

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

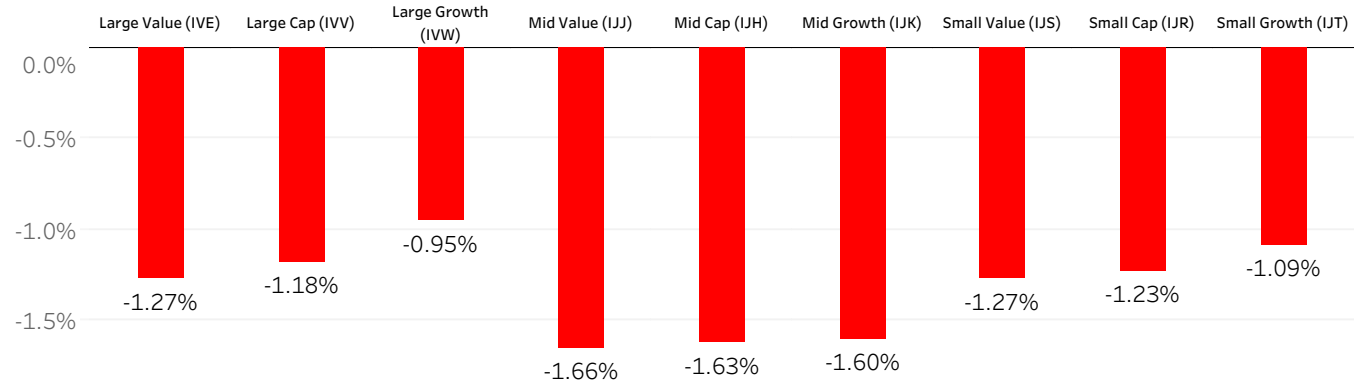


Small Cap Blend (S&P 600) IJR



■ 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
EQRR	ProShares Equities for Rising Rates ETF	0.89%
LSAT	Leadershars Alphafactor Tactical Focused ETF	0.20%
PTLC	Pacer Trendpilot US Large Cap ETF	0.01%
PTMC	Pacer Trendpilot US Mid Cap ETF	-0.02%
SPC	CrossingBridge Pre-Merger SPAC ETF	-0.10%
ONOF	Global X Adaptive U.S. Risk Management ETF	-0.15%
RPHS	Regents Park Hedged Market Strategy ETF	-0.23%
HKND	Humankind US Stock ETF	-0.23%
CFO	VictoryShares US 500 Enhanced Volatility Wtd ETF	-0.24%
QQH	HCM Defender 100 Index ETF	-0.25%

Size & Style Most Overbought

Ticker	Fund	Value
PTLC	Pacer Trendpilot US Large Cap ETF	63.68
LSAT	Leadershars Alphafactor Tactical Focused ETF	53.52
SPC	CrossingBridge Pre-Merger SPAC ETF	51.52
EQRR	ProShares Equities for Rising Rates ETF	48.40
ONOF	Global X Adaptive U.S. Risk Management ETF	47.65
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	44.07
SVAL	iShares US Small Cap Value Factor ETF	43.56
REGL	ProShares S&P MidCap 400 Dividend Aristocrats ETF	42.75
SMDV	ProShares Russell 2000 Dividend Growers ETF	42.68
CGGR	Capital Group Growth ETF	42.55

Size & Style 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
BUZZ	VanEck Social Sentiment ETF	-2.47%
CLRG	IQ Chaikin U.S. Large Cap ETF	-2.32%
NUMV	Nuveen ESG Mid-Cap Value ETF	-2.22%
RWK	Invesco S&P MidCap 400 Revenue ETF	-2.10%
VLUE	iShares MSCI USA Value Factor ETF	-2.02%
QQQJ	Invesco NASDAQ Next Gen 100 ETF	-2.01%
SCHM	Schwab U.S. Mid-Cap ETF	-1.94%
SPHB	Invesco S&P 500 High Beta ETF	-1.93%
ALTL	Pacer Lunt Large Cap Alternator ETF	-1.90%
SPVU	Invesco S&P 500 Enhanced Value ETF	-1.88%

Size & Style Most Oversold

Ticker	Fund	Value
QVMS	Invesco S&P SmallCap 600 QVM Multi-factor ETF	12.82
GUSA	Goldman Sachs MarketBeta U.S. 1000 Equity ETF	17.34
USNZ	Xtrackers Net Zero Pathway Paris Aligned US Equity..	19.64
PTMC	Pacer Trendpilot US Mid Cap ETF	20.05
LFEQ	VanEck Long/Flat Trend ETF	23.89
DJD	Invesco Dow Jones Industrial Average Dividend ETF	30.37
QVML	Invesco S&P 500 QVM Multi-factor ETF	31.36
SIXS	ETC 6 Meridian Small Cap Equity ETF	32.56
VALQ	American Century STOXX U.S. Quality Value ETF	33.26
DEIF	Sterling Capital Diverse Multi-Manager Active ETF	33.41

*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	\$1,191B	\$8.82B	\$13.94B	\$24.43B	\$103.29B
Large Cap, Beta Growth, Beta: Growth	10	\$220B	(\$0.63B)	\$5.84B	\$11.53B	\$14.98B
Large Cap, Beta Growth, Beta: Value	11	\$212B	\$0.04B	\$0.07B	\$4.48B	\$25.70B
Mid Cap, Beta, Beta	10	\$173B	(\$1.75B)	\$1.41B	\$4.65B	\$12.90B
Mid Cap, Beta, Beta: Growth	6	\$32B	(\$0.59B)	\$0.75B	\$0.80B	\$1.17B
Mid Cap, Beta, Beta: Value	6	\$39B	(\$0.48B)	\$0.31B	(\$0.06B)	\$1.44B
Small Cap, Beta, Beta	13	\$185B	(\$1.53B)	(\$2.36B)	(\$6.20B)	\$9.26B
Small Cap, Beta, Beta: Growth	7	\$31B	(\$0.45B)	(\$0.17B)	\$0.11B	\$1.17B
Small Cap, Beta, Beta: Value	7	\$48B	(\$1.00B)	(\$1.80B)	(\$3.49B)	(\$2.29B)

U.S. Size & Style Flow Leaders

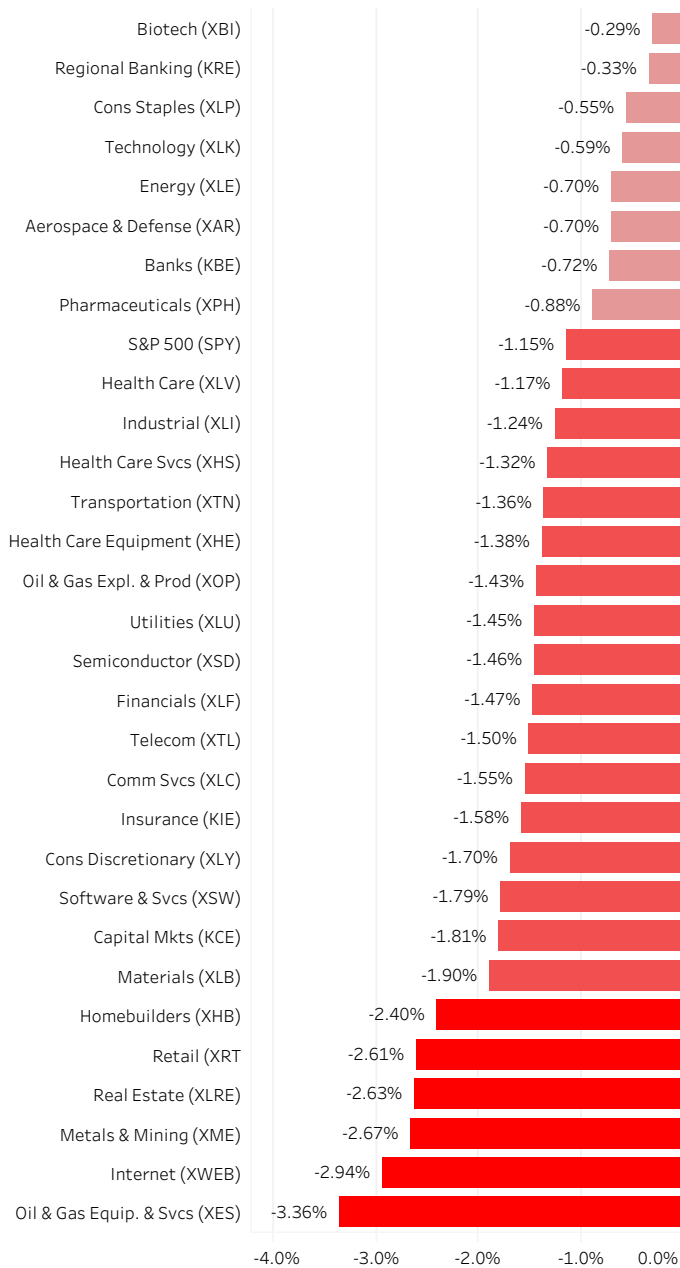
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	\$5.95B	(\$6.21B)	(\$5.27B)	\$2.88B	\$352.93B
QQQ	Invesco QQQ Trust	\$2.07B	\$2.27B	\$6.30B	\$14.45B	\$160.76B
VOO	Vanguard S&P 500 ETF	\$0.74B	\$10.81B	\$12.53B	\$43.49B	\$262.55B
IWD	iShares Russell 1000 Value ETF	\$0.31B	(\$0.78B)	(\$0.74B)	\$1.21B	\$51.58B
IWF	iShares Russell 1000 Growth ETF	\$0.20B	\$0.13B	\$0.63B	\$0.15B	\$59.99B
DVY	iShares Select Dividend ETF	\$0.17B	(\$0.02B)	\$1.45B	\$3.33B	\$21.55B
HDV	iShares Core High Dividend ETF	\$0.13B	(\$0.30B)	\$4.21B	\$5.08B	\$12.37B
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.12B	(\$0.04B)	(\$0.81B)	\$1.88B	\$27.18B
VYM	Vanguard High Dividend Yield Index ETF	\$0.12B	\$2.70B	\$5.14B	\$8.92B	\$45.88B
SCHD	Schwab US Dividend Equity ETF	\$0.11B	\$3.38B	\$6.78B	\$11.91B	\$37.37B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VTI	Vanguard Total Stock Market ETF	(\$2.62B)	\$5.70B	\$9.66B	\$32.42B	\$260.03B
VO	Vanguard Mid-Cap ETF	(\$1.91B)	\$0.10B	\$1.73B	\$5.56B	\$50.15B
VB	Vanguard Small-Cap ETF	(\$1.52B)	(\$0.87B)	(\$1.42B)	\$1.60B	\$41.61B
VBR	Vanguard Small Cap Value ETF	(\$1.05B)	(\$0.52B)	(\$1.27B)	\$0.43B	\$23.22B
VUG	Vanguard Growth ETF	(\$0.74B)	\$2.75B	\$5.74B	\$7.04B	\$72.92B
VOT	Vanguard Mid-Cap Growth ETF	(\$0.59B)	\$0.09B	\$0.14B	\$0.79B	\$9.76B
VOE	Vanguard Mid-Cap Value ETF	(\$0.55B)	(\$0.35B)	\$0.42B	\$1.98B	\$15.76B
VBK	Vanguard Small-Cap Growth ETF	(\$0.46B)	(\$0.25B)	(\$0.05B)	\$0.37B	\$12.52B
VTV	Vanguard Value ETF	(\$0.38B)	\$1.52B	\$5.08B	\$18.06B	\$98.24B
IWM	iShares Russell 2000 ETF	(\$0.15B)	(\$4.09B)	(\$4.77B)	(\$0.17B)	\$51.76B

* 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	-5.44%	15.62%	-0.58%	3.08%	42.44
XLP	Consumer Staples Select Sector SPDR Fund	-11.94%	3.12%	-4.12%	-5.21%	34.10
XLV	Health Care Select Sector SPDR Fund	-12.64%	4.08%	-3.73%	-5.18%	39.32
XLE	Energy Select Sector SPDR Fund	-16.45%	45.44%	0.11%	4.37%	44.14
XLI	Industrial Select Sector SPDR Fund	-17.04%	3.94%	-5.32%	-8.25%	33.69
SPY	SPDR S&P 500 ETF Trust	-19.60%	4.98%	-4.84%	-9.07%	37.23
XLB	Materials Select Sector SPDR Fund	-20.22%	1.92%	-5.52%	-12.19%	36.24
XLF	Financial Select Sector SPDR Fund	-20.88%	6.60%	-2.33%	-8.81%	41.46
XLRE	Real Estate Select Sector SPDR Fund	-25.00%	0.03%	-9.14%	-13.86%	27.51
XLY	Consumer Discretionary Select Sector SPDR Fund	-25.68%	16.71%	-1.63%	-6.79%	45.34
XLK	Technology Select Sector SPDR Fund	-27.16%	4.20%	-7.68%	-12.32%	34.88
XLC	Communication Services Select Sector SPDR Fund	-37.26%	0.00%	-7.74%	-18.69%	34.19

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
QABA	First Trust NASDAQ ABA Community Bank Index F..	0.06%
AMPL	Alerian MLP ETF	-0.03%
MLPA	Global X MLP ETF	-0.07%
KBWR	Invesco KBW Regional Banking ETF	-0.12%
ITA	iShares U.S. Aerospace & Defense ETF	-0.13%
FTXN	First Trust Nasdaq Oil & Gas ETF	-0.27%
XBI	SPDR S&P BIOTECH ETF	-0.29%
AMZA	InfraCap MLP ETF	-0.31%
KRE	SPDR S&P Regional Banking ETF	-0.33%
IYK	iShares U.S. Consumer Staples ETF	-0.46%

Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
QABA	First Trust NASDAQ ABA Community Bank Index Fund	55.21
KBWR	Invesco KBW Regional Banking ETF	53.53
AMPL	Alerian MLP ETF	50.67
MLPA	Global X MLP ETF	50.33
KRE	SPDR S&P Regional Banking ETF	50.04
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	49.07
FTXO	First Trust Nasdaq Bank ETF	48.96
KBE	SPDR S&P Bank ETF	48.11
AMZA	InfraCap MLP ETF	48.00
IAT	iShares U.S. Regional Banks ETF	47.33

Sector & Industry 1 Day Performance Laggards

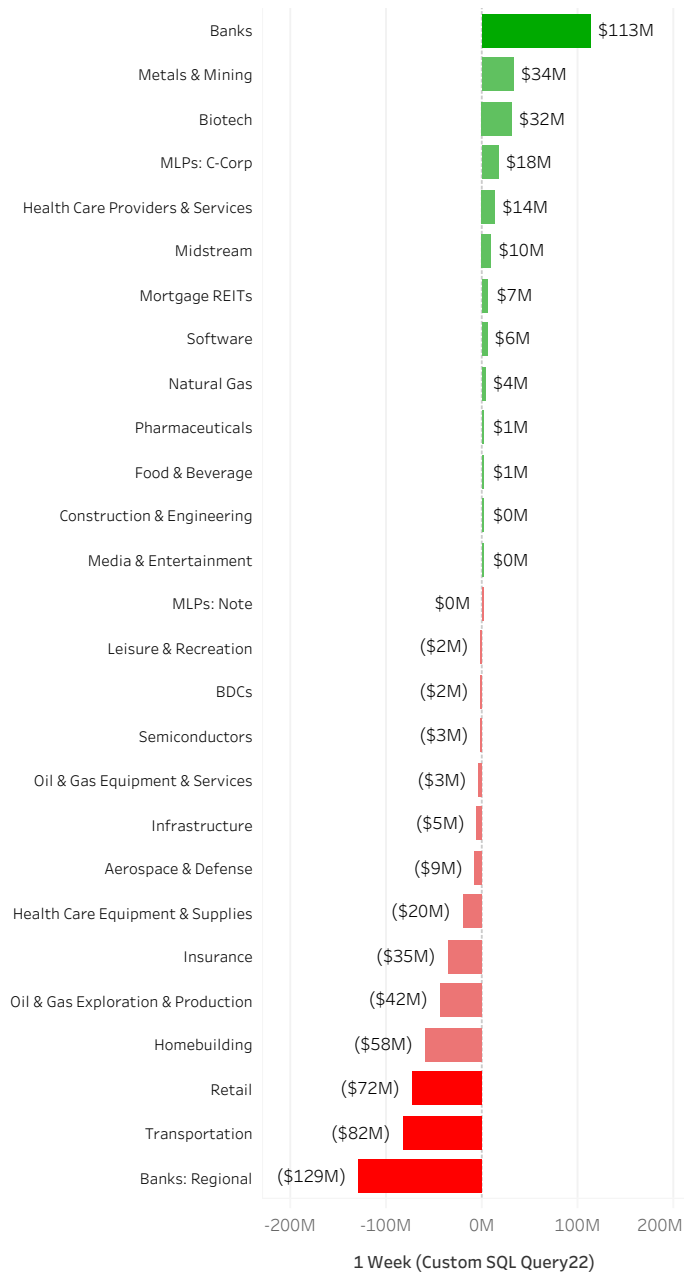
Ticker	Fund	1 Day Performance
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-3.36%
FTXR	First Trust Nasdaq Transportation ETF	-3.11%
EWRE	Invesco S&P 500 Equal Weight Real Estate ETF	-2.75%
XME	SPDR S&P Metals & Mining ETF	-2.67%
XLRE	Real Estate Select Sector SPDR Fund	-2.63%
XRT	SPDR S&P Retail ETF	-2.61%
IEZ	iShares U.S. Oil Equipment & Services ETF	-2.54%
PYZ	Invesco DWA Basic Materials Momentum ETF	-2.48%
REZ	iShares Residential and Multisector Real Estate ETF	-2.46%
FREL	Fidelity MSCI Real Estate Index ETF	-2.44%

Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
XLRE	Real Estate Select Sector SPDR Fund	27.51
RWR	SPDR Dow Jones REIT ETF	27.75
JPRE	JPMorgan Realty Income ETF	27.80
REZ	iShares Residential and Multisector Real Estate ETF	27.88
FREL	Fidelity MSCI Real Estate Index ETF	27.92
IYZ	iShares U.S. Telecommunications ETF	28.00
BBRE	JPMorgan BetaBuilders MSCI U.S. REIT ETF	28.21
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	28.35
EWRE	Invesco S&P 500 Equal Weight Real Estate ETF	28.61
ICF	iShares Cohen & Steers REIT ETF	28.83

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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	8	\$12B	(\$100M)	(\$200M)	(\$842M)	(\$1,972M)
Consumer Discretionary	13	\$24B	\$286M	(\$50M)	(\$2,149M)	(\$4,236M)
Consumer Staples	11	\$28B	(\$679M)	\$1,370M	\$3,645M	\$6,803M
Energy	34	\$73B	(\$109M)	(\$3,247M)	(\$5,689M)	\$1,293M
Financials	27	\$58B	(\$1,893M)	(\$1,251M)	(\$14,910M)	(\$7,416M)
Health Care	24	\$89B	\$240M	\$1,891M	\$5,865M	\$10,962M
Industrial	14	\$27B	\$214M	(\$892M)	(\$2,745M)	(\$3,201M)
Materials	10	\$13B	\$2M	(\$2,267M)	(\$2,532M)	(\$1,316M)
Multi-Sector	19	\$14B	\$271M	(\$1,298M)	(\$2,478M)	(\$4,408M)
Real Estate	25	\$64B	\$265M	(\$1,558M)	(\$2,869M)	(\$982M)
Technology	24	\$107B	(\$552M)	(\$919M)	\$339M	\$846M
Utilities	10	\$29B	\$259M	\$1,887M	\$4,964M	\$5,777M

U.S. Sector & Industry Flow Leaders

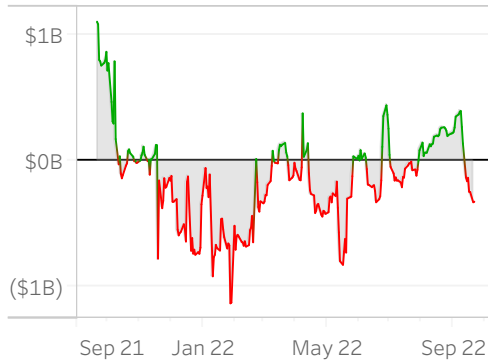
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLV	Consumer Discretionary Select Sector SPDR Fu..	\$359M	\$268M	\$156M	(\$581M)	\$16,621M
FDN	First Trust Dow Jones Internet Index Fund	\$337M	\$44M	(\$1,000M)	(\$2,327M)	\$4,393M
XLI	Industrial Select Sector SPDR Fund	\$316M	(\$631M)	(\$1,499M)	(\$3,059M)	\$12,587M
IYR	iShares U.S. Real Estate ETF	\$277M	(\$557M)	(\$682M)	(\$2,993M)	\$4,026M
XLU	Utilities Select Sector SPDR Fund	\$226M	\$1,190M	\$3,469M	\$3,622M	\$18,096M
IBB	iShares Biotechnology ETF	\$177M	\$320M	(\$88M)	\$140M	\$8,013M
XLV	Health Care Select Sector SPDR Fund	\$159M	\$659M	\$4,392M	\$7,287M	\$37,975M
KBWB	Invesco KBW Bank ETF	\$128M	\$152M	(\$277M)	(\$122M)	\$2,122M
RWR	SPDR Dow Jones REIT ETF	\$100M	(\$61M)	(\$28M)	\$216M	\$1,714M
VOX	Vanguard Communication Services ETF	\$98M	\$88M	(\$153M)	(\$245M)	\$2,719M

U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	(\$1,798M)	(\$774M)	(\$8,964M)	(\$3,899M)	\$30,289M
XLP	Consumer Staples Select Sector SPDR Fund	(\$682M)	\$573M	\$1,020M	\$3,115M	\$15,673M
VGT	Vanguard Information Technology ETF	(\$503M)	(\$133M)	\$1,353M	\$1,036M	\$41,303M
XLC	Communication Services Select Sector SPDR Fu..	(\$176M)	(\$246M)	(\$543M)	(\$1,633M)	\$8,632M
XLRE	Real Estate Select Sector SPDR Fund	(\$166M)	\$87M	\$488M	\$1,559M	\$5,040M
XBI	SPDR S&P BIOTECH ETF	(\$145M)	\$60M	\$556M	\$2,568M	\$7,192M
KRE	SPDR S&P Regional Banking ETF	(\$126M)	(\$2M)	(\$1,923M)	(\$1,140M)	\$3,196M
XLE	Energy Select Sector SPDR Fund	(\$118M)	(\$1,448M)	(\$2,619M)	(\$1,174M)	\$35,612M
IYW	iShares U.S. Technology ETF	(\$84M)	(\$78M)	(\$498M)	(\$501M)	\$6,291M
IYT	iShares US Transportation ETF	(\$80M)	(\$26M)	(\$579M)	(\$563M)	\$801M

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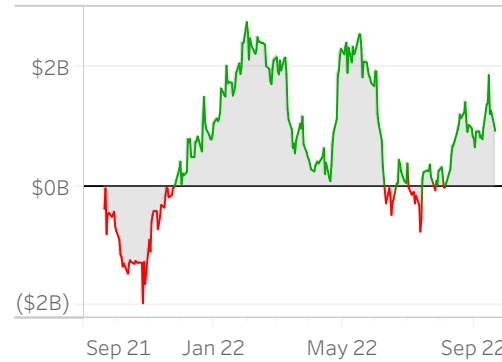
Communication Services



Consumer Discretionary



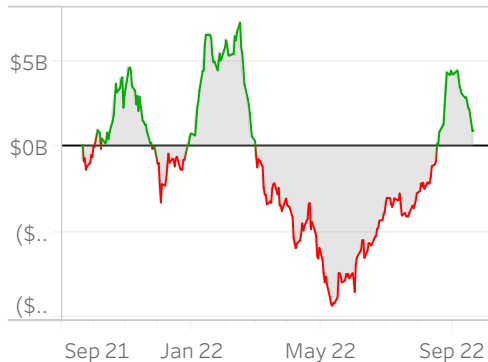
Consumer Staples



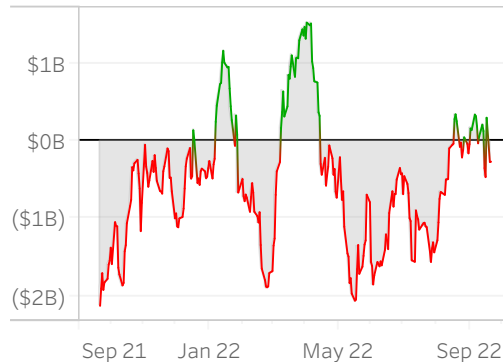
Energy



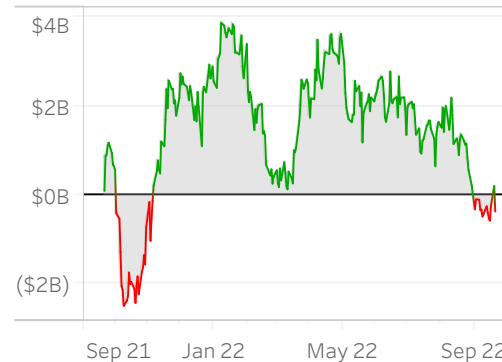
Financials



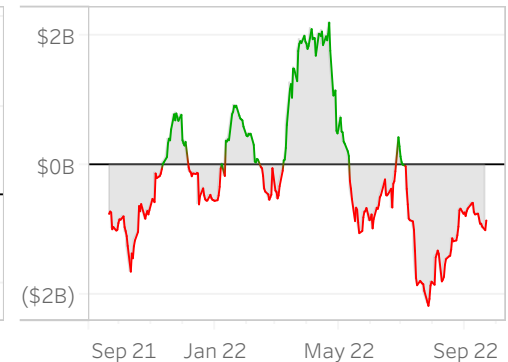
Industrial



Health Care



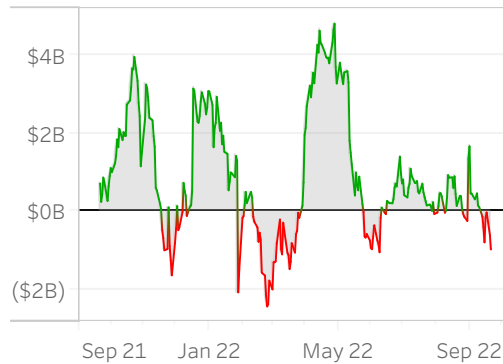
Materials



Real Estate



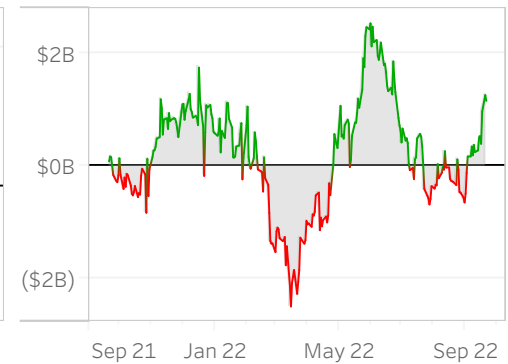
Technology



Utilities

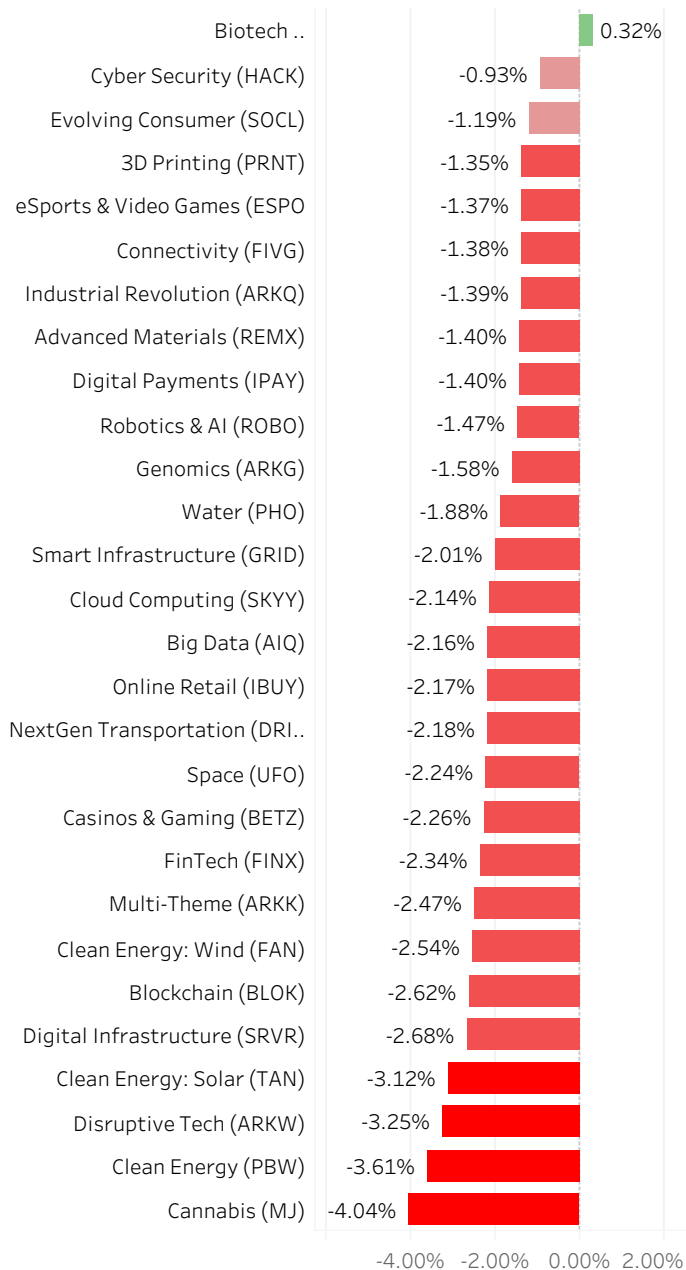


Multi-Sector

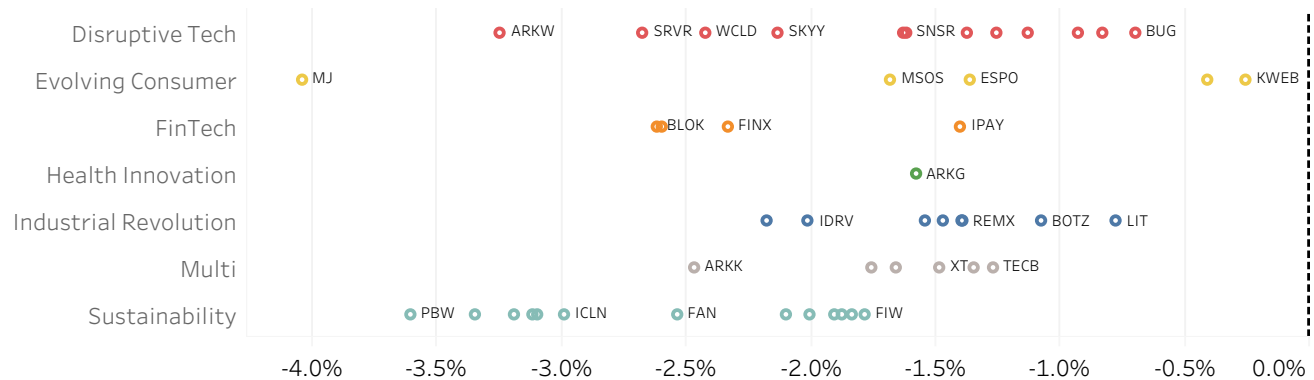


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Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
SBIO	ALPS Medical Breakthroughs ETF	0.32%
BJK	VanEck Gaming ETF	-0.06%
KWEB	KraneShares CSI China Internet ETF	-0.26%
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	-0.41%
KGRN	KraneShares MSCI China Clean Technology Index ETF	-0.46%
GNOM	Global X Genomics & Biotechnology ETF	-0.67%
BTEC	Principal Healthcare Innovators ETF	-0.69%
EDOC	Global X Telemedicine & Digital Health ETF Registered	-0.70%
BUG	Global X Cybersecurity ETF	-0.70%
AWAY	ETFMG Travel Tech ETF	-0.78%

Thematic Most Overbought

Ticker	Fund	Price
BJK	VanEck Gaming ETF	48.45
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	47.92
ACES	ALPS Clean Energy ETF	47.90
AWAY	ETFMG Travel Tech ETF	46.48
REMX	VanEck Rare Earth/Strategic Metals ETF	45.57
LIT	Global X Lithium & Battery Tech ETF	45.32
SBIO	ALPS Medical Breakthroughs ETF	44.43
CLOU	Global X Cloud Computing ETF	44.34
CNRG	SPDR S&P Kensho Clean Power ETF	44.24
BTEC	Principal Healthcare Innovators ETF	43.59

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
MJ	ETFMG Alternative Harvest ETF	-4.04%
BKCH	Global X Blockchain ETF	-3.81%
PBW	Invesco WilderHill Clean Energy ETF	-3.61%
ACES	ALPS Clean Energy ETF	-3.35%
ARKW	ARK Next Generation Internet ETF	-3.25%
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	-3.19%
MJUS	ETFMG U.S. Alternative Harvest ETF	-3.13%
TAN	Invesco Solar ETF	-3.12%
CNRG	SPDR S&P Kensho Clean Power ETF	-3.10%
ICLN	iShares Global Clean Energy ETF	-2.99%

Thematic Most Oversold

Ticker	Fund	Price
PAWZ	ProShares Pet Care ETF	26.87
HERO	Global X Video Games & Esports ETF	28.77
YOLO	AdvisorShares Pure Cannabis ETF	29.28
VPN	Global X Data Center REITs & Digital Infrastructure ETF	29.51
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR..	30.13
ESPO	VanEck Video Gaming and eSports ETF	30.58
NXTG	First Trust Indxx NextG ETF	30.88
GAMR	Wedbush ETFMG Video Game Tech ETF	30.90
KGRN	KraneShares MSCI China Clean Technology Index ETF	31.10
PIO	Invesco Global Water ETF	31.65

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Thematic 1 Week Flow Leaders

Ticker	Fund	
PBW	Invesco WilderHill Clean Energy ETF	\$93M
TAN	Invesco Solar ETF	\$34M
ICLN	iShares Global Clean Energy ETF	\$13M
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	\$7M
MJUS	ETFMG U.S. Alternative Harvest ETF	\$6M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$4M
CNRG	SPDR S&P Kensho Clean Power ETF	\$4M
TARK	AXS 2X Innovation ETF	\$4M
ACES	ALPS Clean Energy ETF	\$3M
SAMT	Strategas Macro Thematic Opportunities ETF	\$3M

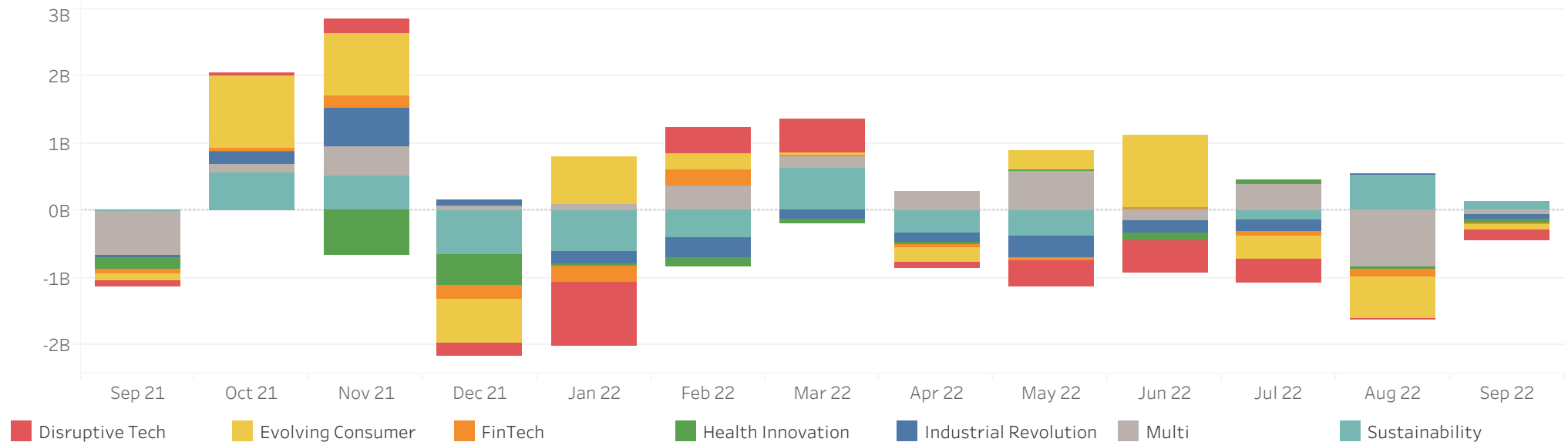
Thematic 1 Week Flow Laggards

Ticker	Fund	
ARKK	ARK Innovation ETF	(\$270M)
KWEB	KraneShares CSI China Internet ETF	(\$63M)
ARKG	ARK Genomic Revolution ETF	(\$31M)
SKYY	First Trust Cloud Computing ETF	(\$17M)
CIBR	First Trust NASDAQ Cybersecurity ETF	(\$17M)
ARKW	ARK Next Generation Internet ETF	(\$13M)
CLOU	Global X Cloud Computing ETF	(\$12M)
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	(\$11M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$5M)
WCLD	WisdomTree Cloud Computing Fund	(\$5M)

Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	35	\$18B	(\$63M)	(\$544M)	(\$1,295M)	(\$1,529M)
Evolving Consumer	47	\$10B	(\$63M)	(\$619M)	\$342M	\$2,319M
FinTech	24	\$3B	(\$5M)	(\$195M)	(\$244M)	(\$345M)
Health Innovation	19	\$4B	(\$36M)	(\$124M)	(\$150M)	(\$1,684M)
Industrial Revolution	32	\$12B	(\$15M)	(\$280M)	(\$868M)	(\$677M)
Multi	41	\$15B	(\$116M)	(\$473M)	(\$414M)	\$854M
Sustainability	42	\$20B	\$102M	\$676M	(\$342M)	(\$137M)
Grand Total	240	\$81B	(\$196M)	(\$1,561M)	(\$2,971M)	(\$1,199M)

Thematic Monthly Flows

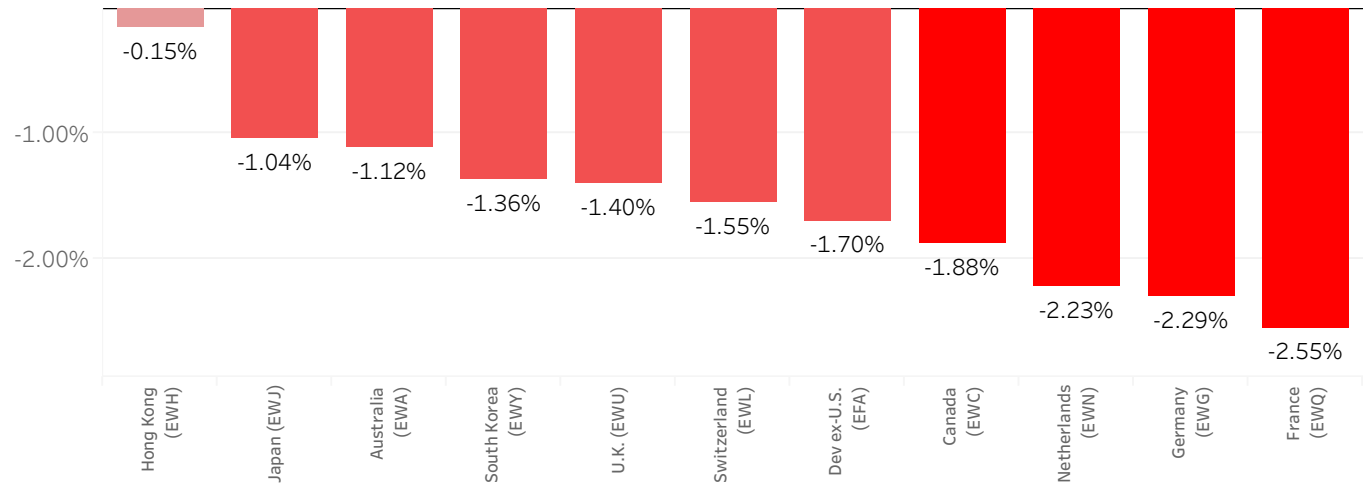


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

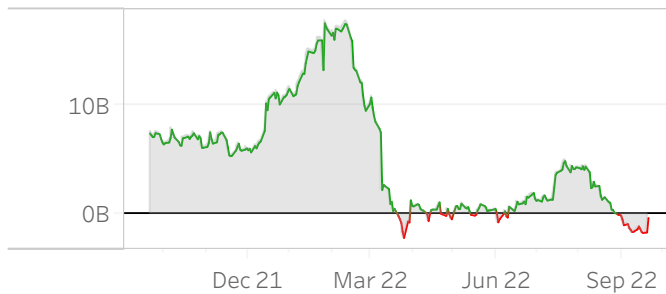
Developed ex-U.S. (EFA)



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



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



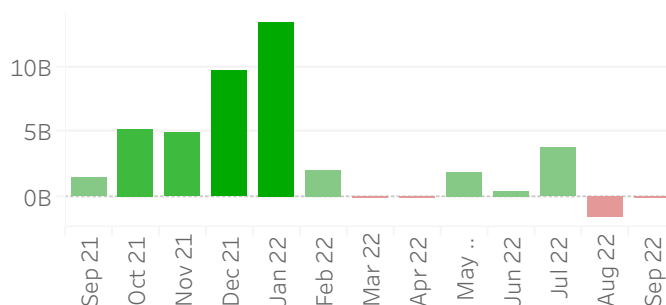
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
PTIN	Pacer Trendpilot International ETF	0.20%
EWH	iShares MSCI Hong Kong ETF	-0.15%
DXJ	WisdomTree Japan Hedged Equity Fund	-0.36%
DFJ	WisdomTree Japan SmallCap Dividend Fund	-0.43%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	-0.57%
BBAX	JPMorgan BetaBuilders Developed Asia Pacific-ex Japan ETF	-0.63%
AAXJ	iShares MSCI All Country Asia ex Japan ETF	-0.67%
SCJ	iShares MSCI Japan Small-Cap ETF	-0.71%
HEWJ	iShares Currency Hedged MSCI Japan ETF	-0.73%
AIA	iShares Asia 50 ETF	-0.76%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
PTIN	Pacer Trendpilot International ETF	60.32
DXJ	WisdomTree Japan Hedged Equity Fund	46.09
GREK	Global X MSCI Greece ETF	44.23
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	44.18
HEWJ	iShares Currency Hedged MSCI Japan ETF	44.12
EWI	iShares MSCI Italy ETF	43.99
EWP	iShares MSCI Spain ETF	42.80
EWS	iShares MSCI Singapore ETF	42.73
FLCA	Franklin FTSE Canada ETF	41.46
EWC	iShares MSCI Canada ETF	41.32

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
IEUS	iShares MSCI Europe Small-Cap ETF	-3.40%
EWQ	iShares MSCI Austria ETF	-3.11%
DFE	WisdomTree Europe SmallCap Dividend Fund	-2.89%
EWI	iShares MSCI Italy ETF	-2.85%
FEP	First Trust Europe AlphaDEX Fund	-2.82%
EWD	iShares MSCI Sweden ETF	-2.63%
EWQ	iShares MSCI France ETF	-2.55%
EZU	iShares MSCI Eurozone ETF	-2.44%
EWP	iShares MSCI Spain ETF	-2.33%
EWG	iShares MSCI Germany ETF	-2.29%

Developed ex-U.S. Most Oversold

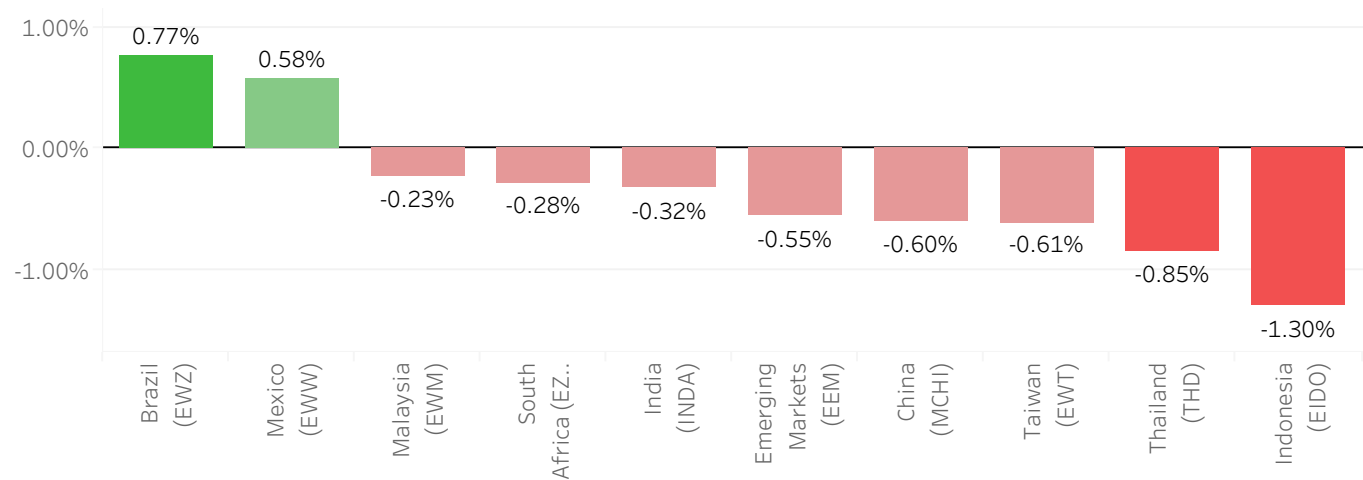
Ticker	Fund	Value
IMFL	Invesco International Developed Dynamic Multifact..	23.81
QLVD	FlexShares Developed Markets ex-US Quality Low V..	27.38
IDHQ	Invesco S&P International Developed High Quality E..	29.19
IDLV	Invesco S&P International Developed Low Volatility ..	29.39
EDEN	iShares MSCI Denmark ETF	29.91
NORW	Global X MSCI Norway ETF	30.15
EFAX	iShares MSCI EAFE Min Vol Factor ETF	30.71
DEEF	Xtrackers FTSE Developed ex US Multifactor ETF	30.74
PBDM	Invesco PureBeta FTSE Developed ex-North America ..	31.17
RODM	Hartford Multifactor Developed Markets (ex-US) ETF	31.26

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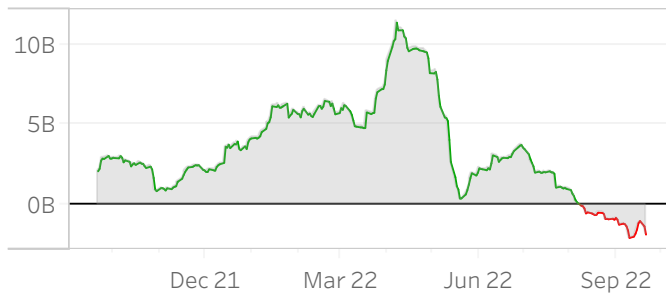
Emerging (EEM)



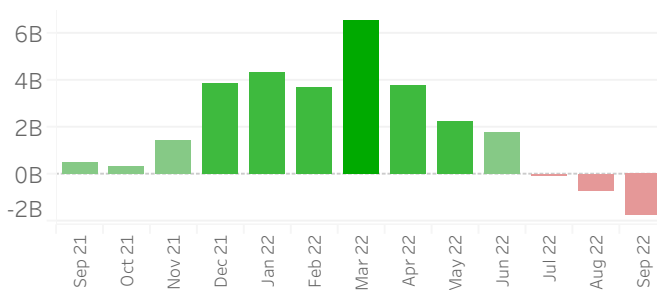
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
TUR	iShares MSCI Turkey ETF	1.97%
FLBR	Franklin FTSE Brazil ETF	0.84%
EWZ	iShares MSCI Brazil ETF	0.77%
ILF	iShares Latin America 40 ETF	0.72%
EWW	iShares MSCI Mexico ETF	0.58%
FLLA	Franklin FTSE Latin America ETF	0.30%
DGRE	WisdomTree Emerging Markets Quality Dividend Growth	0.15%
EWZS	iShares MSCI Brazil Small-Cap ETF	0.00%
EDIV	SPDR S&P Emerging Markets Dividend ETF	-0.04%
BKF	iShares MSCI BIC ETF	-0.12%

Emerging Most Overbought

Ticker	Fund	Value
ILF	iShares Latin America 40 ETF	55.81
FLBR	Franklin FTSE Brazil ETF	55.66
EWZ	iShares MSCI Brazil ETF	55.48
SMIN	iShares MSCI India Small Cap ETF	55.24
EIDO	iShares MSCI Indonesia ETF	54.35
EWW	iShares MSCI Mexico ETF	53.70
EWZS	iShares MSCI Brazil Small-Cap ETF	53.36
FLLA	Franklin FTSE Latin America ETF	53.34
INDY	iShares India 50 ETF	52.68
TUR	iShares MSCI Turkey ETF	52.27

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
ECH	iShares MSCI Chile ETF	-4.62%
EPOL	iShares MSCI Poland ETF	-3.17%
FRDM	Freedom 100 Emerging Markets ETF	-1.66%
SDEM	Global X MSCI SuperDividend Emerging Markets ETF	-1.66%
EIDO	iShares MSCI Indonesia ETF	-1.30%
EYLD	Cambria Emerging Shareholder Yield ETF	-1.12%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	-0.87%
FEM	First Trust Emerging Markets AlphaDEX Fund	-0.86%
THD	iShares MSCI Thailand ETF	-0.85%
EPHE	iShares MSCI Philippines ETF	-0.85%

Emerging Most Oversold

Ticker	Fund	Value
EDIV	SPDR S&P Emerging Markets Dividend ETF	24.97
RAYC	Rayliant Quantamental China Equity ETF	27.71
CNYA	iShares MSCI China A ETF	28.23
KSA	iShares MSCI Saudi Arabia ETF	28.66
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	28.69
EELV	Invesco S&P Emerging Markets Low Volatility ETF	28.75
ECNS	iShares MSCI China Small-Cap ETF	29.27
KBA	KraneShares Bosera MSCI China A 50 Connect Index	32.00
FM	iShares MSCI Frontier and Select EM ETF	32.00
TLTE	FlexShares Morningstar Emerging Markets Factor Ti..	32.42

*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	-0.45%	-3.48%	-12.69%
SHY	1-3 Year Treasury Bonds	-0.05%	-1.08%	-4.15%
IEF	7-10 Year Treasury Bonds	-0.62%	-4.41%	-14.07%
TLT	20+ Year Treasury Bonds	-1.00%	-5.80%	-27.32%
TIP	TIPS Bonds	-0.16%	-4.34%	-10.51%
FLOT	Floating Rate Bonds	-0.05%	0.40%	-0.03%
LQD	Investment Grade Corporate	-1.00%	-4.56%	-18.35%
HYG	High Yield Corporate	-1.02%	-3.73%	-12.49%
BKLN	Senior Loan	-0.38%	-1.26%	-3.62%
PFF	Preferred & Income Securities	-1.01%	-5.50%	-15.32%
MUB	Municipal Bonds	-0.58%	-2.59%	-9.47%
MBB	MBS	-0.23%	-4.31%	-11.56%
EMB	Dollar Denominated EM Bonds	-0.92%	-3.19%	-20.85%
LEMB	Local Currency EM Bond	-0.70%	-1.69%	-14.62%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	0.09%	-4.31%	21.39%
DBE	Energy	-0.96%	-7.00%	39.29%
USO	WTI Crude Oil	-1.18%	-6.54%	27.34%
BNO	Brent Crude Oil	-1.07%	-4.72%	37.02%
UNG	Natural Gas	-2.49%	-16.79%	113.53%
UGA	Gasoline	-0.93%	-12.32%	29.74%
DBP	Precious Metals	-0.78%	-3.86%	-12.10%
GLD	Gold	-0.57%	-4.70%	-9.29%
SLV	Silver	-1.45%	1.03%	-17.57%
PPLT	abrdn Physical Platin..	0.18%	2.96%	-4.87%
PALL	abrdn Physical Palla..	-2.33%	1.86%	13.95%
DBB	Base Metals	-0.37%	-5.39%	-15.54%
CPER	Copper	-0.85%	-4.80%	-22.68%
LD	Lead	-8.53%	-16.24%	-26.48%
JJN	Nickel	1.10%	13.38%	21.04%
JJU	Aluminum	-0.06%	-5.75%	-19.78%
JJT	Tin	1.49%	-13.95%	-43.87%
DBA	Agriculture	1.32%	3.43%	5.27%
CORN	Corn	1.92%	9.96%	28.13%
SOYB	Soybeans	0.91%	4.88%	21.98%
WEAT	Wheat	6.50%	14.05%	21.92%
CANE	Sugar	2.77%	-0.22%	-3.37%
BAL	Cotton	-3.15%	-19.35%	0.14%
NIB	Cocoa	-1.34%	-1.02%	-14.99%
JO	Coffee	1.60%	5.62%	2.50%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	0.48%	2.04%	15.18%
UDN	Short Dollar	-0.43%	-1.88%	-13.64%
FXE	Euro	-0.46%	-0.69%	-12.93%
FXB	British Pound Sterling	-0.53%	-3.71%	-15.87%
FXF	Swiss Franc	0.03%	-0.72%	-6.19%
FXJ	Japanese Yen	-0.31%	-4.80%	-20.16%
FXC	Canadian Dollar	-0.83%	-2.71%	-5.51%
FXA	Australian Dollar	-0.49%	-2.70%	-8.07%

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