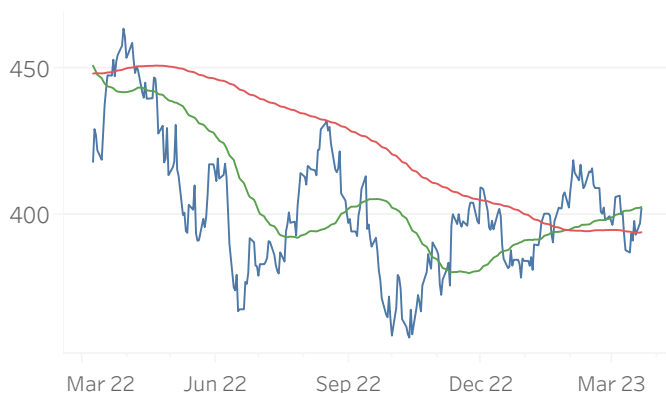


Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

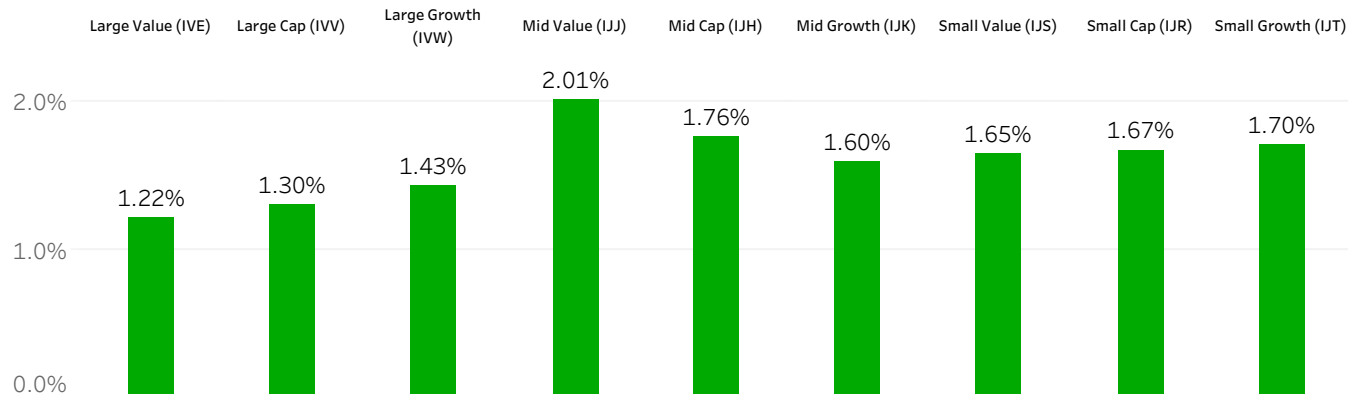


Small Cap Blend (S&P 600) IJR



■ 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
IPO	Renaissance IPO ETF	3.76%
BUZZ	VanEck Social Sentiment ETF	3.57%
BKMC	BNY Mellon US Mid Cap Core Equity ETF	3.48%
EQRR	ProShares Equities for Rising Rates ETF	3.29%
SDVY	First Trust SMID Cap Rising Dividend Achievers ETF	2.81%
SVAL	iShares US Small Cap Value Factor ETF	2.70%
DFSV	Dimensional US Small Cap Value ETF	2.69%
XMVM	Invesco S&P MidCap Value with Momentum ETF	2.66%
EES	WisdomTree U.S. SmallCap Fund	2.63%
AVUV	Avantis U.S. Small Cap Value ETF	2.63%

Size & Style Most Overbought

Ticker	Fund	Price
SPC	CrossingBridge Pre-Merger SPAC ETF	65.73
PTNQ	Pacer Trendpilot 100 ETF	64.29
QQQ	Invesco QQQ Trust	63.72
QQQM	Invesco NASDAQ 100 ETF	63.68
JEPQ	J.P. Morgan Nasdaq Equity Premium Income ETF	63.24
MGK	Vanguard Mega Cap Growth ETF	63.04
IWY	iShares Russell Top 200 Growth ETF	62.89
SCHG	Schwab U.S. Large-Cap Growth ETF	61.92
TMFC	Motley Fool 100 Index ETF	61.71
XLG	Invesco S&P 500 Top 50 ETF	61.08

Size & Style 1-Day Performance Laggards

Ticker	Fund	Performance
LVHD	Franklin U.S. Low Volatility High Dividend Index ETF	-0.38%
SPLV	Invesco S&P 500 Low Volatility ETF	-0.25%
ONOF	Global X Adaptive U.S. Risk Management ETF	-0.13%
HUSV	First Trust Horizon Managed Volatility Domestic ETF	0.01%
FVD	First Trust Value Line Dividend Index Fund	0.08%
SPC	CrossingBridge Pre-Merger SPAC ETF	0.11%
WBIG	WBI BullBear Yield 3000 ETF	0.14%
USMV	iShares MSCI USA Min Vol Factor ETF	0.14%
DURA	VanEck Durable High Dividend ETF	0.18%
RPHS	Regents Park Hedged Market Strategy ETF	0.24%

Size & Style Most Oversold

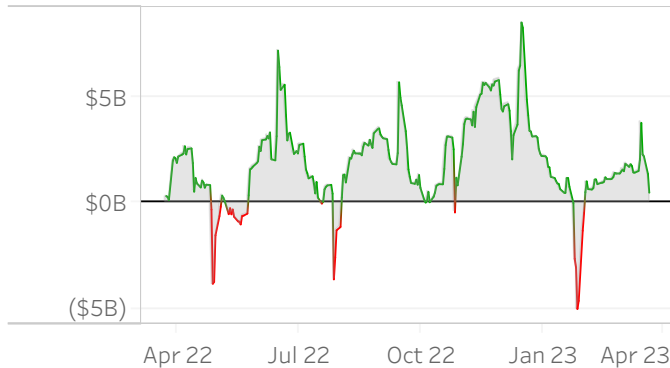
Ticker	Fund	Price
DIV	Global X SuperDividend US ETF	30.20
WBIG	WBI BullBear Yield 3000 ETF	31.14
RDIV	Invesco S&P Ultra Dividend Revenue ETF	32.53
RZV	Invesco S&P Smallcap 600 Pure Value ETF	32.84
RPV	Invesco S&P 500 Pure Value ETF	33.15
SPYD	SPDR Portfolio S&P 500 High Dividend ETF	33.40
NUMV	Nuveen ESG Mid-Cap Value ETF	35.10
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	35.17
IWC	iShares Micro-Cap ETF	35.26
SPVU	Invesco S&P 500 Enhanced Value ETF	36.10

*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	\$1,223B	\$12.98B	(\$11.20B)	\$15.70B	\$40.75B
Large Cap, Beta, Beta: Growth	10	\$233B	\$0.57B	\$0.30B	\$10.41B	\$21.49B
Large Cap, Beta, Beta: Value	11	\$215B	(\$1.87B)	(\$0.06B)	\$1.69B	\$6.43B
Mid Cap, Beta, Beta	10	\$178B	(\$1.20B)	\$2.00B	\$6.92B	\$11.63B
Mid Cap, Beta, Beta: Growth	6	\$32B	(\$0.24B)	(\$0.61B)	(\$0.25B)	\$0.54B
Mid Cap, Beta, Beta: Value	6	\$38B	(\$1.13B)	(\$0.29B)	\$0.77B	\$0.56B
Small Cap, Beta, Beta	13	\$187B	(\$0.83B)	\$1.66B	\$5.22B	\$0.95B
Small Cap, Beta, Beta: Growth	7	\$30B	(\$0.25B)	(\$0.43B)	\$0.66B	\$0.65B
Small Cap, Beta, Beta: Value	7	\$48B	(\$1.09B)	\$0.27B	\$1.64B	(\$1.79B)

U.S. Size & Style Flow Leaders

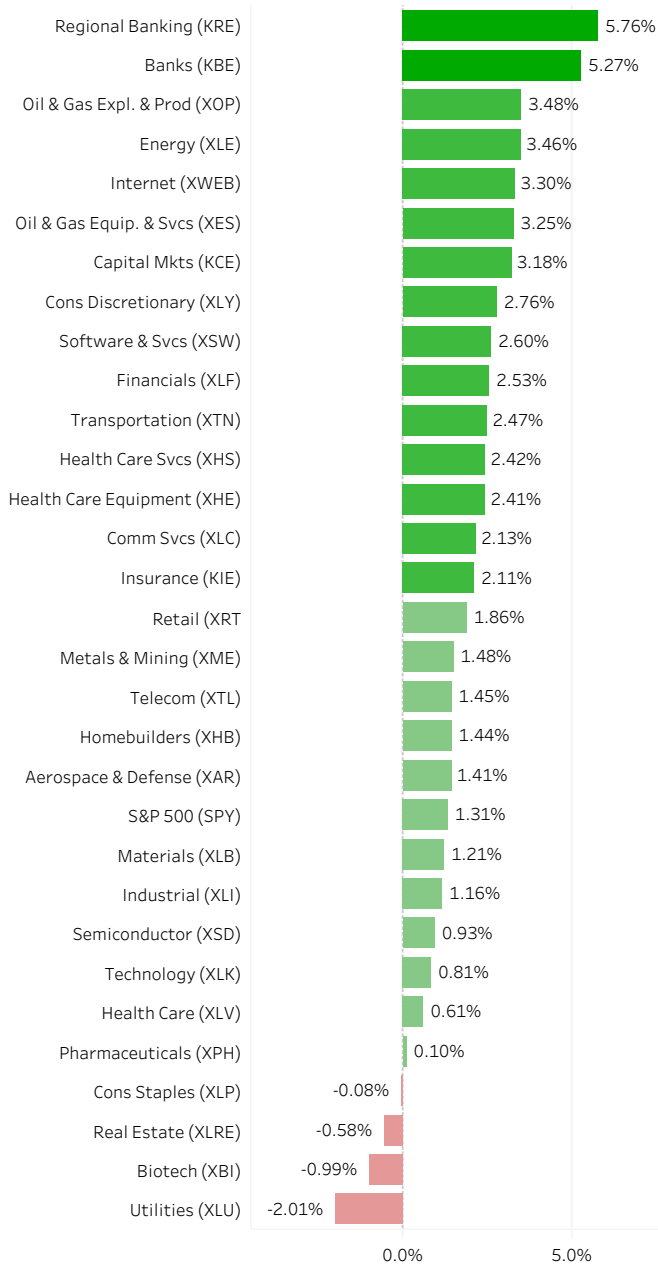
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	\$15.55B	(\$7.90B)	\$9.31B	\$4.74B	\$361.61B
QUAL	iShares MSCI USA Quality Factor ETF	\$6.34B	\$6.29B	\$5.66B	\$4.53B	\$24.81B
VIG	Vanguard Dividend Appreciation ETF	\$0.92B	(\$0.22B)	\$1.32B	\$2.37B	\$64.20B
IWM	iShares Russell 2000 ETF	\$0.91B	(\$1.60B)	\$0.22B	(\$3.25B)	\$50.74B
VOO	Vanguard S&P 500 ETF	\$0.74B	\$3.62B	\$7.98B	\$20.47B	\$274.34B
IWY	iShares Russell Top 200 Growth ETF	\$0.61B	\$0.79B	\$0.90B	\$1.75B	\$5.63B
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.54B	(\$0.96B)	(\$0.65B)	(\$1.24B)	\$27.20B
IWD	iShares Russell 1000 Value ETF	\$0.36B	(\$3.20B)	(\$1.90B)	(\$2.32B)	\$49.51B
IWF	iShares Russell 1000 Growth ETF	\$0.33B	(\$3.62B)	(\$0.66B)	(\$0.14B)	\$60.70B
IJH	iShares Core S&P Mid-Cap ETF	\$0.31B	\$1.36B	\$3.87B	\$5.42B	\$64.47B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
ESGU	iShares ESG Aware MSCI USA ETF	(\$4.92B)	(\$5.99B)	(\$7.72B)	(\$7.03B)	\$14.19B
VTI	Vanguard Total Stock Market ETF	(\$3.05B)	\$3.94B	\$10.84B	\$20.86B	\$271.65B
QQQ	Invesco QQQ Trust	(\$2.04B)	(\$4.09B)	(\$6.14B)	\$0.41B	\$161.44B
VO	Vanguard Mid-Cap ETF	(\$1.60B)	\$0.65B	\$1.54B	\$3.41B	\$50.29B
VTV	Vanguard Value ETF	(\$1.42B)	\$4.25B	\$0.42B	\$5.47B	\$98.80B
IVV	iShares Core S&P 500 ETF	(\$1.25B)	(\$3.99B)	(\$1.16B)	\$3.83B	\$295.36B
MTUM	iShares MSCI USA Momentum Factor ETF	(\$1.20B)	(\$1.29B)	\$0.68B	(\$0.01B)	\$9.86B
VB	Vanguard Small-Cap ETF	(\$1.11B)	\$1.37B	\$1.68B	\$0.46B	\$41.63B
VBR	Vanguard Small Cap Value ETF	(\$0.90B)	\$0.51B	\$1.32B	\$0.05B	\$23.49B
VUG	Vanguard Growth ETF	(\$0.65B)	\$1.88B	\$3.80B	\$9.23B	\$77.89B

* 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	-4.81%	19.12%	-2.42%	3.50%	44.57
XLP	Consumer Staples Select Sector SPDR Fund	-9.77%	9.32%	-0.38%	-0.40%	51.37
XLK	Technology Select Sector SPDR Fund	-10.39%	24.13%	5.05%	9.00%	63.42
XLV	Health Care Select Sector SPDR Fund	-10.57%	6.54%	-2.33%	-2.13%	47.74
SPY	SPDR S&P 500 ETF Trust	-12.67%	11.88%	-0.49%	1.70%	51.97
XLB	Materials Select Sector SPDR Fund	-14.24%	15.36%	-4.94%	0.19%	42.15
XLE	Energy Select Sector SPDR Fund	-14.55%	19.11%	-6.89%	-2.39%	41.97
XLU	Utilities Select Sector SPDR Fund	-15.96%	6.71%	-3.16%	-5.92%	44.26
XLF	Financial Select Sector SPDR Fund	-16.01%	5.51%	-9.48%	-5.56%	35.24
XLC	Communication Services Select Sector SPDR Fund	-20.72%	24.31%	3.64%	7.11%	62.08
XLY	Consumer Discretionary Select Sector SPDR Fund	-23.21%	15.18%	0.38%	-0.41%	54.33
XLRE	Real Estate Select Sector SPDR Fund	-28.56%	7.05%	-7.25%	-8.01%	35.09

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
IAT	iShares U.S. Regional Banks ETF	6.48%
KRE	SPDR S&P Regional Banking ETF	5.76%
KBWR	Invesco KBW Regional Banking ETF	5.50%
KBE	SPDR S&P Bank ETF	5.27%
KBWB	Invesco KBW Bank ETF	4.93%
FTXO	First Trust Nasdaq Bank ETF	4.40%
FXO	First Trust Financials AlphaDEX Fund	3.95%
QABA	First Trust NASDAQ ABA Community Bank Index F..	3.88%
PXI	Invesco DWA Energy Momentum ETF	3.85%
FCG	First Trust Natural Gas ETF	3.82%

Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
IYW	iShares U.S. Technology ETF	65.30
XLK	Technology Select Sector SPDR Fund	63.42
IGM	iShares Expanded Tech Sector ETF	62.69
VGT	Vanguard Information Technology ETF	62.64
XLC	Communication Services Select Sector SPDR Fund	62.08
FTEC	Fidelity MSCI Information Technology Index ETF	61.84
PNQI	Invesco NASDAQ Internet ETF	59.96
IETC	iShares U.S. Tech Independence Focused ETF	59.95
SOXX	iShares Semiconductor ETF	59.71
IGV	iShares Expanded Tech-Software Sector ETF	59.69

Sector & Industry 1 Day Performance Laggards

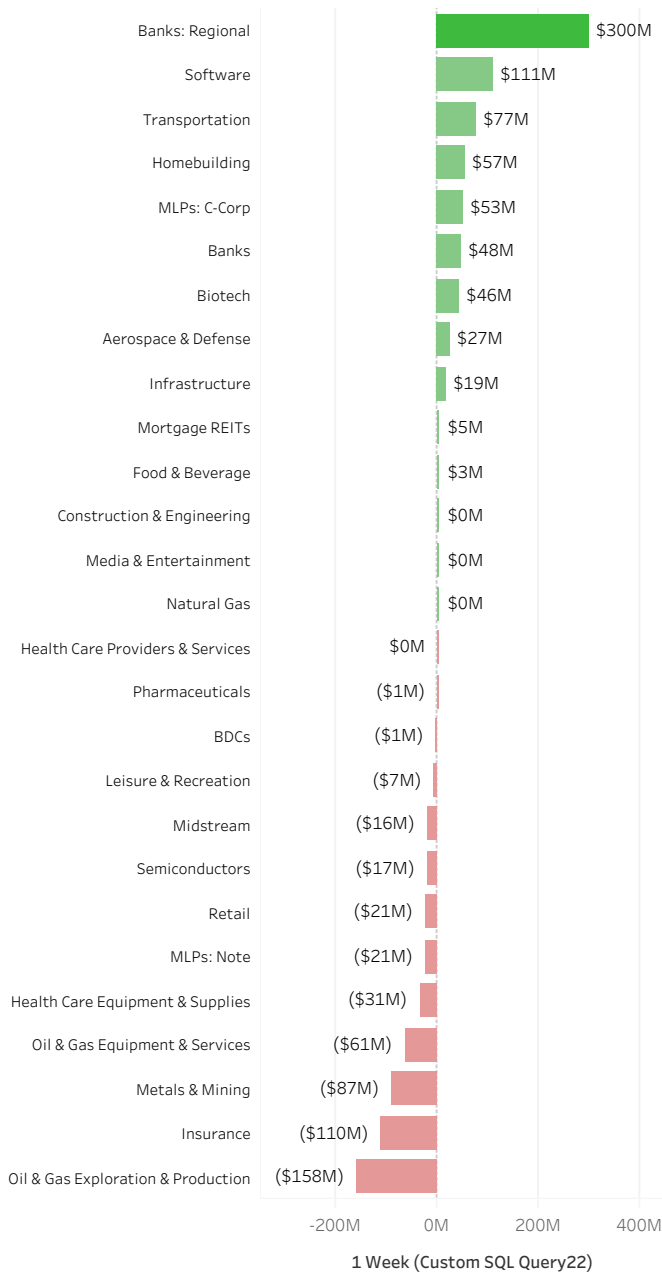
Ticker	Fund	1 Day Performance
RYU	Invesco S&P 500 Equal Weight Utilities ETF	-2.17%
XLU	Utilities Select Sector SPDR Fund	-2.01%
VPU	Vanguard Utilities ETF	-2.00%
FUTY	Fidelity MSCI Utilities Index ETF	-1.87%
IDU	iShares U.S. Utilities ETF	-1.73%
FXU	First Trust Utilities AlphaDEX Fund	-1.30%
REZ	iShares Residential and Multisector Real Estate ETF	-1.17%
XBI	SPDR S&P BIOTECH ETF	-0.99%
PTH	Invesco DWA Healthcare Momentum ETF	-0.89%
NURE	Nuveen Short-Term REIT ETF	-0.87%

Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
KBWY	Invesco KBW Premium Yield Equity REIT ETF	23.71
KBWB	Invesco KBW Bank ETF	28.52
KRE	SPDR S&P Regional Banking ETF	29.42
IAT	iShares U.S. Regional Banks ETF	29.43
FTXO	First Trust Nasdaq Bank ETF	29.54
MORT	VanEck Mortgage REIT Income ETF	30.65
REM	iShares Mortgage Real Estate ETF	30.93
KBE	SPDR S&P Bank ETF	31.59
EWRE	Invesco S&P 500 Equal Weight Real Estate ETF	31.82
RWR	SPDR Dow Jones REIT ETF	32.48

*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	\$13B	(\$3M)	(\$262M)	\$21M	(\$905M)
Consumer Discretionary	12	\$21B	\$119M	(\$82M)	(\$457M)	(\$3,000M)
Consumer Staples	10	\$28B	(\$330M)	(\$720M)	\$640M	\$4,224M
Energy	32	\$68B	(\$734M)	(\$3,947M)	(\$2,153M)	(\$8,713M)
Financials	26	\$54B	\$868M	\$1,726M	\$1,945M	(\$13,237M)
Health Care	23	\$88B	\$67M	(\$3,467M)	(\$536M)	\$4,431M
Industrial	13	\$30B	(\$787M)	\$575M	\$1,286M	(\$1,750M)
Materials	9	\$14B	(\$203M)	\$598M	\$166M	(\$2,545M)
Multi-Sector	19	\$14B	\$51M	\$67M	(\$377M)	(\$3,265M)
Real Estate	25	\$56B	(\$177M)	(\$2,365M)	(\$2,826M)	(\$5,489M)
Technology	23	\$127B	\$1,129M	(\$1,089M)	\$1,907M	\$1,241M
Utilities	9	\$25B	\$333M	(\$207M)	(\$812M)	\$3,523M

U.S. Sector & Industry Flow Leaders

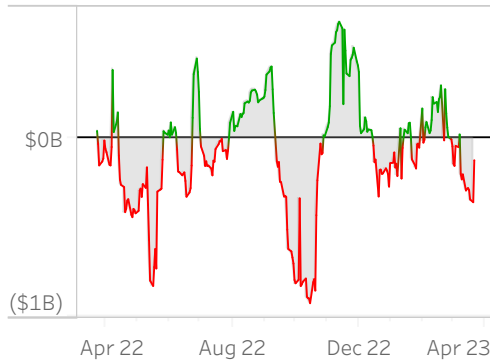
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	\$706M	\$178M	\$693M	(\$8,503M)	\$28,851M
VGT	Vanguard Information Technology ETF	\$497M	(\$188M)	\$71M	\$1,385M	\$45,173M
IYW	iShares U.S. Technology ETF	\$482M	\$537M	\$2,515M	\$2,024M	\$9,846M
XLU	Utilities Select Sector SPDR Fund	\$309M	(\$210M)	(\$497M)	\$2,367M	\$15,461M
KRE	SPDR S&P Regional Banking ETF	\$209M	\$1,039M	\$986M	(\$1,016M)	\$3,314M
XLY	Consumer Discretionary Select Sector SPDR Fu..	\$178M	(\$158M)	(\$548M)	(\$806M)	\$13,735M
IGV	iShares Expanded Tech-Software Sector ETF	\$112M	\$49M	\$858M	\$307M	\$5,052M
IAT	iShares U.S. Regional Banks ETF	\$93M	\$171M	\$108M	(\$309M)	\$683M
IYR	iShares U.S. Real Estate ETF	\$79M	(\$694M)	(\$425M)	(\$1,018M)	\$3,252M
IYT	iShares US Transportation ETF	\$77M	\$109M	(\$9M)	(\$587M)	\$788M

U.S. Sector & Industry Flow Laggards

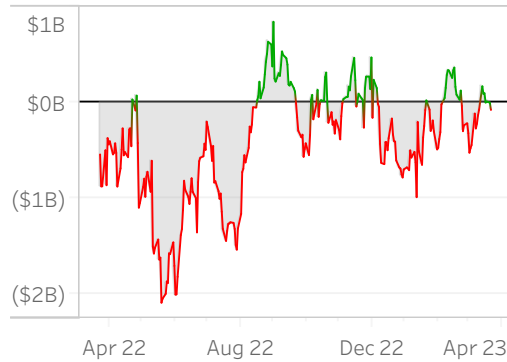
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLI	Industrial Select Sector SPDR Fund	(\$865M)	(\$600M)	(\$542M)	(\$2,300M)	\$12,862M
XLE	Energy Select Sector SPDR Fund	(\$316M)	(\$743M)	\$27M	(\$2,753M)	\$35,181M
XLP	Consumer Staples Select Sector SPDR Fund	(\$296M)	(\$739M)	\$391M	\$1,379M	\$16,169M
VNQ	Vanguard Real Estate ETF	(\$227M)	(\$714M)	(\$1,615M)	(\$3,523M)	\$32,158M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	(\$151M)	(\$1,015M)	(\$495M)	(\$2,745M)	\$3,223M
VDE	Vanguard Energy ETF	(\$129M)	(\$167M)	(\$249M)	(\$1,101M)	\$7,311M
XLB	Materials Select Sector SPDR Fund	(\$87M)	\$139M	(\$121M)	(\$1,374M)	\$5,216M
XME	SPDR S&P Metals & Mining ETF	(\$87M)	\$171M	\$350M	(\$662M)	\$2,143M
KIE	SPDR S&P Insurance ETF	(\$66M)	(\$68M)	(\$51M)	(\$41M)	\$408M
IEZ	iShares U.S. Oil Equipment & Services ETF	(\$55M)	\$3M	\$130M	\$93M	\$295M

* 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



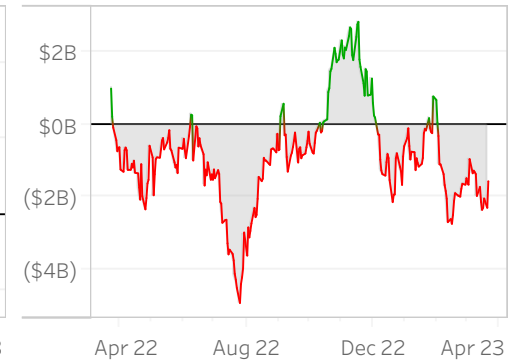
Consumer Discretionary



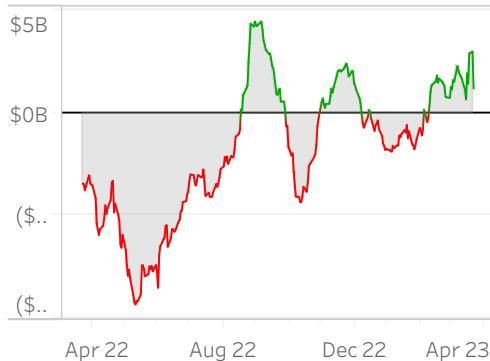
Consumer Staples



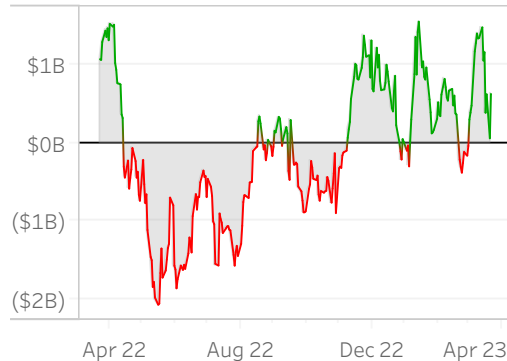
Energy



Financials



Industrial



Health Care



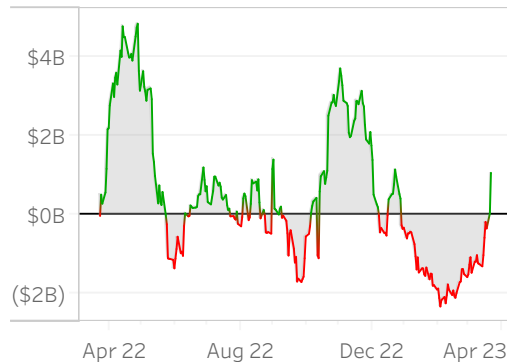
Materials



Real Estate



Technology



Utilities

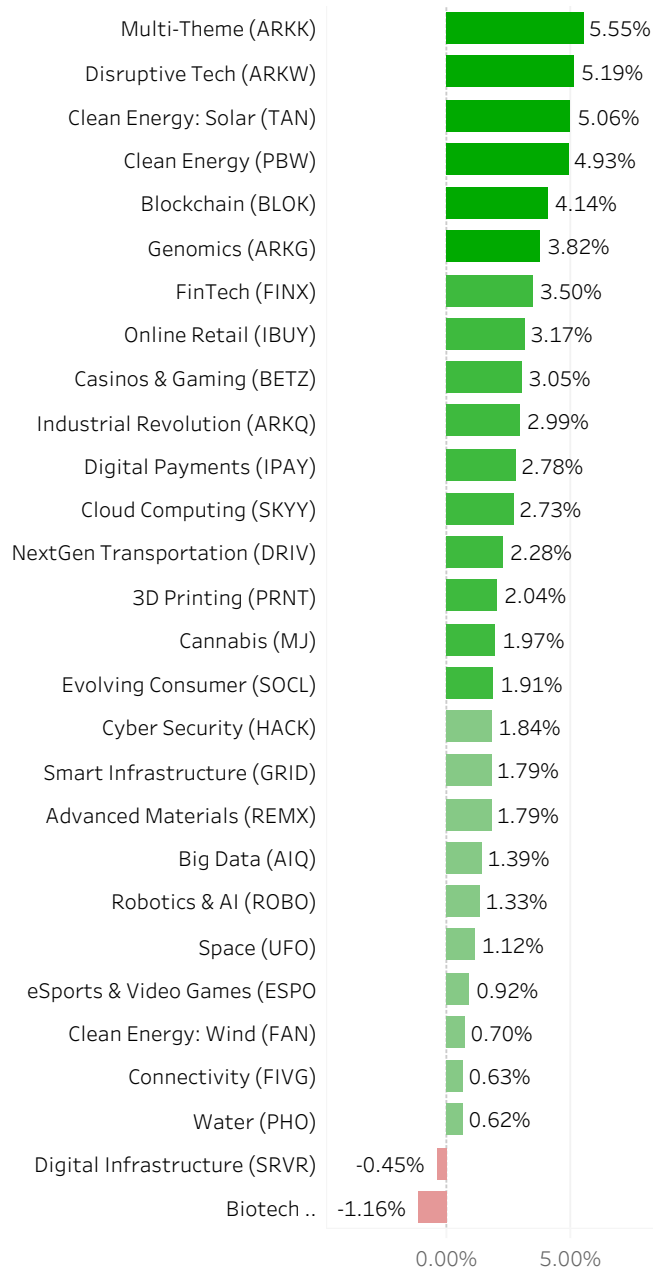


Multi-Sector

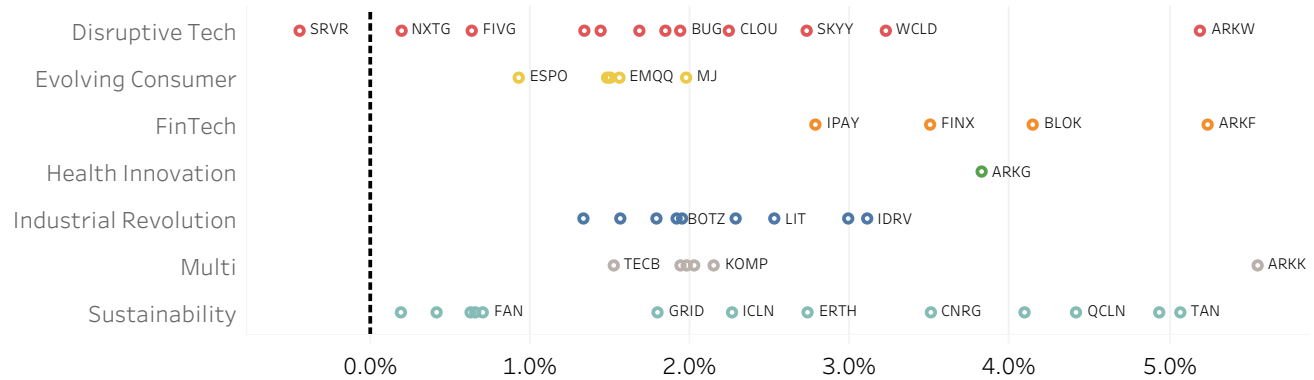


*ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
BITQ	Bitwise Crypto Industry Innovators ETF	7.35%
BKCH	Global X Blockchain ETF	6.48%
ARKK	ARK Innovation ETF	5.55%
ARKF	ARK Fintech Innovation ETF	5.23%
ARKW	ARK Next Generation Internet ETF	5.19%
TAN	Invesco Solar ETF	5.06%
PBW	Invesco WilderHill Clean Energy ETF	4.93%
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	4.41%
CTEC	Global X CleanTech ETF	4.17%
BLOK	Amplify Transformational Data Sharing ETF	4.14%

Thematic Most Overbought

Ticker	Fund	Price
BKCH	Global X Blockchain ETF	63.69
METV	Roundhill Ball Metaverse ETF	63.09
TIME	Clockwise Capital Innovation ETF	62.93
BLOK	Amplify Transformational Data Sharing ETF	62.00
BITQ	Bitwise Crypto Industry Innovators ETF	61.89
ESPO	VanEck Video Gaming and eSports ETF	61.72
TECB	iShares U.S. Tech Breakthrough Multisector ETF	60.96
ARKW	ARK Next Generation Internet ETF	60.90
ARKF	ARK Fintech Innovation ETF	59.27
BOTZ	Global X Robotics & Artificial Intelligence ETF	58.94

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
SBIO	ALPS Medical Breakthroughs ETF	-1.16%
SRVR	Pacer Data & Infrastructure Real Estate ETF	-0.45%
CGW	Invesco S&P Global Water Index ETF	0.19%
NXTG	First Trust Indxx NextG ETF	0.19%
FIW	First Trust Water ETF	0.41%
BTEC	Principal Healthcare Innovators ETF	0.47%
PHO	Invesco Water Resources ETF	0.62%
FIVG	Defiance Next Gen Connectivity ETF	0.63%
PIO	Invesco Global Water ETF	0.65%
GDOC	Goldman Sachs Future Health Care Equity ETF	0.67%

Thematic Most Oversold

Ticker	Fund	Price
MJ	ETFMG Alternative Harvest ETF	29.42
SBIO	ALPS Medical Breakthroughs ETF	32.09
MJUS	ETFMG U.S. Alternative Harvest ETF	34.89
UFO	Procore Space ETF	35.41
REMX	VanEck Rare Earth/Strategic Metals ETF	36.64
MSOS	AdvisorShares Pure US Cannabis ETF	37.22
RNRG	Global X Renewable Energy Producers ETF	37.57
PBW	Invesco WilderHill Clean Energy ETF	37.92
IDNA	iShares Genomics Immunology and Healthcare ETF	39.06
HAIL	SPDR S&P Kensho Smart Mobility ETF	39.27

* 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	
PBW	Invesco WilderHill Clean Energy ETF	\$10M
BOTZ	Global X Robotics & Artificial Intelligence ETF	\$10M
LEGR	First Trust Indxx Innovative Transaction & Process ETF	\$9M
IRBO	iShares Robotics and Artificial Intelligence Multisector ETF	\$6M
ROBT	First Trust Nasdaq Artificial Intelligence & Robotics ETF	\$4M
GTEK	Goldman Sachs Future Tech Leaders Equity ETF	\$3M
HJEN	Direxion Hydrogen ETF	\$3M
TIME	Clockwise Capital Innovation ETF	\$2M
ACES	ALPS Clean Energy ETF	\$2M
BLOK	Amplify Transformational Data Sharing ETF	\$2M

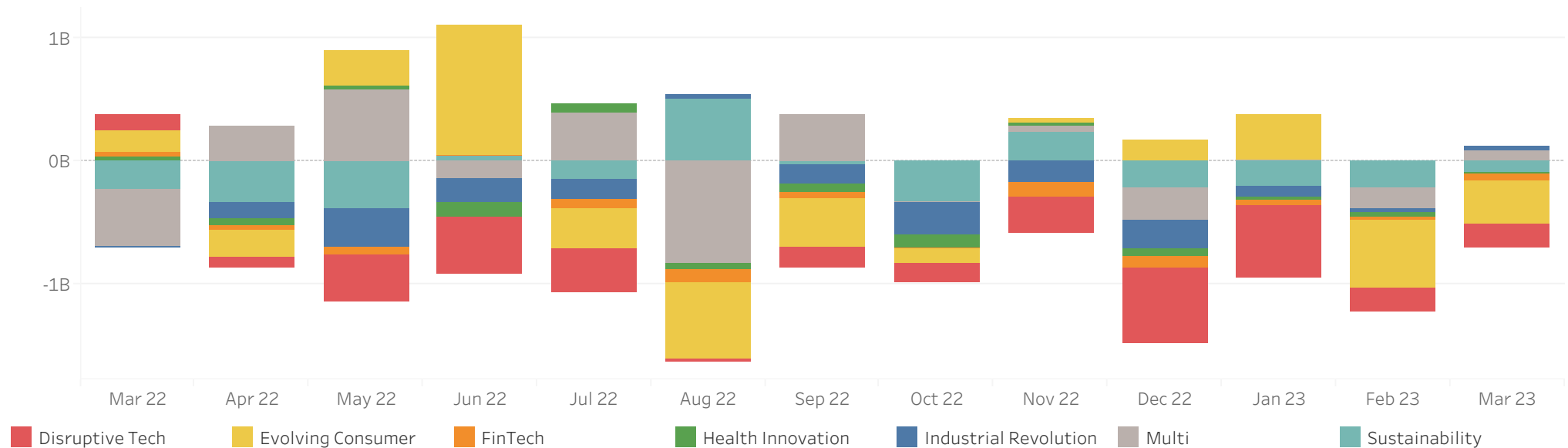
Thematic 1 Week Flow Laggards

Ticker	Fund	
ARKK	ARK Innovation ETF	(\$173M)
KWEB	KraneShares CSI China Internet ETF	(\$84M)
ARKG	ARK Genomic Revolution ETF	(\$32M)
ARKF	ARK Fintech Innovation ETF	(\$27M)
CIBR	First Trust NASDAQ Cybersecurity ETF	(\$16M)
ICLN	iShares Global Clean Energy ETF	(\$15M)
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	(\$14M)
XT	iShares Exponential Technologies ETF	(\$13M)
SKYY	First Trust Cloud Computing ETF	(\$12M)
LIT	Global X Lithium & Battery Tech ETF	(\$11M)

Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	34	\$15B	(\$57M)	(\$1,097M)	(\$2,030M)	(\$3,349M)
Evolving Consumer	45	\$9B	(\$69M)	(\$600M)	(\$713M)	(\$518M)
FinTech	19	\$2B	(\$18M)	(\$150M)	(\$353M)	(\$610M)
Health Innovation	19	\$3B	(\$39M)	(\$81M)	(\$233M)	(\$411M)
Industrial Revolution	31	\$10B	(\$8M)	(\$168M)	(\$808M)	(\$1,690M)
Multi	41	\$14B	(\$144M)	(\$229M)	(\$8M)	(\$57M)
Sustainability	40	\$16B	(\$35M)	(\$644M)	(\$872M)	(\$1,381M)
Grand Total	229	\$70B	(\$370M)	(\$2,969M)	(\$5,016M)	(\$8,017M)

Thematic Monthly Flows

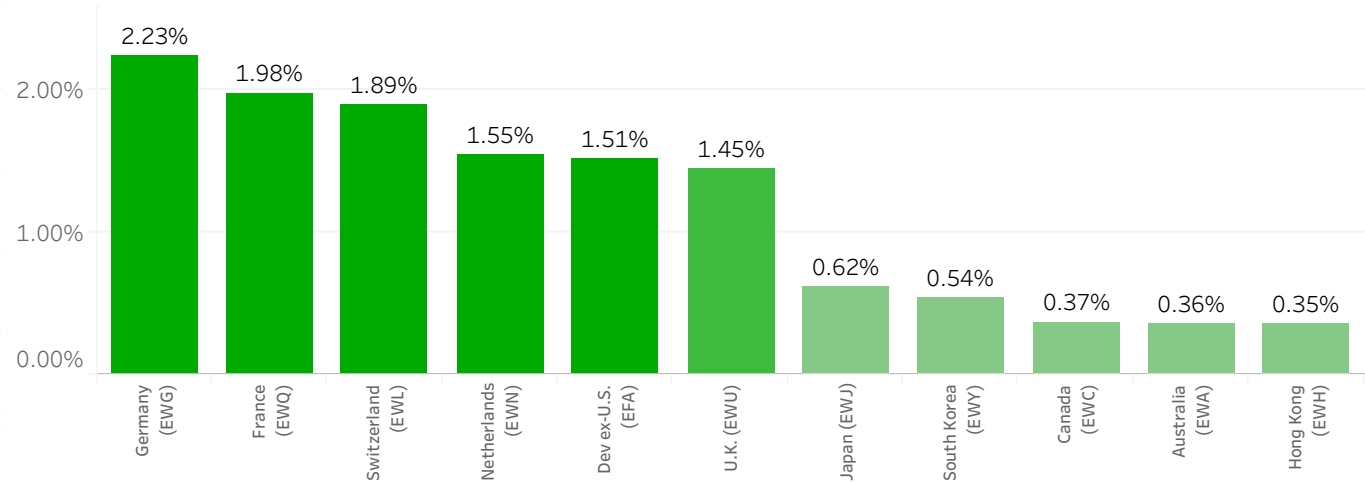


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Developed ex-U.S. (EFA)



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



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



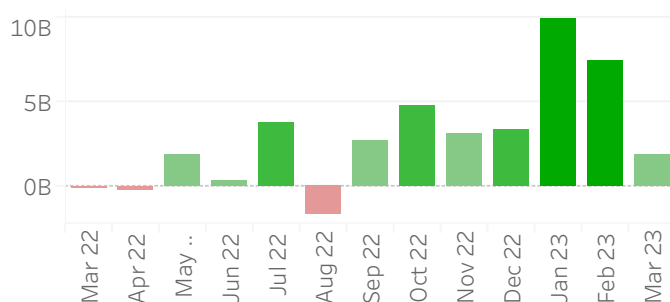
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
GREK	Global X MSCI Greece ETF	4.19%
EWI	iShares MSCI Italy ETF	3.03%
EWP	iShares MSCI Spain ETF	2.96%
EIRL	iShares MSCI Ireland ETF	2.93%
FEP	First Trust Europe AlphaDEX Fund	2.52%
FSZ	First Trust Switzerland AlphaDEX Fund	2.37%
EWG	iShares MSCI Germany ETF	2.23%
NORW	Global X MSCI Norway ETF	2.22%
EZU	iShares MSCI Eurozone ETF	2.18%
IVAL	Alpha Architect International Quantitative Value ETF	2.14%

Developed ex-U.S. Most Overbought

Ticker	Fund	Price
EIRL	iShares MSCI Ireland ETF	57.98
EFV	iShares MSCI EAFE Min Vol Factor ETF	55.67
EFG	iShares MSCI EAFE Growth ETF	54.85
IQDG	WisdomTree International Quality Dividend Growth Fund	54.75
EUDG	WisdomTree Europe Quality Dividend Growth Fund	54.75
EDEN	iShares MSCI Denmark ETF	54.16
BKCI	BNY Mellon Concentrated International ETF	53.23
FLJP	Franklin FTSE Japan ETF	52.85
FSZ	First Trust Switzerland AlphaDEX Fund	52.67
IHDG	WisdomTree International Hedged Quality Dividend Growth	52.34

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
ENZL	iShares MSCI New Zealand ETF	-1.18%
ISDX	Invesco RAFI Strategic Developed ex-US ETF	-0.07%
IDLV	Invesco S&P International Developed Low Volatility ETF	0.04%
SCJ	iShares MSCI Japan Small-Cap ETF	0.19%
EWH	iShares MSCI Hong Kong ETF	0.35%
EPP	iShares MSCI Pacific ex-Japan ETF	0.35%
EWA	iShares MSCI Australia ETF	0.36%
EWC	iShares MSCI Canada ETF	0.37%
DFJ	WisdomTree Japan SmallCap Dividend Fund	0.38%
VPL	Vanguard FTSE Pacific ETF	0.43%

Developed ex-U.S. Most Oversold

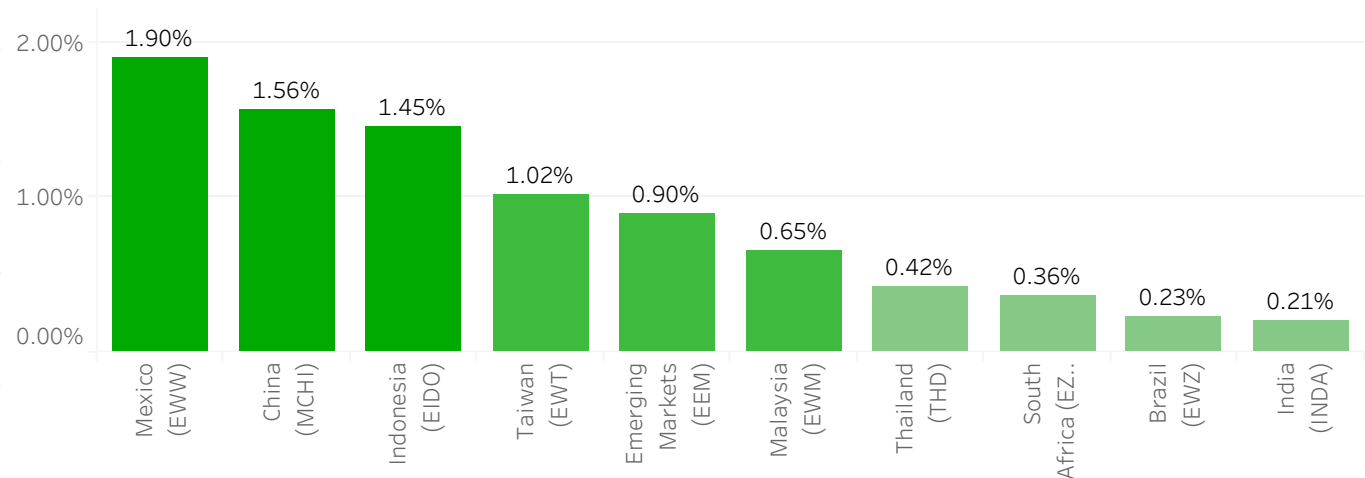
Ticker	Fund	Price
BBAX	JPMorgan BetaBuilders Developed Asia Pacific-ex Ja..	34.37
EWH	iShares MSCI Hong Kong ETF	35.84
BBCA	JPMorgan BetaBuilders Canada ETF	38.50
ISDX	Invesco RAFI Strategic Developed ex-US ETF	39.13
FLCA	Franklin FTSE Canada ETF	39.35
FIDI	Fidelity International High Dividend ETF	39.42
EPP	iShares MSCI Pacific ex-Japan ETF	39.79
EWA	iShares MSCI Australia ETF	40.03
EWC	iShares MSCI Canada ETF	40.43
ENZL	iShares MSCI New Zealand ETF	40.75

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

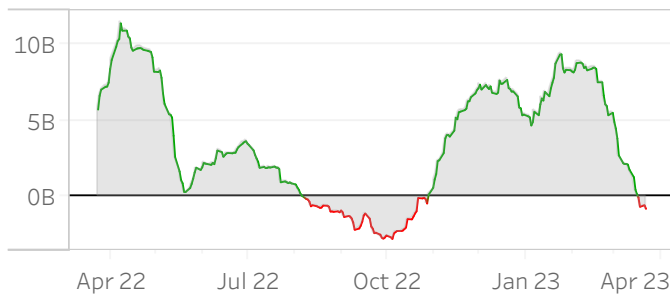
Emerging (EEM)



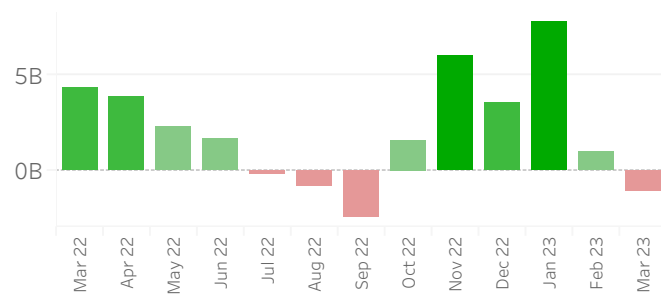
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
EPOL	iShares MSCI Poland ETF	3.23%
ECH	iShares MSCI Chile ETF	3.13%
PGJ	Invesco Golden Dragon China ETF	2.42%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	2.26%
ECNS	iShares MSCI China Small-Cap ETF	1.95%
EWW	iShares MSCI Mexico ETF	1.90%
DGRE	WisdomTree Emerging Markets Quality Dividend Growt..	1.85%
GXC	SPDR S&P China ETF	1.67%
NUEM	Nuveen ESG Emerging Markets Equity ETF	1.56%
MCHI	iShares MSCI China ETF	1.56%

Emerging Most Overbought

Ticker	Fund	Value
FLTW	Franklin FTSE Taiwan ETF	55.26
KSA	iShares MSCI Saudi Arabia ETF	53.94
EWT	iShares MSCI Taiwan ETF	52.88
EDIV	SPDR S&P Emerging Markets Dividend ETF	51.92
EEMV	iShares MSCI Emerging Markets Min Vol Factor ETF	50.35
EPHE	iShares MSCI Philippines ETF	50.06
VNM	VanEck Vietnam ETF	50.00
EPU	iShares MSCI Peru ETF	48.55
EIDO	iShares MSCI Indonesia ETF	47.87
EWW	iShares MSCI Mexico ETF	47.17

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
TUR	iShares MSCI Turkey ETF	-2.26%
EWZS	iShares MSCI Brazil Small-Cap ETF	-0.71%
EPI	WisdomTree India Earnings Fund	-0.22%
NFTY	First Trust India NIFTY 50 Equal Weight ETF	-0.17%
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fund	-0.14%
ADRE	Invesco BLDERS Emerging Markets 50 ADR Index Fund	-0.13%
SMIN	iShares MSCI India Small Cap ETF	-0.02%
FLIN	Franklin FTSE India ETF	0.13%
FLBR	Franklin FTSE Brazil ETF	0.16%
QAT	iShares MSCI Qatar ETF	0.17%

Emerging Most Oversold

Ticker	Fund	Value
ECNS	iShares MSCI China Small-Cap ETF	33.62
EZA	iShares MSCI South Africa ETF	33.73
QAT	iShares MSCI Qatar ETF	34.03
KWT	iShares MSCI Kuwait ETF	34.88
FEMS	First Trust Emerging Markets Small Cap AlphaDEX F..	35.18
DVYE	iShares Emerging Markets Dividend ETF	35.22
EYLD	Cambria Emerging Shareholder Yield ETF	36.62
FLBR	Franklin FTSE Brazil ETF	37.04
EWZS	iShares MSCI Brazil Small-Cap ETF	37.04
FLN	First Trust Latin America AlphaDEX Fund	37.25

* 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	-0.30%	2.02%	2.36%
SHY	1-3 Year Treasury Bonds	-0.38%	1.24%	1.24%
IEF	7-10 Year Treasury Bonds	-0.87%	2.98%	2.75%
TLT	20+ Year Treasury Bonds	-0.86%	4.85%	6.00%
TIP	TIPS Bonds	-0.21%	1.42%	1.93%
FLOT	Floating Rate Bonds	0.76%	-0.29%	0.81%
LQD	Investment Grade Corporate	0.48%	2.89%	3.30%
HYG	High Yield Corporate	1.09%	1.38%	1.56%
BKLN	Senior Loan	0.88%	-0.58%	2.29%
PFF	Preferred & Income Securities	1.71%	-4.83%	0.61%
MUB	Municipal Bonds	-0.33%	1.45%	1.35%
MBB	MBS	-0.19%	1.71%	2.01%
EMB	Dollar Denominated EM Bonds	0.71%	1.32%	1.06%
LEMB	Local Currency EM Bond	0.26%	0.80%	1.53%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	0.07%	-4.38%	-9.37%
DBE	Energy	1.48%	-5.94%	-13.06%
USO	WTI Crude Oil	2.41%	-8.19%	-12.67%
BNO	Brent Crude Oil	2.04%	-8.53%	-11.63%
UNG	Natural Gas	3.62%	7.21%	-45.18%
UGA	Gasoline	0.33%	-3.15%	-5.57%
DBP	Precious Metals	-1.71%	4.89%	3.20%
GLD	Gold	-1.89%	5.71%	6.33%
SLV	Silver	-0.72%	2.34%	-6.72%
PPLT	abrdn Physical Platin..	-1.56%	2.87%	-9.40%
PALL	abrdn Physical Palla..	-0.38%	-7.95%	-21.43%
DBB	Base Metals	0.00%	-6.51%	0.36%
CPER	Copper	1.24%	-4.23%	5.98%
LD	Lead	-0.24%	-1.74%	-8.73%
JJN	Nickel	-1.47%	-17.25%	-25.04%
JJU	Aluminum	-0.45%	-7.85%	-6.01%
JJT	Tin	1.24%	-15.80%	-7.26%
DBA	Agriculture	0.10%	-4.06%	-1.54%
CORN	Corn	-0.93%	-8.47%	-8.95%
SOYB	Soybeans	-1.03%	-6.55%	-5.93%
WEAT	Wheat	-2.13%	-10.17%	-13.66%
CANE	Sugar	1.14%	3.30%	11.75%
BAL	Cotton	1.06%	-4.00%	-6.10%
NIB	Cocoa	1.12%	1.46%	9.24%
JO	Coffee	1.15%	-4.84%	8.78%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.04%	-0.53%	0.79%
UDN	Short Dollar	0.05%	1.14%	0.81%
FXE	Euro	0.43%	1.29%	0.77%
FXB	British Pound Sterling	-0.57%	1.08%	1.64%
FXF	Swiss Franc	0.75%	0.55%	0.11%
FXJ	Japanese Yen	-0.76%	1.82%	-1.07%
FXC	Canadian Dollar	-0.46%	-1.25%	-0.98%
FXA	Australian Dollar	-0.72%	-2.58%	-1.86%

*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