

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

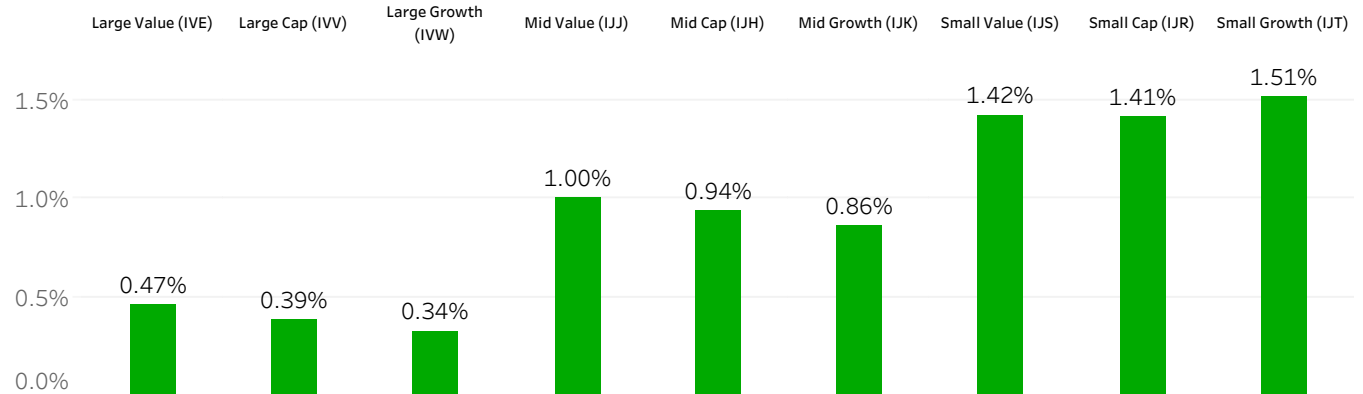


Small Cap Blend (S&P 600) IJR



■ 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
IWC	iShares Micro-Cap ETF	2.40%
VTWV	Vanguard Russell 2000 Value ETF	2.18%
QVAL	Alpha Architect US Quantitative Value ETF	1.97%
QMOM	Momentumshares US Quantitative Momentum ETF	1.88%
BUZZ	VanEck Social Sentiment ETF	1.88%
FYC	First Trust Small Cap Growth AlphaDEX Fund	1.82%
DWAS	Invesco DWA SmallCap Momentum ETF	1.80%
IWO	iShares Russell 2000 Growth ETF	1.79%
VTWG	Vanguard Russell 2000 Growth ETF	1.77%
BBSC	JPMorgan BetaBuilders U.S. Small Cap Equity ETF	1.76%

Size & Style Most Overbought

Ticker	Fund	Price
RFV	Invesco S&P Midcap 400 Pure Value ETF	73.87
RPV	Invesco S&P 500 Pure Value ETF	72.60
RZV	Invesco S&P Smallcap 600 Pure Value ETF	71.47
FNK	First Trust Mid Cap Value AlphaDEX Fund	70.39
IJJ	iShares S&P Mid-Cap 400 Value ETF	70.11
MDYV	SPDR S&P 400 Mid Cap Value ETF	69.43
DGRS	WisdomTree US Smallcap Quality Dividend Growth Fund	69.41
SDVY	First Trust SMID Cap Rising Dividend Achievers ETF	69.28
IJS	iShares S&P Small-Cap 600 Value ETF	69.01
RWJ	Invesco S&P SmallCap 600 Revenue ETF	68.91

Size & Style 1-Day Performance Laggards

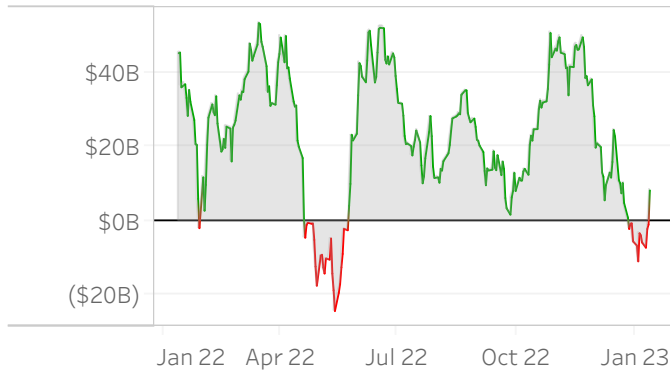
Ticker	Fund	Performance
SPLV	Invesco S&P 500 Low Volatility ETF	-0.58%
XRLV	Invesco S&P 500 ex-Rate Sensitive Low Volatility ETF	-0.47%
ALTL	Pacer Lunt Large Cap Alternator ETF	-0.46%
HUSV	First Trust Horizon Managed Volatility Domestic ETF	-0.39%
USMV	iShares MSCI USA Min Vol Factor ETF	-0.27%
LVHD	Franklin U.S. Low Volatility High Dividend Index ETF	-0.24%
USMC	Principal U.S. Mega-Cap ETF	-0.24%
VSDA	VictoryShares Dividend Accelerator ETF	-0.24%
QQXT	First Trust Nasdaq-100 Ex-Technology Sector Index Fund	-0.15%
CDC	VictoryShares US EQ Income Enhanced Volatility Wtd ETF	-0.15%

Size & Style Most Oversold

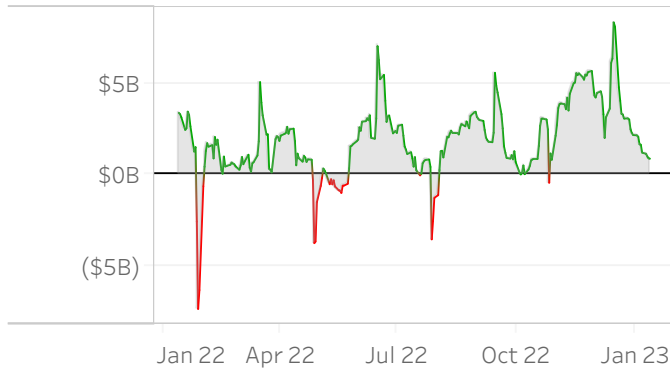
Ticker	Fund	Price
PTLC	Pacer Trendpilot US Large Cap ETF	39.71
WBIG	WBI BullBear Yield 3000 ETF	41.67
CFO	VictoryShares US 500 Enhanced Volatility Wtd ETF	47.55
QMOM	Momentumshares US Quantitative Momentum E..	47.79
SPC	CrossingBridge Pre-Merger SPAC ETF	48.56
RPHS	Regents Park Hedged Market Strategy ETF	48.58
FFTY	Innovator IBD 50 ETF	48.60
AUSF	Global X Adaptive U.S. Factor ETF	49.26
MTUM	iShares MSCI USA Momentum Factor ETF	49.47
ONOF	Global X Adaptive U.S. Risk Management ETF	49.96

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

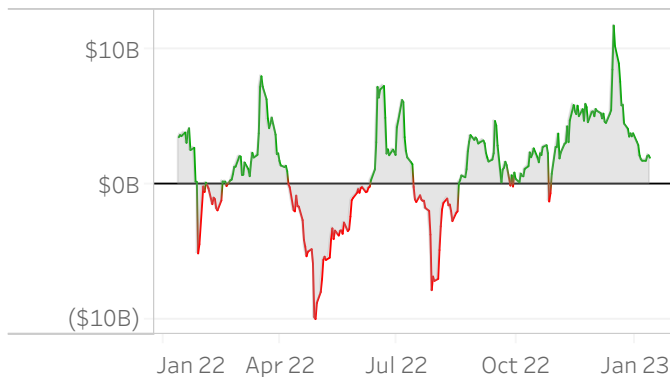
Large-Cap 30-Day Rolling Flows



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	\$1,218B	\$0.04B	\$8.22B	\$30.63B	\$62.20B
Large Cap, Beta, Beta: Growth	10	\$220B	(\$0.54B)	\$8.21B	\$14.22B	\$22.02B
Large Cap, Beta, Beta: Value	11	\$229B	(\$0.71B)	\$0.36B	\$2.04B	\$18.21B
Mid Cap, Beta, Beta	10	\$186B	\$0.25B	\$4.91B	\$6.90B	\$11.63B
Mid Cap, Beta, Beta: Growth	6	\$33B	(\$0.11B)	\$0.09B	\$0.99B	\$0.71B
Mid Cap, Beta, Beta: Value	6	\$42B	(\$0.08B)	\$1.08B	\$1.61B	\$1.50B
Small Cap, Beta, Beta	13	\$194B	\$0.17B	\$2.05B	\$5.52B	\$1.08B
Small Cap, Beta, Beta: Growth	7	\$32B	(\$0.13B)	\$0.89B	\$1.17B	\$1.87B
Small Cap, Beta, Beta: Value	7	\$51B	\$0.03B	\$1.17B	(\$0.04B)	(\$2.65B)

U.S. Size & Style Flow Leaders

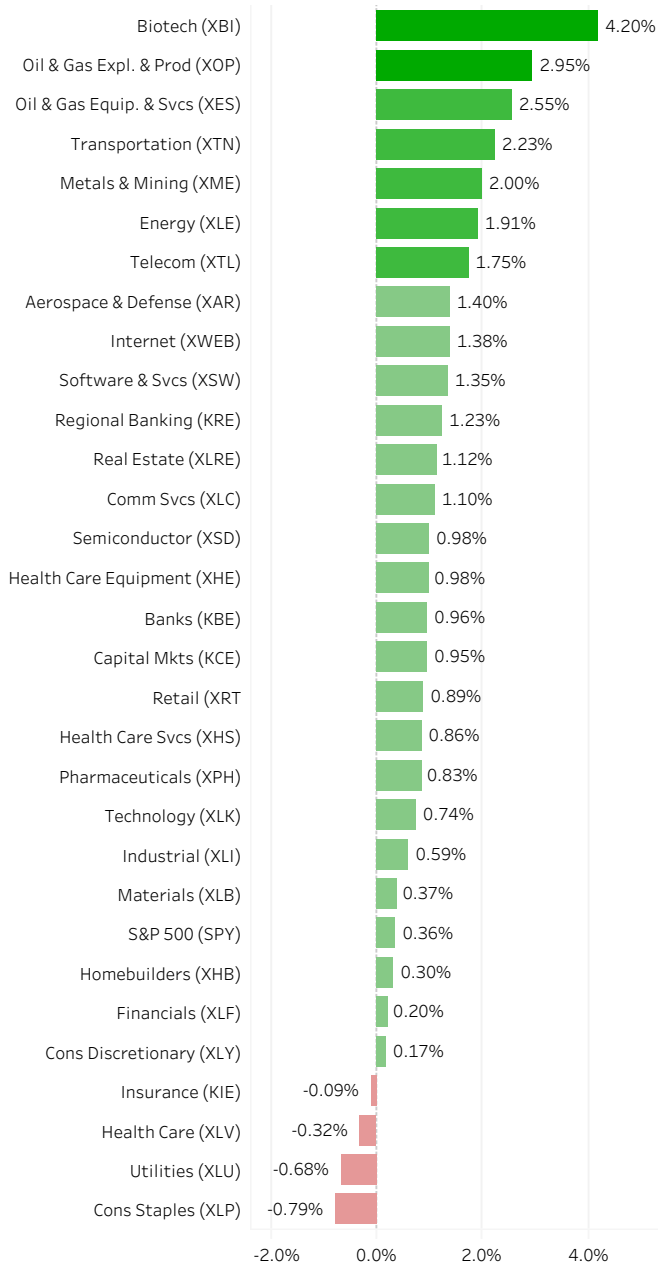
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPYX	SPDR S&P 500 Fossil Fuel Reserves Free ETF	\$2.52B	\$2.55B	\$2.56B	\$2.65B	\$3.77B
SPY	SPDR S&P 500 ETF Trust	\$1.79B	\$6.56B	\$9.51B	(\$11.74B)	\$369.65B
RSP	Invesco S&P 500 Equal Weight ETF	\$0.52B	\$2.66B	\$2.65B	\$4.78B	\$34.80B
SCHD	Schwab US Dividend Equity ETF	\$0.41B	\$4.76B	\$8.41B	\$15.33B	\$46.63B
VOO	Vanguard S&P 500 ETF	\$0.28B	\$2.32B	\$13.25B	\$41.20B	\$271.73B
VTI	Vanguard Total Stock Market ETF	\$0.19B	\$5.49B	\$13.21B	\$25.02B	\$271.12B
COWZ	Pacer US Cash Cows 100 ETF	\$0.17B	\$2.61B	\$4.15B	\$9.42B	\$11.03B
MTUM	iShares MSCI USA Momentum Factor ETF	\$0.12B	\$1.58B	\$1.22B	\$0.35B	\$12.12B
QQQM	Invesco NASDAQ 100 ETF	\$0.12B	\$1.13B	\$1.99B	\$3.47B	\$5.96B
SPYG	SPDR Portfolio S&P 500 Growth ETF	\$0.12B	\$1.53B	\$2.64B	\$2.90B	\$13.97B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
QQQ	Invesco QQQ Trust	(\$1.33B)	(\$3.19B)	(\$4.92B)	(\$0.48B)	\$149.41B
ESGU	iShares ESG Aware MSCI USA ETF	(\$0.68B)	(\$2.30B)	(\$2.30B)	(\$1.40B)	\$19.68B
IWF	iShares Russell 1000 Growth ETF	(\$0.64B)	\$1.99B	\$2.36B	\$3.05B	\$60.26B
IWD	iShares Russell 1000 Value ETF	(\$0.62B)	\$0.16B	\$0.00B	(\$0.28B)	\$55.14B
IVV	iShares Core S&P 500 ETF	(\$0.45B)	(\$0.16B)	\$5.23B	\$20.40B	\$298.44B
ITOT	iShares Core S&P Total U.S. Stock Market ETF	(\$0.41B)	(\$0.93B)	(\$2.05B)	\$1.58B	\$40.22B
SPLG	SPDR Portfolio S&P 500 ETF	(\$0.21B)	\$0.51B	\$1.44B	\$3.65B	\$14.97B
VLUE	iShares MSCI USA Value Factor ETF	(\$0.19B)	(\$0.50B)	(\$1.59B)	(\$7.03B)	\$7.74B
VIG	Vanguard Dividend Appreciation ETF	(\$0.17B)	\$1.06B	\$1.59B	\$3.57B	\$66.90B
HDV	iShares Core High Dividend ETF	(\$0.15B)	(\$0.11B)	(\$0.49B)	\$5.42B	\$13.23B

\* 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	-2.03%	23.83%	3.26%	9.17%	64.38
XLE	Energy Select Sector SPDR Fund	-4.53%	37.76%	1.56%	10.40%	59.52
XLV	Health Care Select Sector SPDR Fund	-5.59%	12.48%	-0.68%	3.10%	47.20
XLP	Consumer Staples Select Sector SPDR Fund	-7.67%	11.86%	-0.78%	0.93%	46.29
XLB	Materials Select Sector SPDR Fund	-8.03%	23.71%	4.02%	6.23%	65.56
XLU	Utilities Select Sector SPDR Fund	-8.36%	16.37%	2.10%	0.65%	55.16
XLF	Financial Select Sector SPDR Fund	-12.65%	18.36%	2.79%	6.16%	65.85
SPY	SPDR S&P 500 ETF Trust	-13.99%	11.33%	1.52%	0.45%	60.15
XLK	Technology Select Sector SPDR Fund	-20.69%	11.63%	1.03%	-2.34%	57.96
XLRE	Real Estate Select Sector SPDR Fund	-21.36%	17.83%	5.12%	-2.44%	65.24
XLY	Consumer Discretionary Select Sector SPDR Fund	-27.74%	9.62%	1.12%	-7.35%	61.00
XLC	Communication Services Select Sector SPDR Fund	-31.41%	14.91%	6.09%	-3.64%	69.60

## Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
XBI	SPDR S&P BIOTECH ETF	4.20%
PSCE	Invesco S&P SmallCap Energy ETF	3.08%
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	2.95%
PXE	Invesco Dynamic Energy Exploration & Production ..	2.94%
FCG	First Trust Natural Gas ETF	2.78%
IEZ	iShares U.S. Oil Equipment & Services ETF	2.62%
FXN	First Trust Energy AlphaDEX Fund	2.58%
PXI	Invesco DWA Energy Momentum ETF	2.57%
XES	SPDR S&P Oil & Gas Equipment & Services ETF	2.55%
PXJ	Invesco Dynamic Oil & Gas Services ETF	2.46%

## Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
FXZ	First Trust Materials AlphaDEX Fund	73.53
FXD	First Trust Consumer Discretionary AlphaDEX Fund	72.34
ITB	iShares U.S. Home Construction ETF	72.21
IYZ	iShares U.S. Telecommunications ETF	72.02
PEJ	Invesco Dynamic Leisure & Entertainment ETF	70.47
RCD	Invesco S&P 500 Equal Weight Consumer Discretionary ..	70.43
XHB	SPDR S&P Homebuilders ETF	69.95
XLC	Communication Services Select Sector SPDR Fund	69.60
IYG	iShares US Financial Services ETF	69.25
VOX	Vanguard Communication Services ETF	69.21

## Sector & Industry 1 Day Performance Laggards

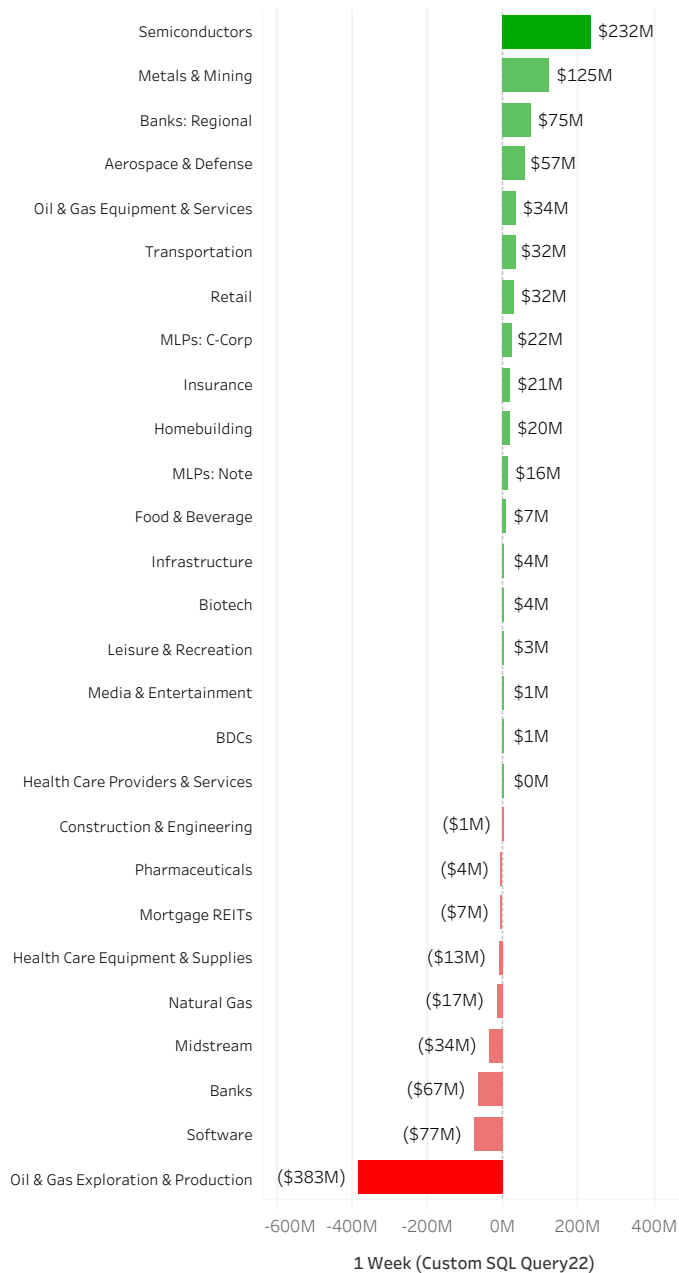
Ticker	Fund	1 Day Performance
XLP	Consumer Staples Select Sector SPDR Fund	-0.79%
IDU	iShares U.S. Utilities ETF	-0.76%
RHS	Invesco S&P 500 Equal Weight Consumer Staples ETF	-0.71%
XLU	Utilities Select Sector SPDR Fund	-0.68%
IYK	iShares U.S. Consumer Staples ETF	-0.68%
RYU	Invesco S&P 500 Equal Weight Utilities ETF	-0.67%
FSTA	FIDELITY COVINGTON TRUST MSCI CONSUMER STAPL..	-0.60%
VDC	Vanguard Consumer Staples ETF	-0.57%
FTXG	First Trust Nasdaq Food & Beverage ETF	-0.55%
RYH	Invesco S&P 500 Equal Weight Health Care ETF	-0.51%

## Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
PINK	Simplify Health Care ETF	41.25
IHF	iShares U.S. Healthcare Providers ETF	43.21
IYK	iShares U.S. Consumer Staples ETF	43.71
XLP	Consumer Staples Select Sector SPDR Fund	46.29
XLV	Health Care Select Sector SPDR Fund	47.20
FTXG	First Trust Nasdaq Food & Beverage ETF	47.30
RHS	Invesco S&P 500 Equal Weight Consumer Staples ETF	47.99
FSTA	FIDELITY COVINGTON TRUST MSCI CONSUMER STAPLES I..	48.21
VDC	Vanguard Consumer Staples ETF	48.32
IYH	iShares U.S. Healthcare ETF	49.30

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



## U.S. Sector Landscape

	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Communication Services	7	\$12B	\$203M	\$463M	(\$146M)	(\$822M)
Consumer Discretionary	12	\$21B	\$90M	(\$227M)	(\$197M)	(\$5,956M)
Consumer Staples	10	\$30B	\$66M	\$1,941M	\$2,926M	\$7,387M
Energy	32	\$80B	(\$561M)	(\$16M)	(\$793M)	(\$2,800M)
Financials	26	\$61B	\$423M	\$1,002M	\$278M	(\$16,487M)
Health Care	23	\$97B	(\$338M)	\$3,078M	\$2,785M	\$9,848M
Industrial	13	\$32B	\$580M	\$2,075M	\$1,442M	(\$2,144M)
Materials	9	\$15B	\$477M	\$191M	(\$1,434M)	(\$1,437M)
Multi-Sector	19	\$13B	\$45M	(\$147M)	(\$1,842M)	(\$7,028M)
Real Estate	25	\$62B	(\$177M)	\$199M	(\$1,281M)	(\$6,319M)
Technology	23	\$114B	(\$942M)	\$1,152M	\$199M	(\$1,792M)
Utilities	9	\$27B	(\$75M)	(\$921M)	\$533M	\$5,018M

## U.S. Sector & Industry Flow Leaders

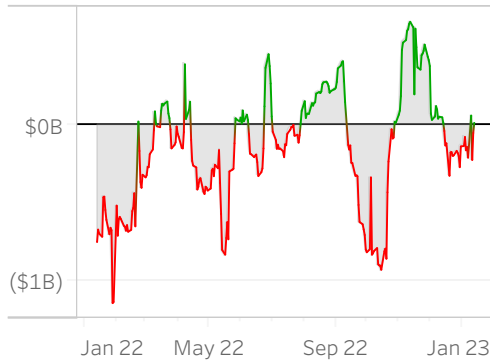
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLI	Industrial Select Sector SPDR Fund	\$482M	\$1,102M	\$828M	(\$2,760M)	\$14,846M
XLF	Financial Select Sector SPDR Fund	\$382M	\$1,759M	\$1,172M	(\$9,073M)	\$33,303M
XLB	Materials Select Sector SPDR Fund	\$343M	\$33M	(\$730M)	(\$1,764M)	\$5,969M
XLC	Communication Services Select Sector SPDR Fu..	\$273M	\$514M	(\$216M)	(\$506M)	\$8,722M
SOXX	iShares Semiconductor ETF	\$239M	\$3M	(\$313M)	(\$432M)	\$6,614M
XME	SPDR S&P Metals & Mining ETF	\$125M	\$343M	\$44M	\$66M	\$2,376M
XLY	Consumer Discretionary Select Sector SPDR Fu..	\$87M	(\$135M)	\$288M	(\$2,680M)	\$13,677M
XHB	SPDR S&P Homebuilders ETF	\$78M	\$20M	(\$34M)	(\$1,001M)	\$989M
KRE	SPDR S&P Regional Banking ETF	\$77M	(\$566M)	(\$398M)	(\$2,187M)	\$2,676M
XLP	Consumer Staples Select Sector SPDR Fund	\$72M	\$1,402M	\$1,912M	\$3,809M	\$17,551M

## U.S. Sector & Industry Flow Laggards

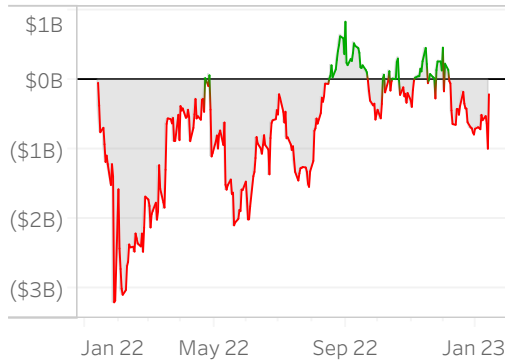
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLK	Technology Select Sector SPDR Fund	(\$676M)	\$55M	\$652M	\$204M	\$39,013M
VGT	Vanguard Information Technology ETF	(\$463M)	(\$21M)	(\$770M)	(\$453M)	\$40,330M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	(\$379M)	\$197M	(\$515M)	(\$1,214M)	\$4,139M
XLV	Health Care Select Sector SPDR Fund	(\$330M)	\$1,380M	\$1,530M	\$6,210M	\$41,576M
IYE	iShares U.S. Energy ETF	(\$243M)	(\$275M)	(\$976M)	(\$1,689M)	\$2,029M
VNQ	Vanguard Real Estate ETF	(\$193M)	(\$350M)	(\$1,364M)	(\$2,981M)	\$35,250M
XLU	Utilities Select Sector SPDR Fund	(\$104M)	(\$705M)	\$280M	\$3,348M	\$16,688M
IGV	iShares Expanded Tech-Software Sector ETF	(\$76M)	(\$298M)	(\$20M)	\$328M	\$4,434M
IYZ	iShares U.S. Telecommunications ETF	(\$67M)	(\$56M)	\$7M	(\$51M)	\$377M
ITB	iShares U.S. Home Construction ETF	(\$58M)	\$104M	(\$82M)	(\$1,195M)	\$1,460M

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Communication Services



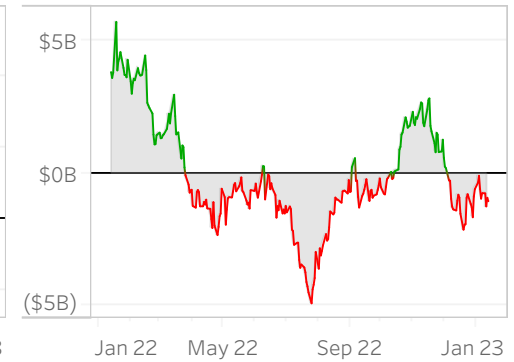
Consumer Discretionary



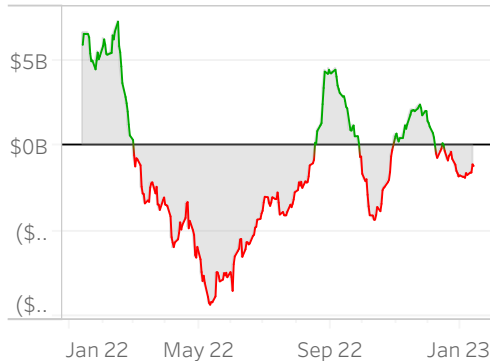
Consumer Staples



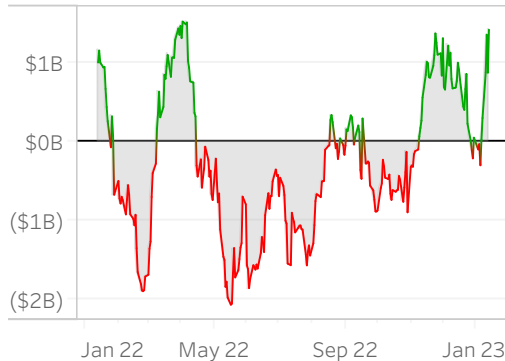
Energy



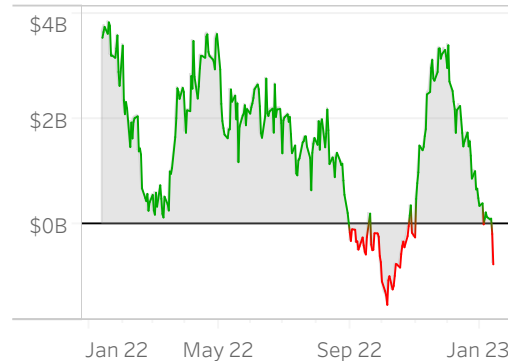
Financials



Industrial



Health Care



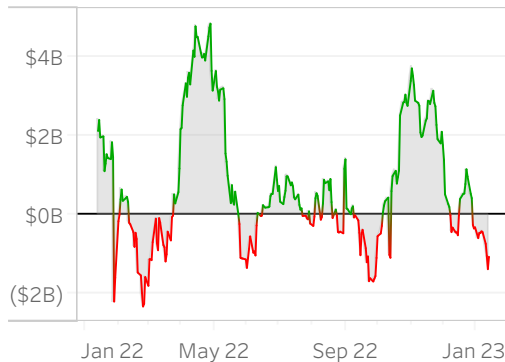
Materials



Real Estate



Technology



Utilities

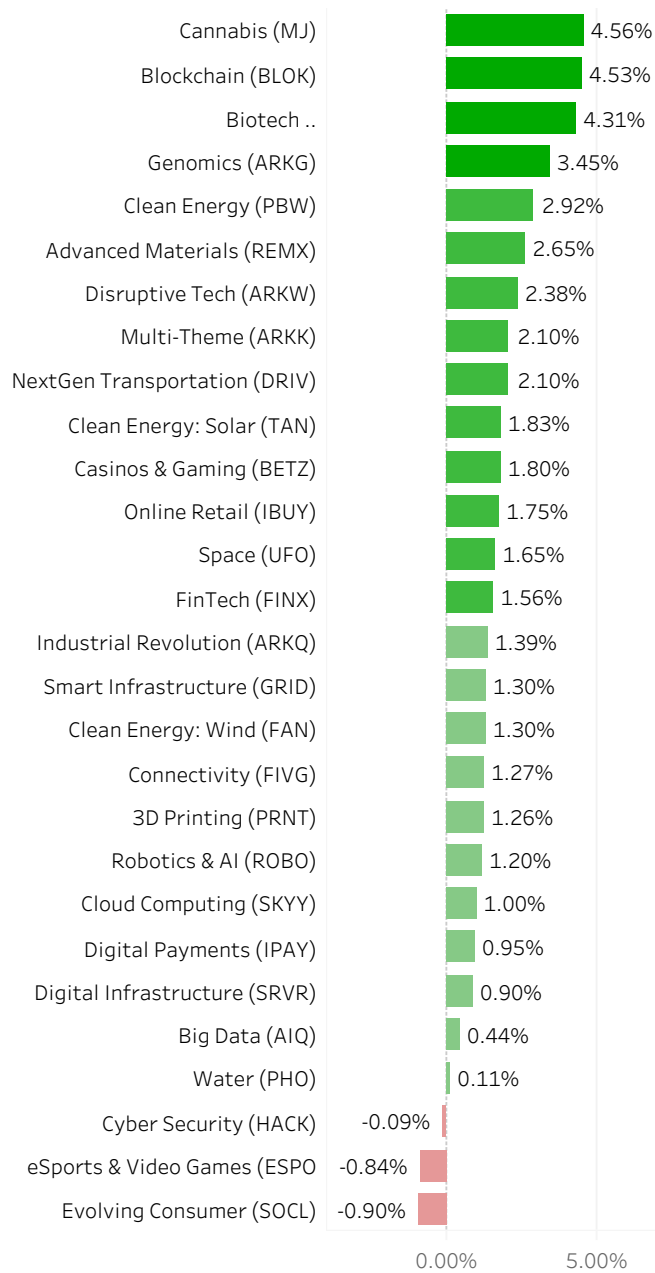


Multi-Sector

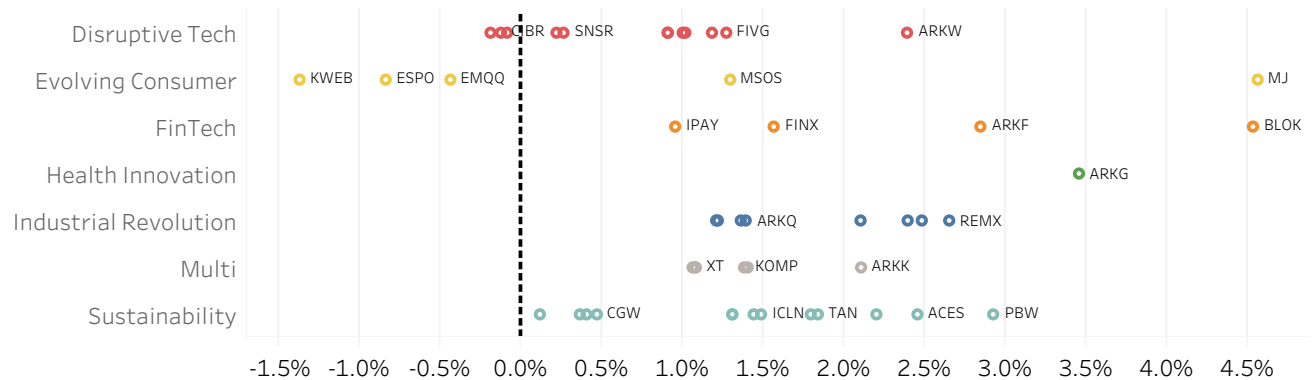


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Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
MJ	ETFMG Alternative Harvest ETFMG Alternative Harvest	4.56%
BLOK	Amplify Transformational Data Sharing ETF	4.53%
SBIO	ALPS Medical Breakthroughs ETF	4.31%
ARKG	ARK Genomic Revolution ETF	3.45%
YOLO	AdvisorShares Pure Cannabis ETF	3.39%
BTEC	Principal Healthcare Innovators ETF	3.25%
PBW	Invesco WilderHill Clean Energy ETF	2.92%
BATT	Amplify Lithium & Battery Technology ETF	2.89%
ARKF	ARK Fintech Innovation ETF	2.84%
KARS	KraneShares Electric Vehicles & Future Mobility Index ETF	2.69%

Thematic Most Overbought

Ticker	Fund	Price
AWAY	ETFMG Travel Tech ETF	73.91
EBIZ	Global X E-Commerce ETF	73.81
LEGR	First Trust Indxx Innovative Transaction & Process ETF	71.97
FAN	First Trust Global Wind Energy ETF	71.79
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	70.95
SOCL	Global X Social Media ETF	70.85
IBUY	Amplify Online Retail ETF	70.66
GBUY	Goldman Sachs Future Consumer Equity ETF	69.54
IRBO	iShares Robotics and Artificial Intelligence Multisector ETF	69.08
BLOK	Amplify Transformational Data Sharing ETF	68.91

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
KWEB	KraneShares CSI China Internet ETF	-1.38%
SOCL	Global X Social Media ETF	-0.90%
ESPO	VanEck Video Gaming and eSports ETF	-0.84%
HERO	Global X Video Games & Esports ETF	-0.66%
EVX	VanEck Environmental Services ETF	-0.49%
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce E..	-0.44%
EDOC	Global X Telemedicine & Digital Health ETF Registered	-0.25%
BUG	Global X Cybersecurity ETF	-0.19%
CIBR	First Trust NASDAQ Cybersecurity ETF	-0.13%
HACK	ETFMG Prime Cyber Security ETFMG Prime Cyber Secu..	-0.09%

Thematic Most Oversold

Ticker	Fund	Price
MSOS	AdvisorShares Pure US Cannabis ETF	38.84
BUG	Global X Cybersecurity ETF	39.58
MJUS	ETFMG U.S. Alternative Harvest ETF	42.01
HACK	ETFMG Prime Cyber Security ETFMG Prime Cyber Securit..	43.86
IHAK	iShares Cybersecurity & Tech ETF	45.26
CIBR	First Trust NASDAQ Cybersecurity ETF	45.88
YOLO	AdvisorShares Pure Cannabis ETF	47.46
MJ	ETFMG Alternative Harvest ETFMG Alternative Harvest	50.18
SAMT	Strategas Macro Thematic Opportunities ETF	52.23
GDOC	Goldman Sachs Future Health Care Equity ETF	53.80

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## Thematic 1 Week Flow Leaders

Ticker	Fund	
KWEB	KraneShares CSI China Internet ETF	\$90M
ARKG	ARK Genomic Revolution ETF	\$38M
ARKW	ARK Next Generation Internet ETF	\$25M
ARKK	ARK Innovation ETF	\$16M
KOMP	SPDR S&P Kensho New Economies Composite ETF	\$11M
ONLN	ProShares Online Retail ETF	\$9M
BOTZ	Global X Robotics & Artificial Intelligence ETF	\$6M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$5M
BLOK	Amplify Transformational Data Sharing ETF	\$3M
HTEC	ROBO Global Healthcare Technology and Innovation ETF	\$3M

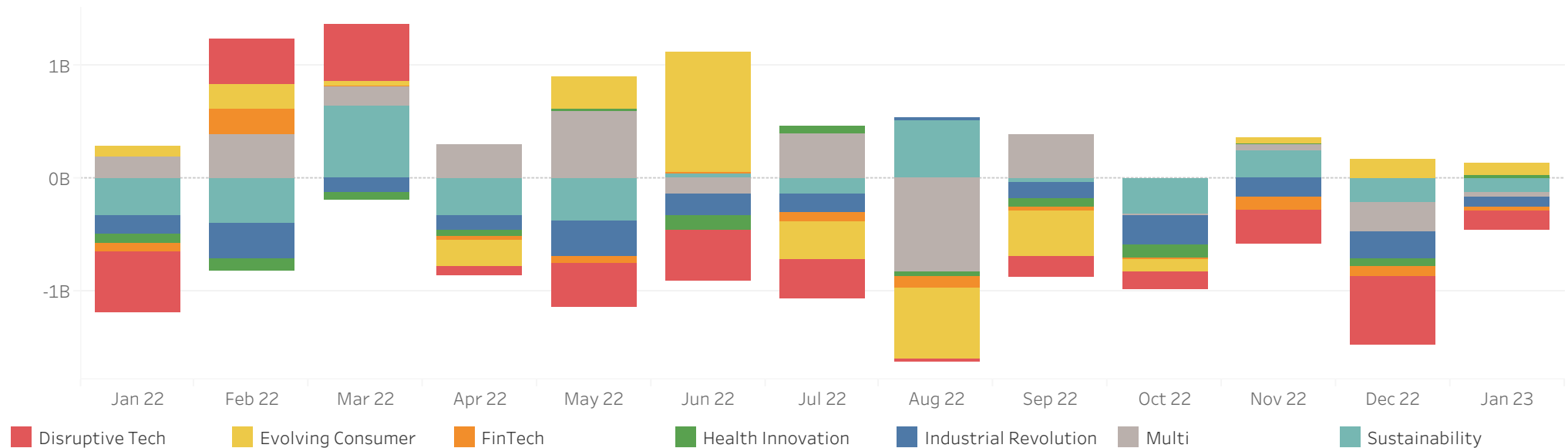
## Thematic 1 Week Flow Laggards

Ticker	Fund	
BUG	Global X Cybersecurity ETF	(\$41M)
LIT	Global X Lithium & Battery Tech ETF	(\$36M)
SRVR	Pacer Data & Infrastructure Real Estate ETF	(\$21M)
ICLN	iShares Global Clean Energy ETF	(\$14M)
REMX	VanEck Rare Earth/Strategic Metals ETF	(\$12M)
TAN	Invesco Solar ETF	(\$12M)
DRIV	Global X Autonomous & Electric Vehicles ETF	(\$9M)
CIBR	First Trust NASDAQ Cybersecurity ETF	(\$9M)
TARK	AXS 2X Innovation ETF	(\$9M)
ACES	ALPS Clean Energy ETF	(\$8M)

## Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	35	\$15B	(\$67M)	(\$1,208M)	(\$1,419M)	(\$2,334M)
Evolving Consumer	46	\$11B	\$78M	\$198M	(\$1,238M)	\$323M
FinTech	21	\$2B	(\$1M)	(\$250M)	(\$465M)	(\$394M)
Health Innovation	19	\$3B	\$32M	(\$93M)	(\$376M)	(\$603M)
Industrial Revolution	31	\$10B	(\$51M)	(\$679M)	(\$952M)	(\$2,301M)
Multi	41	\$13B	\$53M	(\$69M)	(\$565M)	\$1,157M
Sustainability	40	\$18B	(\$36M)	(\$393M)	(\$121M)	(\$856M)
Grand Total	233	\$73B	\$7M	(\$2,492M)	(\$5,135M)	(\$5,007M)

## Thematic Monthly Flows

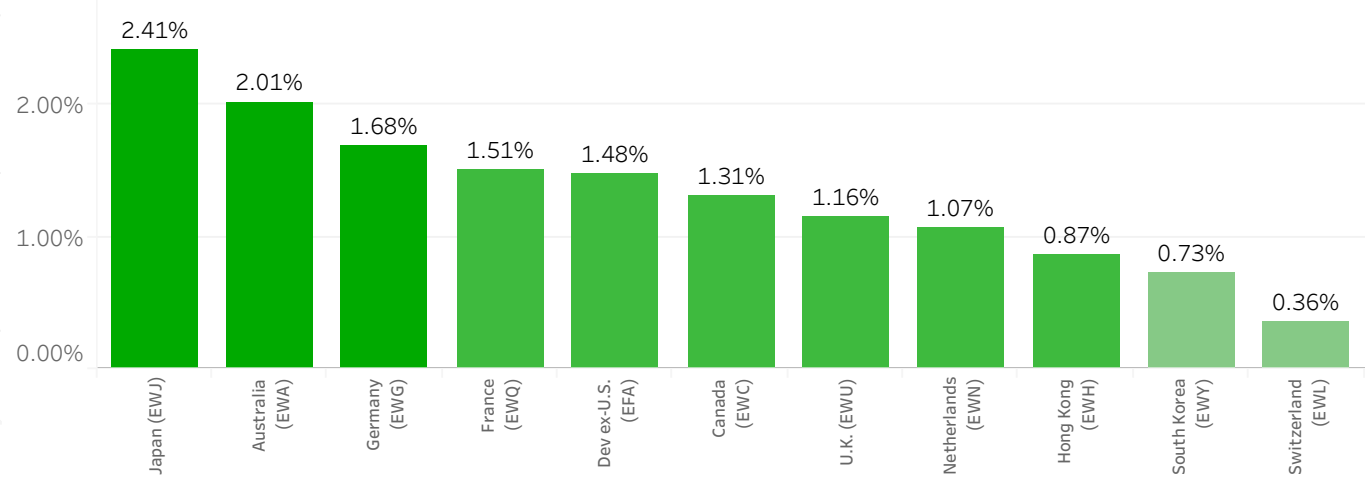


\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

Developed ex-U.S. (EFA)



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



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



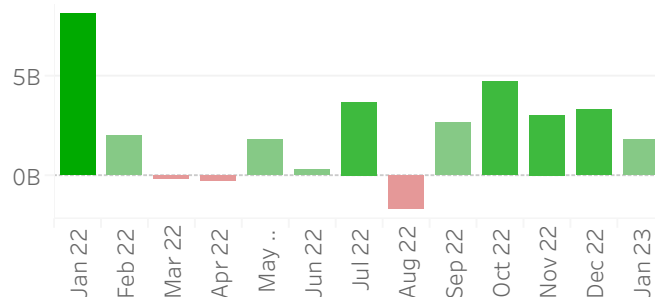
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
EWJV	iShares MSCI Japan Value ETF	3.48%
EWJ	iShares MSCI Japan ETF	2.41%
JPXN	iShares JPX-Nikkei 400 ETF	2.36%
BBJP	JPMorgan BetaBuilders Japan ETF	2.33%
FLJP	Franklin FTSE Japan ETF	2.31%
FEP	First Trust Europe AlphaDEX Fund	2.31%
FJP	First Trust Japan AlphaDEX Fund	2.24%
DFJ	WisdomTree Japan SmallCap Dividend Fund	2.18%
IDOG	ALPS International Sector Dividend Dogs ETF	2.06%
AVIV	Avantis International Large Cap Value ETF	2.05%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
EWP	iShares MSCI Spain ETF	79.73
EIRL	iShares MSCI Ireland ETF	78.37
EWG	iShares MSCI Germany ETF	78.05
IMFL	Invesco International Developed Dynamic Multifactor ETF	77.88
FEP	First Trust Europe AlphaDEX Fund	76.36
EZU	iShares MSCI Eurozone ETF	75.94
IDV	iShares International Select Dividend ETF	75.43
DTH	WisdomTree International High Dividend Fund	75.20
EWQ	iShares MSCI France ETF	75.04
EWI	iShares MSCI Italy ETF	75.03

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
FSZ	First Trust Switzerland AlphaDEX Fund	-0.81%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	-0.28%
AIA	iShares Asia 50 ETF	-0.16%
HEWJ	iShares Currency Hedged MSCI Japan ETF	-0.15%
ENZL	iShares MSCI New Zealand ETF	-0.14%
MINV	Matthews Asia Innovators Active ETF	0.07%
IHDG	WisdomTree International Hedged Quality Dividend Grow..	0.17%
DXJ	WisdomTree Japan Hedged Equity Fund	0.20%
HSCZ	iShares Currency Hedged MSCI EAFE Small-Cap ETF	0.24%
FLSW	Franklin FTSE Switzerland ETF	0.29%

Developed ex-U.S. Most Oversold

Ticker	Fund	Value
HEWJ	iShares Currency Hedged MSCI Japan ETF	30.28
IMOM	Alpha Architect International Quantitative Moment..	49.31
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	49.90
HSCZ	iShares Currency Hedged MSCI EAFE Small-Cap ETF	49.94
DXJ	WisdomTree Japan Hedged Equity Fund	50.77
NORW	Global X MSCI Norway ETF	51.55
IVAL	Alpha Architect International Quantitative Value ETF	51.71
HEFA	iShares Currency Hedged MSCI EAFE ETF	53.62
DBEF	Xtrackers MSCI EAFE Hedged Equity ETF	56.21
FJP	First Trust Japan AlphaDEX Fund	58.47

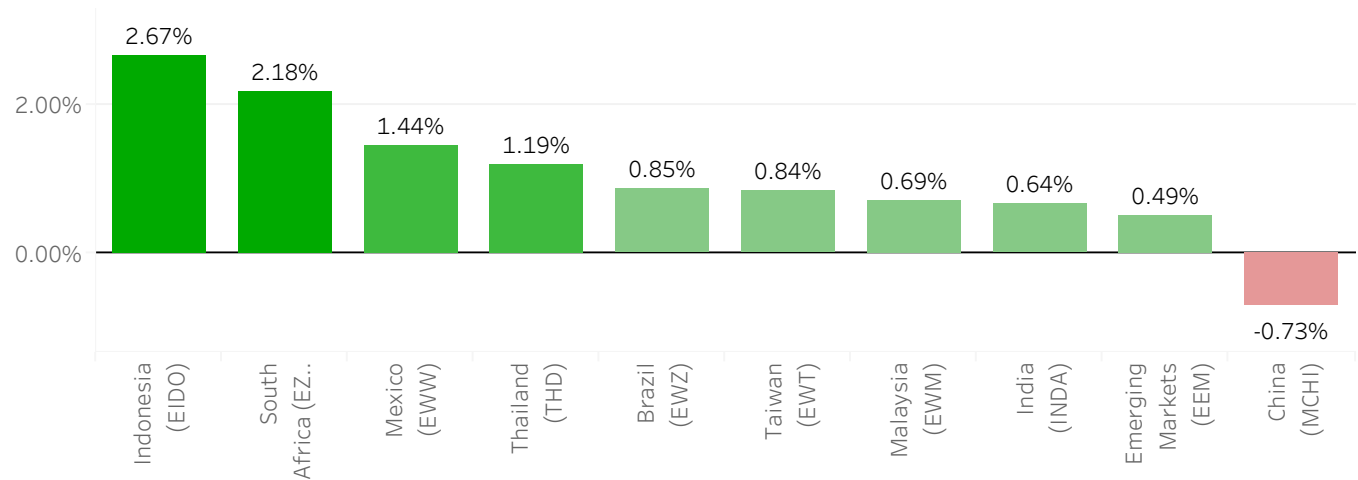
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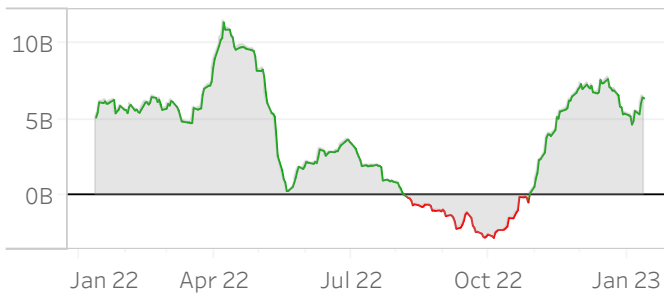
Emerging (EEM)



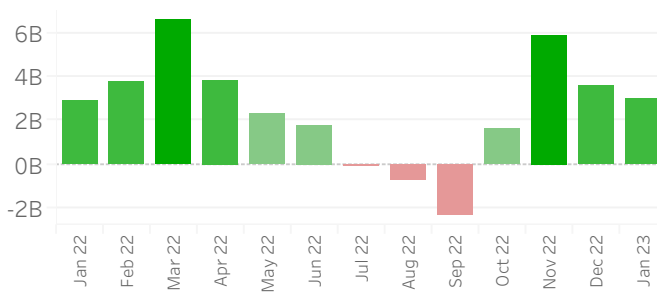
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
TUR	iShares MSCI Turkey ETF	3.55%
EIDO	iShares MSCI Indonesia ETF	2.67%
EPU	iShares MSCI Peru ETF	2.34%
EZA	iShares MSCI South Africa ETF	2.18%
KSA	iShares MSCI Saudi Arabia ETF	2.11%
ADRE	Invesco BLDERS Emerging Markets 50 ADR Index Fund	1.82%
EWZS	iShares MSCI Brazil Small-Cap ETF	1.77%
TLTE	FlexShares Morningstar Emerging Markets Factor Tilt I..	1.76%
EPHE	iShares MSCI Philippines ETF	1.64%
EWZ	iShares MSCI Mexico ETF	1.44%

Emerging Most Overbought

Ticker	Fund	Price
EPU	iShares MSCI Peru ETF	80.20
ADRE	Invesco BLDERS Emerging Markets 50 ADR Index Fund	76.52
PXH	Invesco FTSE RAFI Emerging Markets ETF	74.66
TLTE	FlexShares Morningstar Emerging Markets Factor Tilt..	74.42
DEM	WisdomTree Emerging Markets High Dividend Fund	73.97
EWZ	iShares MSCI Mexico ETF	73.82
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	73.35
GEM	Goldman Sachs ActiveBeta Emerging Markets Equity ..	73.09
EPOL	iShares MSCI Poland ETF	72.98
EEM	iShares MSCI Emerging Markets ETF	72.29

Emerging 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
QAT	iShares MSCI Qatar ETF	-2.02%
ECH	iShares MSCI Chile ETF	-1.75%
FXI	iShares China Large-Cap ETF	-0.85%
FLCH	Franklin FTSE China ETF	-0.81%
ECNS	iShares MSCI China Small-Cap ETF	-0.80%
MCHI	iShares MSCI China ETF	-0.73%
GXC	SPDR S&P China ETF	-0.54%
BKF	iShares MSCI BIC ETF	-0.34%
EEMA	iShares MSCI Emerging Markets Asia ETF	-0.22%
DBEM	Xtrackers MSCI Emerging Markets Hedged Equity ETF	-0.09%

Emerging Most Oversold

Ticker	Fund	Price
PIN	Invesco India ETF	35.96
TUR	iShares MSCI Turkey ETF	44.17
QAT	iShares MSCI Qatar ETF	44.35
INDY	iShares India 50 ETF	47.82
EIDO	iShares MSCI Indonesia ETF	48.41
NFTY	First Trust India NIFTY 50 Equal Weight ETF	51.40
FLIN	Franklin FTSE India ETF	53.10
INDA	iShares MSCI India ETF	53.73
GLIN	VanEck India Growth Leaders ETF	54.33
EWT	iShares MSCI Taiwan ETF	54.66

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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	0.72%	1.73%	3.40%
SHY	1-3 Year Treasury Bonds	0.22%	0.85%	0.75%
IEF	7-10 Year Treasury Bonds	0.89%	2.05%	3.90%
TLT	20+ Year Treasury Bonds	1.97%	1.27%	8.24%
TIP	TIPS Bonds	0.79%	0.86%	2.42%
FLOT	Floating Rate Bonds	-0.02%	0.68%	0.14%
LQD	Investment Grade Corporate	1.13%	2.25%	5.12%
HYG	High Yield Corporate	0.56%	2.28%	4.09%
BKLN	Senior Loan	0.33%	2.50%	2.97%
PFF	Preferred & Income Securities	0.43%	4.10%	6.26%
MUB	Municipal Bonds	0.38%	1.71%	2.07%
MBB	MBS	0.70%	2.25%	3.56%
EMB	Dollar Denominated EM Bonds	1.18%	2.26%	4.07%
LEMB	Local Currency EM Bond	1.40%	4.86%	3.75%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	1.47%	-1.37%	-1.69%
DBE	Energy	0.91%	1.43%	-2.65%
USO	WTI Crude Oil	0.82%	6.52%	-2.14%
BNO	Brent Crude Oil	1.28%	7.05%	-2.30%
UNG	Natural Gas	0.34%	-40.93%	-16.60%
UGA	Gasoline	1.02%	17.42%	-1.03%
DBP	Precious Metals	1.09%	5.35%	2.79%
GLD	Gold	1.16%	6.62%	4.13%
SLV	Silver	1.53%	1.96%	-0.64%
PPLT	abrdn Physical Platin..	-0.07%	6.29%	-0.45%
PALL	abrdn Physical Palla..	0.84%	-4.93%	0.47%
DBB	Base Metals	1.43%	5.25%	9.46%
CPER	Copper	-0.36%	9.64%	9.35%
LD	Lead	0.58%	1.53%	-4.63%
JJN	Nickel	6.81%	-6.38%	-7.62%
JJU	Aluminum	2.88%	6.03%	6.61%
JJT	Tin	4.19%	15.30%	10.38%
DBA	Agriculture	0.67%	-0.68%	-3.23%
CORN	Corn	2.00%	1.69%	-1.60%
SOYB	Soybeans	1.50%	3.06%	-0.60%
WEAT	Wheat	0.40%	-1.57%	-5.76%
CANE	Sugar	0.32%	0.53%	-1.58%
BAL	Cotton	-2.77%	3.77%	-1.50%
NIB	Cocoa	0.45%	6.77%	2.33%
JO	Coffee	4.58%	-10.05%	-10.19%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.97%	-2.32%	-1.19%
UDN	Short Dollar	0.94%	2.87%	1.33%
FXE	Euro	0.88%	3.04%	1.36%
FXB	British Pound Sterling	0.54%	-0.28%	1.21%
FXF	Swiss Franc	0.36%	0.85%	-0.42%
FXJ	Japanese Yen	2.58%	6.64%	1.59%
FXC	Canadian Dollar	0.41%	2.13%	1.40%
FXA	Australian Dollar	0.94%	3.32%	2.40%

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