

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

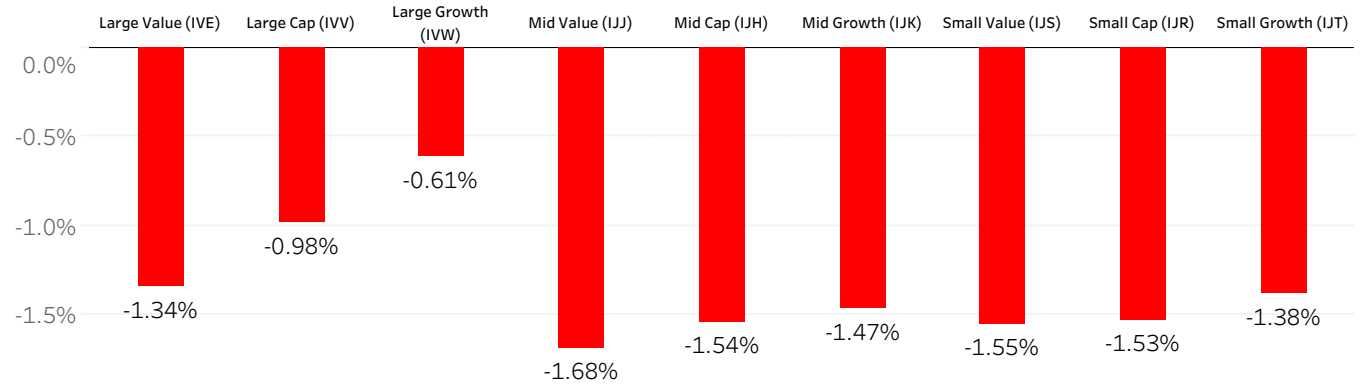


Small Cap Blend (S&P 600) IJR



■ 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
OALC	OneAscent Large Cap Core ETF	1.19%
EQRR	ProShares Equities for Rising Rates ETF	0.80%
RPHS	Regents Park Hedged Market Strategy ETF	0.12%
PTLC	Pacer Trendpilot US Large Cap ETF	0.08%
LSAT	Leadershares Alphafactor Tactical Focused ETF	0.08%
QQH	HCM Defender 100 Index ETF	0.00%
SPC	CrossingBridge Pre-Merger SPAC ETF	-0.05%
TPLE	Timothy Plan US Large/Mid Cap Core Enhanced ETF	-0.23%
PTMC	Pacer Trendpilot US Mid Cap ETF	-0.25%
CFO	VictoryShares US 500 Enhanced Volatility Wtd ETF	-0.25%

Size & Style Most Overbought

Ticker	Fund	Value
PTLC	Pacer Trendpilot US Large Cap ETF	69.13
LSAT	Leadershares Alphafactor Tactical Focused ETF	52.18
SPC	CrossingBridge Pre-Merger SPAC ETF	47.37
ONOF	Global X Adaptive U.S. Risk Management ETF	41.02
RPHS	Regents Park Hedged Market Strategy ETF	35.00
OALC	OneAscent Large Cap Core ETF	32.41
IPO	Renaissance IPO ETF	31.20
EQRR	ProShares Equities for Rising Rates ETF	30.61
PTNQ	Pacer Trendpilot 100 ETF	30.21
WINN	Harbor Long-Term Growers ETF	30.16

Size & Style 1-Day Performance Laggards

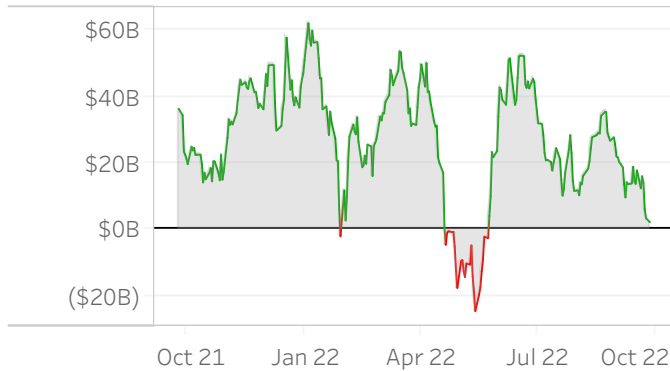
Ticker	Fund	1-Day Performance
GUSA	Goldman Sachs MarketBeta U.S. 1000 Equity ETF	-9.23%
ACSI	American Customer Satisfaction ETF	-6.77%
NZUS	SPDR MSCI USA Climate Paris Aligned ETF	-6.22%
PABU	iShares Paris-Aligned Climate MSCI USA ETF	-5.04%
CLRG	IQ Chaikin U.S. Large Cap ETF	-4.77%
QVMS	Invesco S&P SmallCap 600 QVM Multi-factor ETF	-3.57%
DIV	Global X SuperDividend US ETF	-2.65%
DDIV	First Trust Dorsey Wright Momentum & Dividend ETF	-2.59%
QVAL	Alpha Architect U.S. Quantitative Value ETF	-2.38%
USNZ	Xtrackers Net Zero Pathway Paris Aligned US Equity ETF	-2.35%

Size & Style Most Oversold

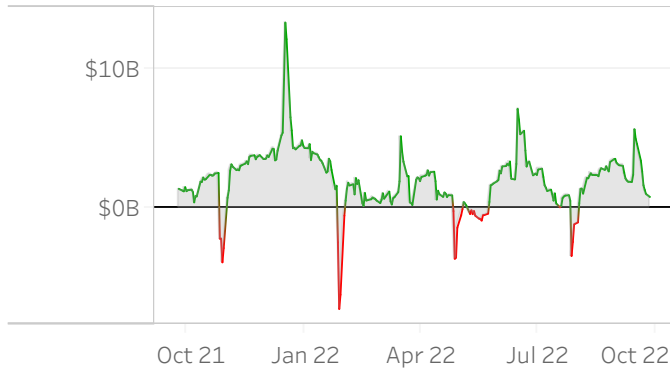
Ticker	Fund	Value
QVMS	Invesco S&P SmallCap 600 QVM Multi-factor ETF	7.38
GUSA	Goldman Sachs MarketBeta U.S. 1000 Equity ETF	7.78
USNZ	Xtrackers Net Zero Pathway Paris Aligned US Equity..	12.69
QVML	Invesco S&P 500 QVM Multi-factor ETF	19.98
DIV	Global X SuperDividend US ETF	20.81
DJD	Invesco Dow Jones Industrial Average Dividend ETF	21.01
DEIF	Sterling Capital Diverse Multi-Manager Active ETF	21.13
CDC	VictoryShares US EQ Income Enhanced Volatility Wtd..	21.82
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	22.14
HDV	iShares Core High Dividend ETF	22.22

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

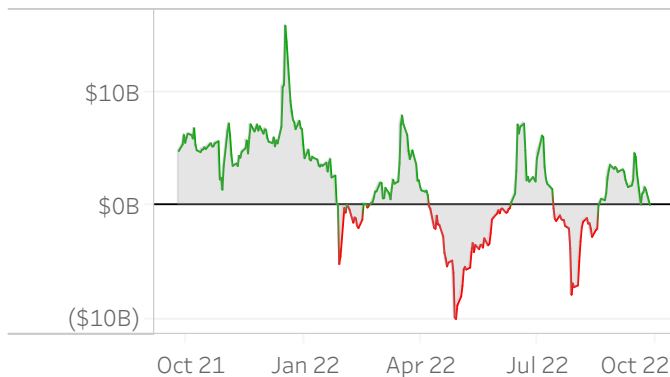
Large-Cap 30-Day Rolling Flows



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 Growth, Beta	25	\$1,124B	(\$4.53B)	\$12.07B	\$19.00B	\$98.20B
Large Cap, Beta Growth, Beta: Growth	10	\$208B	(\$0.45B)	\$4.99B	\$10.38B	\$15.40B
Large Cap, Beta Growth, Beta: Value	11	\$201B	\$0.14B	\$0.42B	\$5.22B	\$25.37B
Mid Cap, Beta, Beta	10	\$162B	(\$0.40B)	\$2.37B	\$4.78B	\$13.04B
Mid Cap, Beta, Beta: Growth	6	\$30B	(\$0.15B)	\$0.73B	\$0.95B	\$1.26B
Mid Cap, Beta, Beta: Value	6	\$37B	(\$0.18B)	\$0.44B	\$0.00B	\$1.42B
Small Cap, Beta, Beta	13	\$174B	\$0.21B	\$0.00B	(\$4.75B)	\$4.76B
Small Cap, Beta, Beta: Growth	7	\$28B	(\$0.19B)	\$0.05B	\$0.23B	\$1.03B
Small Cap, Beta, Beta: Value	7	\$45B	(\$0.28B)	(\$1.87B)	(\$2.68B)	(\$2.57B)

U.S. Size & Style Flow Leaders

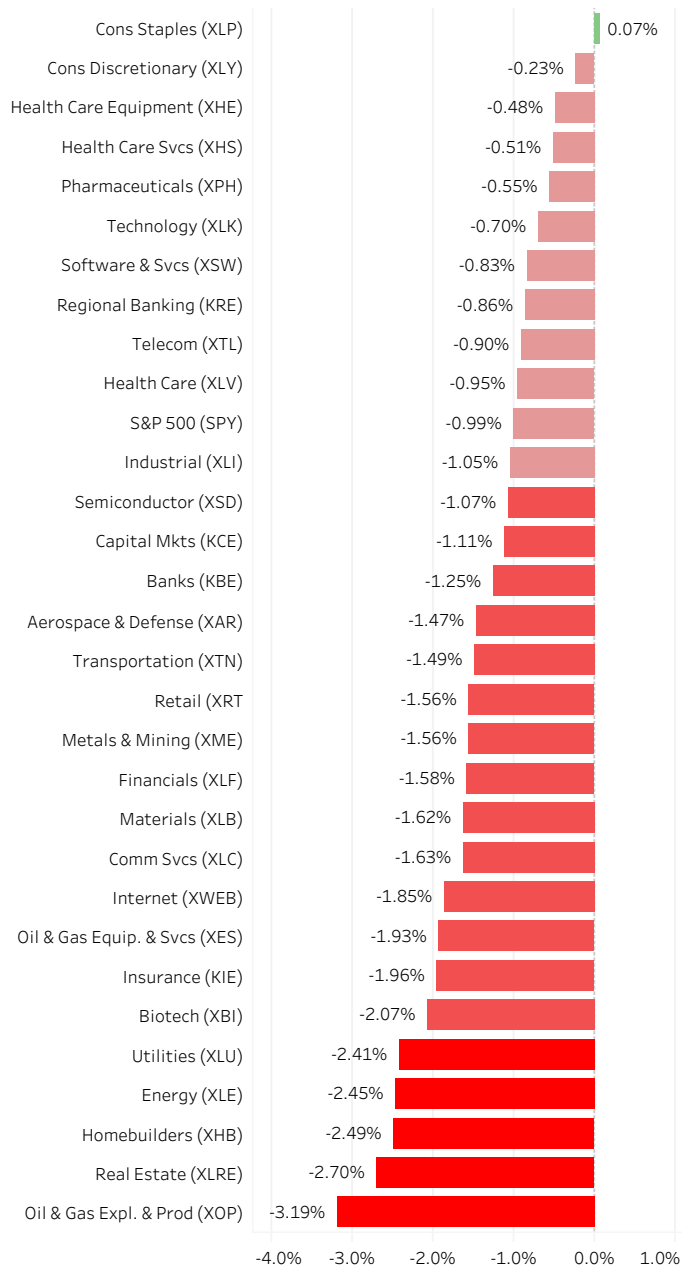
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
ITOT	iShares Core S&P Total U.S. Stock Market ETF	\$1.88B	\$1.06B	\$3.60B	\$5.86B	\$39.89B
VOO	Vanguard S&P 500 ETF	\$0.77B	\$11.01B	\$11.87B	\$42.00B	\$249.44B
SCHB	Schwab U.S. Broad Market ETF	\$0.56B	\$0.62B	\$0.97B	\$1.72B	\$19.40B
SCHD	Schwab US Dividend Equity ETF	\$0.46B	\$3.66B	\$7.04B	\$12.16B	\$35.90B
SCHA	Schwab U.S. Small-Cap ETF	\$0.45B	\$0.19B	(\$0.45B)	\$0.44B	\$12.75B
VYM	Vanguard High Dividend Yield Index ETF	\$0.19B	\$2.22B	\$5.09B	\$9.10B	\$43.78B
IWM	iShares Russell 2000 ETF	\$0.18B	(\$2.82B)	(\$4.26B)	(\$4.90B)	\$48.09B
SCHX	Schwab U.S. Large-Cap ETF	\$0.09B	\$0.95B	(\$0.48B)	\$0.85B	\$27.14B
DFAC	Dimensional U.S. Core Equity 2 ETF	\$0.09B	\$0.82B	\$1.57B	\$2.85B	\$14.01B
VONV	Vanguard Russell 1000 Value ETF	\$0.07B	\$0.05B	(\$0.66B)	\$0.05B	\$5.70B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
QQQ	Invesco QQQ Trust	(\$2.82B)	(\$1.22B)	\$1.45B	\$11.83B	\$149.34B
SPY	SPDR S&P 500 ETF Trust	(\$1.93B)	(\$4.78B)	(\$4.69B)	\$0.84B	\$332.42B
VO	Vanguard Mid-Cap ETF	(\$0.47B)	\$0.81B	\$2.31B	\$5.56B	\$46.16B
IVV	iShares Core S&P 500 ETF	(\$0.46B)	\$3.70B	\$4.95B	\$30.18B	\$276.59B
VUG	Vanguard Growth ETF	(\$0.38B)	\$2.37B	\$5.18B	\$7.34B	\$68.27B
VTI	Vanguard Total Stock Market ETF	(\$0.37B)	\$6.09B	\$10.24B	\$32.13B	\$243.97B
VB	Vanguard Small-Cap ETF	(\$0.35B)	(\$0.19B)	(\$0.57B)	\$1.63B	\$38.04B
VBR	Vanguard Small Cap Value ETF	(\$0.24B)	(\$0.12B)	(\$0.76B)	\$0.21B	\$21.24B
DIA	SPDR Dow Jones Industrial Average ETF Trust	(\$0.15B)	\$0.16B	(\$0.38B)	\$1.15B	\$25.78B
VOT	Vanguard Mid-Cap Growth ETF	(\$0.15B)	\$0.13B	\$0.27B	\$0.85B	\$8.90B

* 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)
XLU	Utilities Select Sector SPDR Fund	-10.36%	9.61%	-5.99%	-2.32%	29.33
XLP	Consumer Staples Select Sector SPDR Fund	-13.83%	0.87%	-5.91%	-7.10%	27.69
XLV	Health Care Select Sector SPDR Fund	-14.89%	1.39%	-5.90%	-7.41%	33.29
XLI	Industrial Select Sector SPDR Fund	-21.71%	0.00%	-10.62%	-13.12%	23.73
SPY	SPDR S&P 500 ETF Trust	-23.74%	0.00%	-9.56%	-13.37%	27.13
XLE	Energy Select Sector SPDR Fund	-25.50%	29.69%	-11.10%	-7.39%	28.23
XLB	Materials Select Sector SPDR Fund	-25.70%	0.00%	-11.76%	-17.86%	25.60
XLF	Financial Select Sector SPDR Fund	-26.22%	0.00%	-8.90%	-14.61%	27.11
XLRE	Real Estate Select Sector SPDR Fund	-29.65%	0.00%	-14.27%	-18.75%	19.68
XLK	Technology Select Sector SPDR Fund	-30.44%	0.00%	-11.54%	-15.76%	27.43
XLY	Consumer Discretionary Select Sector SPDR Fund	-30.90%	8.51%	-8.77%	-12.85%	32.54
XLC	Communication Services Select Sector SPDR Fund	-41.17%	0.00%	-12.82%	-23.10%	24.69

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
VDC	Vanguard Consumer Staples ETF	0.11%
XLP	Consumer Staples Select Sector SPDR Fund	0.07%
FSTA	FIDELITY COVINGTON TRUST MSCI CONSUMER ST..	0.00%
RHS	Invesco S&P 500 Equal Weight Consumer Staples ..	-0.12%
QABA	First Trust NASDAQ ABA Community Bank Index F..	-0.15%
XLY	Consumer Discretionary Select Sector SPDR Fund	-0.23%
FDIS	Fidelity MSCI Consumer Discretionary Index ETF	-0.32%
VCR	Vanguard Consumer Discretionary ETF	-0.33%
IYC	iShares U.S. Consumer Discretionary ETF	-0.36%
IGN	iShares North American Tech-Multimedia Network..	-0.38%

Sector & Industry Most Overbought

Ticker	Fund	1 Day Performance
QABA	First Trust NASDAQ ABA Community Bank Index Fund	39.05
KBWR	Invesco KBW Regional Banking ETF	38.84
PJP	Invesco Dynamic Pharmaceuticals ETF	34.91
KRE	SPDR S&P Regional Banking ETF	34.85
XHS	SPDR S&P Health Care Services ETF	33.50
XLV	Health Care Select Sector SPDR Fund	33.29
XPH	SPDR S&P Pharmaceuticals ETF	32.90
KBE	SPDR S&P Bank ETF	32.70
XLY	Consumer Discretionary Select Sector SPDR Fund	32.54
VCR	Vanguard Consumer Discretionary ETF	32.35

Sector & Industry 1 Day Performance Laggards

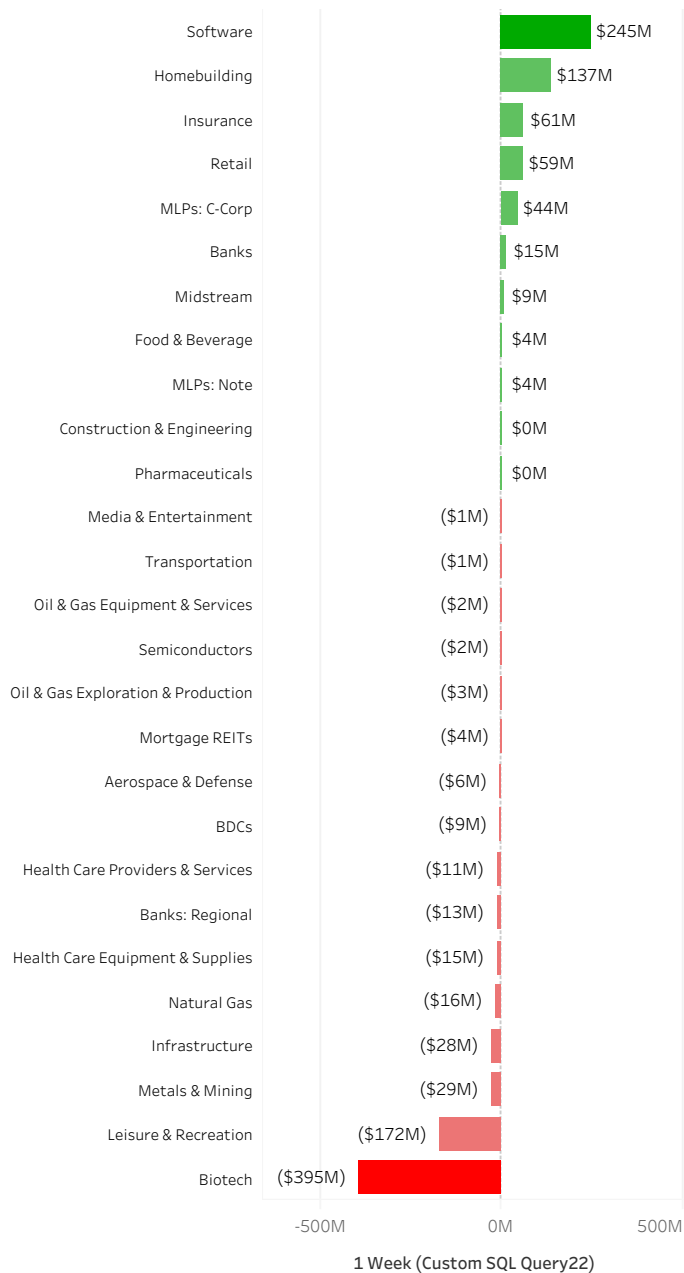
Ticker	Fund	1 Day Performance
MORT	VanEck Mortgage REIT Income ETF	-7.04%
REM	iShares Mortgage Real Estate ETF	-6.77%
KBWD	Invesco KBW High Dividend Yield Financial ETF	-5.15%
KBWY	Invesco KBW Premium Yield Equity REIT ETF	-4.78%
BIZD	VanEck BDC Income ETF	-3.83%
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	-3.60%
FCG	First Trust Natural Gas ETF	-3.50%
ENFR	Alerian Energy Infrastructure ETF	-3.34%
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	-3.19%
PXE	Invesco Dynamic Energy Exploration & Production ETF	-3.18%

Sector & Industry Most Oversold

Ticker	Fund	1 Day Performance
REM	iShares Mortgage Real Estate ETF	15.39
KBWD	Invesco KBW High Dividend Yield Financial ETF	15.66
MORT	VanEck Mortgage REIT Income ETF	17.31
IYZ	iShares U.S. Telecommunications ETF	17.80
KBWY	Invesco KBW Premium Yield Equity REIT ETF	18.57
USRT	iShares Core U.S. REIT ETF	18.83
REZ	iShares Residential and Multisector Real Estate ETF	18.98
BIZD	VanEck BDC Income ETF	18.99
VNQ	Vanguard Real Estate ETF	19.00
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	19.00

* 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	8	\$11B	(\$224M)	(\$411M)	(\$884M)	(\$2,200M)
Consumer Discretionary	13	\$22B	(\$533M)	(\$750M)	(\$2,553M)	(\$4,779M)
Consumer Staples	11	\$27B	(\$227M)	\$1,015M	\$3,529M	\$7,141M
Energy	34	\$66B	\$55M	(\$2,669M)	(\$5,213M)	\$1,001M
Financials	27	\$54B	\$252M	(\$868M)	(\$15,411M)	(\$8,857M)
Health Care	24	\$85B	(\$337M)	\$932M	\$4,536M	\$10,830M
Industrial	14	\$26B	(\$87M)	(\$933M)	(\$3,237M)	(\$3,623M)
Materials	10	\$12B	(\$112M)	(\$2,811M)	(\$2,879M)	(\$1,445M)
Multi-Sector	19	\$13B	(\$355M)	(\$1,634M)	(\$2,884M)	(\$4,749M)
Real Estate	25	\$60B	(\$163M)	(\$1,297M)	(\$2,715M)	(\$1,155M)
Technology	24	\$101B	(\$416M)	(\$1,760M)	(\$386M)	\$629M
Utilities	10	\$27B	(\$161M)	\$2,060M	\$4,457M	\$5,769M

U.S. Sector & Industry Flow Leaders

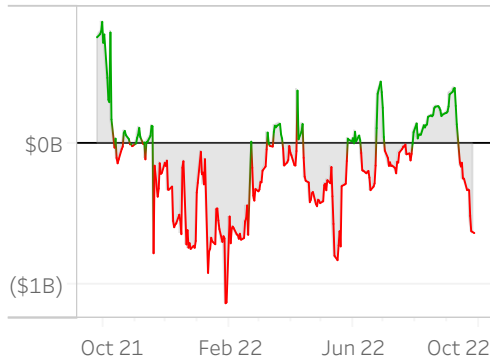
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IGV	iShares Expanded Tech-Software Sector ETF	\$246M	(\$711M)	(\$158M)	\$531M	\$3,797M
XLF	Financial Select Sector SPDR Fund	\$245M	(\$294M)	(\$9,569M)	(\$4,707M)	\$28,529M
XLV	Health Care Select Sector SPDR Fund	\$126M	\$1,184M	\$4,003M	\$7,631M	\$37,031M
IYZ	iShares U.S. Telecommunications ETF	\$125M	\$132M	\$86M	\$176M	\$450M
ITB	iShares U.S. Home Construction ETF	\$75M	(\$111M)	(\$453M)	(\$660M)	\$1,201M
XHB	SPDR S&P Homebuilders ETF	\$62M	(\$164M)	(\$347M)	(\$433M)	\$858M
KIE	SPDR S&P Insurance ETF	\$61M	(\$64M)	\$21M	\$9M	\$446M
XRT	SPDR S&P Retail ETF	\$59M	(\$171M)	(\$177M)	(\$617M)	\$254M
IYR	iShares U.S. Real Estate ETF	\$58M	(\$383M)	(\$587M)	(\$2,738M)	\$3,836M
AML	Alerian MLP ETF	\$42M	(\$37M)	(\$25M)	\$631M	\$5,987M

U.S. Sector & Industry Flow Laggards

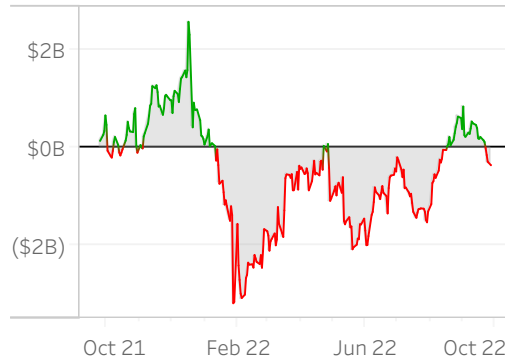
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLY	Consumer Discretionary Select Sector SPDR Fu..	(\$565M)	(\$272M)	(\$428M)	(\$1,183M)	\$14,693M
VGT	Vanguard Information Technology ETF	(\$335M)	(\$520M)	\$969M	\$944M	\$39,014M
FDN	First Trust Dow Jones Internet Index Fund	(\$285M)	(\$329M)	(\$1,267M)	(\$2,612M)	\$3,805M
XLK	Technology Select Sector SPDR Fund	(\$267M)	\$233M	\$973M	\$2,320M	\$37,077M
XLC	Communication Services Select Sector SPDR Fu..	(\$231M)	(\$540M)	(\$713M)	(\$1,849M)	\$7,876M
IBB	iShares Biotechnology ETF	(\$200M)	(\$219M)	(\$445M)	(\$112M)	\$7,401M
XBI	SPDR S&P BIOTECH ETF	(\$196M)	(\$766M)	\$107M	\$2,465M	\$6,501M
PEJ	Invesco Dynamic Leisure & Entertainment ETF	(\$172M)	(\$462M)	(\$439M)	(\$342M)	\$604M
XLP	Consumer Staples Select Sector SPDR Fund	(\$148M)	\$300M	\$983M	\$3,528M	\$15,105M
XLU	Utilities Select Sector SPDR Fund	(\$143M)	\$1,350M	\$3,012M	\$3,642M	\$17,187M

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

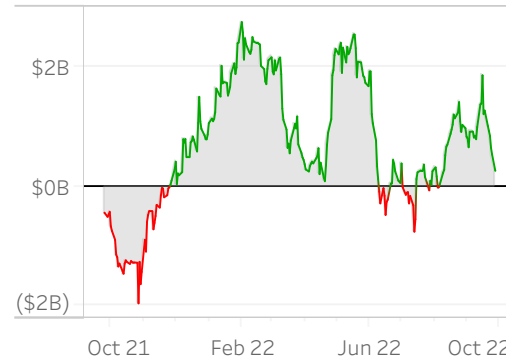
Communication Services



Consumer Discretionary



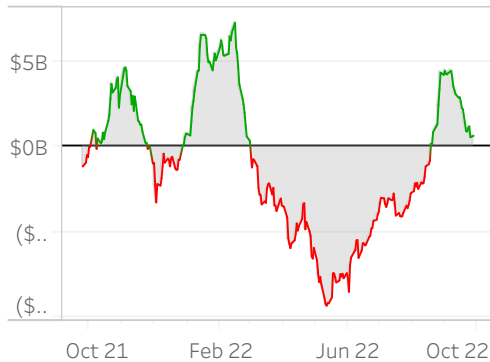
Consumer Staples



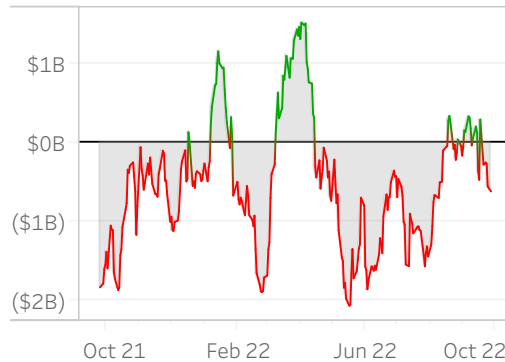
Energy



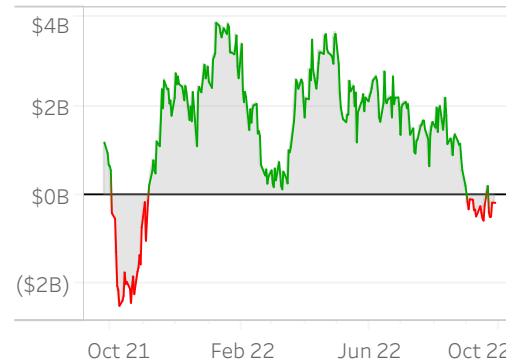
Financials



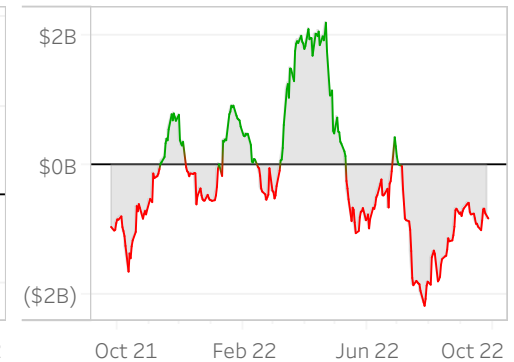
Industrial



Health Care



Materials



Real Estate



Technology



Utilities

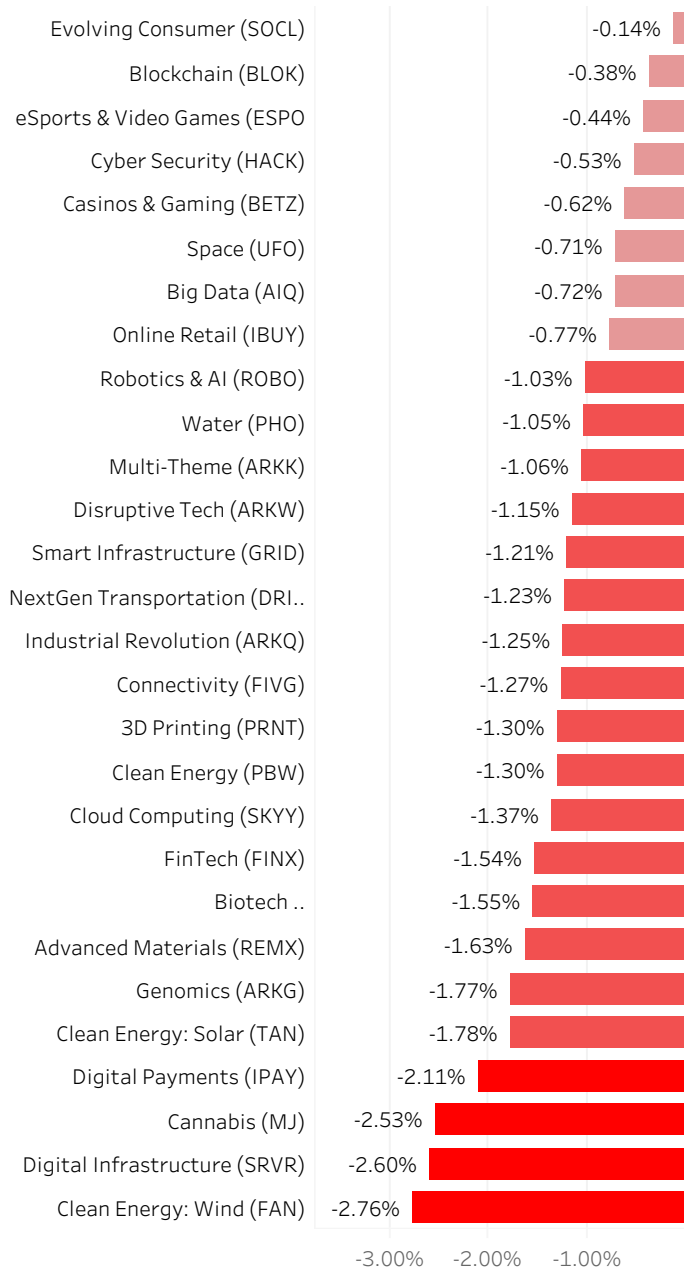


Multi-Sector

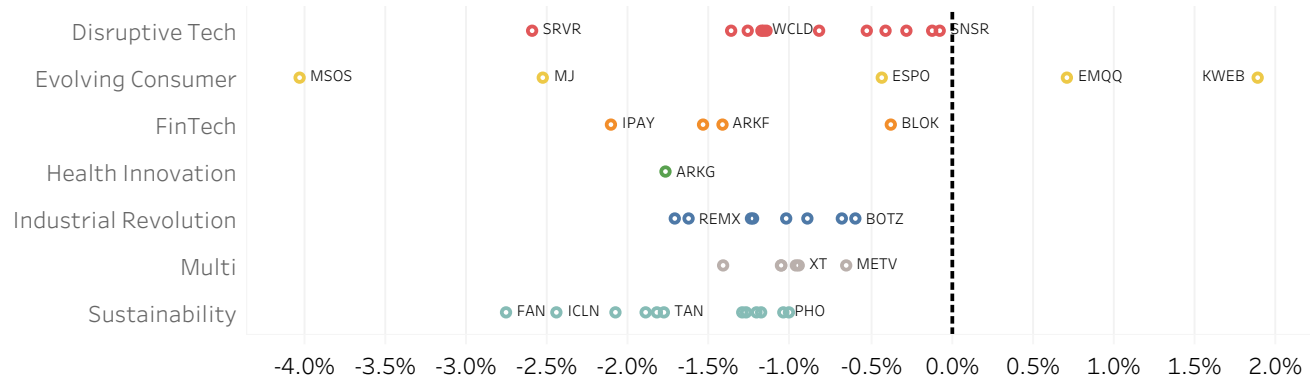


*ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
BJK	VanEck Gaming ETF	3.48%
KWEB	KraneShares CSI China Internet ETF	1.89%
KGRN	KraneShares MSCI China Clean Technology Index ETF	1.51%
BKCH	Global X Blockchain ETF	0.71%
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	0.71%
BITQ	Bitwise Crypto Industry Innovators ETF	0.49%
SNSR	Global X Internet of Things ETF	-0.08%
BUG	Global X Cybersecurity ETF	-0.13%
SOCL	Global X Social Media ETF	-0.14%
KARS	KraneShares Electric Vehicles & Future Mobility Index ETF	-0.16%

Thematic Most Overbought

Ticker	Fund	Value
BJK	VanEck Gaming ETF	37.63
KWEB	KraneShares CSI China Internet ETF	36.15
BKCH	Global X Blockchain ETF	34.78
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	34.05
CLOU	Global X Cloud Computing ETF	33.82
ARKK	ARK Innovation ETF	33.61
ARKG	ARK Genomic Revolution ETF	33.50
ARKW	ARK Next Generation Internet ETF	32.61
IHAK	iShares Cybersecurity & Tech ETF	32.42
LIT	Global X Lithium & Battery Tech ETF	32.38

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
MJUS	ETFMG U.S. Alternative Harvest ETF	-4.39%
MSOS	AdvisorShares Pure US Cannabis ETF	-4.03%
RNRG	Global X Funds Global X Renewable Energy Producers ..	-3.01%
FAN	First Trust Global Wind Energy ETF	-2.76%
SRVR	Pacer Benchmark Data & Infrastructure Real Estate S..	-2.60%
MJ	ETFMG Alternative Harvest ETF	-2.53%
ICLN	iShares Global Clean Energy ETF	-2.45%
IPAY	ETFMG Prime Mobile Payments ETF	-2.11%
CNRG	SPDR S&P Kensho Clean Power ETF	-2.08%
IDNA	iShares Genomics Immunology and Healthcare ETF Ge..	-2.05%

Thematic Most Oversold

Ticker	Fund	Value
YOLO	AdvisorShares Pure Cannabis ETF	19.13
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR..	19.24
FAN	First Trust Global Wind Energy ETF	19.99
NXTG	First Trust Indxx NextG ETF	20.79
VPN	Global X Data Center REITs & Digital Infrastructure ETF	20.93
HERO	Global X Video Games & Esports ETF	21.84
PAWZ	ProShares Pet Care ETF	22.23
GBUY	Goldman Sachs Future Consumer Equity ETF	22.32
FIVG	Defiance Next Gen Connectivity ETF	22.91
MSOS	AdvisorShares Pure US Cannabis ETF	23.21

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

Thematic 1 Week Flow Leaders

Ticker	Fund	
ARKK	ARK Innovation ETF	\$157M
TARK	AXS 2X Innovation ETF	\$15M
EVX	VanEck Environmental Services ETF	\$4M
IDRV	iShares Self-driving EV & Tech ETF	\$4M
NXTG	First Trust Indxx NextG ETF	\$3M
XITK	SPDR FactSet Innovative Technology ETF	\$3M
KOMP	SPDR S&P Kensho New Economies Composite ETF	\$2M
CNRG	SPDR S&P Kensho Clean Power ETF	\$2M
GXTG	Global X Thematic Growth ETF	\$1M
MJUS	ETFMG U.S. Alternative Harvest ETF	\$1M

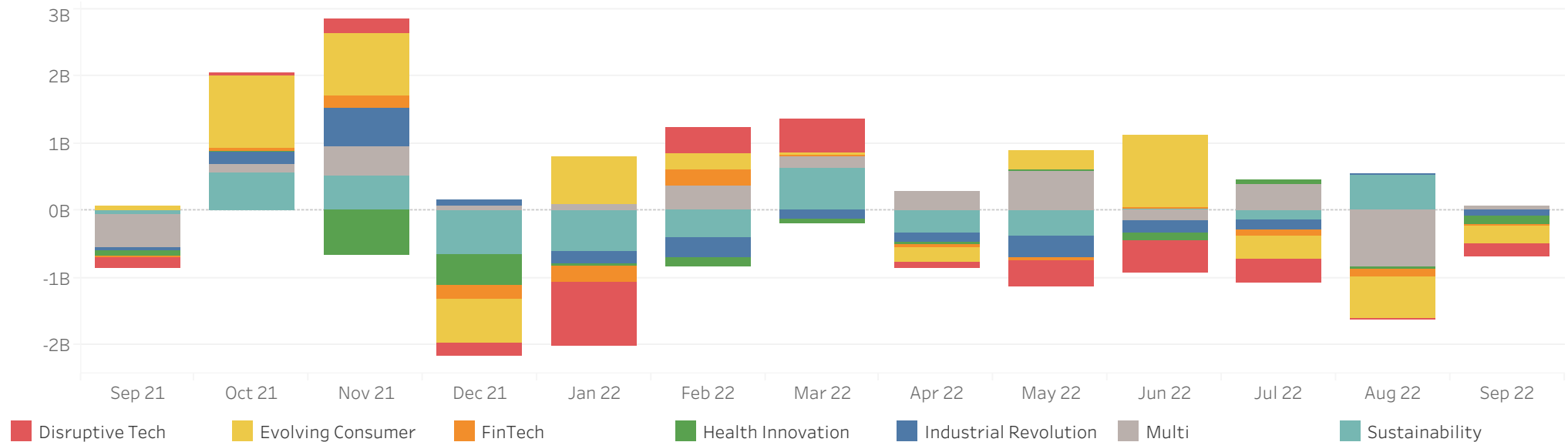
Thematic 1 Week Flow Laggards

Ticker	Fund	
KWEB	KraneShares CSI China Internet ETF	(\$173M)
PBW	Invesco WilderHill Clean Energy ETF	(\$104M)
ARKG	ARK Genomic Revolution ETF	(\$60M)
TAN	Invesco Solar ETF	(\$46M)
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	(\$21M)
ARKW	ARK Next Generation Internet ETF	(\$19M)
CIBR	First Trust NASDAQ Cybersecurity ETF	(\$18M)
ARKF	ARK Fintech Innovation ETF	(\$15M)
ICLN	iShares Global Clean Energy ETF	(\$11M)
PHO	Invesco Water Resources ETF	(\$9M)

Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	35	\$16B	(\$61M)	(\$604M)	(\$1,440M)	(\$1,664M)
Evolving Consumer	47	\$9B	(\$136M)	(\$1,052M)	(\$48M)	\$2,352M
FinTech	24	\$3B	(\$23M)	(\$224M)	(\$292M)	(\$322M)
Health Innovation	19	\$3B	(\$61M)	(\$132M)	(\$221M)	(\$1,663M)
Industrial Revolution	32	\$11B	(\$21M)	(\$238M)	(\$867M)	(\$685M)
Multi	41	\$13B	\$140M	(\$696M)	\$266M	\$1,148M
Sustainability	41	\$18B	(\$136M)	\$378M	(\$341M)	(\$322M)
Grand Total	239	\$74B	(\$299M)	(\$2,567M)	(\$2,943M)	(\$1,157M)

Thematic Monthly Flows

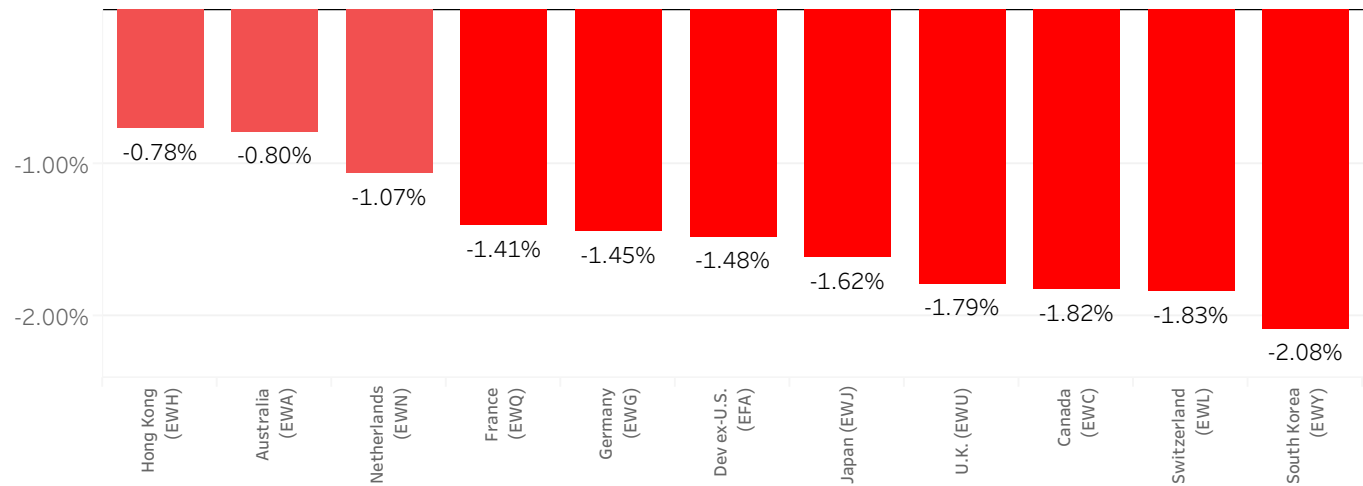


* ETF Landscape represented using the ETF Action classification system ** Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify *** Flows delayed one day

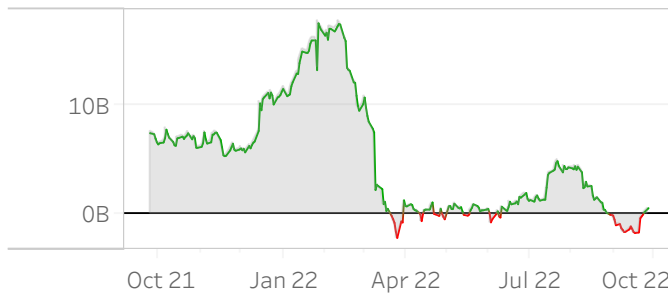
Developed ex-U.S. (EFA)



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



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



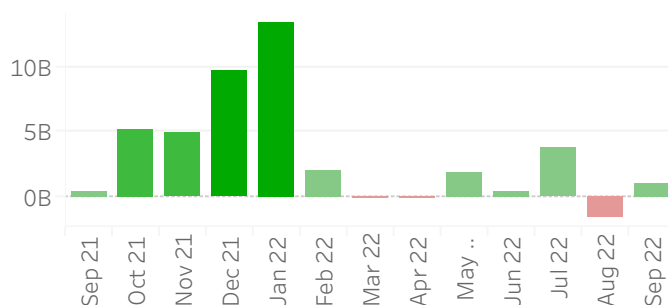
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
AIA	iShares Asia 50 ETF	0.31%
PTIN	Pacer Trendpilot International ETF	0.16%
DBEF	Xtrackers MSCI EAFE Hedged Equity ETF	-0.32%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	-0.36%
IHDG	WisdomTree International Hedged Quality Dividend Growth ..	-0.36%
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	-0.36%
HEDJ	WisdomTree Europe Hedged Equity Fund	-0.39%
HEZU	iShares Currency Hedged MSCI Eurozone ETF	-0.47%
HEFA	iShares Currency Hedged MSCI EAFE ETF	-0.48%
EIS	iShares MSCI Israel ETF	-0.55%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
PTIN	Pacer Trendpilot International ETF	52.57
DFJ	WisdomTree Japan SmallCap Dividend Fund	33.21
SCJ	iShares MSCI Japan Small-Cap ETF	32.72
EWI	iShares MSCI Italy ETF	32.03
EWJV	iShares MSCI Japan Value ETF	31.55
HEWJ	iShares Currency Hedged MSCI Japan ETF	31.04
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	30.75
DXJ	WisdomTree Japan Hedged Equity Fund	30.32
HEDJ	WisdomTree Europe Hedged Equity Fund	30.08
HEZU	iShares Currency Hedged MSCI Eurozone ETF	29.55

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
IMOM	Alpha Architect International Quantitative Momentum ETF	-3.37%
GREK	Global X MSCI Greece ETF	-3.26%
IVAL	Alpha Architect International Quantitative Value ETF	-3.18%
AVDV	Avantis International Small Cap Value ETF	-2.78%
FDT	First Trust Developed Markets ex-US AlphaDEX Fund	-2.71%
CIL	VictoryShares International Volatility Wtd ETF	-2.65%
NORW	Global X MSCI Norway ETF	-2.65%
DIM	WisdomTree International MidCap Dividend Fund	-2.54%
DISV	Dimensional International Small Cap Value ETF	-2.48%
FYLD	Cambria Foreign Shareholder Yield ETF	-2.46%

Developed ex-U.S. Most Oversold

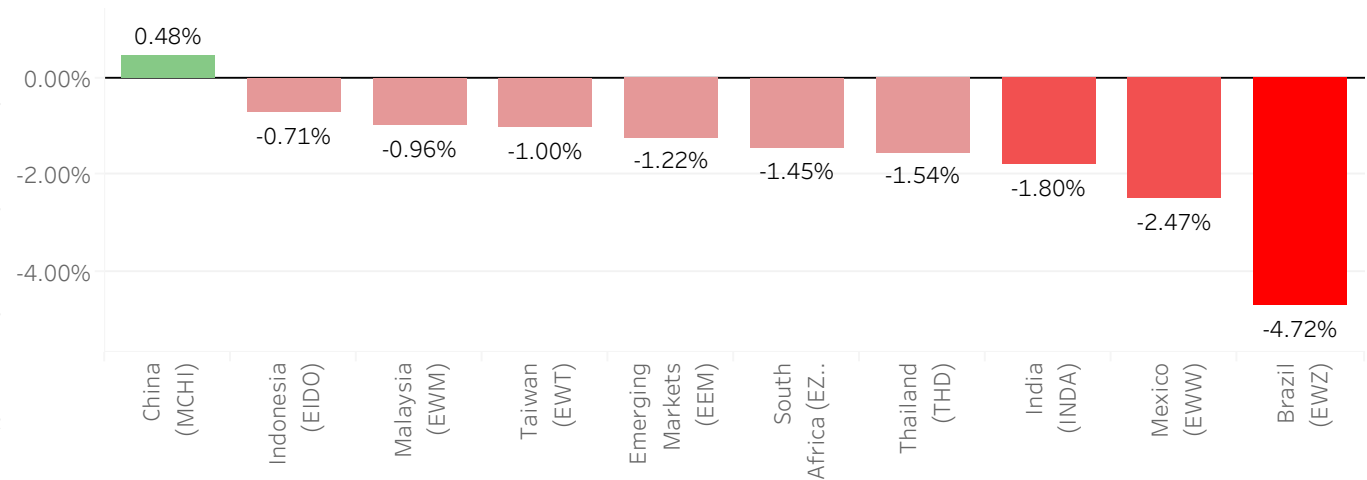
Ticker	Fund	Value
IMFL	Invesco International Developed Dynamic Multifact..	15.58
QLVD	FlexShares Developed Markets ex-US Quality Low V..	17.33
IDOG	ALPS International Sector Dividend Dogs ETF	18.31
IDLV	Invesco S&P International Developed Low Volatility ..	18.55
AIVI	WisdomTree International AI Enhanced Value Fund	18.55
IDV	iShares International Select Dividend ETF	18.86
RODM	Hartford Multifactor Developed Markets (ex-US) ETF	19.65
DIM	WisdomTree International MidCap Dividend Fund	19.72
EFAV	iShares MSCI EAFE Min Vol Factor ETF	19.74
GSID	Goldman Sachs MarketBeta International Equity ETF	19.88

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

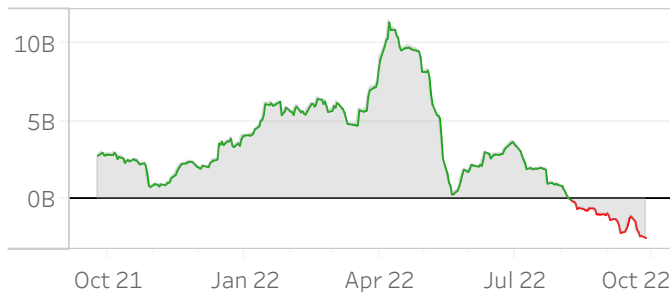
Emerging (EEM)



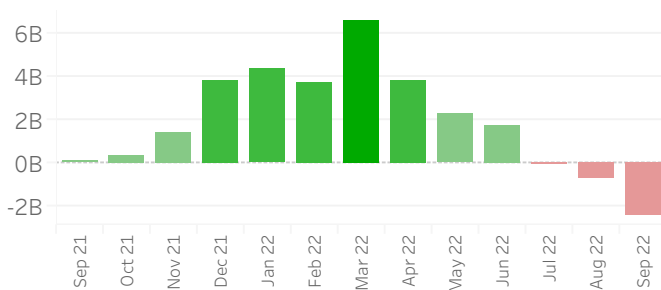
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
PGJ	Invesco Golden Dragon China ETF	1.51%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	1.18%
FXI	iShares China Large-Cap ETF	0.60%
MCHI	iShares MSCI China ETF	0.48%
FLCH	Franklin FTSE China ETF	0.46%
FNI	First Trust Chindia ETF	0.34%
GXC	SPDR S&P China ETF	0.26%
KBA	KraneShares Bosera MSCI China A 50 Connect Index ETF	0.03%
NUEM	Nuveen ESG Emerging Markets Equity ETF	-0.21%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	-0.33%

Emerging Most Overbought

Ticker	Fund	Price
TUR	iShares MSCI Turkey ETF	49.95
EIDO	iShares MSCI Indonesia ETF	44.49
FLBR	Franklin FTSE Brazil ETF	41.04
EWZ	iShares MSCI Brazil ETF	40.99
EWZS	iShares MSCI Brazil Small-Cap ETF	40.72
ILF	iShares Latin America 40 ETF	38.73
FLLA	Franklin FTSE Latin America ETF	36.96
EWW	iShares MSCI Mexico ETF	35.52
PGJ	Invesco Golden Dragon China ETF	35.38
SMIN	iShares MSCI India Small Cap ETF	32.90

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
EWZS	iShares MSCI Brazil Small-Cap ETF	-5.07%
EWZ	iShares MSCI Brazil ETF	-4.72%
FLBR	Franklin FTSE Brazil ETF	-4.47%
FLLA	Franklin FTSE Latin America ETF	-4.32%
EPOL	iShares MSCI Poland ETF	-3.90%
ILF	iShares Latin America 40 ETF	-3.90%
ECH	iShares MSCI Chile ETF	-3.38%
DVYE	iShares Emerging Markets Dividend ETF	-3.25%
KSA	iShares MSCI Saudi Arabia ETF	-3.25%
FEM	First Trust Emerging Markets AlphaDEX Fund	-2.83%

Emerging Most Oversold

Ticker	Fund	Price
EDIV	SPDR S&P Emerging Markets Dividend ETF	16.57
EELV	Invesco S&P Emerging Markets Low Volatility ETF	18.44
FM	iShares MSCI Frontier and Select EM ETF	18.54
KSA	iShares MSCI Saudi Arabia ETF	19.01
RAYC	Rayliant Quantamental China Equity ETF	20.09
EEMV	iShares MSCI Emerging Markets Min Vol Factor ETF	20.24
EWM	iShares MSCI Malaysia ETF	20.35
DGS	WisdomTree Emerging Markets SmallCap Dividend F..	20.88
DFEV	Dimensional Emerging Markets Value ETF	21.00
CNYA	iShares MSCI China A ETF	21.02

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

Fixed Income (AGG)



Commodities (DJP)



Currencies (UUP)



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

Fixed Income Performance

Ticker	Name	1 Day	1 Month	YTD
AGG	U.S. Aggregate	-1.29%	-5.38%	-14.73%
SHY	1-3 Year Treasury Bonds	-0.22%	-1.53%	-4.73%
IEF	7-10 Year Treasury Bonds	-1.66%	-6.46%	-16.33%
TLT	20+ Year Treasury Bonds	-1.91%	-8.55%	-29.08%
TIP	TIPS Bonds	-1.60%	-7.26%	-13.14%
FLOT	Floating Rate Bonds	-0.10%	0.47%	0.04%
LQD	Investment Grade Corporate	-1.74%	-7.05%	-20.82%
HYG	High Yield Corporate	-1.18%	-5.51%	-15.38%
BKLN	Senior Loan	-0.05%	-2.50%	-5.15%
PFF	Preferred & Income Securities	-0.73%	-6.31%	-17.83%
MUB	Municipal Bonds	-0.78%	-3.22%	-10.66%
MBB	MBS	-2.00%	-7.00%	-14.67%
EMB	Dollar Denominated EM Bonds	-2.36%	-7.23%	-24.38%
LEMB	Local Currency EM Bond	-1.49%	-4.85%	-17.41%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-1.96%	-12.64%	13.41%
DBE	Energy	-2.73%	-15.68%	29.39%
USO	WTI Crude Oil	-3.25%	-16.68%	16.26%
BNO	Brent Crude Oil	-2.97%	-14.91%	26.64%
UNG	Natural Gas	0.58%	-24.32%	93.84%
UGA	Gasoline	-1.03%	-12.26%	24.54%
DBP	Precious Metals	-1.26%	-5.91%	-14.54%
GLD	Gold	-1.16%	-6.51%	-11.54%
SLV	Silver	-2.53%	-2.53%	-21.34%
PPLT	Global X Physical Pla..	-0.50%	-1.25%	-11.98%
PALL	abrdn Physical Palla..	-1.29%	-3.59%	7.18%
DBB	Base Metals	-2.31%	-12.70%	-20.35%
CPER	Copper	-1.49%	-10.68%	-27.16%
LD	Lead	-6.62%	-18.30%	-26.26%
JJN	Nickel	-5.38%	1.74%	6.76%
JJU	Aluminum	-1.74%	-14.27%	-24.05%
JJT	Tin	1.98%	-16.31%	-45.67%
DBA	Agriculture	-1.63%	-4.00%	0.91%
CORN	Corn	-1.11%	-0.60%	23.54%
SOYB	Soybeans	-0.93%	-3.23%	17.05%
WEAT	Wheat	-2.38%	2.99%	16.51%
CANE	Sugar	-0.85%	-4.09%	-5.65%
BAL	Cotton	-4.10%	-25.08%	-4.90%
NIB	Cocoa	-1.86%	-9.00%	-20.30%
JO	Coffee	1.77%	-6.28%	1.67%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	1.12%	5.25%	19.63%
UDN	Short Dollar	-1.29%	-4.78%	-16.75%
FXE	Euro	-0.87%	-3.60%	-16.13%
FXB	British Pound Sterling	-1.60%	-8.82%	-20.94%
FXF	Swiss Franc	-1.15%	-2.76%	-8.93%
FXJ	Japanese Yen	-0.90%	-5.01%	-20.71%
FXC	Canadian Dollar	-0.98%	-5.01%	-8.07%
FXA	Australian Dollar	-1.22%	-6.33%	-11.39%

*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