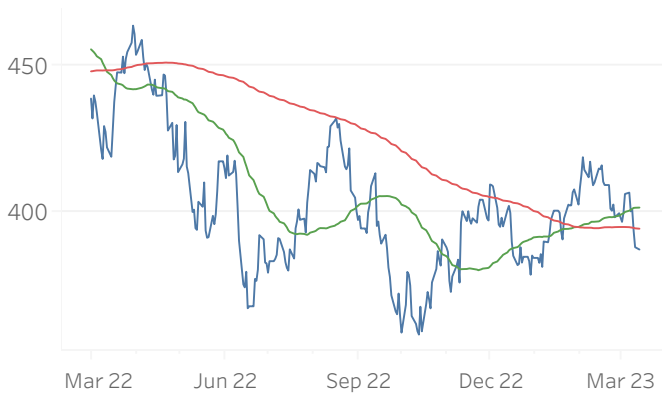
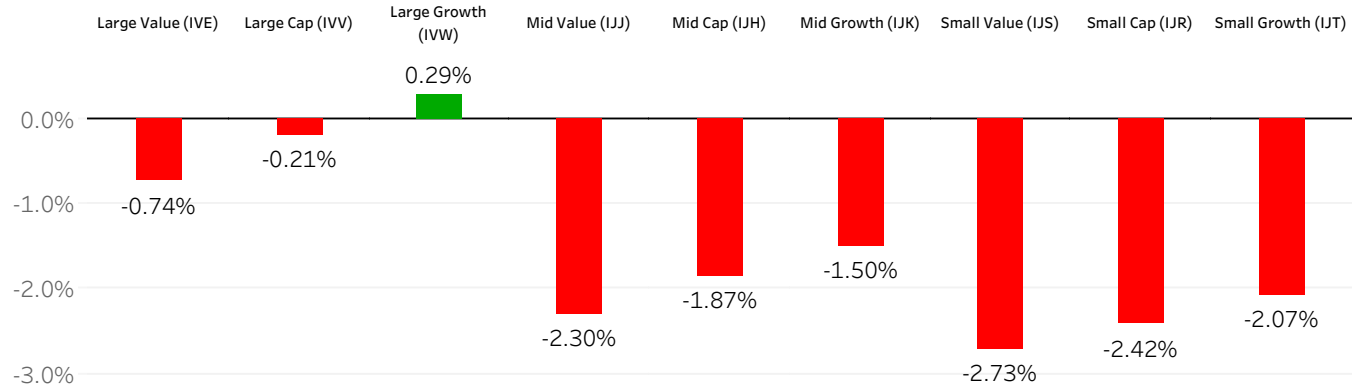


### Large Cap Blend (S&P 500) IVV



### 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
IPO	Renaissance IPO ETF	1.20%
JEPQ	J.P. Morgan Nasdaq Equity Premium Income ETF	0.92%
MGK	Vanguard Mega Cap Growth ETF	0.79%
LCG	Sterling Capital Focus Equity ETF	0.75%
IWY	iShares Russell Top 200 Growth ETF	0.74%
QQQ	Invesco QQQ Trust	0.74%
QQH	HCM Defender 100 Index ETF	0.74%
QQQM	Invesco NASDAQ 100 ETF	0.68%
SCHG	Schwab U.S. Large-Cap Growth ETF	0.64%
VUG	Vanguard Growth ETF	0.63%

### Size & Style Most Overbought

Ticker	Fund	Price
SPC	CrossingBridge Pre-Merger SPAC ETF	61.71
QQQ	Invesco QQQ Trust	45.00
QQQM	Invesco NASDAQ 100 ETF	44.83
QQH	HCM Defender 100 Index ETF	44.18
MGK	Vanguard Mega Cap Growth ETF	44.02
IWY	iShares Russell Top 200 Growth ETF	43.34
RPHS	Regents Park Hedged Market Strategy ETF	43.19
SPUS	SP Funds S&P 500 Sharia Industry Exclusions ETF	43.02
JEPQ	J.P. Morgan Nasdaq Equity Premium Income ETF	42.89
SCHG	Schwab U.S. Large-Cap Growth ETF	42.86

### Small Cap Blend (S&P 600) IJR



### Size & Style 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
EQRR	ProShares Equities for Rising Rates ETF	-4.21%
RZV	Invesco S&P Smallcap 600 Pure Value ETF	-4.01%
RDIV	Invesco S&P Ultra Dividend Revenue ETF	-4.00%
SVAL	iShares US Small Cap Value Factor ETF	-3.99%
XSVM	Invesco S&P SmallCap Value with Momentum ETF	-3.91%
WBIY	WBI Power Factor High Dividend ETF	-3.86%
AVUV	Avantis U.S. Small Cap Value ETF	-3.85%
XSMO	Invesco S&P SmallCap Momentum ETF	-3.50%
FDM	First Trust Dow Jones Select MicroCap Index Fund	-3.42%
VFVA	Vanguard U.S. Value Factor ETF	-3.41%

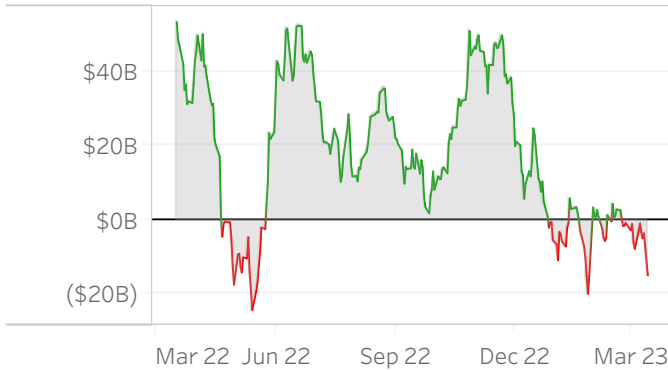
### Size & Style Most Oversold

Ticker	Fund	Price
DIV	Global X SuperDividend US ETF	13.09
RDIV	Invesco S&P Ultra Dividend Revenue ETF	18.42
NUMV	Nuveen ESG Mid-Cap Value ETF	19.14
SPVU	Invesco S&P 500 Enhanced Value ETF	19.46
SVAL	iShares US Small Cap Value Factor ETF	19.65
XSLV	Invesco S&P SmallCap Low Volatility ETF	19.75
SPDV	AAM S&P 500 High Dividend Value ETF	19.76
SMLV	SPDR SSGA US Small Cap Low Volatility Index ETF	19.93
RPV	Invesco S&P 500 Pure Value ETF	19.94
EQRR	ProShares Equities for Rising Rates ETF	20.16

■ 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, Beta	25	\$1,182B	(\$5.56B)	(\$37.07B)	\$9.15B	\$33.28B
Large Cap, Beta, Beta: Growth	10	\$222B	(\$0.18B)	(\$0.93B)	\$7.75B	\$21.26B
Large Cap, Beta, Beta: Value	11	\$216B	(\$0.37B)	(\$0.03B)	\$2.18B	\$6.96B
Mid Cap, Beta, Beta	10	\$180B	(\$0.16B)	(\$0.15B)	\$4.41B	\$12.00B
Mid Cap, Beta, Beta: Growth	6	\$32B	(\$0.07B)	(\$1.14B)	(\$1.12B)	\$0.73B
Mid Cap, Beta, Beta: Value	6	\$40B	\$0.23B	(\$0.60B)	\$0.50B	\$1.20B
Small Cap, Beta, Beta	13	\$190B	(\$0.27B)	(\$0.81B)	\$3.83B	\$1.11B
Small Cap, Beta, Beta: Growth	7	\$31B	\$0.02B	(\$0.73B)	(\$0.03B)	\$0.92B
Small Cap, Beta, Beta: Value	7	\$50B	(\$0.07B)	(\$0.40B)	\$0.51B	(\$2.26B)

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

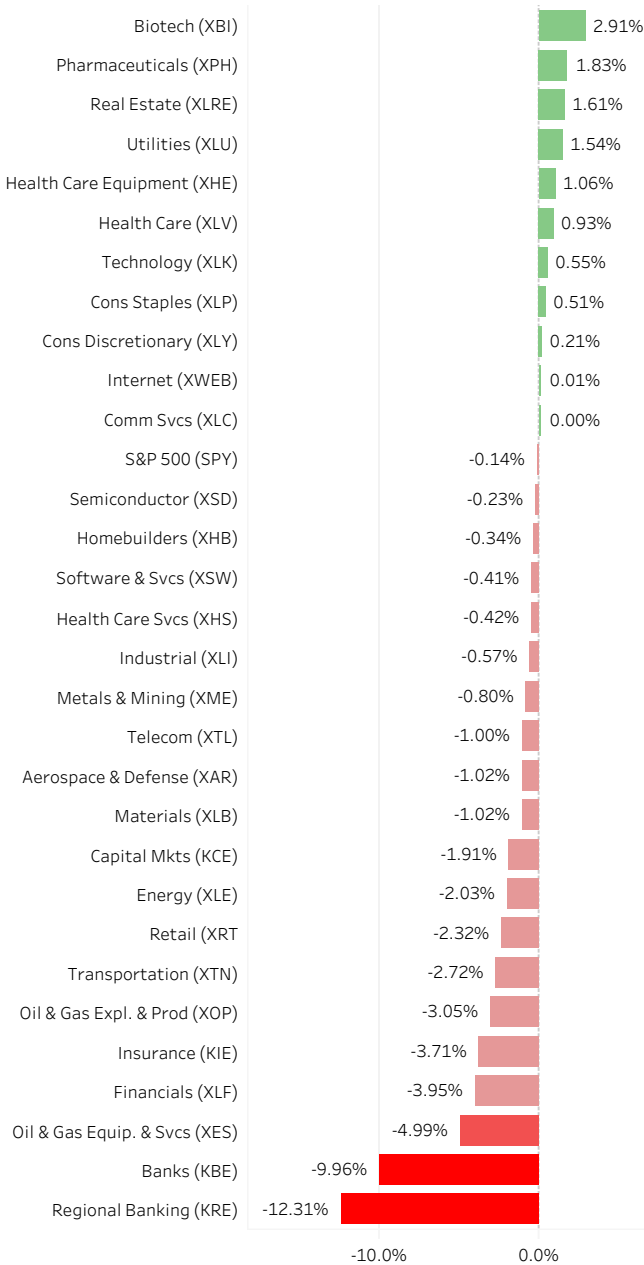
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
QQQ	Invesco QQQ Trust	\$0.51B	(\$4.52B)	(\$2.78B)	\$1.60B	\$154.32B
IVV	iShares Core S&P 500 ETF	\$0.50B	(\$9.02B)	\$0.27B	\$6.19B	\$289.72B
QQQM	Invesco NASDAQ 100 ETF	\$0.22B	\$1.14B	\$2.33B	\$4.16B	\$7.14B
SCHD	Schwab US Dividend Equity ETF	\$0.18B	\$4.13B	\$8.35B	\$15.21B	\$45.97B
IJJ	iShares S&P Mid-Cap 400 Value ETF	\$0.17B	\$0.30B	\$0.32B	\$0.33B	\$7.60B
COWZ	Pacer US Cash Cows 100 ETF	\$0.15B	\$2.59B	\$4.91B	\$9.85B	\$12.35B
IJR	iShares Core S&P Small Cap ETF	\$0.11B	\$1.37B	\$2.31B	\$3.53B	\$67.14B
SPSM	SPDR Portfolio S&P 600 Small Cap ETF	\$0.11B	\$0.57B	\$0.86B	\$1.13B	\$5.06B
VB	Vanguard Small-Cap ETF	\$0.10B	(\$0.20B)	(\$0.37B)	\$0.68B	\$42.21B
SMMD	iShares Russell 2500 ETF	\$0.10B	\$0.12B	\$0.15B	\$0.27B	\$0.63B

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

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	(\$6.71B)	(\$27.31B)	(\$2.28B)	(\$6.95B)	\$343.40B
IWM	iShares Russell 2000 ETF	(\$0.62B)	(\$3.36B)	(\$0.58B)	(\$4.48B)	\$49.89B
DIA	SPDR Dow Jones Industrial Average ETF Trust	(\$0.58B)	(\$2.47B)	(\$1.08B)	(\$0.71B)	\$26.84B
SPYV	SPDR Portfolio S&P 500 Value ETF	(\$0.25B)	\$0.37B	\$2.29B	\$1.37B	\$15.20B
RSP	Invesco S&P 500 Equal Weight ETF	(\$0.25B)	\$1.88B	\$3.54B	\$4.49B	\$34.02B
DVY	iShares Select Dividend ETF	(\$0.19B)	(\$0.03B)	\$0.78B	\$2.44B	\$21.62B
USMV	iShares MSCI USA Min Vol Factor ETF	(\$0.15B)	(\$1.27B)	(\$0.15B)	\$2.45B	\$27.42B
AVUV	Avantis U.S. Small Cap Value ETF	(\$0.15B)	\$0.85B	\$1.69B	\$2.88B	\$5.46B
VO	Vanguard Mid-Cap ETF	(\$0.14B)	(\$2.02B)	(\$1.28B)	\$3.41B	\$49.99B
DLN	WisdomTree U.S. LargeCap Dividend Fund	(\$0.11B)	(\$0.17B)	(\$0.06B)	\$0.33B	\$3.42B

\* 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)
XLI	Industrial Select Sector SPDR Fund	-5.99%	18.83%	-2.86%	3.44%	36.59
XLP	Consumer Staples Select Sector SPDR Fund	-11.29%	7.47%	-2.43%	-2.06%	39.71
XLV	Health Care Select Sector SPDR Fund	-12.27%	4.52%	-4.88%	-3.97%	34.17
XLE	Energy Select Sector SPDR Fund	-13.96%	19.94%	-7.21%	-2.06%	33.03
XLB	Materials Select Sector SPDR Fund	-14.54%	14.94%	-5.66%	-0.40%	32.76
XLU	Utilities Select Sector SPDR Fund	-16.27%	6.32%	-4.21%	-6.43%	43.08
SPY	SPDR S&P 500 ETF Trust	-16.51%	8.08%	-3.64%	-1.76%	34.07
XLK	Technology Select Sector SPDR Fund	-16.51%	17.12%	0.70%	3.05%	46.94
XLF	Financial Select Sector SPDR Fund	-19.96%	4.42%	-11.42%	-6.66%	16.61
XLC	Communication Services Select Sector SPDR Fund	-26.60%	15.08%	-2.96%	-0.96%	38.34
XLRE	Real Estate Select Sector SPDR Fund	-27.51%	8.62%	-6.16%	-7.00%	36.68
XLY	Consumer Discretionary Select Sector SPDR Fund	-27.69%	9.69%	-3.53%	-5.24%	36.04

### Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
PTH	Invesco DWA Healthcare Momentum ETF	4.35%
XBI	SPDR S&P BIOTECH ETF	2.91%
IBB	iShares Biotechnology ETF	2.79%
ICF	iShares Cohen & Steers REIT ETF	1.92%
FBT	First Trust NYSE Arca Biotechnology Index Fund	1.87%
XPH	SPDR S&P Pharmaceuticals ETF	1.83%
REZ	iShares Residential and Multisector Real Estate E..	1.80%
INDS	Pacer Industrial Real Estate ETF	1.76%
RYU	Invesco S&P 500 Equal Weight Utilities ETF	1.64%
XLRE	Real Estate Select Sector SPDR Fund	1.61%

### Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
IYW	iShares U.S. Technology ETF	47.32
XLK	Technology Select Sector SPDR Fund	46.94
SOXQ	Invesco PHLX Semiconductor ETF	46.62
SOXX	iShares Semiconductor ETF	46.59
FTEC	Fidelity MSCI Information Technology Index ETF	45.40
VGT	Vanguard Information Technology ETF	45.35
QTEC	First Trust NASDAQ-100 Technology Sector Index Fund	45.19
ITB	iShares U.S. Home Construction ETF	45.04
FTXL	First Trust Nasdaq Semiconductor ETF	44.98
PSI	Invesco Dynamic Semiconductors ETF	44.76

### Sector & Industry 1 Day Performance Laggards

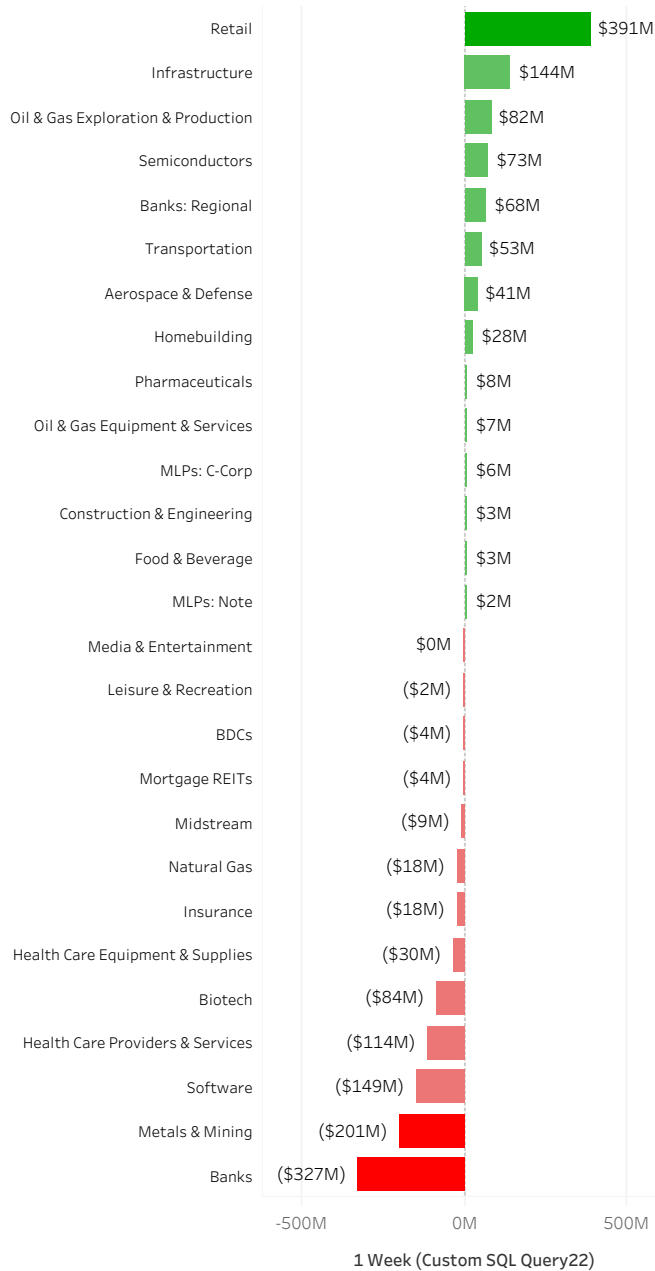
Ticker	Fund	1 Day Performance
IAT	iShares U.S. Regional Banks ETF	-14.42%
KRE	SPDR S&P Regional Banking ETF	-12.31%
KBWB	Invesco KBW Bank ETF	-11.99%
FTXO	First Trust Nasdaq Bank ETF	-10.94%
KBE	SPDR S&P Bank ETF	-9.96%
FXO	First Trust Financials AlphaDEX Fund	-7.36%
KBWR	Invesco KBW Regional Banking ETF	-7.04%
QABA	First Trust NASDAQ ABA Community Bank Index Fund	-6.60%
RYF	Invesco S&P 500 Equal Weight Financials ETF	-5.68%
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-4.99%

### Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
IAT	iShares U.S. Regional Banks ETF	9.87
KRE	SPDR S&P Regional Banking ETF	10.96
KBWB	Invesco KBW Bank ETF	11.92
KBE	SPDR S&P Bank ETF	12.34
FXO	First Trust Financials AlphaDEX Fund	12.89
FTXO	First Trust Nasdaq Bank ETF	12.90
RYF	Invesco S&P 500 Equal Weight Financials ETF	13.71
KBWR	Invesco KBW Regional Banking ETF	14.37
QABA	First Trust NASDAQ ABA Community Bank Index Fund	14.60
FNCL	Fidelity MSCI Financials Index ETF	16.17

\* 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	\$12B	(\$90M)	(\$292M)	(\$247M)	(\$861M)
Consumer Discretionary	12	\$20B	\$421M	(\$95M)	(\$637M)	(\$2,796M)
Consumer Staples	10	\$28B	(\$176M)	(\$608M)	(\$12M)	\$4,094M
Energy	32	\$75B	(\$199M)	(\$1,755M)	(\$682M)	(\$7,617M)
Financials	26	\$56B	(\$831M)	(\$380M)	(\$1,462M)	(\$13,636M)
Health Care	23	\$86B	(\$331M)	(\$3,314M)	(\$803M)	\$5,884M
Industrial	13	\$32B	(\$81M)	\$1,422M	\$2,314M	(\$712M)
Materials	9	\$14B	(\$169M)	\$705M	\$378M	(\$2,114M)
Multi-Sector	19	\$13B	\$118M	(\$263M)	(\$760M)	(\$3,924M)
Real Estate	25	\$56B	(\$111M)	(\$2,052M)	(\$2,185M)	(\$5,150M)
Technology	23	\$118B	(\$311M)	(\$2,220M)	(\$95M)	\$666M
Utilities	9	\$23B	\$150M	(\$787M)	(\$1,263M)	\$3,643M

## U.S. Sector & Industry Flow Leaders

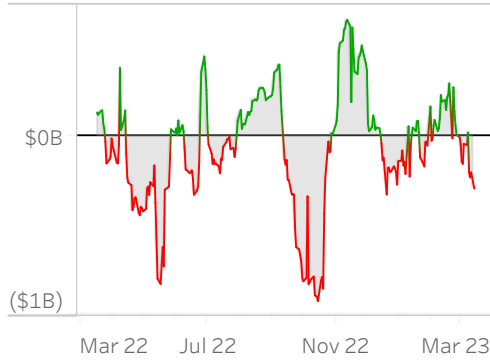
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XRT	SPDR S&P Retail ETF	\$391M	\$385M	\$369M	\$358M	\$645M
ITB	iShares U.S. Home Construction ETF	\$216M	\$83M	\$40M	(\$499M)	\$1,486M
XLU	Utilities Select Sector SPDR Fund	\$206M	(\$790M)	(\$975M)	\$2,446M	\$14,399M
PAVE	Global X U.S. Infrastructure Development ETF	\$146M	\$286M	(\$25M)	(\$883M)	\$4,004M
IYR	iShares U.S. Real Estate ETF	\$130M	(\$480M)	(\$151M)	(\$1,077M)	\$3,185M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	\$100M	(\$460M)	(\$309M)	(\$2,395M)	\$3,731M
IAI	iShares U.S. Broker-Dealers & Securities Excha..	\$73M	\$88M	\$386M	\$365M	\$853M
EWCO	Invesco S&P 500 Equal Weight Communication ..	\$67M	\$80M	\$86M	\$79M	\$112M
KRE	SPDR S&P Regional Banking ETF	\$66M	(\$349M)	(\$631M)	(\$2,379M)	\$2,122M
SOXX	iShares Semiconductor ETF	\$64M	\$185M	(\$3M)	(\$485M)	\$6,946M

## U.S. Sector & Industry Flow Laggards

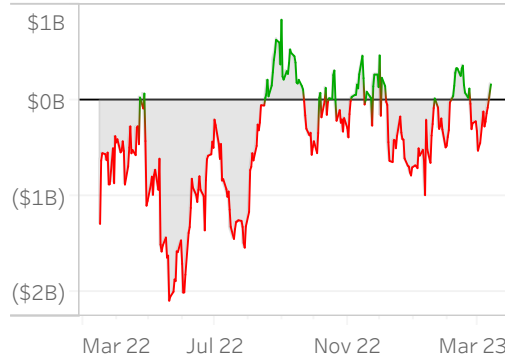
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	(\$532M)	(\$555M)	(\$1,386M)	(\$7,662M)	\$30,233M
KBWB	Invesco KBW Bank ETF	(\$247M)	\$128M	\$112M	(\$317M)	\$1,742M
XLE	Energy Select Sector SPDR Fund	(\$229M)	\$601M	\$930M	(\$1,763M)	\$38,932M
XME	SPDR S&P Metals & Mining ETF	(\$201M)	\$176M	\$393M	(\$690M)	\$2,288M
XLK	Technology Select Sector SPDR Fund	(\$192M)	(\$2,183M)	(\$1,567M)	(\$222M)	\$39,357M
XHB	SPDR S&P Homebuilders ETF	(\$188M)	(\$246M)	(\$194M)	(\$578M)	\$750M
XLI	Industrial Select Sector SPDR Fund	(\$161M)	\$135M	\$579M	(\$1,518M)	\$14,030M
XLP	Consumer Staples Select Sector SPDR Fund	(\$160M)	(\$721M)	(\$246M)	\$1,199M	\$16,008M
IGV	iShares Expanded Tech-Software Sector ETF	(\$151M)	(\$16M)	\$855M	\$799M	\$4,654M
FREL	Fidelity MSCI Real Estate Index ETF	(\$124M)	(\$222M)	(\$270M)	(\$338M)	\$1,209M

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

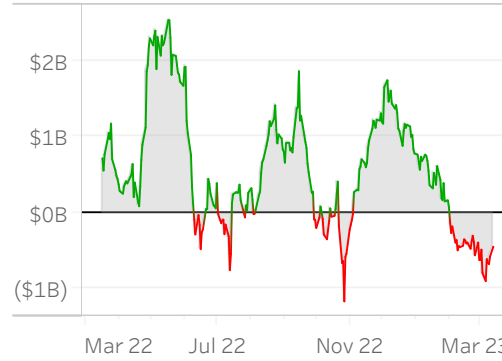
Communication Services



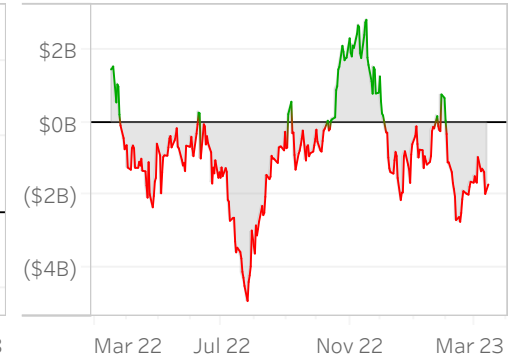
Consumer Discretionary



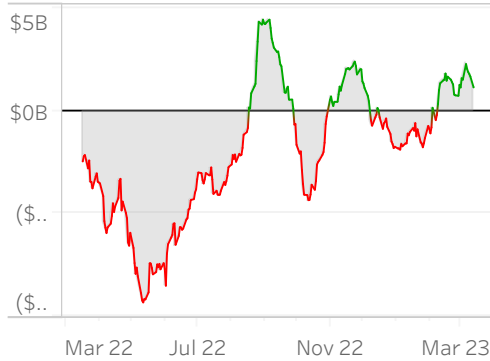
Consumer Staples



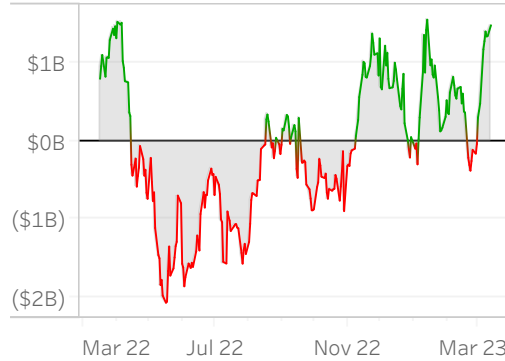
Energy



Financials



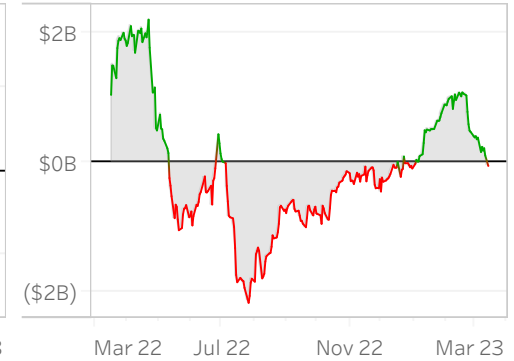
Industrial



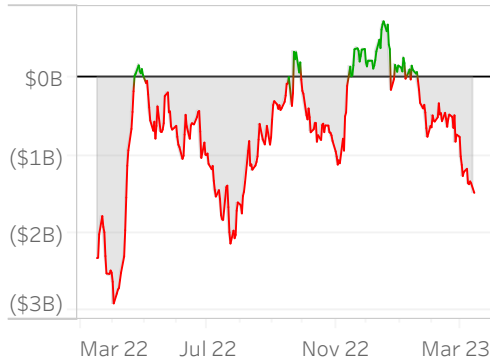
Health Care



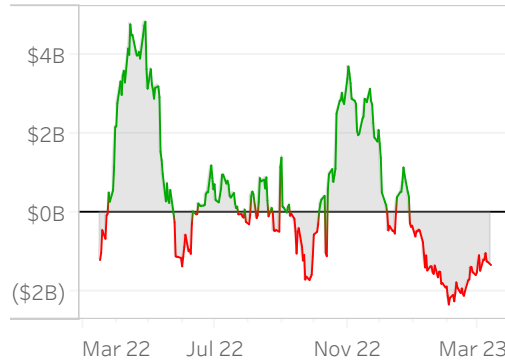
Materials



Real Estate



Technology



Utilities

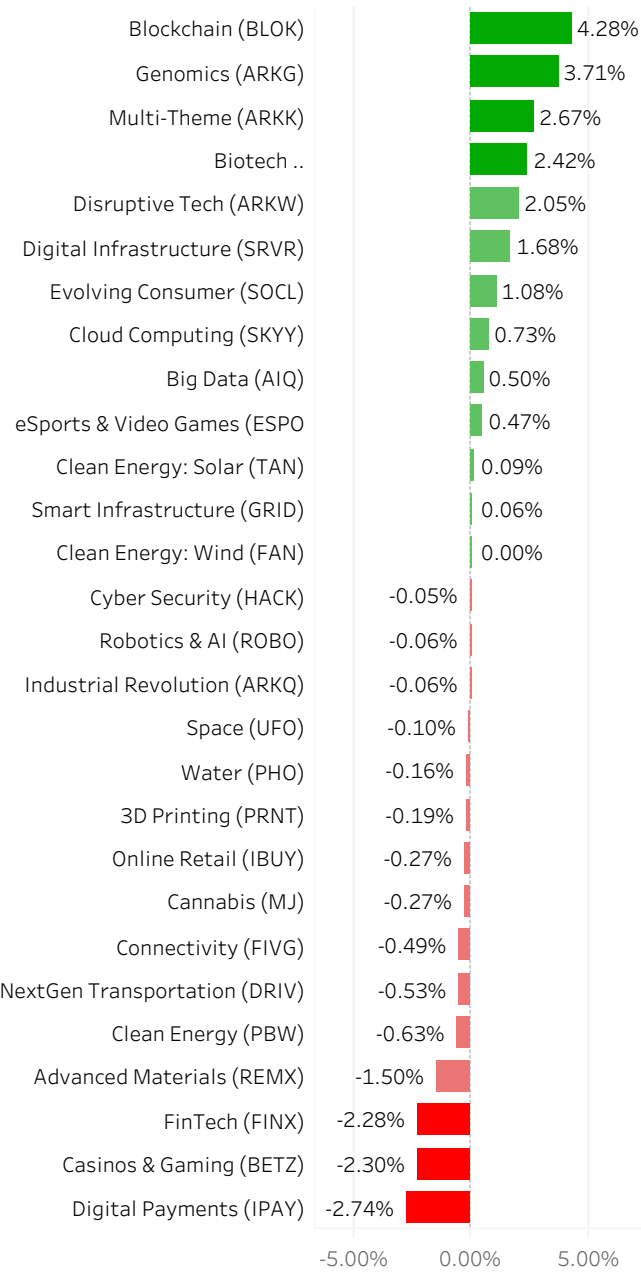


Multi-Sector

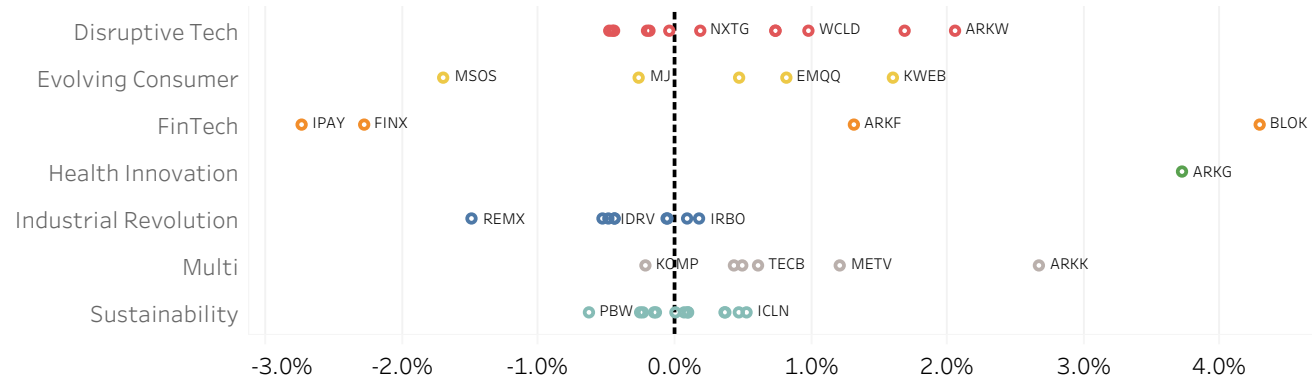


\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

## Global Thematic Segment 1-Day Performance



## Global Thematic 1-Day Performance Landscape



### Global Thematic 1-Day Performance Leaders

Ticker	Fund	Performance
<b>BLOK</b>	Amplify Transformational Data Sharing ETF	4.28%
<b>ARKG</b>	ARK Genomic Revolution ETF	3.71%
<b>BTEC</b>	Principal Healthcare Innovators ETF	3.26%
<b>GNOM</b>	Global X Genomics & Biotechnology ETF	2.97%
<b>IDNA</b>	iShares Genomics Immunology and Healthcare ETF	2.89%
<b>ARKK</b>	ARK Innovation ETF	2.67%
<b>SBIO</b>	ALPS Medical Breakthroughs ETF	2.42%
<b>GDOC</b>	Goldman Sachs Future Health Care Equity ETF	2.30%
<b>EDOC</b>	Global X Telemedicine & Digital Health ETF Registered	2.08%
<b>ARKW</b>	ARK Next Generation Internet ETF	2.05%

### Thematic Most Overbought

Ticker	Fund	Value
<b>NXTG</b>	First Trust Indxx NextG ETF	47.49
<b>ESPO</b>	VanEck Video Gaming and eSports ETF	46.77
<b>METV</b>	Roundhill Ball Metaverse ETF	46.42
<b>BOTZ</b>	Global X Robotics & Artificial Intelligence ETF	45.93
<b>TAN</b>	Invesco Solar ETF	44.35
<b>HERO</b>	Global X Video Games & Esports ETF	44.00
<b>ARKW</b>	ARK Next Generation Internet ETF	43.88
<b>TECB</b>	iShares U.S. Tech Breakthrough Multisector ETF	43.46
<b>ROBO</b>	ROBO Global Robotics & Automation Index ETF	43.38
<b>CTEC</b>	Global X CleanTech ETF	43.12

### Global Thematic 1-Day Performance Laggards

Ticker	Fund	Performance
<b>IPAY</b>	ETFMG Prime Mobile Payments ETFMG Prime Mobile ..	-2.74%
<b>BETZ</b>	Roundhill Sports Betting & iGaming ETF	-2.30%
<b>FINX</b>	Global X FinTech ETF	-2.28%
<b>MSOS</b>	AdvisorShares Pure US Cannabis ETF	-1.70%
<b>REMX</b>	VanEck Rare Earth/Strategic Metals ETF	-1.50%
<b>KGRN</b>	KraneShares MSCI China Clean Technology Index ETF	-1.22%
<b>AWAY</b>	ETFMG Travel Tech ETF	-1.16%
<b>IZRL</b>	ARK Israel Innovative Technology ETF	-1.09%
<b>BATT</b>	Amplify Lithium & Battery Technology ETF	-0.74%
<b>MILN</b>	Global X Millennial Consumer ETF	-0.70%

### Thematic Most Oversold

Ticker	Fund	Value
<b>MJ</b>	ETFMG Alternative Harvest ETFMG Alternative Harvest	23.76
<b>SAMT</b>	Strategas Macro Thematic Opportunities ETF	26.36
<b>PAWZ</b>	ProShares Pet Care ETF	28.55
<b>AWAY</b>	ETFMG Travel Tech ETF	28.81
<b>KGRN</b>	KraneShares MSCI China Clean Technology Index ETF	29.01
<b>EVX</b>	VanEck Environmental Services ETF	29.53
<b>IPAY</b>	ETFMG Prime Mobile Payments ETFMG Prime Mobile Pay..	29.62
<b>FINX</b>	Global X FinTech ETF	29.74
<b>LIT</b>	Global X Lithium & Battery Tech ETF	30.59
<b>IZRL</b>	ARK Israel Innovative Technology ETF	30.77

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

### Thematic 1 Week Flow Leaders

Ticker	Fund	Flow
BOTZ	Global X Robotics & Artificial Intelligence ETF	\$42M
ARKG	ARK Genomic Revolution ETF	\$34M
MJUS	ETFMG U.S. Alternative Harvest ETF	\$31M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$10M
ROBT	First Trust Nasdaq Artificial Intelligence & Robotics ETF	\$8M
IRBO	iShares Robotics and Artificial Intelligence Multisector ETF	\$6M
QTUM	Defiance Quantum ETF	\$4M
TIME	Clockwise Capital Innovation ETF	\$3M
ROBO	ROBO Global Robotics & Automation Index ETF	\$3M
PHO	Invesco Water Resources ETF	\$2M

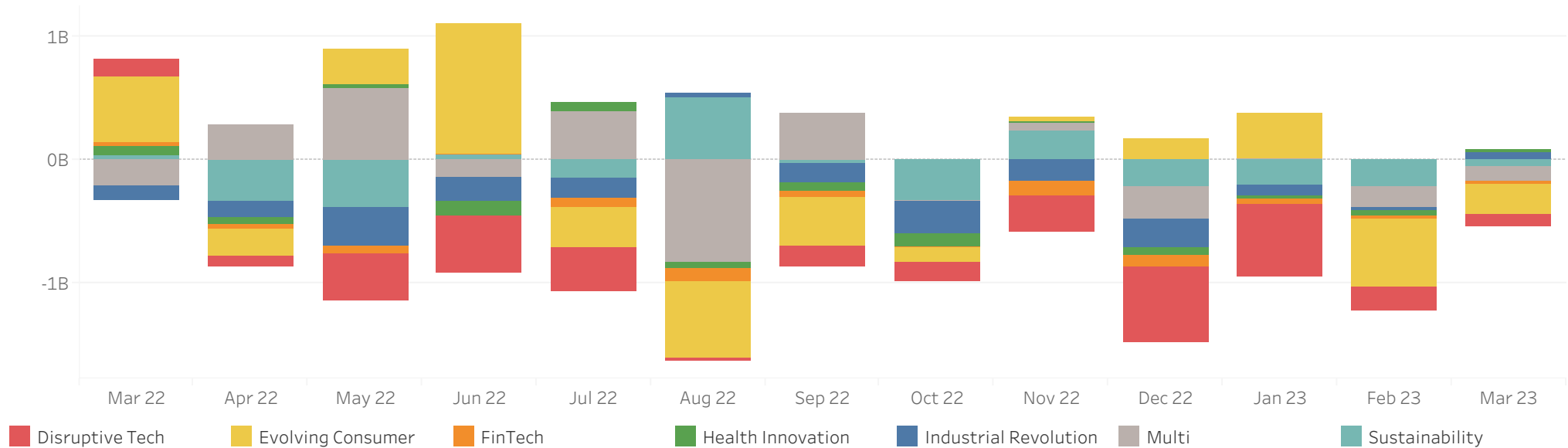
### Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
ARKK	ARK Innovation ETF	(\$188M)
KWEB	KraneShares CSI China Internet ETF	(\$167M)
ICLN	iShares Global Clean Energy ETF	(\$13M)
SKYY	First Trust Cloud Computing ETF	(\$10M)
SRVR	Pacer Data & Infrastructure Real Estate ETF	(\$9M)
SNSR	Global X Internet of Things ETF	(\$7M)
NXTG	First Trust Indxx NextG ETF	(\$7M)
IHAK	iShares Cybersecurity & Tech ETF	(\$5M)
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	(\$5M)
HACK	ETFMG Prime Cyber Security ETF	(\$5M)

### Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	34	\$15B	(\$37M)	(\$1,212M)	(\$2,029M)	(\$3,262M)
Evolving Consumer	46	\$9B	(\$122M)	(\$621M)	(\$702M)	(\$47M)
FinTech	19	\$2B	(\$7M)	(\$144M)	(\$344M)	(\$586M)
Health Innovation	19	\$3B	\$36M	(\$80M)	(\$261M)	(\$348M)
Industrial Revolution	31	\$10B	\$44M	(\$231M)	(\$817M)	(\$1,756M)
Multi	41	\$13B	(\$158M)	(\$664M)	(\$155M)	(\$20M)
Sustainability	40	\$17B	(\$20M)	(\$653M)	(\$845M)	(\$1,067M)
<b>Grand Total</b>	<b>230</b>	<b>\$69B</b>	<b>(\$263M)</b>	<b>(\$3,604M)</b>	<b>(\$5,153M)</b>	<b>(\$7,087M)</b>

### Thematic Monthly Flows

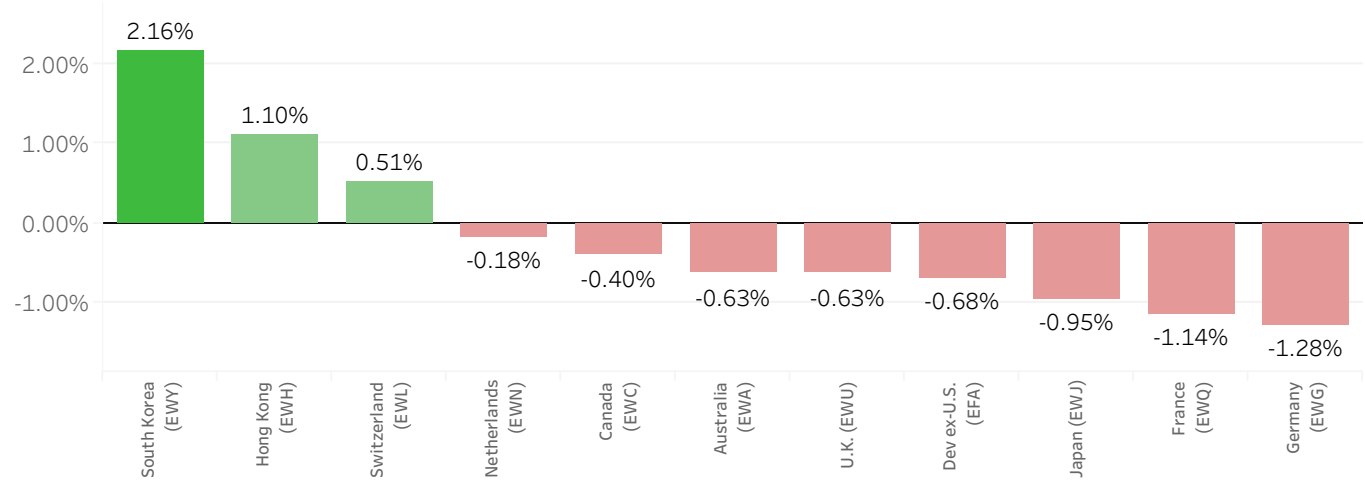


\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

Developed ex-U.S. (EFA)



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



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



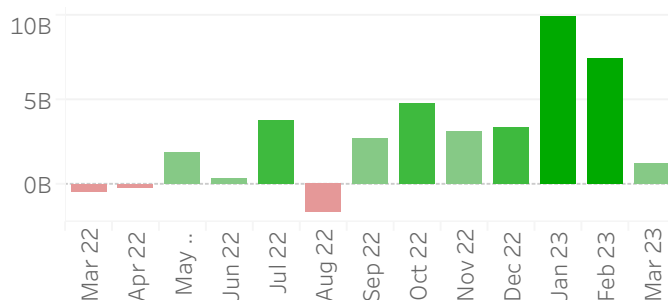
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
FLKR	Franklin FTSE South Korea ETF	2.20%
EWY	iShares MSCI South Korea ETF	2.16%
AIA	iShares Asia 50 ETF	1.28%
MINV	Matthews Asia Innovators Active ETF	1.25%
EWH	iShares MSCI Hong Kong ETF	1.10%
AAXJ	iShares MSCI All Country Asia ex Japan ETF	0.63%
EWL	iShares MSCI Switzerland ETF	0.51%
EFAD	ProShares MSCI EAFE Dividend Growers ETF	0.36%
IDHQ	Invesco S&P International Developed High Quality ETF	0.21%
IQDG	WisdomTree International Quality Dividend Growth Fund	0.19%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
DFJ	WisdomTree Japan SmallCap Dividend Fund	51.08
SCJ	iShares MSCI Japan Small-Cap ETF	50.53
FJP	First Trust Japan AlphaDEX Fund	47.19
EIRL	iShares MSCI Ireland ETF	46.35
JPXN	iShares JPX-Nikkei 400 ETF	45.02
EWY	iShares MSCI South Korea ETF	44.62
FLJP	Franklin FTSE Japan ETF	44.48
FLKR	Franklin FTSE South Korea ETF	44.31
EWJ	iShares MSCI Japan ETF	44.14
BBJP	JPMorgan BetaBuilders Japan ETF	44.09

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	-2.79%
EIS	iShares MSCI Israel ETF	-2.35%
HEDJ	WisdomTree Europe Hedged Equity Fund	-2.20%
HSCZ	iShares Currency Hedged MSCI EAFE Small-Cap ETF	-2.10%
HEWJ	iShares Currency Hedged MSCI Japan ETF	-2.05%
HEZU	iShares Currency Hedged MSCI Eurozone ETF	-2.01%
EUSC	WisdomTree Europe Hedged SmallCap Equity Fund	-2.01%
NORW	Global X MSCI Norway ETF	-1.98%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	-1.87%
EWI	iShares MSCI Italy ETF	-1.82%

Developed ex-U.S. Most Oversold

Ticker	Fund	Value
EWS	iShares MSCI Singapore ETF	24.44
FLCA	Franklin FTSE Canada ETF	27.34
BBAX	JPMorgan BetaBuilders Developed Asia Pacific-ex Ja..	28.28
BBCA	JPMorgan BetaBuilders Canada ETF	28.56
EWC	iShares MSCI Canada ETF	28.75
EPP	iShares MSCI Pacific ex-Japan ETF	29.22
EWA	iShares MSCI Australia ETF	29.96
NORW	Global X MSCI Norway ETF	30.18
HSCZ	iShares Currency Hedged MSCI EAFE Small-Cap ETF	31.43
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	31.48

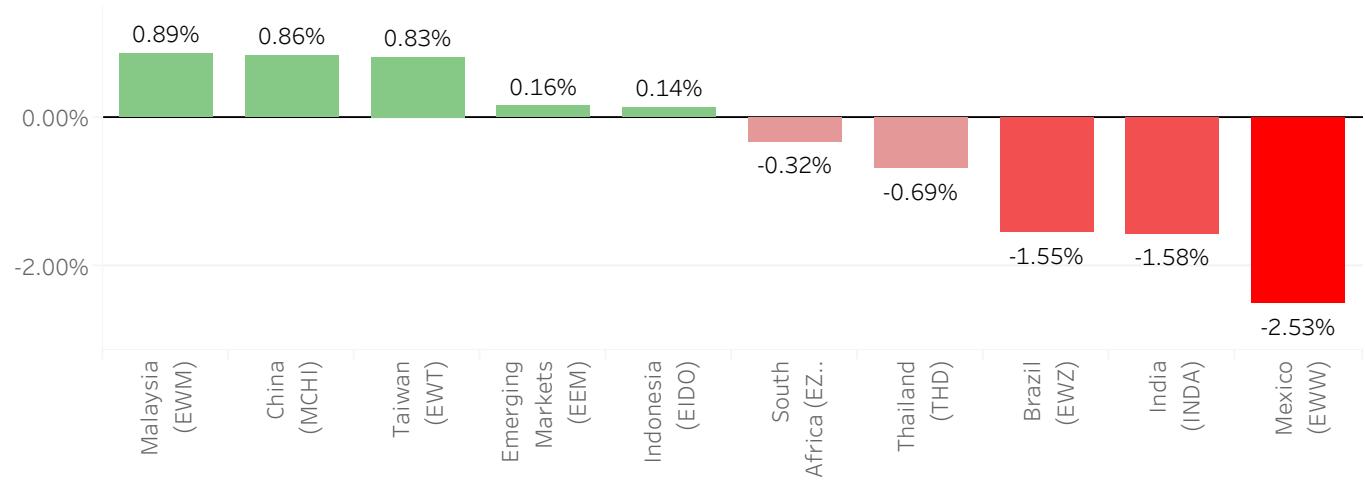
\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



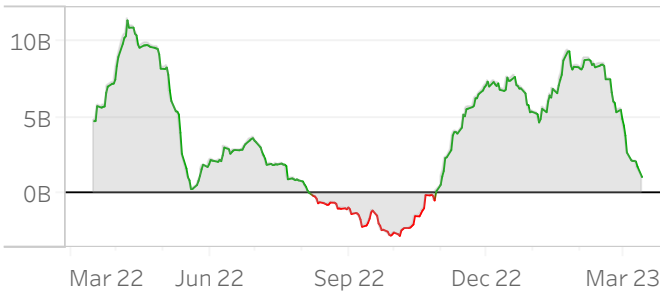
Emerging (EEM)



Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



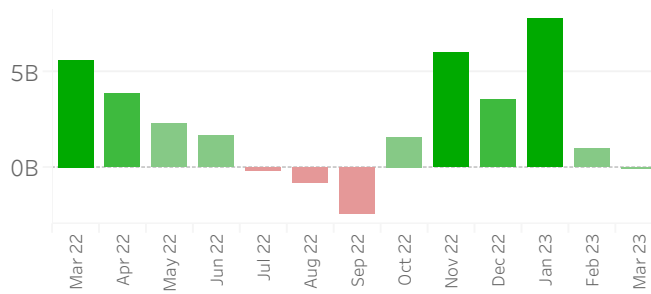
Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	1.74%
CNYA	iShares MSCI China A ETF	1.53%
KBA	KraneShares Boserá MSCI China A 50 Connect Index ETF	1.49%
PGJ	Invesco Golden Dragon China ETF	1.13%
FLTW	Franklin FTSE Taiwan ETF	1.08%
DGRE	WisdomTree Emerging Markets Quality Dividend Growt...	1.06%
GXC	SPDR S&P China ETF	1.03%
EWM	iShares MSCI Malaysia ETF	0.89%
RAYC	Rayliant Quantamental China Equity ETF	0.86%
MCHI	iShares MSCI China ETF	0.86%

Emerging Most Overbought

Ticker	Fund	Value
TUR	iShares MSCI Turkey ETF	56.18
EDIV	SPDR S&P Emerging Markets Dividend ETF	49.89
FLTW	Franklin FTSE Taiwan ETF	49.59
ECH	iShares MSCI Chile ETF	46.29
EWT	iShares MSCI Taiwan ETF	45.99
VNM	VanEck Vietnam ETF	45.86
CNYA	iShares MSCI China A ETF	44.96
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	44.86
FEM	First Trust Emerging Markets AlphaDEX Fund	44.32
EWZS	iShares MSCI Brazil Small-Cap ETF	43.72

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
FLN	First Trust Latin America AlphaDEX Fund	-3.51%
EWW	iShares MSCI Mexico ETF	-2.53%
ECH	iShares MSCI Chile ETF	-2.25%
FLLA	Franklin FTSE Latin America ETF	-2.24%
SMIN	iShares MSCI India Small Cap ETF	-1.96%
ILF	iShares Latin America 40 ETF	-1.96%
QAT	iShares MSCI Qatar ETF	-1.78%
FLBR	Franklin FTSE Brazil ETF	-1.68%
EPI	WisdomTree India Earnings Fund	-1.60%
INDA	iShares MSCI India ETF	-1.58%

Emerging Most Oversold

Ticker	Fund	Value
THD	iShares MSCI Thailand ETF	26.63
EWM	iShares MSCI Malaysia ETF	29.73
ECNS	iShares MSCI China Small-Cap ETF	29.84
EPHE	iShares MSCI Philippines ETF	31.52
NUEM	Nuveen ESG Emerging Markets Equity ETF	31.93
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	32.16
EIDO	iShares MSCI Indonesia ETF	32.23
ADRE	Invesco BLDRS Emerging Markets 50 ADR Index Fund	32.39
BKF	iShares MSCI BIC ETF	32.62
ESGE	iShares ESG Aware MSCI EM ETF	33.35

\* 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	0.80%	0.39%	2.43%
SHY	1-3 Year Treasury Bonds	1.00%	1.14%	1.44%
IEF	7-10 Year Treasury Bonds	1.21%	1.57%	3.28%
TLT	20+ Year Treasury Bonds	0.23%	1.76%	6.83%
TIP	TIPS Bonds	0.76%	0.97%	2.32%
FLOT	Floating Rate Bonds	-1.58%	-1.05%	-0.05%
LQD	Investment Grade Corporate	0.08%	-0.81%	2.07%
HYG	High Yield Corporate	-0.54%	-1.98%	0.28%
BKLN	Senior Loan	-1.53%	-1.99%	1.51%
PFF	Preferred & Income Securities	-3.77%	-8.92%	-0.61%
MUB	Municipal Bonds	0.30%	-0.59%	1.34%
MBB	MBS	0.98%	-0.21%	2.01%
EMB	Dollar Denominated EM Bonds	-0.16%	-1.00%	1.12%
LEMB	Local Currency EM Bond	-0.45%	-1.41%	0.86%

### Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	0.51%	-3.30%	-7.12%
DBE	Energy	-1.47%	-3.70%	-8.16%
USO	WTI Crude Oil	-2.82%	-6.12%	-6.93%
BNO	Brent Crude Oil	-2.85%	-6.03%	-5.83%
UNG	Natural Gas	7.59%	3.84%	-38.65%
UGA	Gasoline	-2.10%	-4.92%	-3.84%
DBP	Precious Metals	2.59%	1.85%	1.28%
GLD	Gold	2.29%	3.12%	4.85%
SLV	Silver	6.04%	-0.99%	-9.17%
PPLT	abrdrn Physical Platin..	4.38%	4.98%	-6.64%
PALL	abrdrn Physical Palla..	6.94%	-5.71%	-17.16%
DBB	Base Metals	0.96%	-2.88%	2.37%
CPER	Copper	1.23%	-0.08%	6.97%
LD	Lead	0.35%	-1.53%	-10.19%
JJN	Nickel	1.15%	-12.97%	-22.86%
JJU	Aluminum	0.19%	-4.69%	-4.05%
JJT	Tin	1.64%	-15.84%	-7.76%
DBA	Agriculture	-0.50%	-1.82%	-1.09%
CORN	Corn	-0.65%	-8.78%	-9.32%
SOYB	Soybeans	-0.78%	-2.68%	-3.02%
WEAT	Wheat	0.29%	-13.02%	-12.91%
CANE	Sugar	-1.21%	5.30%	12.49%
BAL	Cotton	3.45%	-5.15%	-2.52%
NIB	Cocoa	-2.28%	-0.56%	1.41%
JO	Coffee	1.11%	1.47%	7.80%

### Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.92%	0.68%	1.01%
UDN	Short Dollar	1.03%	-0.16%	0.27%
FXE	Euro	0.90%	0.17%	0.38%
FXB	British Pound Sterling	1.42%	0.65%	1.40%
FXF	Swiss Franc	1.12%	0.85%	1.31%
FXJ	Japanese Yen	1.14%	-0.82%	-1.70%
FXC	Canadian Dollar	0.59%	-2.72%	-1.07%
FXA	Australian Dollar	1.39%	-4.28%	-2.04%

\* 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 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)