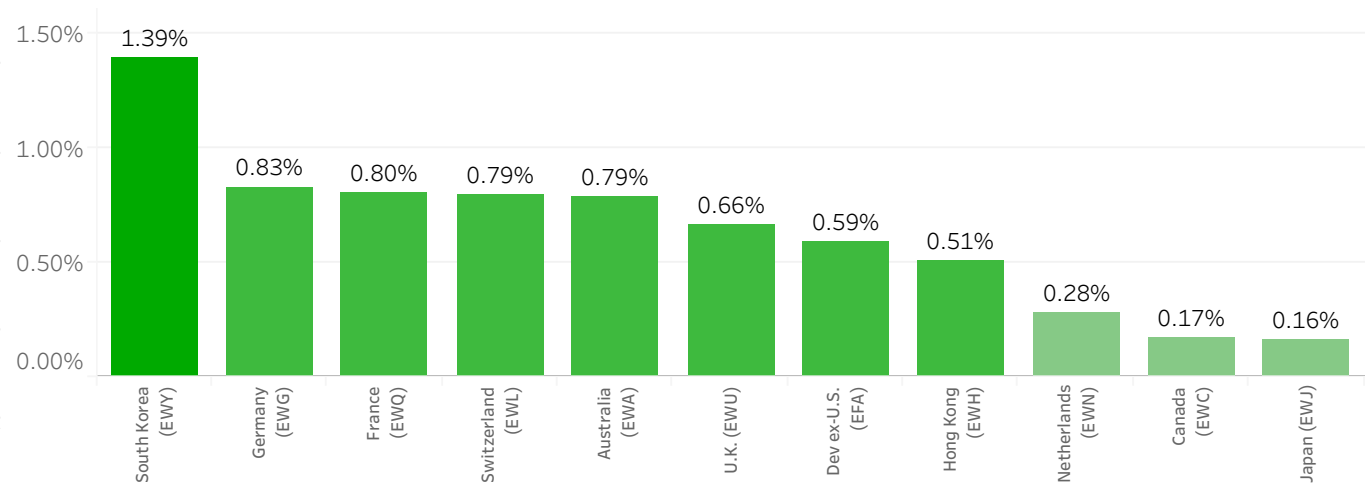


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Developed ex-U.S. (EFA)



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



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



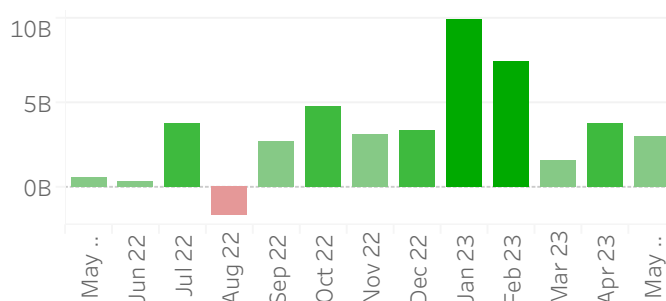
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
FLKR	Franklin FTSE South Korea ETF	1.45%
EWY	iShares MSCI South Korea ETF	1.39%
EWD	iShares MSCI Sweden ETF	1.06%
PTIN	Pacer Trendpilot International ETF	1.06%
EWI	iShares MSCI Italy ETF	1.04%
FLSW	Franklin FTSE Switzerland ETF	1.03%
FSZ	First Trust Switzerland AlphaDEX Fund	0.96%
EWS	iShares MSCI Singapore ETF	0.94%
DAX	Global X DAX Germany ETF	0.93%
EDEN	iShares MSCI Denmark ETF	0.92%

Developed ex-U.S. Most Overbought

Ticker	Fund	Price
HEWJ	iShares Currency Hedged MSCI Japan ETF	72.90
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	72.51
EWJ	iShares MSCI Japan ETF	69.03
BBJP	JPMorgan BetaBuilders Japan ETF	68.74
JPXN	iShares JPX-Nikkei 400 ETF	68.01
DXJ	WisdomTree Japan Hedged Equity Fund	67.44
FLJP	Franklin FTSE Japan ETF	67.36
HEFA	iShares Currency Hedged MSCI EAFE ETF	64.49
DBEF	Xtrackers MSCI EAFE Hedged Equity ETF	64.45
HEZU	iShares Currency Hedged MSCI Eurozone ETF	62.90

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
DXJ	WisdomTree Japan Hedged Equity Fund	-0.55%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	-0.41%
DFJ	WisdomTree Japan SmallCap Dividend Fund	-0.31%
HEWJ	iShares Currency Hedged MSCI Japan ETF	-0.25%
ISRA	VanEck Israel ETF	-0.25%
EIS	iShares MSCI Israel ETF	-0.20%
EWJV	iShares MSCI Japan Value ETF	-0.19%
GREK	Global X MSCI Greece ETF	-0.06%
NORW	Global X MSCI Norway ETF	-0.04%
BBJP	JPMorgan BetaBuilders Japan ETF	-0.02%

Developed ex-U.S. Most Oversold

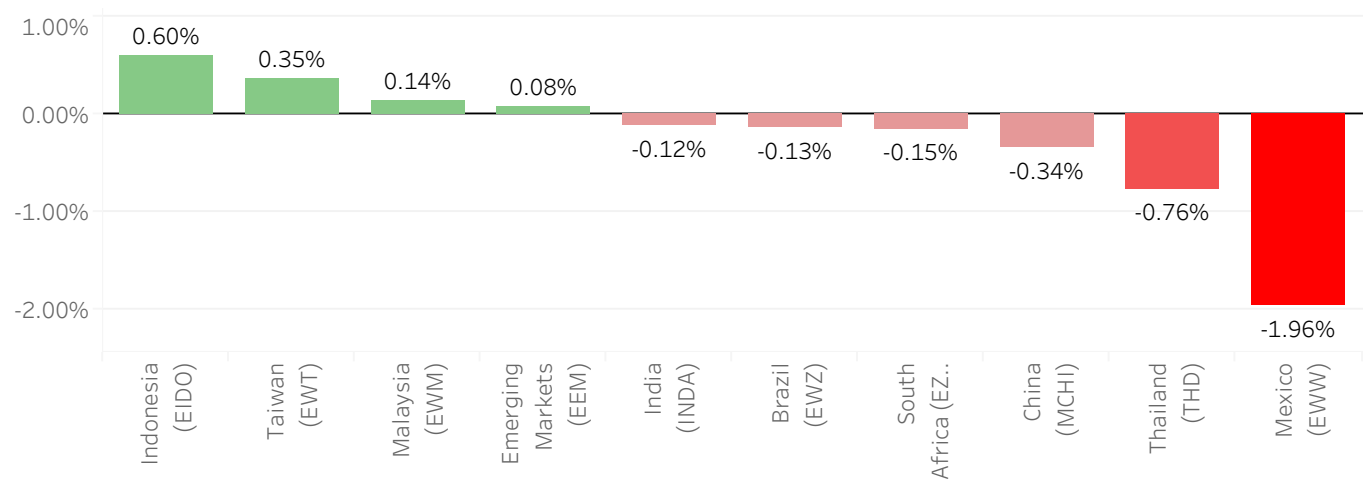
Ticker	Fund	Price
EWH	iShares MSCI Hong Kong ETF	39.94
EWS	iShares MSCI Singapore ETF	40.60
IDV	iShares International Select Dividend ETF	42.24
NORW	Global X MSCI Norway ETF	43.34
FYLD	Cambria Foreign Shareholder Yield ETF	43.72
DTH	WisdomTree International High Dividend Fund	43.78
EWP	iShares MSCI Spain ETF	44.37
MINV	Matthews Asia Innovators Active ETF	44.86
BBAX	JPMorgan BetaBuilders Developed Asia Pacific-ex Ja..	45.41
EWO	iShares MSCI Austria ETF	45.46

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

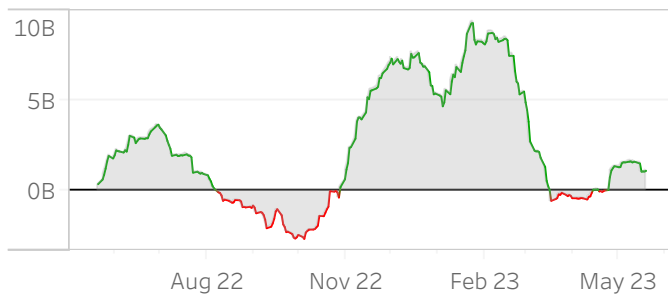
Emerging (EEM)



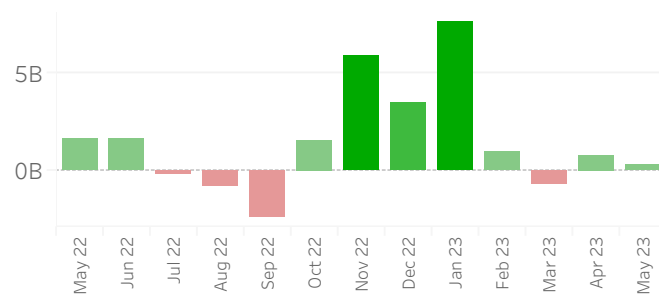
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
EPOL	iShares MSCI Poland ETF	2.28%
FLN	First Trust Latin America AlphaDEX Fund	1.47%
EDIV	SPDR S&P Emerging Markets Dividend ETF	0.95%
FRDM	Freedom 100 Emerging Markets ETF	0.90%
EPU	iShares MSCI Peru and Global Exposure ETF	0.80%
EWZS	iShares MSCI Brazil Small-Cap ETF	0.75%
RAYC	Rayliant Quantamental China Equity ETF	0.63%
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fund	0.62%
CNYA	iShares MSCI China A ETF	0.61%
NUEM	Nuveen ESG Emerging Markets Equity ETF	0.60%

Emerging Most Overbought

Ticker	Fund	Value
EWZS	iShares MSCI Brazil Small-Cap ETF	68.84
EDIV	SPDR S&P Emerging Markets Dividend ETF	65.82
FLTW	Franklin FTSE Taiwan ETF	65.28
EWT	iShares MSCI Taiwan ETF	65.01
KSA	iShares MSCI Saudi Arabia ETF	64.43
FRDM	Freedom 100 Emerging Markets ETF	63.82
FLBR	Franklin FTSE Brazil ETF	63.80
FLN	First Trust Latin America AlphaDEX Fund	62.63
EWZ	iShares MSCI Brazil ETF	62.59
QAT	iShares MSCI Qatar ETF	61.12

Emerging 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
EWW	iShares MSCI Mexico ETF	-1.96%
PGJ	Invesco Golden Dragon China ETF	-1.00%
ECNS	iShares MSCI China Small-Cap ETF	-0.77%
THD	iShares MSCI Thailand ETF	-0.76%
FLLA	Franklin FTSE Latin America ETF	-0.72%
SMIN	iShares MSCI India Small Cap ETF	-0.71%
ILF	iShares Latin America 40 ETF	-0.66%
TUR	iShares MSCI Turkey ETF	-0.54%
FXI	iShares China Large-Cap ETF	-0.53%
FLCH	Franklin FTSE China ETF	-0.51%

Emerging Most Oversold

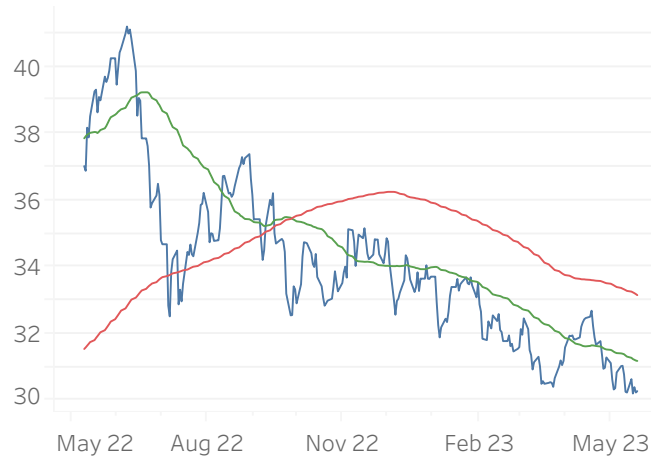
Ticker	Fund	Value
EZA	iShares MSCI South Africa ETF	31.82
THD	iShares MSCI Thailand ETF	32.72
ECNS	iShares MSCI China Small-Cap ETF	33.89
FEM	First Trust Emerging Markets AlphaDEX Fund	34.93
EWM	iShares MSCI Malaysia ETF	36.81
KBA	KraneShares Bosera MSCI China A 50 Connect Index ..	37.77
RAYC	Rayliant Quantamental China Equity ETF	38.75
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	38.92
KWT	iShares MSCI Kuwait ETF	38.96
TUR	iShares MSCI Turkey ETF	39.05

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

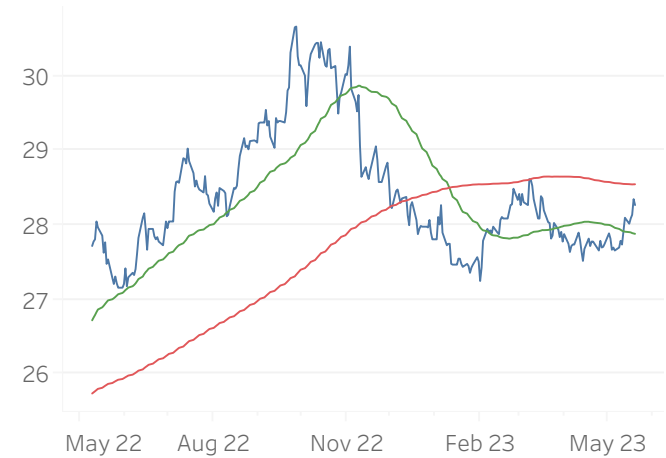
Fixed Income (AGG)



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	-0.22%	-0.57%	2.13%
SHY	1-3 Year Treasury Bonds	-0.07%	0.22%	1.60%
IEF	7-10 Year Treasury Bonds	-0.38%	-0.38%	2.81%
TLT	20+ Year Treasury Bonds	-0.71%	-2.63%	2.58%
TIP	TIPS Bonds	-0.24%	-0.43%	2.40%
FLOT	Floating Rate Bonds	-0.04%	0.64%	2.16%
LQD	Investment Grade Corporate	-0.12%	-1.42%	2.46%
HYG	High Yield Corporate	0.11%	-0.41%	2.78%
BKLN	Senior Loan	0.24%	-0.13%	4.04%
PFF	Preferred & Income Securities	-0.07%	-3.95%	0.53%
MUB	Municipal Bonds	-0.31%	-0.79%	1.09%
MBB	MBS	-0.41%	-0.50%	1.57%
EMB	Dollar Denominated EM Bonds	-0.01%	-0.46%	1.14%
LEMB	Local Currency EM Bond	-0.02%	2.53%	5.36%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	0.13%	-6.05%	-10.18%
DBE	Energy	-0.46%	-6.34%	-13.59%
USO	WTI Crude Oil	-0.22%	-7.79%	-8.86%
BNO	Brent Crude Oil	-0.12%	-7.90%	-9.72%
UNG	Natural Gas	-0.27%	6.72%	-47.09%
UGA	Gasoline	-0.27%	-1.73%	-1.12%
DBP	Precious Metals	0.95%	-2.07%	6.03%
GLD	Gold	0.99%	-0.93%	8.25%
SLV	Silver	1.39%	-5.90%	-0.73%
PPLT	abrdn Physical Platin..	1.02%	-2.26%	-0.57%
PALL	abrdn Physical Palla..	2.22%	-6.60%	-15.80%
DBB	Base Metals	0.55%	-7.91%	-5.40%
CPER	Copper	0.75%	-7.87%	-0.69%
LD	Lead	1.80%	-1.47%	-8.32%
JJN	Nickel	2.93%	-15.42%	-27.88%
JJU	Aluminum	-0.23%	-6.78%	-5.50%
JJT	Tin	1.67%	-5.19%	3.06%
DBA	Agriculture	0.39%	-1.56%	3.13%
CORN	Corn	0.18%	-11.49%	-17.30%
SOYB	Soybeans	-0.83%	-9.32%	-13.52%
WEAT	Wheat	-0.49%	-11.40%	-23.06%
CANE	Sugar	0.44%	8.89%	43.34%
BAL	Cotton	-0.33%	4.19%	5.05%
NIB	Cocoa	3.38%	4.16%	25.41%
JO	Coffee	2.63%	-3.72%	17.16%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.28%	1.76%	1.65%
UDN	Short Dollar	0.43%	-0.95%	1.24%
FXE	Euro	0.34%	-1.27%	1.38%
FXB	British Pound Sterling	0.32%	0.31%	4.03%
FXF	Swiss Franc	0.57%	-0.25%	2.56%
FXJ	Japanese Yen	0.61%	-2.30%	-5.06%
FXC	Canadian Dollar	-0.12%	-0.19%	1.00%
FXA	Australian Dollar	0.40%	-0.92%	-2.01%

*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

www.etfaction.com