

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

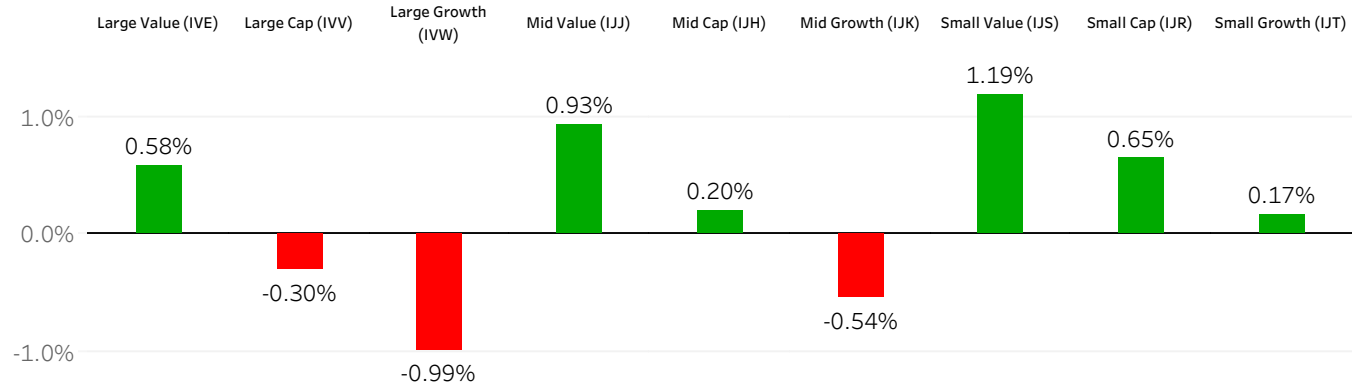


Small Cap Blend (S&P 600) IJR



■ 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
SYLD	Cambria Shareholder Yield ETF	1.89%
CALF	Pacer US Small Cap Cash Cows 100 ETF	1.79%
SPVU	Invesco S&P 500 Enhanced Value ETF	1.77%
QVAL	Alpha Architect U.S. Quantitative Value ETF	1.76%
FNK	First Trust Mid Cap Value AlphaDEX Fund	1.75%
RPV	Invesco S&P 500 Pure Value ETF	1.70%
RZV	Invesco S&P Smallcap 600 Pure Value ETF	1.65%
RFV	Invesco S&P Midcap 400 Pure Value ETF	1.50%
VUSE	Vident Core US Equity Fund	1.45%
RWJ	Invesco S&P SmallCap 600 Revenue ETF	1.44%

Size & Style Most Overbought

Ticker	Fund	Price
HLAL	Wahed FTSE USA Shariah ETF	73.90
SPUS	SP Funds S&P 500 Sharia Industry Exclusions ETF	73.50
LEAD	Siren DIVCON Leaders Dividend ETF	70.89
ALTL	Pacer Lunt Large Cap Alternator ETF	69.41
KRMA	Global X Conscious Companies ETF	68.77
EFIV	SPDR S&P 500 ESG ETF	68.30
SNPE	Xtrackers S&P 500 ESG ETF	68.04
QVML	Invesco S&P 500 QVM Multi-factor ETF	67.69
LGLV	SPDR SSGA US Large Cap Low Volatility Index ETF	67.44
PLRG	Principal US Large-Cap Adaptive Multi-Factor ETF	67.31

Size & Style 1-Day Performance Laggards

Ticker	Fund	Performance
FFTY	Innovator IBD 50 ETF	-4.80%
IPO	Renaissance IPO ETF	-4.26%
FPX	First Trust US Equity Opportunities ETF	-3.55%
MMLG	First Trust Multi-Manager Large Growth ETF	-2.49%
LCG	Sterling Capital Focus Equity ETF	-2.26%
QQQN	VictoryShares Nasdaq Next 50 ETF	-2.19%
PDP	Invesco DWA Momentum ETF	-2.02%
DWEQ	AdvisorShares Dorsey Wright Alpha Equal Weight ETF	-1.88%
DFNV	TrimTabs Donoghue Forlines Risk Managed Innovation E..	-1.84%
VOT	Vanguard Mid-Cap Growth ETF	-1.82%

Size & Style Most Oversold

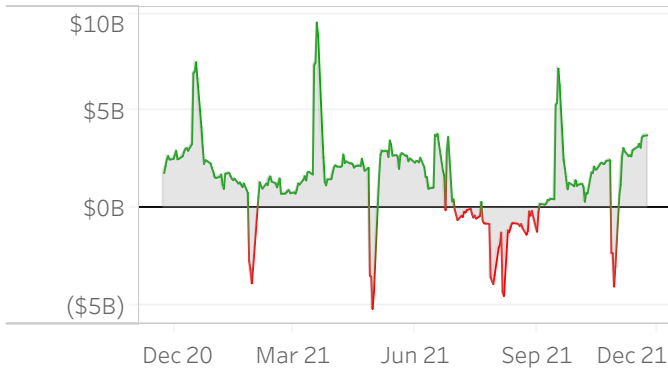
Ticker	Fund	Price
MFMS	Motley Fool Small-Cap Growth ETF	35.06
GURU	Global X Guru Index ETF	36.87
SHE	SPDR SSGA Gender Diversity Index ETF	37.30
IPO	Renaissance IPO ETF	37.39
VBK	Vanguard Small-Cap Growth ETF	39.48
FPX	First Trust US Equity Opportunities ETF	40.17
FFTY	Innovator IBD 50 ETF	40.74
MMLG	First Trust Multi-Manager Large Growth ETF	41.06
IWC	iShares Micro-Cap ETF	41.28
ISCG	iShares Morningstar Small-Cap Growth ETF	41.75

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

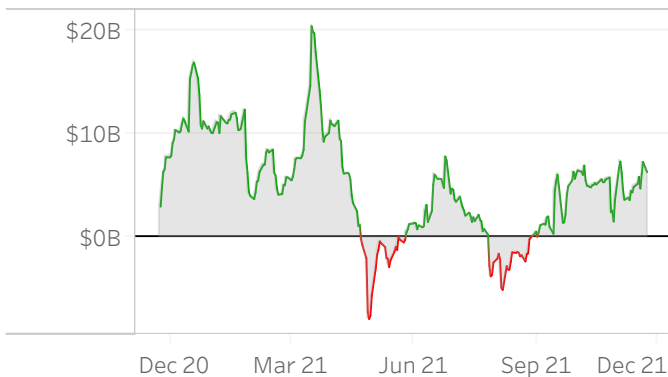
Large-Cap 30-Day Rolling Flows



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
Small Cap, Beta, Beta	12	\$233B	\$1.00B	\$10.41B	\$11.25B	\$28.79B
Large Cap, Beta Growth, Beta: Value	11	\$209B	\$0.65B	\$5.93B	\$9.51B	\$32.27B
Mid Cap, Beta, Beta	10	\$198B	\$0.64B	\$3.84B	\$3.50B	\$9.83B
Large Cap, Beta Growth, Beta	24	\$1,378B	\$0.50B	\$46.25B	\$84.10B	\$104.60B
Mid Cap, Beta, Beta: Growth	6	\$43B	\$0.33B	\$0.87B	\$0.65B	(\$1.69B)
Small Cap, Beta, Beta: Growth	7	\$40B	\$0.10B	\$0.33B	\$0.41B	\$1.05B
Mid Cap, Beta, Beta: Value	6	\$43B	\$0.04B	\$0.53B	(\$0.01B)	\$4.11B
Small Cap, Beta, Beta: Value	7	\$59B	\$0.00B	\$0.85B	\$0.25B	\$7.86B
Large Cap, Beta Growth, Beta: Growth	10	\$281B	(\$0.89B)	\$1.63B	\$8.27B	\$4.72B

U.S. Size & Style Flow Leaders

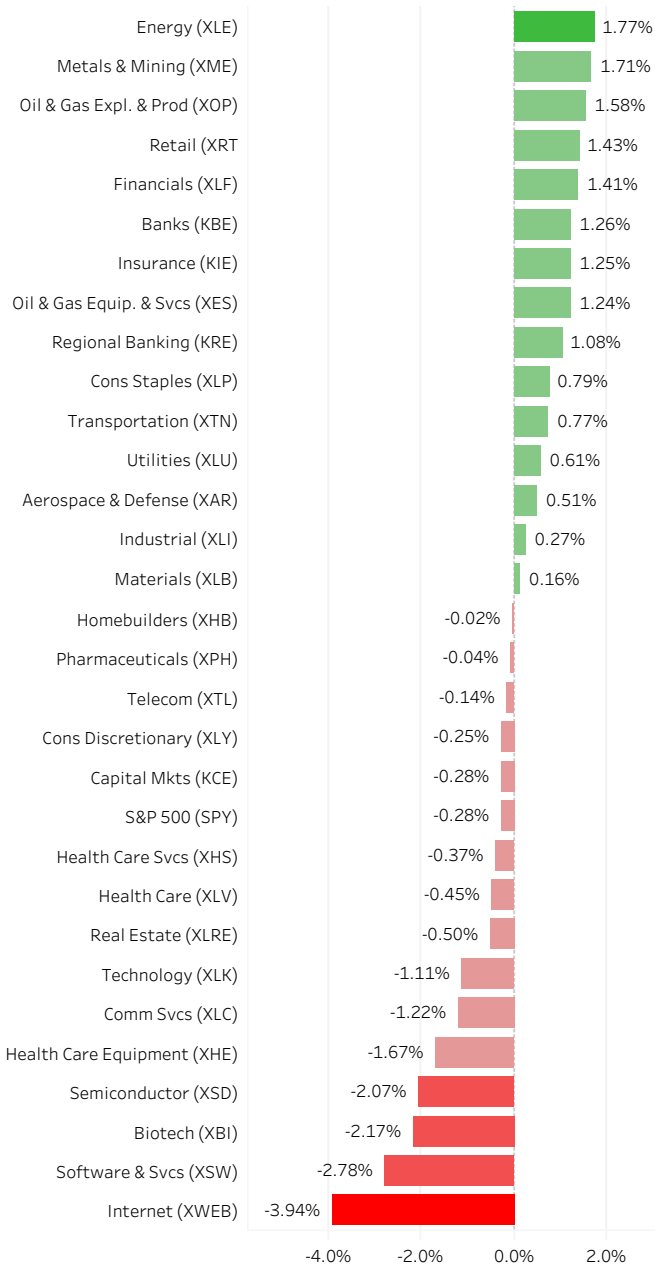
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
QQQ	Invesco QQQ Trust	\$1.69B	\$10.12B	\$18.32B	\$18.41B	\$213.53B
IVV	iShares Core S&P 500 ETF	\$1.62B	\$11.28B	\$14.21B	\$21.71B	\$327.31B
VTI	Vanguard Total Stock Market ETF	\$0.95B	\$11.32B	\$21.80B	\$43.93B	\$292.20B
VOO	Vanguard S&P 500 ETF	\$0.71B	\$13.30B	\$25.04B	\$43.65B	\$277.73B
VTV	Vanguard Value ETF	\$0.49B	\$3.28B	\$6.05B	\$16.03B	\$89.12B
QQQM	Invesco NASDAQ 100 ETF	\$0.48B	\$1.53B	\$2.15B	\$2.64B	\$3.38B
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.45B	(\$0.24B)	(\$1.02B)	(\$0.02B)	\$30.02B
IWM	iShares Russell 2000 ETF	\$0.36B	\$4.61B	\$3.62B	\$9.63B	\$73.37B
VB	Vanguard Small-Cap ETF	\$0.31B	\$1.59B	\$2.79B	\$6.70B	\$50.75B
IJR	iShares Core S&P Small Cap ETF	\$0.31B	\$2.67B	\$1.74B	\$5.12B	\$75.23B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VUG	Vanguard Growth ETF	(\$0.82B)	(\$0.08B)	\$1.98B	\$3.35B	\$91.21B
MTUM	iShares MSCI USA Momentum Factor ETF	(\$0.57B)	\$0.72B	\$0.32B	\$1.10B	\$16.24B
IWF	iShares Russell 1000 Growth ETF	(\$0.48B)	(\$1.32B)	(\$0.33B)	(\$2.86B)	\$79.06B
IUSG	iShares Core S&P U.S. Growth ETF	(\$0.39B)	(\$0.30B)	(\$0.06B)	(\$0.11B)	\$13.41B
IWN	iShares Russell 2000 Value ETF	(\$0.27B)	(\$0.19B)	(\$1.20B)	\$1.17B	\$16.24B
SCHA	Schwab U.S. Small-Cap ETF	(\$0.17B)	\$0.47B	\$0.96B	\$2.11B	\$17.46B
QUAL	iShares MSCI USA Quality Factor ETF	(\$0.09B)	(\$1.03B)	\$1.68B	(\$2.13B)	\$25.00B
SNPE	Xtrackers S&P 500 ESG ETF	(\$0.06B)	\$0.06B	\$0.13B	\$0.27B	\$0.82B
DGRW	WisdomTree US Quality Dividend Growth Fund	(\$0.06B)	\$0.19B	\$0.46B	\$0.75B	\$6.77B
RSP	Invesco S&P 500 Equal Weight ETF	(\$0.04B)	\$0.58B	\$0.82B	\$9.32B	\$30.97B

* 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)
XLY	Consumer Discretionary Select Sector SPDR Fund	-0.25%	35.33%	9.23%	17.60%	71.08
SPY	SPDR S&P 500 ETF Trust	-0.46%	28.22%	3.83%	9.36%	63.83
XLP	Consumer Staples Select Sector SPDR Fund	-0.78%	14.72%	2.08%	3.75%	57.66
XLI	Industrial Select Sector SPDR Fund	-1.03%	25.07%	3.02%	4.43%	56.70
XLK	Technology Select Sector SPDR Fund	-1.11%	36.28%	6.74%	15.11%	66.25
XLRE	Real Estate Select Sector SPDR Fund	-1.56%	36.82%	2.34%	8.74%	52.73
XLB	Materials Select Sector SPDR Fund	-1.83%	26.36%	4.92%	6.70%	60.44
XLF	Financial Select Sector SPDR Fund	-2.58%	40.67%	1.14%	7.13%	48.05
XLV	Health Care Select Sector SPDR Fund	-3.27%	19.47%	1.13%	5.09%	49.36
XLU	Utilities Select Sector SPDR Fund	-3.37%	16.02%	2.38%	3.48%	58.07
XLE	Energy Select Sector SPDR Fund	-5.92%	48.41%	0.55%	7.41%	43.56
XLC	Communication Services Select Sector SPDR Fund	-8.52%	20.96%	-2.76%	-0.72%	35.93

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
KBWR	Invesco KBW Regional Banking ETF	2.05%
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	2.01%
RYE	Invesco S&P 500 Equal Weight Energy ETF	1.96%
PXE	Invesco Dynamic Energy Exploration & Production ..	1.90%
KBWB	Invesco KBW Bank ETF	1.78%
XLE	Energy Select Sector SPDR Fund	1.77%
IAT	iShares U.S. Regional Banks ETF	1.77%
KBWP	Invesco KBW Property & Casualty Insurance ETF	1.72%
IAK	iShares U.S. Insurance ETF	1.71%
XME	SPDR S&P Metals & Mining ETF	1.71%

Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
XHB	SPDR S&P Homebuilders ETF	75.12
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	74.64
PKB	Invesco Dynamic Building & Construction ETF	73.22
ITB	iShares U.S. Home Construction ETF	73.18
PRN	Invesco DWA Industrials Momentum ETF	72.45
XLY	Consumer Discretionary Select Sector SPDR Fund	71.08
FDIS	Fidelity MSCI Consumer Discretionary Index ETF	68.38
VCR	Vanguard Consumer Discretionary ETF	68.21
PSCI	Invesco S&P SmallCap Industrials ETF	68.14
SOXX	iShares Semiconductor ETF	67.75

Sector & Industry 1 Day Performance Laggards

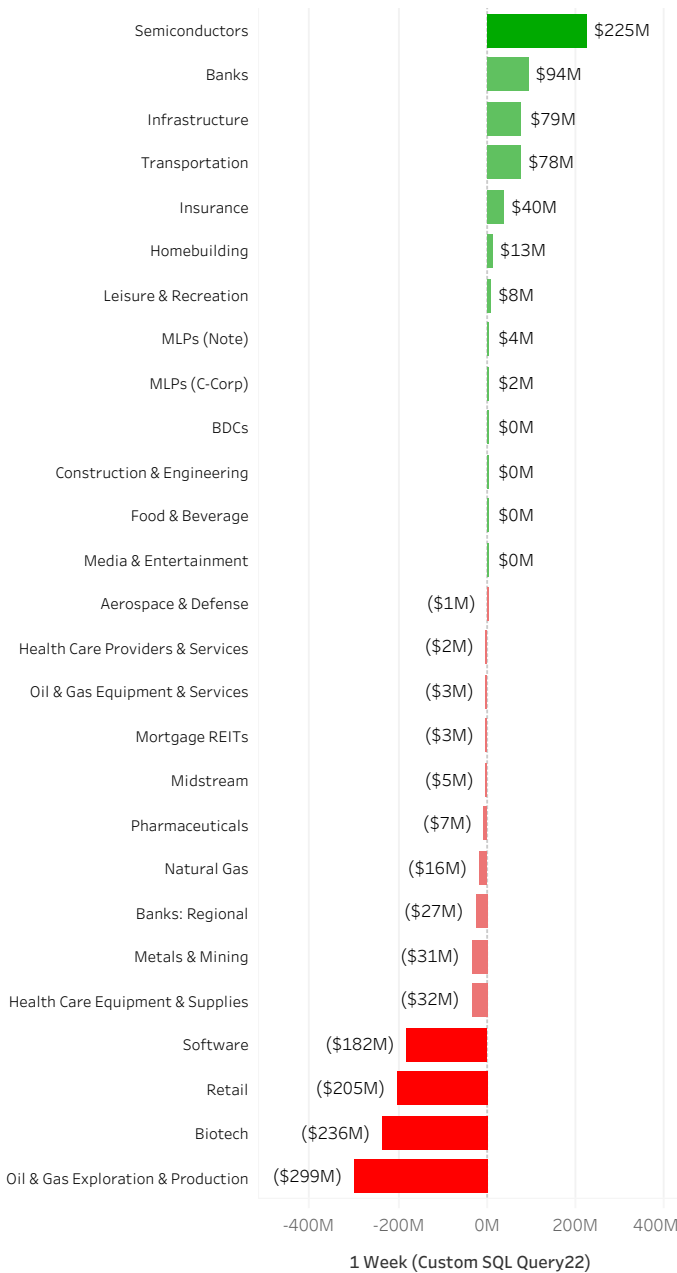
Ticker	Fund	1 Day Performance
PTF	Invesco DWA Technology Momentum ETF	-5.33%
PSJ	Invesco Dynamic Software ETF	-3.36%
PTH	Invesco DWA Healthcare Momentum ETF	-3.10%
IGV	iShares Expanded Tech-Software Sector ETF	-2.82%
XSW	SPDR S&P Software & Services ETF	-2.78%
FDN	First Trust Dow Jones Internet Index Fund	-2.77%
PNQI	Invesco NASDAQ Internet ETF	-2.76%
FXL	First Trust Technology AlphaDEX Fund	-2.29%
XBI	SPDR S&P BIOTECH ETF	-2.17%
QTEC	First Trust NASDAQ-100 Technology Sector Index Fund	-2.15%

Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
ENFR	Alerian Energy Infrastructure ETF	28.97
XES	SPDR S&P Oil & Gas Equipment & Services ETF	30.05
IEZ	iShares U.S. Oil Equipment & Services ETF	30.26
AMLP	Alerian MLP ETF	30.74
MLPX	Global X MLP & Energy Infrastructure ETF	31.43
PEJ	Invesco Dynamic Leisure & Entertainment ETF	31.87
XSW	SPDR S&P Software & Services ETF	32.05
XHE	SPDR S&P Health Care Equipment ETF	32.63
MLPA	Global X MLP ETF	32.93
XBI	SPDR S&P BIOTECH ETF	33.40

* 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	9	\$21B	(\$561M)	(\$25M)	\$1,444M	\$1,609M
Consumer Discretionary	13	\$39B	(\$234M)	\$932M	\$290M	\$3,232M
Consumer Staples	12	\$20B	(\$203M)	(\$1,417M)	\$627M	(\$3,366M)
Energy	34	\$52B	(\$797M)	\$588M	(\$638M)	\$9,499M
Financials	28	\$83B	(\$1,005M)	\$2,051M	(\$1,317M)	\$21,698M
Health Care	26	\$90B	(\$229M)	\$664M	\$3,792M	\$3,850M
Industrial	14	\$36B	\$75M	(\$1,604M)	(\$4,017M)	\$1,371M
Materials	10	\$17B	(\$13M)	(\$637M)	(\$1,385M)	\$4,389M
Multi-Sector	17	\$27B	\$100M	\$1,022M	\$860M	\$4,007M
Real Estate	22	\$79B	\$212M	\$4,418M	\$8,150M	\$13,095M
Technology	24	\$158B	\$192M	\$3,573M	\$6,169M	\$4,341M
Utilities	10	\$20B	\$128M	(\$652M)	\$842M	\$60M

U.S. Sector & Industry Flow Leaders

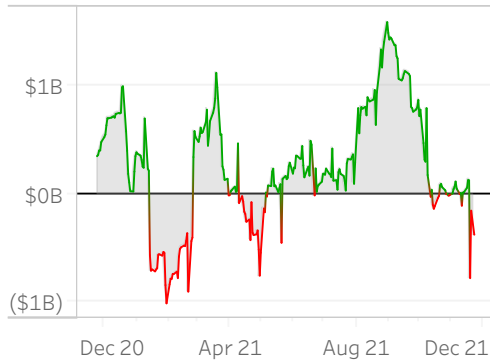
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLRE	Real Estate Select Sector SPDR Fund	\$422M	\$719M	\$1,657M	\$2,061M	\$5,168M
SOXX	iShares Semiconductor ETF	\$216M	\$1,071M	\$1,286M	\$2,342M	\$9,442M
IYW	iShares U.S. Technology ETF	\$161M	\$404M	\$871M	\$560M	\$9,856M
VDE	Vanguard Energy ETF	\$141M	\$368M	\$430M	\$1,026M	\$5,806M
XLU	Utilities Select Sector SPDR Fund	\$108M	(\$752M)	\$550M	(\$261M)	\$12,538M
KBWB	Invesco KBW Bank ETF	\$104M	\$24M	\$245M	\$1,188M	\$3,048M
XTN	SPDR S&P Transportation ETF	\$91M	\$402M	\$230M	\$455M	\$980M
XLB	Materials Select Sector SPDR Fund	\$71M	(\$214M)	(\$884M)	\$2,023M	\$8,585M
PAVE	Global X U.S. Infrastructure Development ETF	\$68M	\$672M	\$1,381M	\$3,982M	\$5,409M
IAT	iShares U.S. Regional Banks ETF	\$68M	\$95M	\$521M	\$906M	\$1,403M

U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	(\$1,072M)	\$606M	(\$2,254M)	\$11,009M	\$43,369M
XLE	Energy Select Sector SPDR Fund	(\$622M)	\$385M	(\$270M)	\$6,269M	\$25,178M
XLC	Communication Services Select Sector SPDR Fu..	(\$402M)	(\$9M)	\$755M	\$656M	\$14,607M
IYR	iShares U.S. Real Estate ETF	(\$330M)	\$1,173M	\$1,442M	\$811M	\$6,891M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	(\$275M)	(\$470M)	(\$970M)	(\$669M)	\$3,274M
XBI	SPDR S&P BIOTECH ETF	(\$232M)	\$52M	\$653M	\$748M	\$7,039M
XLP	Consumer Staples Select Sector SPDR Fund	(\$218M)	(\$1,593M)	\$428M	(\$2,989M)	\$11,698M
XRT	SPDR S&P Retail ETF	(\$205M)	(\$17M)	\$388M	\$177M	\$1,081M
VOX	Vanguard Communication Services ETF	(\$186M)	(\$60M)	\$512M	\$646M	\$4,417M
IGV	iShares Expanded Tech-Software Sector ETF	(\$179M)	\$462M	\$47M	(\$960M)	\$6,263M

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

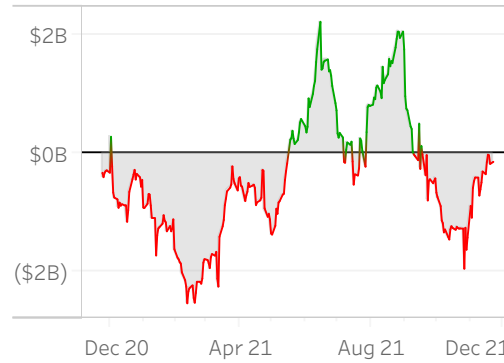
Communication Services



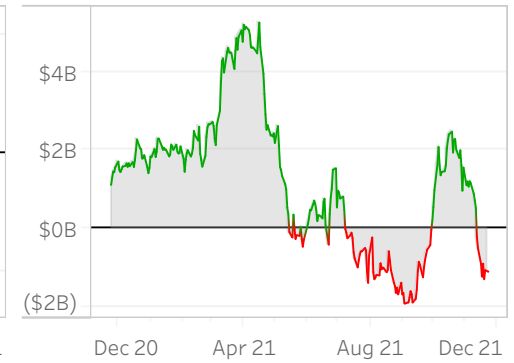
Consumer Discretionary



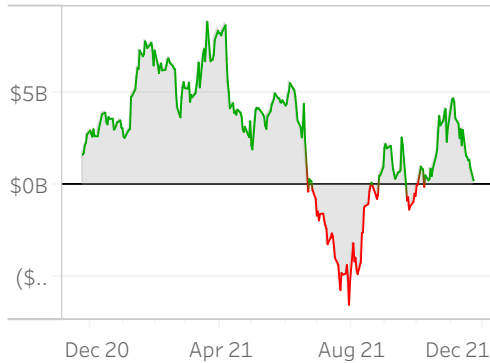
Consumer Staples



Energy



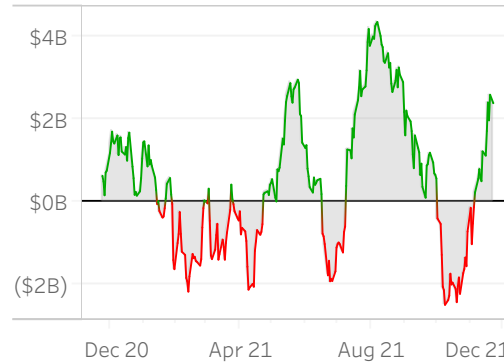
Financials



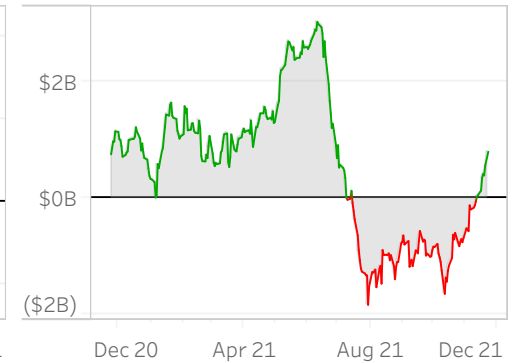
Industrial



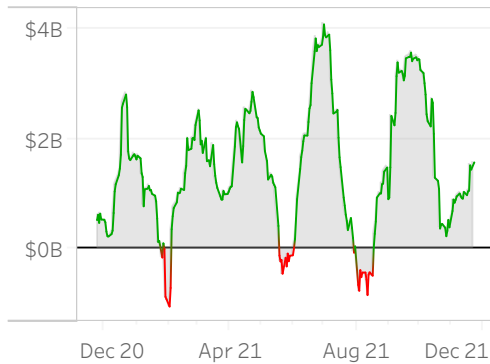
Health Care



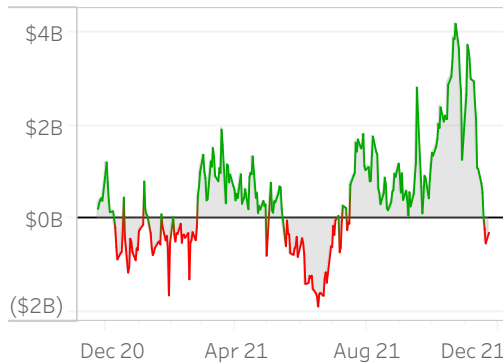
Materials



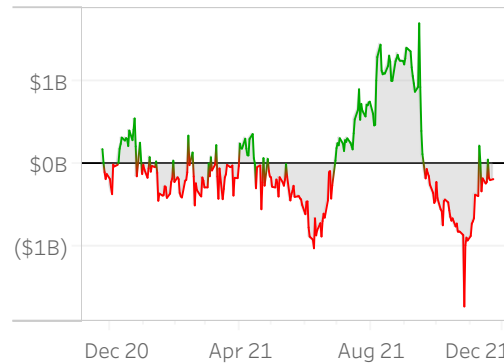
Real Estate



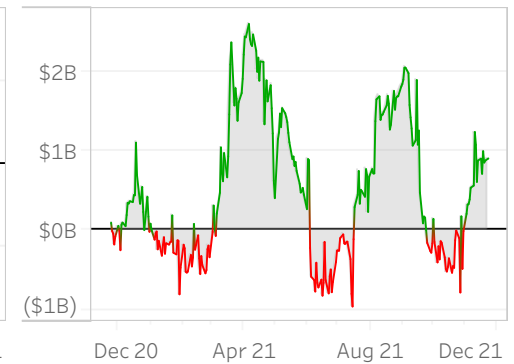
Technology



Utilities

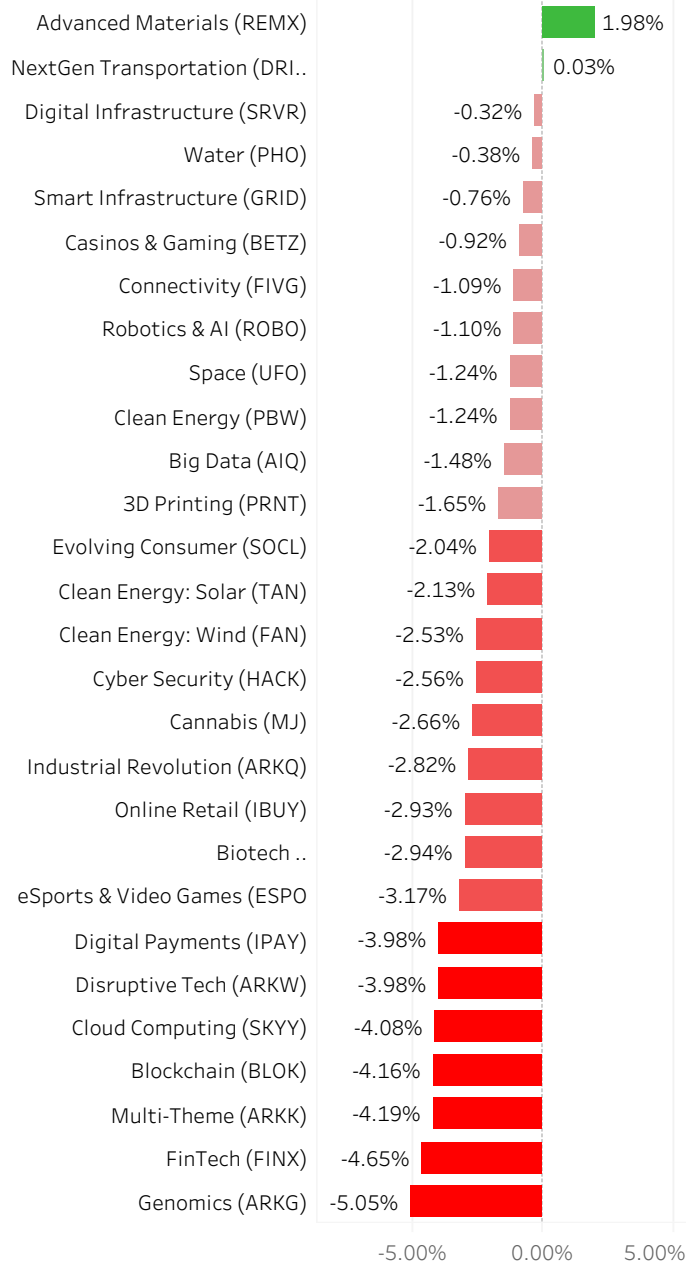


Multi-Sector

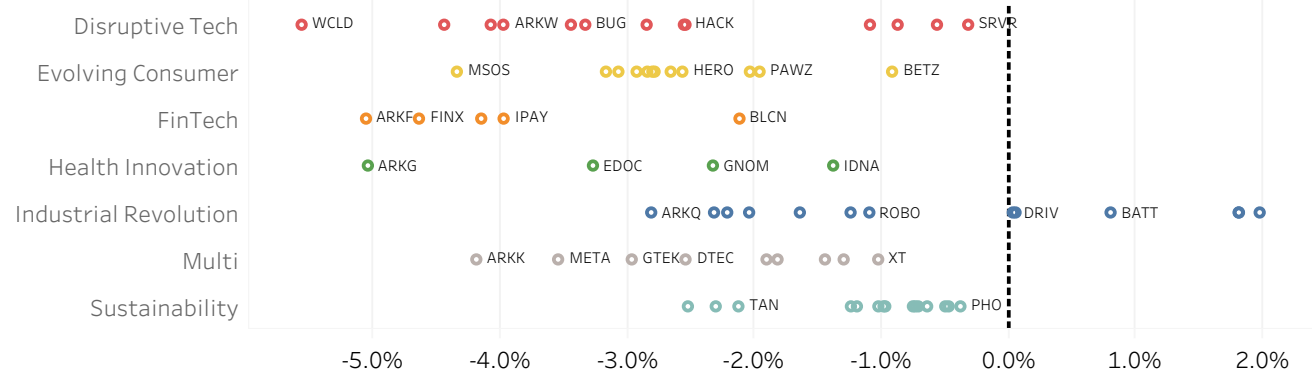


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	Performance
KSTR	KraneShares SSE STAR Market 50 Index ETF	2.71%
REMX	VanEck Rare Earth/Strategic Metals ETF	1.98%
KARS	KraneShares Electric Vehicles & Future Mobility Index ETF	1.81%
LIT	Global X Lithium & Battery Tech ETF	1.81%
KGRN	KraneShares MSCI China Clean Technology Index ETF	1.26%
BATT	Amplify Lithium & Battery Technology ETF	0.80%
EVX	VanEck Environmental Services ETF	0.27%
BJK	VanEck Gaming ETF	0.17%
GERM	ETFMG Treatments Testing and Advancements ETF	0.15%
IDRV	iShares Self-driving EV & Tech ETF	0.05%

Thematic Most Overbought

Ticker	Fund	Value
IDRV	iShares Self-driving EV & Tech ETF	73.47
KSTR	KraneShares SSE STAR Market 50 Index ETF	70.90
FIW	First Trust Water ETF	69.97
EVX	VanEck Environmental Services ETF	68.78
PHO	Invesco Water Resources ETF	68.57
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure ..	67.60
KARS	KraneShares Electric Vehicles & Future Mobility Index ETF	65.52
DRIV	Global X Autonomous & Electric Vehicles ETF	65.15
EBLU	Ecofin Global Water ESG Fund	63.65
FIVG	Defiance Next Gen Connectivity ETF	63.64

Global Thematic 1-Day Performance Laggards

Ticker	Fund	Performance
DAPP	VanEck Digital Transformation ETF	-6.00%
BKCH	Global X Blockchain ETF	-5.77%
WCLD	WisdomTree Cloud Computing Fund	-5.57%
BITQ	Bitwise Crypto Industry Innovators ETF	-5.25%
ARKF	ARK Fintech Innovation ETF	-5.06%
ARKG	ARK Genomic Revolution ETF	-5.05%
FINX	Global X FinTech ETF	-4.65%
MOON	Direxion Moonshot Innovators ETF	-4.45%
XITK	SPDR FactSet Innovative Technology ETF	-4.45%
MSOS	AdvisorShares Pure US Cannabis ETF	-4.35%

Thematic Most Oversold

Ticker	Fund	Value
IPAY	ETFMG Prime Mobile Payments ETF	22.12
BETZ	Roundhill Sports Betting & iGaming ETF	24.36
ARKG	ARK Genomic Revolution ETF	26.85
EDOC	Global X Telemedicine & Digital Health ETF	27.96
UFO	Procore Space ETF	28.50
BTEC	Principal Healthcare Innovators ETF	29.10
FINX	Global X FinTech ETF	30.13
BJK	VanEck Gaming ETF	30.88
ARKF	ARK Fintech Innovation ETF	30.90
IBUY	Amplify Online Retail ETF	31.51

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

Thematic 1 Week Flow Leaders

Ticker	Fund	Flow
KWEB	KraneShares CSI China Internet ETF	\$368M
META	Roundhill Ball Metaverse ETF	\$305M
LIT	Global X Lithium & Battery Tech ETF	\$98M
DRIV	Global X Autonomous & Electric Vehicles ETF	\$74M
CIBR	First Trust NASDAQ Cybersecurity ETF	\$64M
MSOS	AdvisorShares Pure US Cannabis ETF	\$60M
BLOK	Amplify Transformational Data Sharing ETF	\$33M
FIW	First Trust Water ETF	\$24M
BUG	Global X Cybersecurity ETF	\$20M
OCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	\$20M

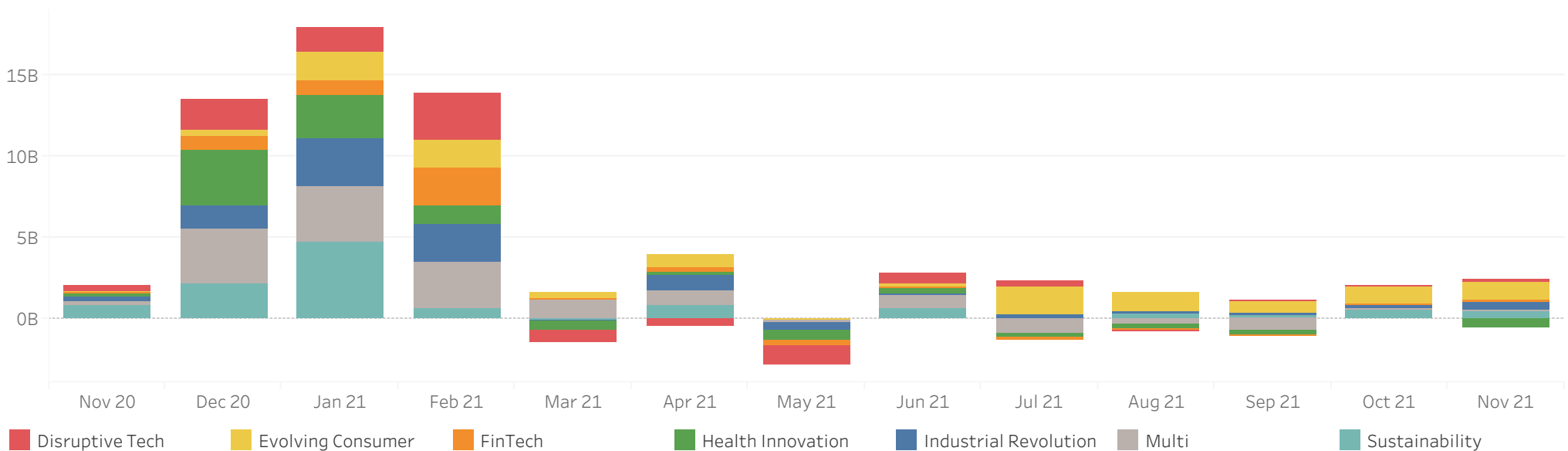
Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
ARKG	ARK Genomic Revolution ETF	(\$354M)
ARKK	ARK Innovation ETF	(\$87M)
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR ETF	(\$84M)
TAN	Invesco Solar ETF	(\$78M)
ONLN	ProShares Online Retail ETF	(\$53M)
ARKF	ARK Fintech Innovation ETF	(\$51M)
CLOU	Global X Cloud Computing ETF	(\$30M)
HACK	ETFMG Prime Cyber Security ETF	(\$23M)
ARKW	ARK Next Generation Internet ETF	(\$22M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$17M)

Thematic Landscape Assets & Flows

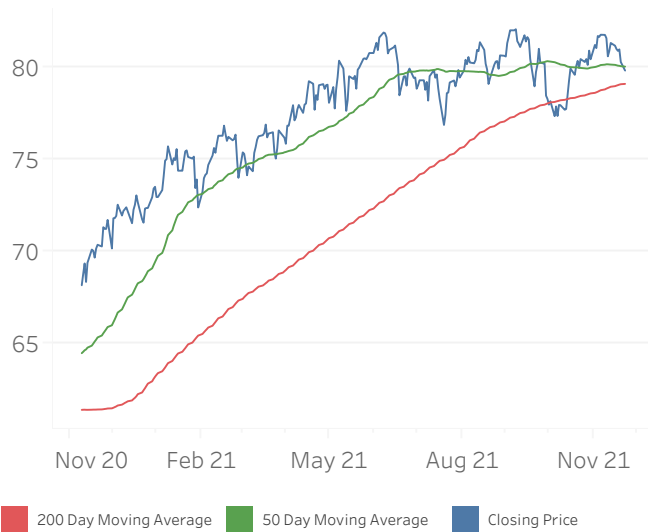
Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	36	\$31B	(\$105M)	\$415M	\$1,148M	\$5,517M
Evolving Consumer	43	\$19B	\$4M	\$3,608M	\$6,309M	\$11,066M
FinTech	16	\$8B	(\$8M)	\$89M	\$22M	\$4,368M
Health Innovation	16	\$8B	(\$311M)	(\$735M)	(\$929M)	\$5,511M
Industrial Revolution	24	\$19B	\$153M	\$830M	\$1,322M	\$8,434M
Multi	28	\$29B	\$97M	(\$52M)	(\$763M)	\$10,990M
Sustainability	36	\$26B	(\$19M)	\$1,310M	\$2,383M	\$11,435M
Grand Total	199	\$140B	(\$189M)	\$5,464M	\$9,492M	\$57,321M

Thematic Monthly Flows

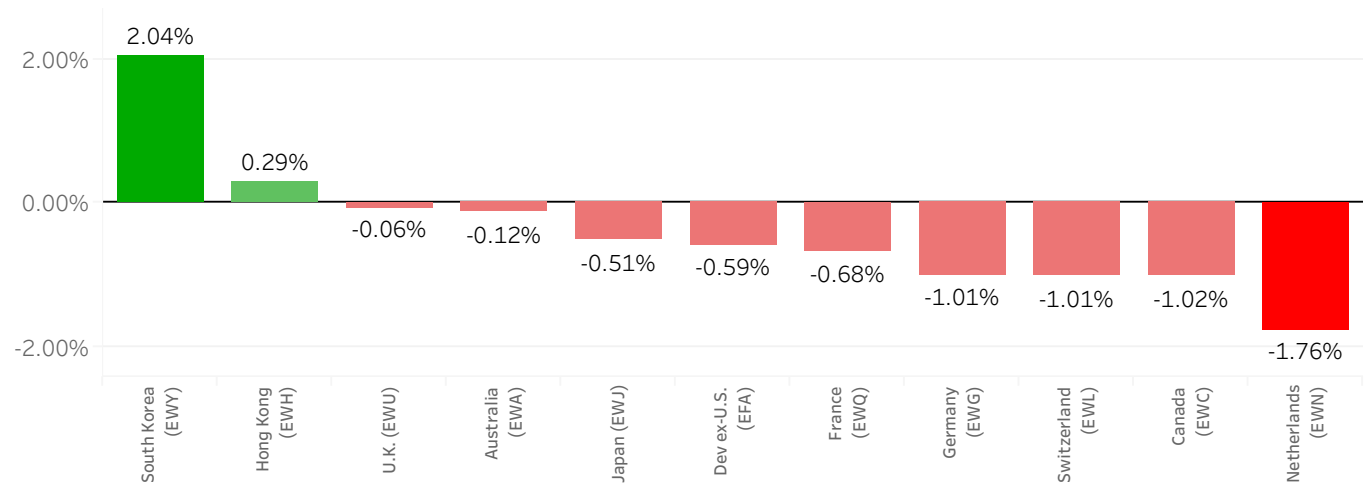


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Developed ex-U.S. (EFA)



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



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



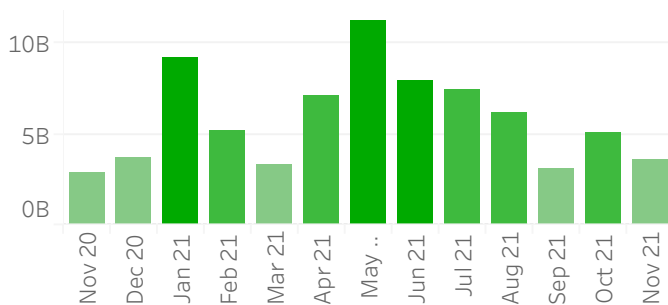
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
FEUZ	First Trust Eurozone AlphaDEX ETF	5.30%
FLKR	Franklin FTSE South Korea ETF	2.06%
EWY	iShares MSCI South Korea ETF	2.04%
EWO	iShares MSCI Austria ETF	0.65%
FDD	First Trust Stoxx European Select Dividend Index Fund	0.57%
DXJ	WisdomTree Japan Hedged Equity Fund	0.54%
LVHI	Legg Mason International Low Volatility High Dividend ETF	0.41%
IDV	iShares International Select Dividend ETF	0.39%
DFIV	Dimensional International Value ETF	0.39%
EUSC	WisdomTree Europe Hedged SmallCap Equity Fund	0.34%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
IHDG	WisdomTree International Hedged Quality Dividend Grow..	63.86
HEDJ	WisdomTree Europe Hedged Equity Fund	62.40
FEUZ	First Trust Eurozone AlphaDEX ETF	61.63
EIS	iShares MSCI Israel ETF	57.59
DBEF	Xtrackers MSCI EAFE Hedged Equity ETF	57.46
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	57.43
HEWJ	iShares Currency Hedged MSCI Japan ETF	57.01
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	57.00
HEWG	iShares Currency Hedged MSCI Germany ETF	56.88
HEFA	iShares Currency Hedged MSCI EAFE ETF	56.46

Developed ex-U.S. Monthly Flows



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

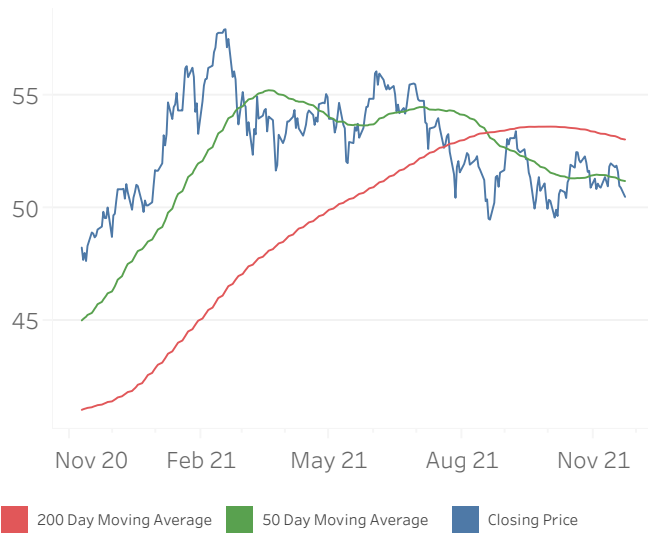
Ticker	Fund	1-Day Performance
GREK	Global X MSCI Greece ETF	-1.85%
EDEN	iShares MSCI Denmark ETF	-1.77%
EWN	iShares MSCI Netherlands ETF	-1.76%
ENZL	iShares MSCI New Zealand ETF	-1.58%
PIZ	Invesco DWA Developed Markets Momentum ETF	-1.56%
EFG	iShares MSCI EAFE Growth ETF	-1.27%
FEZ	SPDR EURO STOXX 50 ETF	-1.11%
ISRA	VanEck Israel ETF	-1.09%
FSZ	First Trust Switzerland AlphaDEX Fund	-1.06%
IQLT	iShares MSCI Intl Quality Factor ETF	-1.02%

Developed ex-U.S. Most Oversold

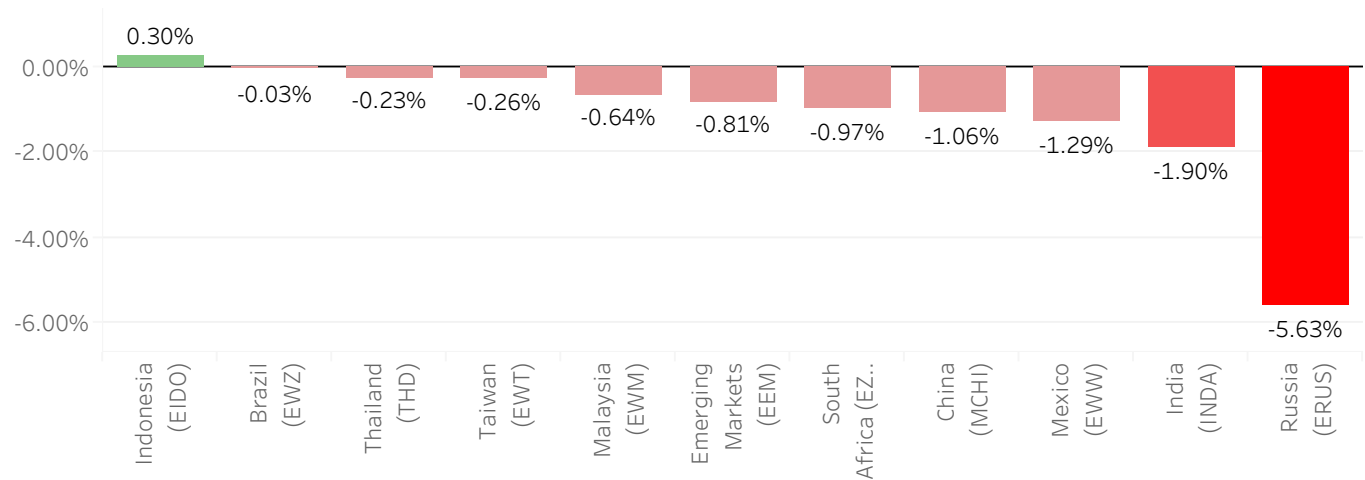
Ticker	Fund	Value
EIRL	iShares MSCI Ireland ETF	25.97
ENZL	iShares MSCI New Zealand ETF	28.34
EWSP	iShares MSCI Spain ETF	28.53
DLS	WisdomTree International SmallCap Dividend Fund	32.28
DFJ	WisdomTree Japan SmallCap Dividend Fund	33.63
DIM	WisdomTree International MidCap Dividend Fund	34.67
ENOR	iShares MSCI Norway ETF	35.70
IDV	iShares International Select Dividend ETF	35.77
EWA	iShares MSCI Australia ETF	35.83
DFE	WisdomTree Europe SmallCap Dividend Fund	35.85

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

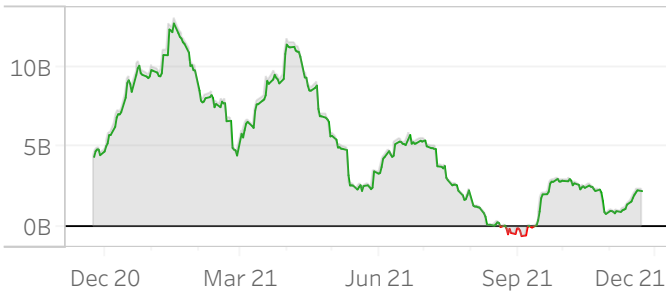
Emerging (EEM)



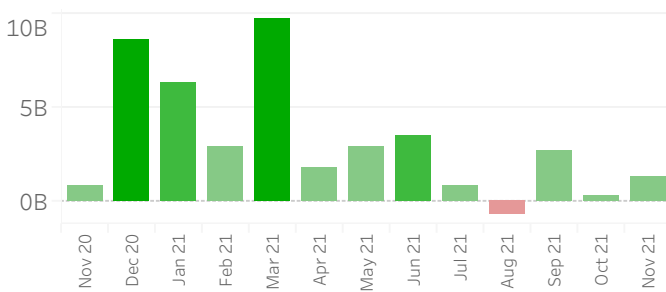
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
ECH	iShares MSCI Chile ETF	11.98%
FRDM	Freedom 100 Emerging Markets ETF	1.66%
CNYA	iShares MSCI China A ETF	0.81%
ILF	iShares Latin America 40 ETF	0.71%
KBA	KraneShares Boser MSCI China A Share ETF	0.62%
IDX	VanEck Indonesia Index ETF	0.34%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	0.34%
EIDO	iShares MSCI Indonesia ETF	0.30%
DGRE	WisdomTree Emerging Markets Quality Dividend Growth	0.07%
EWZ	iShares MSCI Brazil ETF	-0.03%

Emerging Most Overbought

Ticker	Fund	Value
ECH	iShares MSCI Chile ETF	65.34
EWT	iShares MSCI Taiwan ETF	64.91
CNYA	iShares MSCI China A ETF	55.94
KBA	KraneShares Boser MSCI China A Share ETF	55.29
IDX	VanEck Indonesia Index ETF	55.27
FRDM	Freedom 100 Emerging Markets ETF	54.18
EIDO	iShares MSCI Indonesia ETF	54.01
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	52.41
THD	iShares MSCI Thailand ETF	52.26
ECNS	iShares MSCI China Small-Cap ETF	51.52

Emerging 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
ERUS	iShares MSCI Russia ETF	-5.63%
RSX	VanEck Russia ETF	-5.21%
KSA	iShares MSCI Saudi Arabia ETF	-4.32%
EPU	iShares MSCI Peru ETF	-2.61%
NFTY	First Trust India NIFTY 50 Equal Weight ETF	-2.35%
SMIN	iShares MSCI India Small Cap ETF	-2.34%
GLIN	VanEck India Growth Leaders ETF	-2.30%
FNI	First Trust Chindia ETF	-2.02%
EPI	WisdomTree India Earnings Fund	-2.00%
INDY	iShares India 50 ETF	-1.95%

Emerging Most Oversold

Ticker	Fund	Value
EPOL	iShares MSCI Poland ETF	17.58
ERUS	iShares MSCI Russia ETF	22.34
RSX	VanEck Russia ETF	24.61
KSA	iShares MSCI Saudi Arabia ETF	27.99
EWW	iShares MSCI Mexico ETF	29.60
DVYE	iShares Emerging Markets Dividend ETF	29.86
EWM	iShares MSCI Malaysia ETF	30.27
SDEM	Global X MSCI SuperDividend Emerging Markets ETF	31.42
FNDE	Schwab Fundamental Emerging Markets Large Co. I.	32.82
GLIN	VanEck India Growth Leaders ETF	33.09

* 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	-0.48%	0.02%	-2.16%
SHY	1-3 Year Treasury Bonds	-0.12%	-0.17%	-0.64%
IEF	7-10 Year Treasury Bonds	-0.73%	0.12%	-4.31%
TLT	20+ Year Treasury Bonds	-1.17%	1.86%	-5.83%
TIP	TIPS Bonds	-0.81%	0.51%	4.96%
FLOT	Floating Rate Bonds	0.04%	-0.05%	0.42%
LQD	Investment Grade Corporate	-0.87%	-0.10%	-2.65%
HYG	High Yield Corporate	-0.38%	-0.38%	2.13%
BKLN	Senior Loan	-0.15%	-0.38%	1.55%
PFF	Preferred & Income Securities	-0.69%	-0.86%	4.18%
MUB	Municipal Bonds	-0.09%	0.68%	0.62%
MBB	MBS	-0.29%	-0.33%	-1.55%
EMB	Dollar Denominated EM Bonds	-1.03%	-0.80%	-3.58%
LEMB	Local Currency EM Bond	-0.54%	-2.97%	-9.83%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-0.03%	-2.21%	35.34%
DBE	Energy	1.16%	-6.46%	60.33%
USO	WTI Crude Oil	1.25%	-6.17%	64.95%
BNO	Brent Crude Oil	1.10%	-6.51%	63.82%
UNG	Natural Gas	-4.72%	-13.28%	73.26%
UGA	Gasoline	2.00%	-7.55%	65.61%
DBP	Precious Metals	-2.21%	0.25%	-7.25%
GLD	Gold	-2.24%	0.58%	-5.39%
SLV	Silver	-1.80%	-0.89%	-9.08%
PPLT	Platinum	-1.43%	-2.46%	-5.98%
PALL	Palladium	-5.22%	-3.67%	-20.81%
DBB	Base Metals	1.46%	-2.14%	24.57%
CPER	Copper	-0.15%	-2.91%	23.00%
LD	Lead	1.63%	-8.07%	14.48%
JJN	Nickel	2.16%	3.66%	21.55%
JJU	Aluminum	-0.33%	-6.59%	33.57%
JJT	Tin	1.04%	6.27%	120.81%
DBA	Agriculture	0.45%	6.22%	24.91%
CORN	Corn	0.94%	5.94%	38.58%
SOYB	Soybeans	0.68%	3.31%	13.76%
WEAT	Wheat	2.62%	11.23%	32.79%
CANE	Sugar	-1.45%	2.91%	41.33%
BAL	Cotton	-0.93%	9.78%	45.50%
NIB	Cocoa	0.03%	-2.07%	-4.65%
JO	Coffee	0.92%	15.29%	70.30%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	0.50%	3.03%	6.77%
UDN	Short Dollar	-0.50%	-3.18%	-7.76%
FXE	Euro	-0.45%	-3.60%	-8.86%
FXB	British Pound Sterling	-0.35%	-2.69%	-2.41%
FXF	Swiss Franc	-0.48%	-1.95%	-6.15%
FXJ	Japanese Yen	-0.75%	-1.26%	-10.56%
FXC	Canadian Dollar	-0.40%	-2.67%	-0.22%
FXA	Australian Dollar	-0.14%	-3.26%	-6.67%

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

Disclaimer of Warranties

Except for the express warranties set forth in the terms of service, all services, including all ETF Action materials, are provided on an “as is,” “where is” basis, and ETF Action and its licensors disclaim all representations or warranties, express or implied as to the services. ETF Action and its licensors specifically disclaim all implied warranties of merchantability, fitness for a particular purpose, title and non-infringement, and all warranties arising from course of dealing, usage or trade practice. Without limiting the foregoing, ETF Action and its licensors make no warranty of any kind that the services or ETF Action materials, or any products or results of the use thereof, will meet customer’s or any other person’s requirements, operate without interruption, achieve any intended result, be compatible or work with any software, system or other services, or be secure, accurate, complete, timely, free of harmful code or error free. All third-party materials are provided “as is” and any representation or warranty of or concerning any third-party materials is strictly between customer and the third-party owner or distributor of the third-party materials.

Additional Disclaimers

The services are not intended and should not be construed as financial or investment advice, a recommendation or promotion. Neither ETF Action nor its licensors shall be responsible for investment decisions, damages, or other losses *resulting from use of the services*. *Past performance* does not guarantee future performance. Neither ETF Action nor its licensors shall be considered an “expert” under the securities act of 1933. Neither ETF Action nor its licensors warrant that the services comply with the requirements of the NASD or any similar organization or with the securities laws of any jurisdiction. Any information contained in in the services should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional.

Distribution prohibited without prior permission. Full terms of service, including terms of use, copyrights, and disclaimers are available at <https://www.etfaction.com/terms>.

© Copyright ETF Action, Inc. All Rights Reserved.

Data Reliability and Definitions

ETF Action, LLC believes the information herein to be accurate (at time of publication) and was obtained from reliable sources, but makes no guarantees with respect to its accuracy. Calculations of fundamental data are based on weighted averages of reported results and consensus estimates of current ETF constituents. Valuation data (price/earnings, price/sales, price/cash flow, price/book value) are calculated using per share data divided by current NAV of corresponding ETF. Performance, risk and technical data (moving averages, relative performance, RSI) calculated for specified periods using ETF market price which may differ from net asset value (NAV). ETF Action Sector Beta Composites represent ETFs that meet stringent criteria surrounding index methodology, liquidity, assets under management, and management fee.

Source Data & ETF Issuer Information ..

ETF Action is an independent technology and research firm focused on helping advisors build better portfolios, create engaging experiences with their clients, and navigate the vast ETF landscape.

Contact us at:

team@etfaction.com

www.etfaction.com