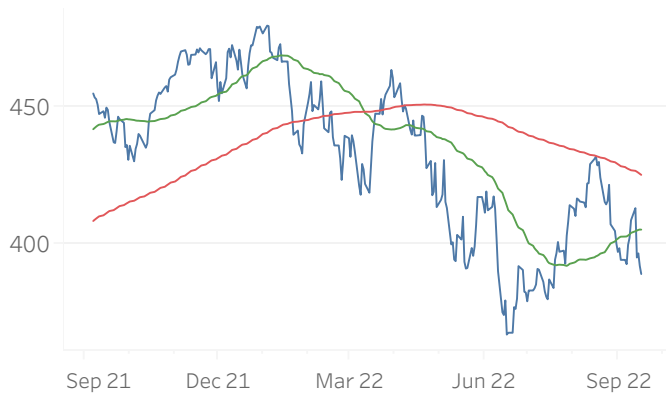


Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

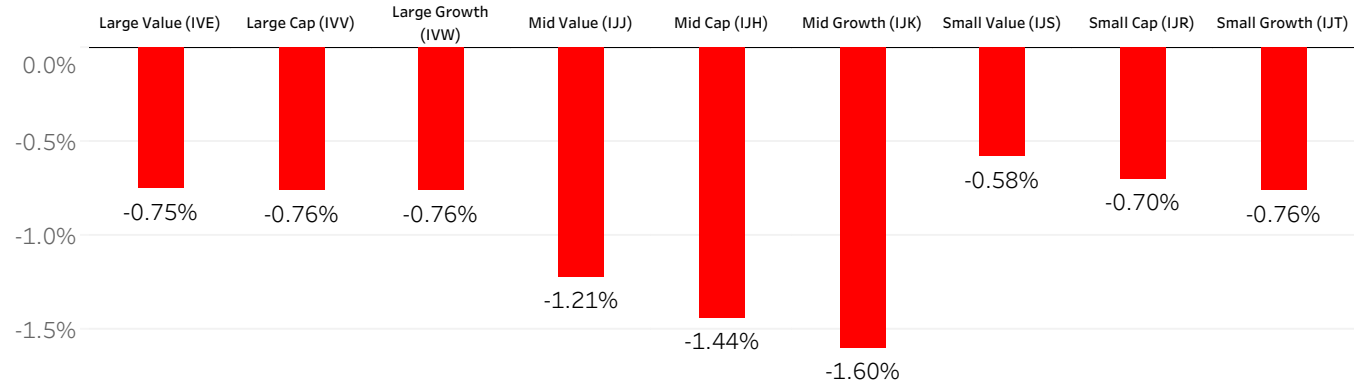


Small Cap Blend (S&P 600) IJR



■ 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
XSLV	Invesco S&P SmallCap Low Volatility ETF	0.20%
DURA	VanEck Morningstar Durable Dividend ETF	0.17%
SPC	CrossingBridge Pre-Merger SPAC ETF	0.15%
LSAT	Leadershares Alphafactor Tactical Focused ETF	0.07%
OMFS	Invesco Russell 2000 Dynamic Multifactor ETF	0.03%
PTLC	Pacer Trendpilot US Large Cap ETF	0.03%
OUSA	ALPS O'Shares U.S. Quality Dividend ETF	0.03%
SIXA	ETC 6 Meridian Mega Cap Equity ETF	0.00%
DJD	Invesco Dow Jones Industrial Average Dividend ETF	0.00%
LVHD	Franklin U.S. Low Volatility High Dividend Index ETF	0.00%

Size & Style Most Overbought

Ticker	Fund	Value
PTLC	Pacer Trendpilot US Large Cap ETF	68.67
SPC	CrossingBridge Pre-Merger SPAC ETF	58.89
LSAT	Leadershares Alphafactor Tactical Focused ETF	52.80
ONOF	Global X Adaptive U.S. Risk Management ETF	48.77
BUZZ	VanEck Social Sentiment ETF	44.18
QQXT	First Trust Nasdaq-100 Ex-Technology Sector Index Fund	43.43
CGGR	Capital Group Growth ETF	43.25
FCTR	First Trust Lunt U.S. Factor Rotation ETF	43.19
EQRR	ProShares Equities for Rising Rates ETF	43.18
SPHB	Invesco S&P 500 High Beta ETF	42.95

Size & Style 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
QVMM	Invesco S&P MidCap 400 QVM Multi-factor ETF	-5.63%
IPO	Renaissance IPO ETF	-4.64%
FFTY	Innovator IBD 50 ETF	-2.78%
AIEQ	AI Powered Equity ETF	-2.66%
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	-2.51%
VBK	Vanguard Small-Cap Growth ETF	-2.11%
LCG	Sterling Capital Focus Equity ETF	-2.11%
FPX	First Trust US Equity Opportunities ETF	-2.08%
BFOR	ALPS Barron's 400 ETF	-2.03%
BUZZ	VanEck Social Sentiment ETF	-2.02%

Size & Style Most Oversold

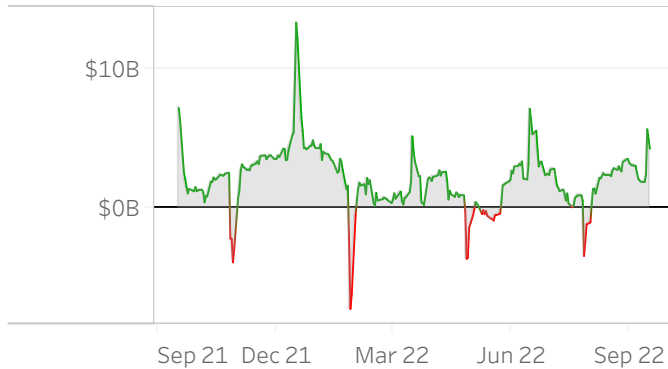
Ticker	Fund	Value
QVMS	Invesco S&P SmallCap 600 QVM Multi-factor ETF	13.47
USNZ	Xtrackers Net Zero Pathway Paris Aligned US Equity..	16.53
GUSA	Goldman Sachs MarketBeta U.S. 1000 Equity ETF	20.08
PTMC	Pacer Trendpilot US Mid Cap ETF	20.13
SIXS	ETC 6 Meridian Small Cap Equity ETF	31.75
CSB	VictoryShares US Small Cap High Dividend Volatility ..	32.40
QVML	Invesco S&P 500 QVM Multi-factor ETF	33.36
TPHE	Timothy Plan High Dividend Stock Enhanced ETF	33.96
QDEF	FlexShares Quality Dividend Defensive Index Fund	34.42
SDY	SPDR S&P Dividend ETF	34.53

*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	\$1,190B	\$0.08B	\$11.40B	\$21.26B	\$92.73B
Large Cap, Beta Growth, Beta: Growth	10	\$222B	\$0.73B	\$6.42B	\$12.15B	\$13.02B
Large Cap, Beta Growth, Beta: Value	11	\$213B	\$1.54B	\$0.72B	\$4.27B	\$25.74B
Mid Cap, Beta, Beta	10	\$176B	\$1.90B	\$2.06B	\$5.45B	\$11.29B
Mid Cap, Beta, Beta: Growth	6	\$33B	\$0.50B	\$0.96B	\$1.07B	\$0.75B
Mid Cap, Beta, Beta: Value	6	\$40B	\$0.56B	\$0.21B	\$0.10B	\$1.46B
Small Cap, Beta, Beta	13	\$188B	\$1.51B	(\$1.79B)	(\$5.10B)	\$7.96B
Small Cap, Beta, Beta: Growth	7	\$31B	\$0.17B	(\$0.23B)	\$0.08B	\$0.59B
Small Cap, Beta, Beta: Value	7	\$49B	\$0.89B	(\$1.55B)	(\$3.55B)	(\$1.81B)

U.S. Size & Style Flow Leaders

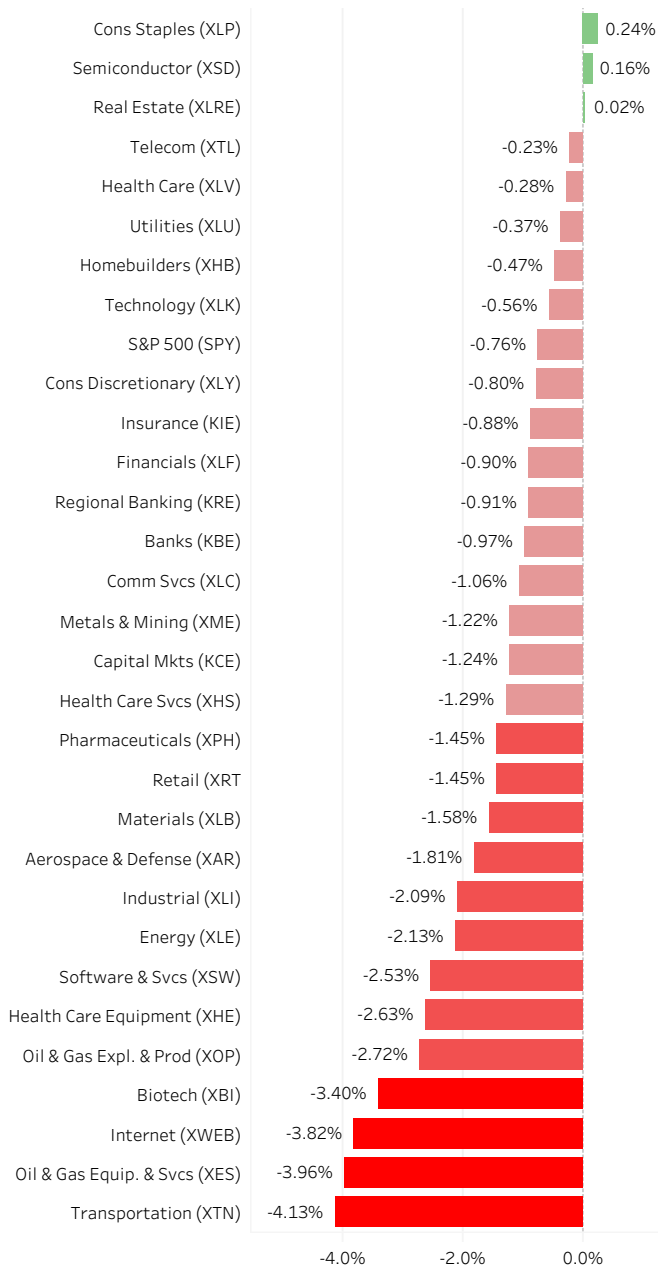
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VTI	Vanguard Total Stock Market ETF	\$2.76B	\$6.36B	\$10.12B	\$32.75B	\$261.90B
VOO	Vanguard S&P 500 ETF	\$1.92B	\$11.11B	\$12.61B	\$44.16B	\$263.62B
VXF	Vanguard Extended Market ETF	\$1.65B	\$1.34B	\$1.35B	(\$0.65B)	\$15.26B
VO	Vanguard Mid-Cap ETF	\$1.43B	\$0.46B	\$2.13B	\$5.30B	\$51.39B
QQQ	Invesco QQQ Trust	\$1.41B	(\$0.08B)	\$3.40B	\$11.03B	\$158.86B
VB	Vanguard Small-Cap ETF	\$1.00B	(\$0.62B)	(\$1.07B)	\$1.57B	\$42.62B
SCHA	Schwab U.S. Small-Cap ETF	\$0.93B	\$0.62B	\$0.05B	(\$0.17B)	\$14.36B
VTV	Vanguard Value ETF	\$0.88B	\$1.49B	\$5.22B	\$18.20B	\$98.57B
VBR	Vanguard Small Cap Value ETF	\$0.83B	(\$0.31B)	(\$1.21B)	\$0.88B	\$23.75B
VUG	Vanguard Growth ETF	\$0.73B	\$3.05B	\$6.18B	\$6.04B	\$73.42B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	(\$3.37B)	(\$5.91B)	(\$4.79B)	(\$5.33B)	\$351.79B
IWM	iShares Russell 2000 ETF	(\$0.49B)	(\$4.62B)	(\$4.92B)	(\$0.74B)	\$51.90B
IVV	iShares Core S&P 500 ETF	(\$0.28B)	\$2.10B	\$4.41B	\$29.24B	\$292.50B
IWY	iShares Russell Top 200 Growth ETF	(\$0.15B)	\$0.18B	\$0.88B	\$1.30B	\$4.68B
IWO	iShares Russell 2000 Growth ETF	(\$0.08B)	(\$0.54B)	(\$0.48B)	\$0.41B	\$9.31B
VLUE	iShares MSCI USA Value Factor ETF	(\$0.06B)	(\$1.01B)	(\$3.27B)	(\$6.75B)	\$8.13B
RSP	Invesco S&P 500 Equal Weight ETF	(\$0.05B)	\$0.12B	(\$1.07B)	\$2.98B	\$30.53B
QUAL	iShares MSCI USA Quality Factor ETF	(\$0.04B)	(\$1.20B)	(\$1.08B)	(\$2.13B)	\$18.13B
RDVY	First Trust Rising Dividend Achievers ETF	(\$0.04B)	(\$0.32B)	(\$1.17B)	\$3.80B	\$8.16B
IJS	iShares S&P Small-Cap 600 Value ETF	(\$0.03B)	(\$1.41B)	(\$1.25B)	(\$1.11B)	\$6.71B

* 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	-4.67%	16.58%	0.46%	3.99%	44.64
XLV	Health Care Select Sector SPDR Fund	-10.77%	6.31%	-1.79%	-3.22%	46.36
XLP	Consumer Staples Select Sector SPDR Fund	-11.47%	3.68%	-3.69%	-4.75%	35.89
XLE	Energy Select Sector SPDR Fund	-15.00%	50.59%	2.26%	6.50%	47.45
XLI	Industrial Select Sector SPDR Fund	-16.72%	4.34%	-4.86%	-8.04%	32.86
SPY	SPDR S&P 500 ETF Trust	-19.29%	5.38%	-4.44%	-8.89%	37.09
XLB	Materials Select Sector SPDR Fund	-19.55%	2.78%	-4.71%	-11.60%	36.56
XLF	Financial Select Sector SPDR Fund	-20.18%	7.55%	-1.31%	-8.15%	43.65
XLRE	Real Estate Select Sector SPDR Fund	-22.12%	3.86%	-5.81%	-10.76%	34.17
XLY	Consumer Discretionary Select Sector SPDR Fund	-25.30%	17.31%	-0.71%	-6.53%	46.28
XLK	Technology Select Sector SPDR Fund	-27.14%	4.23%	-7.69%	-12.55%	34.14
XLC	Communication Services Select Sector SPDR Fund	-36.51%	0.00%	-6.83%	-18.03%	35.97

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
KBWY	Invesco KBW Premium Yield Equity REIT ETF	1.21%
ITB	iShares U.S. Home Construction ETF	1.19%
SOXQ	Invesco PHLX Semiconductor ETF	0.90%
NETL	NETLease Corporate Real Estate ETF	0.62%
SOXX	iShares Semiconductor ETF	0.60%
PSI	Invesco Dynamic Semiconductors ETF	0.40%
PKB	Invesco Dynamic Building & Construction ETF	0.31%
FTXL	First Trust Nasdaq Semiconductor ETF	0.26%
XLP	Consumer Staples Select Sector SPDR Fund	0.24%
IYK	iShares U.S. Consumer Staples ETF	0.22%

Sector & Industry Most Overbought

Ticker	Fund	Value
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	50.39
KBWP	Invesco KBW Property & Casualty Insurance ETF	50.26
KBWR	Invesco KBW Regional Banking ETF	49.98
QABA	First Trust NASDAQ ABA Community Bank Index Fund	49.10
MLPA	Global X MLP ETF	48.92
AMLP	Alerian MLP ETF	48.89
AMZA	InfraCap MLP ETF	48.70
IYE	iShares U.S. Energy ETF	48.69
FCG	First Trust Natural Gas ETF	48.31
FXN	First Trust Energy AlphaDEX Fund	48.07

Sector & Industry 1 Day Performance Laggards

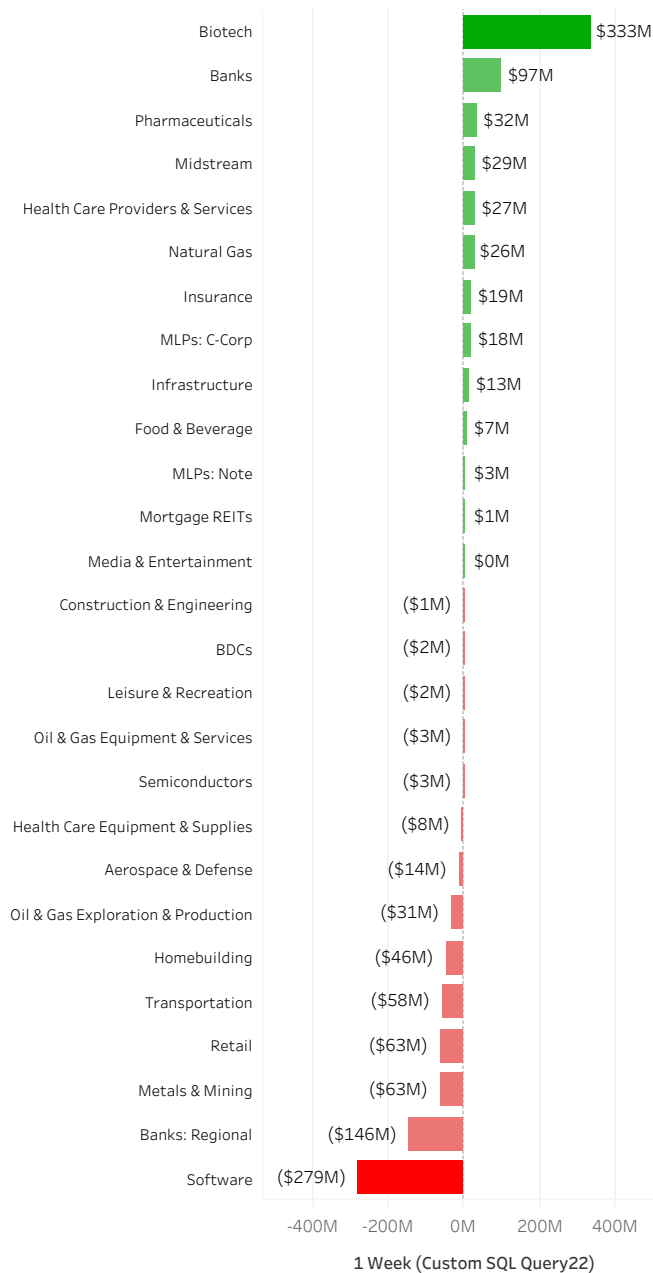
Ticker	Fund	1 Day Performance
IYT	iShares US Transportation ETF	-4.29%
XTN	SPDR S&P Transportation ETF	-4.13%
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-3.96%
FTXR	First Trust Nasdaq Transportation ETF	-3.88%
IEZ	iShares U.S. Oil Equipment & Services ETF	-3.72%
PXI	Invesco DWA Energy Momentum ETF	-3.54%
XBI	SPDR S&P BIOTECH ETF	-3.40%
AMZA	InfraCap MLP ETF	-3.13%
FXN	First Trust Energy AlphaDEX Fund	-3.00%
FCG	First Trust Natural Gas ETF	-2.99%

Sector & Industry Most Oversold

Ticker	Fund	Value
IYT	iShares US Transportation ETF	30.69
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	31.02
FXG	First Trust Consumer Staples AlphaDEX Fund	31.93
PSCI	Invesco S&P SmallCap Industrials ETF	32.02
IYZ	iShares U.S. Telecommunications ETF	32.23
FREL	Fidelity MSCI Real Estate Index ETF	32.72
XLI	Industrial Select Sector SPDR Fund	32.86
FTXR	First Trust Nasdaq Transportation ETF	32.90
XTN	SPDR S&P Transportation ETF	33.13
RHS	Invesco S&P 500 Equal Weight Consumer Staples ETF	33.13

* 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	\$12B	(\$64M)	(\$50M)	(\$843M)	(\$1,967M)
Consumer Discretionary	13	\$24B	\$228M	(\$460M)	(\$2,461M)	(\$4,571M)
Consumer Staples	11	\$28B	(\$32M)	\$1,683M	\$3,691M	\$6,457M
Energy	34	\$76B	\$545M	(\$3,693M)	(\$5,775M)	\$1,654M
Financials	27	\$59B	(\$899M)	(\$506M)	(\$13,923M)	(\$7,950M)
Health Care	24	\$91B	\$494M	\$1,961M	\$6,843M	\$11,887M
Industrial	14	\$28B	\$399M	(\$664M)	(\$2,892M)	(\$3,345M)
Materials	10	\$13B	(\$152M)	(\$2,742M)	(\$2,916M)	(\$1,554M)
Multi-Sector	19	\$14B	\$259M	(\$1,385M)	(\$2,599M)	(\$4,570M)
Real Estate	25	\$64B	\$331M	(\$1,610M)	(\$2,917M)	(\$1,052M)
Technology	24	\$108B	\$233M	\$35M	\$985M	(\$255M)
Utilities	10	\$29B	\$414M	\$1,823M	\$4,801M	\$5,504M

U.S. Sector & Industry Flow Leaders

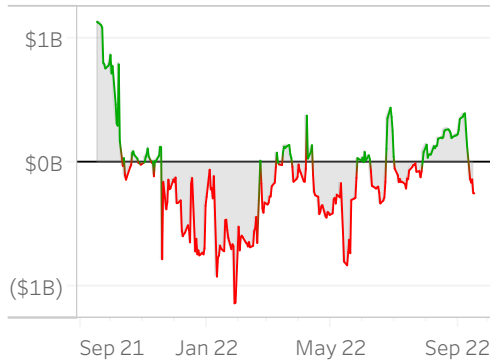
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLK	Technology Select Sector SPDR Fund	\$565M	\$1,010M	\$1,684M	\$2,492M	\$39,587M
XLI	Industrial Select Sector SPDR Fund	\$475M	(\$413M)	(\$1,610M)	(\$2,789M)	\$13,202M
XBI	SPDR S&P BIOTECH ETF	\$363M	\$761M	\$1,500M	\$4,057M	\$8,265M
XLU	Utilities Select Sector SPDR Fund	\$334M	\$1,168M	\$3,293M	\$3,359M	\$17,997M
XLY	Consumer Discretionary Select Sector SPDR Fu..	\$309M	(\$134M)	(\$143M)	(\$624M)	\$16,364M
XLE	Energy Select Sector SPDR Fund	\$294M	(\$1,439M)	(\$2,463M)	(\$947M)	\$37,077M
FDN	First Trust Dow Jones Internet Index Fund	\$292M	(\$76M)	(\$1,088M)	(\$2,439M)	\$4,377M
IYR	iShares U.S. Real Estate ETF	\$217M	(\$496M)	(\$834M)	(\$2,831M)	\$3,924M
FTXN	First Trust Nasdaq Oil & Gas ETF	\$193M	(\$134M)	(\$14M)	\$980M	\$1,335M
KBWB	Invesco KBW Bank ETF	\$99M	\$130M	(\$300M)	(\$150M)	\$2,122M

U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	(\$867M)	(\$39M)	(\$8,068M)	(\$3,965M)	\$31,437M
IGV	iShares Expanded Tech-Software Sector ETF	(\$280M)	(\$689M)	(\$588M)	\$174M	\$3,614M
KRE	SPDR S&P Regional Banking ETF	(\$144M)	\$32M	(\$1,807M)	(\$831M)	\$3,286M
XLC	Communication Services Select Sector SPDR Fu..	(\$91M)	(\$98M)	(\$532M)	(\$1,561M)	\$8,768M
XLB	Materials Select Sector SPDR Fund	(\$80M)	(\$1,276M)	(\$1,100M)	(\$1,789M)	\$5,227M
XME	SPDR S&P Metals & Mining ETF	(\$63M)	(\$700M)	(\$1,389M)	(\$229M)	\$1,666M
XRT	SPDR S&P Retail ETF	(\$63M)	(\$20M)	(\$312M)	(\$593M)	\$257M
XLP	Consumer Staples Select Sector SPDR Fund	(\$61M)	\$895M	\$1,059M	\$3,004M	\$15,690M
IYT	iShares US Transportation ETF	(\$56M)	(\$15M)	(\$592M)	(\$587M)	\$822M
VGT	Vanguard Information Technology ETF	(\$51M)	\$320M	\$1,806M	\$1,088M	\$41,737M

* 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



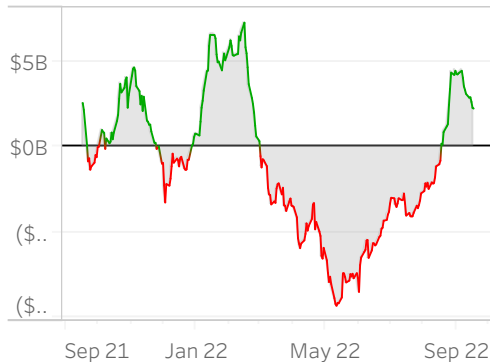
Consumer Staples



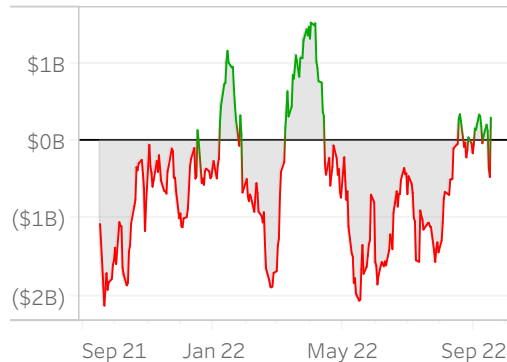
Energy



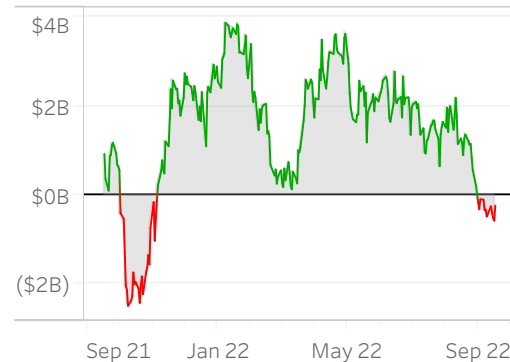
Financials



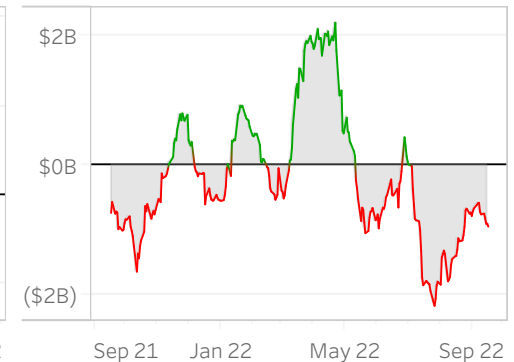
Industrial



Health Care



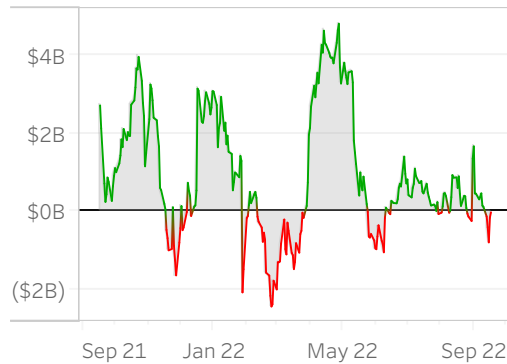
Materials



Real Estate



Technology



Utilities

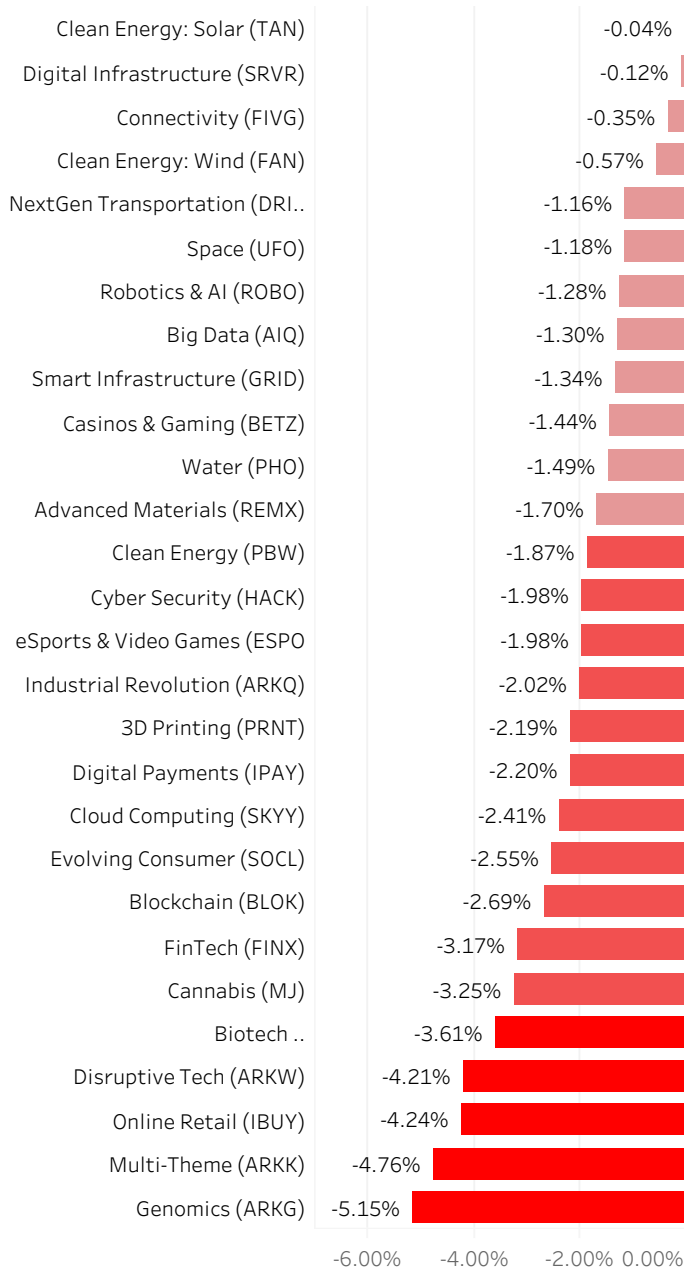


Multi-Sector

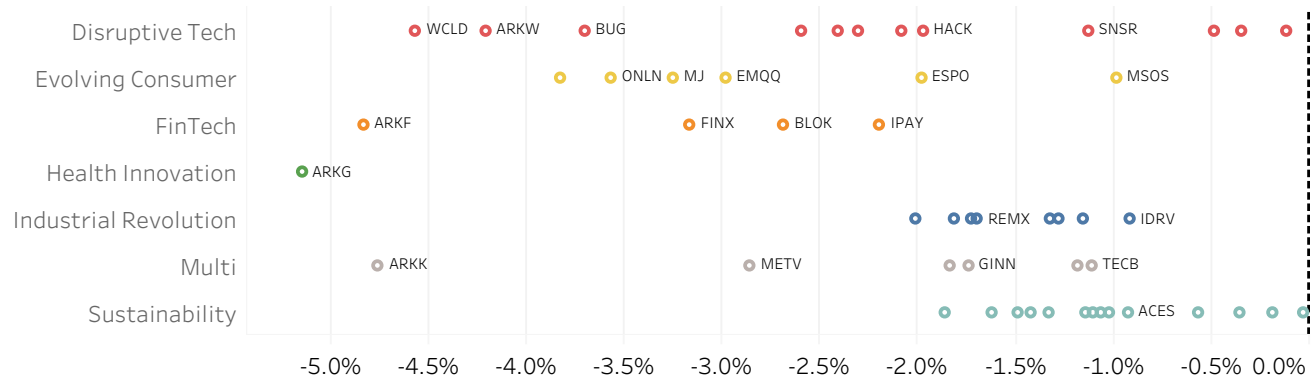


*ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
TAN	Invesco Solar ETF	-0.04%
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR..	-0.12%
PIO	Invesco Global Water ETF	-0.19%
BJK	VanEck Gaming ETF	-0.20%
RNRG	Global X Funds Global X Renewable Energy Producers ETF	-0.20%
FIVG	Defiance Next Gen Connectivity ETF	-0.35%
ICLN	iShares Global Clean Energy ETF	-0.36%
MJUS	ETFMG U.S. Alternative Harvest ETF	-0.39%
NXTG	First Trust Indxx NextG ETF	-0.49%
CTEC	Global X CleanTech ETF	-0.52%

Thematic Most Overbought

Ticker	Fund	Price
ACES	ALPS Clean Energy ETF	55.55
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	53.50
TAN	Invesco Solar ETF	50.62
PBW	Invesco WilderHill Clean Energy ETF	49.89
CNRG	SPDR S&P Kensho Clean Power ETF	48.96
BJK	VanEck Gaming ETF	48.20
ICLN	iShares Global Clean Energy ETF	48.19
CTEC	Global X CleanTech ETF	47.95
AWAY	ETFMG Travel Tech ETF	47.42
BTEC	Principal Healthcare Innovators ETF	46.08

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
BKCH	Global X Blockchain ETF	-5.29%
ARKG	ARK Genomic Revolution ETF	-5.15%
ARKF	ARK Fintech Innovation ETF	-4.84%
ARKK	ARK Innovation ETF	-4.76%
WCLD	WisdomTree Cloud Computing Fund	-4.57%
BITQ	Bitwise Crypto Industry Innovators ETF	-4.45%
IBUY	Amplify Online Retail ETF	-4.24%
ARKW	ARK Next Generation Internet ETF	-4.21%
GNOM	Global X Genomics & Biotechnology ETF	-3.84%
KWEB	KraneShares CSI China Internet ETF	-3.83%

Thematic Most Oversold

Ticker	Fund	Price
KGRN	KraneShares MSCI China Clean Technology Index ETF	27.15
PAWZ	ProShares Pet Care ETF	31.39
HERO	Global X Video Games & Esports ETF	31.61
VPN	Global X Data Center REITs & Digital Infrastructure ETF	31.66
NXTG	First Trust Indxx NextG ETF	32.73
ESPO	VanEck Video Gaming and eSports ETF	32.81
GAMR	Wedbush ETFMG Video Game Tech ETF	33.52
BOTZ	Global X Robotics & Artificial Intelligence ETF	33.74
YOLO	AdvisorShares Pure Cannabis ETF	33.91
EBLU	Ecofin Global Water ESG Fund	34.18

* 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	\$135M
TAN	Invesco Solar ETF	\$34M
FIW	First Trust Water ETF	\$21M
METV	Roundhill Ball Metaverse ETF	\$19M
ICLN	iShares Global Clean Energy ETF	\$13M
ARKG	ARK Genomic Revolution ETF	\$9M
CTEC	Global X CleanTech ETF	\$8M
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	\$7M
PHO	Invesco Water Resources ETF	\$7M
HTEC	ROBO Global Healthcare Technology and Innovation ETF	\$6M

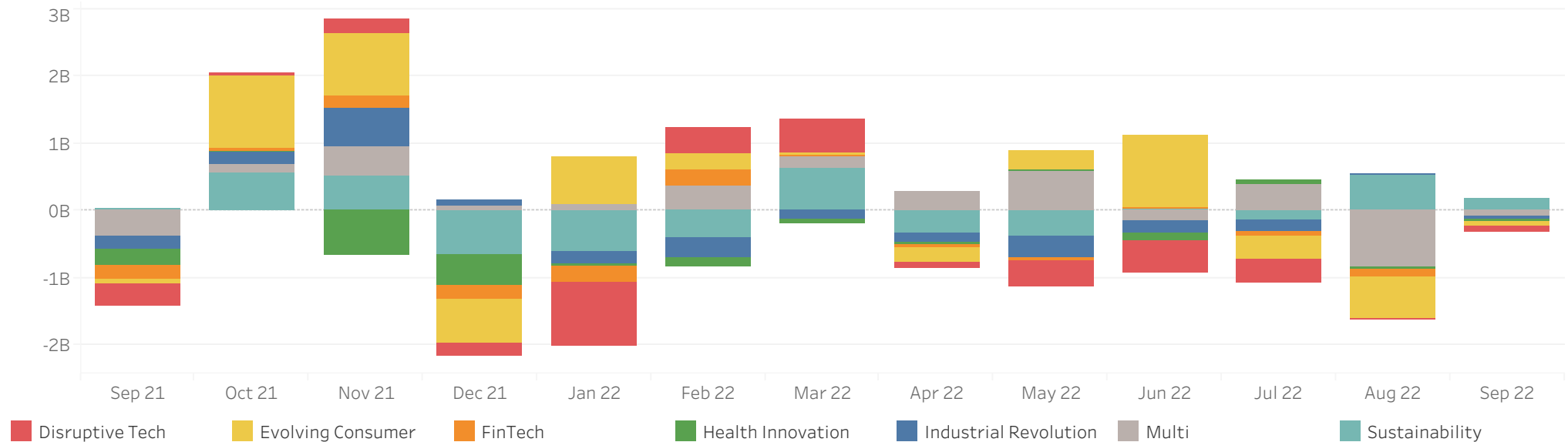
Thematic 1 Week Flow Laggards

Ticker	Fund	
ARKK	ARK Innovation ETF	(\$177M)
KWEB	KraneShares CSI China Internet ETF	(\$47M)
SKYY	First Trust Cloud Computing ETF	(\$46M)
TARK	AXS 2X Innovation ETF	(\$14M)
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	(\$11M)
CIBR	First Trust NASDAQ Cybersecurity ETF	(\$11M)
HACK	ETFMG Prime Cyber Security ETF	(\$10M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$8M)
BUG	Global X Cybersecurity ETF	(\$5M)
IPAY	ETFMG Prime Mobile Payments ETF	(\$4M)

Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	35	\$18B	(\$74M)	(\$580M)	(\$1,857M)	(\$1,737M)
Evolving Consumer	47	\$10B	(\$27M)	(\$544M)	\$490M	\$2,406M
FinTech	24	\$3B	(\$4M)	(\$198M)	(\$252M)	(\$484M)
Health Innovation	19	\$4B	\$6M	(\$109M)	(\$110M)	(\$1,721M)
Industrial Revolution	32	\$12B	(\$12M)	(\$302M)	(\$897M)	(\$813M)
Multi	41	\$15B	(\$241M)	(\$476M)	(\$530M)	\$1,111M
Sustainability	42	\$20B	\$223M	\$735M	(\$227M)	(\$59M)
Grand Total	240	\$82B	(\$129M)	(\$1,474M)	(\$3,381M)	(\$1,297M)

Thematic Monthly Flows

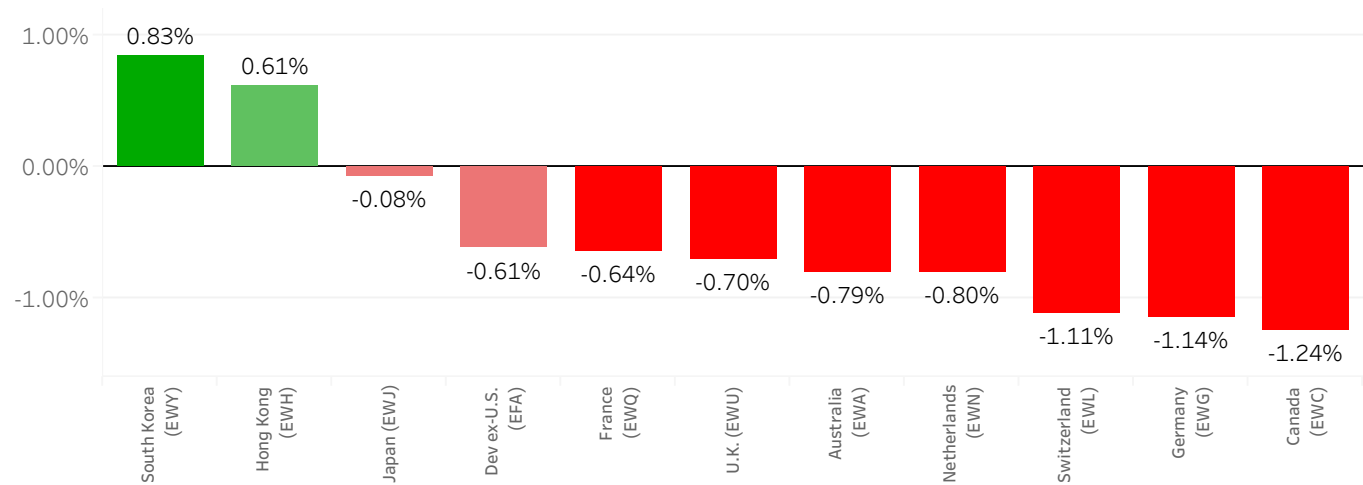


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Developed ex-U.S. (EFA)



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



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



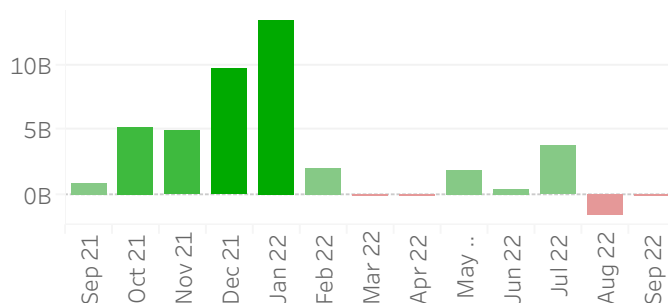
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
EWY	iShares MSCI South Korea ETF	0.83%
GREK	Global X MSCI Greece ETF	0.82%
EWH	iShares MSCI Hong Kong ETF	0.61%
EWJV	iShares MSCI Japan Value ETF	0.48%
SCJ	iShares MSCI Japan Small-Cap ETF	0.35%
EWS	iShares MSCI Singapore ETF	0.33%
ENZL	iShares MSCI New Zealand ETF	0.31%
DFJ	WisdomTree Japan SmallCap Dividend Fund	0.20%
LVHI	Franklin International Low Volatility High Dividend Index ETF	0.18%
IDLV	Invesco S&P International Developed Low Volatility ETF	0.11%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
PTIN	Pacer Trendpilot International ETF	52.61
EWI	iShares MSCI Italy ETF	49.79
EWSP	iShares MSCI Spain ETF	48.00
GREK	Global X MSCI Greece ETF	47.69
DXJ	WisdomTree Japan Hedged Equity Fund	45.20
EWO	iShares MSCI Austria ETF	44.94
EWS	iShares MSCI Singapore ETF	44.80
HEWJ	iShares Currency Hedged MSCI Japan ETF	44.08
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	44.04
FDD	First Trust Stoxx European Select Dividend Index Fund	43.82

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
IMFL	Invesco International Developed Dynamic Multifactor ETF	-3.74%
NORW	Global X MSCI Norway ETF	-2.21%
EDEN	iShares MSCI Denmark ETF	-1.94%
CIL	VictoryShares International Volatility Wtd ETF	-1.49%
BBCA	JPMorgan BetaBuilders Canada ETF	-1.38%
IVAL	Alpha Architect International Quantitative Value ETF	-1.32%
EWC	iShares MSCI Canada ETF	-1.24%
EWG	iShares MSCI Germany ETF	-1.14%
FLCA	Franklin FTSE Canada ETF	-1.13%
EWL	iShares MSCI Switzerland ETF	-1.11%

Developed ex-U.S. Most Oversold

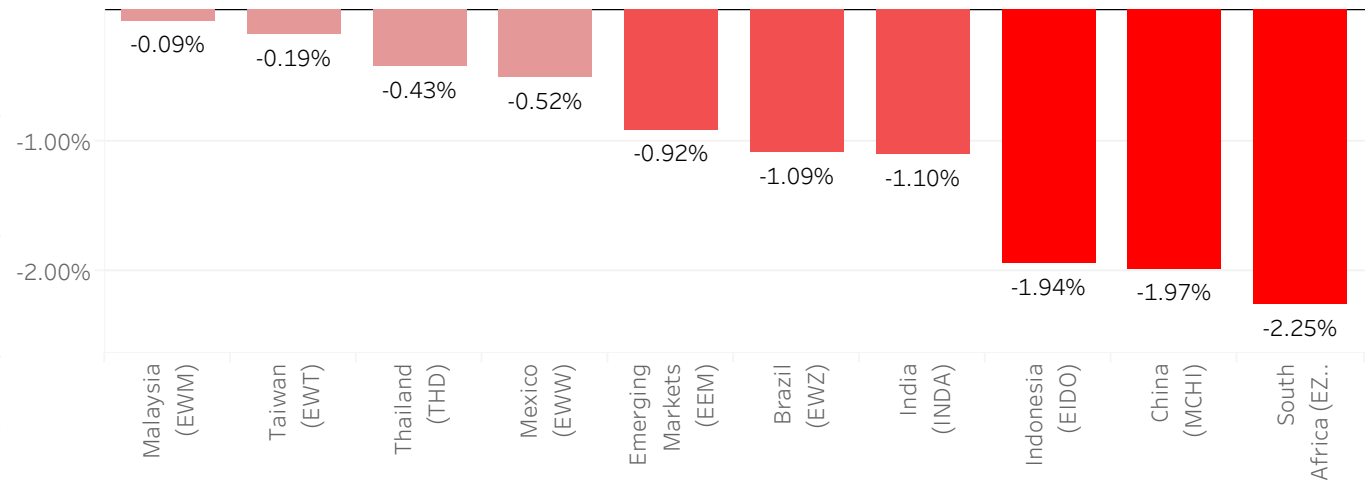
Ticker	Fund	Value
IMFL	Invesco International Developed Dynamic Multifactor..	30.20
QLVD	FlexShares Developed Markets ex-US Quality Low V..	31.68
DEEF	Xtrackers FTSE Developed ex US Multifactor ETF	32.98
NORW	Global X MSCI Norway ETF	34.19
AIA	iShares Asia 50 ETF	34.64
EDEN	iShares MSCI Denmark ETF	34.71
IDHQ	Invesco S&P International Developed High Quality E..	34.87
RFDI	First Trust Riverfront Dynamic Developed Internatio..	34.92
EFAV	iShares MSCI EAFE Min Vol Factor ETF	35.03
HDEF	Xtrackers MSCI EAFE High Dividend Yield Equity ETF	35.18

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

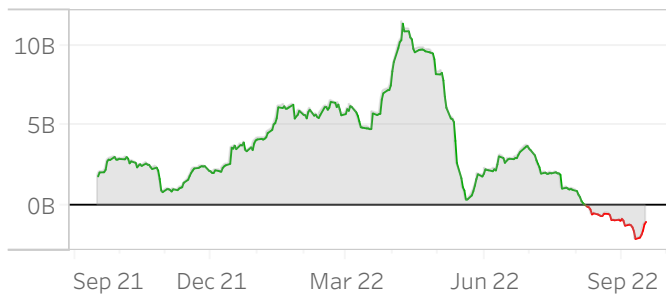
Emerging (EEM)



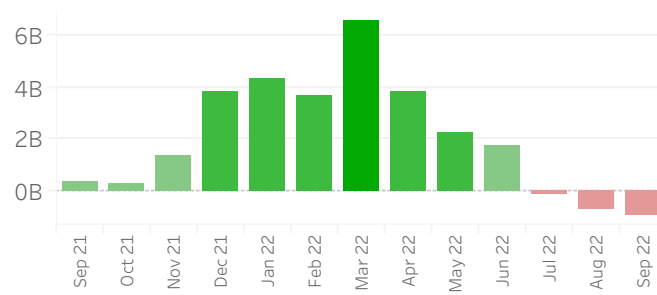
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
TUR	iShares MSCI Turkey ETF	1.13%
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fund	0.06%
EPHE	iShares MSCI Philippines ETF	0.00%
QAT	iShares MSCI Qatar ETF	-0.04%
EWM	iShares MSCI Malaysia ETF	-0.09%
EELV	Invesco S&P Emerging Markets Low Volatility ETF	-0.18%
EWT	iShares MSCI Taiwan ETF	-0.19%
EYLD	Cambria Emerging Shareholder Yield ETF	-0.19%
KSA	iShares MSCI Saudi Arabia ETF	-0.33%
ECH	iShares MSCI Chile ETF	-0.33%

Emerging Most Overbought

Ticker	Fund	Value
TUR	iShares MSCI Turkey ETF	57.38
EIDO	iShares MSCI Indonesia ETF	55.71
SMIN	iShares MSCI India Small Cap ETF	55.42
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fu..	52.24
EPI	WisdomTree India Earnings Fund	51.71
INDA	iShares MSCI India ETF	49.14
FLIN	Franklin FTSE India ETF	48.74
INDY	iShares India 50 ETF	48.56
EYLD	Cambria Emerging Shareholder Yield ETF	48.31
EWZ	iShares MSCI Mexico ETF	47.73

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
PGJ	Invesco Golden Dragon China ETF	-4.28%
FNI	First Trust Chindia ETF	-3.42%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	-2.36%
EZA	iShares MSCI South Africa ETF	-2.25%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	-2.22%
PIN	Invesco India ETF	-2.22%
GXC	SPDR S&P China ETF	-2.04%
RAYC	Rayliant Quantamental China Equity ETF	-2.02%
FLCH	Franklin FTSE China ETF	-2.00%
EPOL	iShares MSCI Poland ETF	-1.98%

Emerging Most Oversold

Ticker	Fund	Value
RAYC	Rayliant Quantamental China Equity ETF	27.64
CNYA	iShares MSCI China A ETF	29.37
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	29.59
KBA	KraneShares Bosera MSCI China A 50 Connect Index ..	30.19
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	32.16
EDIV	SPDR S&P Emerging Markets Dividend ETF	33.24
FM	iShares MSCI Frontier and Select EM ETF	33.98
TLTE	FlexShares Morningstar Emerging Markets Factor Ti..	34.15
FLCH	Franklin FTSE China ETF	34.20
EWM	iShares MSCI Malaysia ETF	34.47

*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	-0.07%	-3.95%	-12.17%
SHY	1-3 Year Treasury Bonds	0.05%	-0.93%	-3.99%
IEF	7-10 Year Treasury Bonds	0.08%	-4.83%	-13.28%
TLT	20+ Year Treasury Bonds	-0.83%	-7.44%	-26.76%
TIP	TIPS Bonds	-0.42%	-3.71%	-9.96%
FLOT	Floating Rate Bonds	-0.04%	0.45%	-0.10%
LQD	Investment Grade Corporate	-0.23%	-5.56%	-17.67%
HYG	High Yield Corporate	0.34%	-4.93%	-11.92%
BKLN	Senior Loan	-0.19%	-2.25%	-3.46%
PFF	Preferred & Income Securities	-0.37%	-6.71%	-14.53%
MUB	Municipal Bonds	-0.02%	-2.78%	-8.85%
MBB	MBS	-0.01%	-4.61%	-10.97%
EMB	Dollar Denominated EM Bonds	-0.54%	-5.28%	-20.40%
LEMB	Local Currency EM Bond	0.10%	-2.98%	-14.23%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-0.89%	-4.18%	20.91%
DBE	Energy	-0.62%	-3.60%	39.64%
USO	WTI Crude Oil	0.20%	-1.88%	28.59%
BNO	Brent Crude Oil	0.73%	0.14%	38.16%
UNG	Natural Gas	-5.97%	-16.49%	115.77%
UGA	Gasoline	-0.34%	-9.44%	29.10%
DBP	Precious Metals	0.77%	-5.55%	-11.47%
GLD	Gold	0.55%	-5.79%	-8.84%
SLV	Silver	2.04%	-3.12%	-16.36%
PPLT	abrdn Physical Platin..	0.27%	-3.05%	-6.22%
PALL	abrdn Physical Palla..	-0.93%	-1.47%	11.58%
DBB	Base Metals	0.00%	-5.58%	-14.82%
CPER	Copper	2.06%	-2.52%	-21.68%
LD	Lead	-1.65%	-17.65%	-19.60%
JJN	Nickel	5.68%	8.92%	18.62%
JJU	Aluminum	-1.14%	-4.63%	-18.79%
JJT	Tin	2.08%	-13.57%	-43.76%
DBA	Agriculture	-0.10%	1.53%	3.90%
CORN	Corn	0.22%	9.59%	25.77%
SOYB	Soybeans	-0.44%	4.07%	19.25%
WEAT	Wheat	1.99%	7.12%	18.13%
CANE	Sugar	-0.23%	-1.68%	-4.35%
BAL	Cotton	-3.30%	-14.63%	7.22%
NIB	Cocoa	-0.28%	-0.20%	-14.49%
JO	Coffee	0.13%	1.02%	-1.60%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	0.00%	3.19%	14.71%
UDN	Short Dollar	-0.18%	-3.37%	-13.54%
FXE	Euro	0.20%	-1.61%	-12.60%
FXB	British Pound Sterling	-0.44%	-5.49%	-15.58%
FXF	Swiss Franc	-0.35%	-1.67%	-6.21%
FXJ	Japanese Yen	0.38%	-6.10%	-19.72%
FXC	Canadian Dollar	-0.30%	-3.23%	-4.91%
FXA	Australian Dollar	0.29%	-4.31%	-7.68%

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

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