

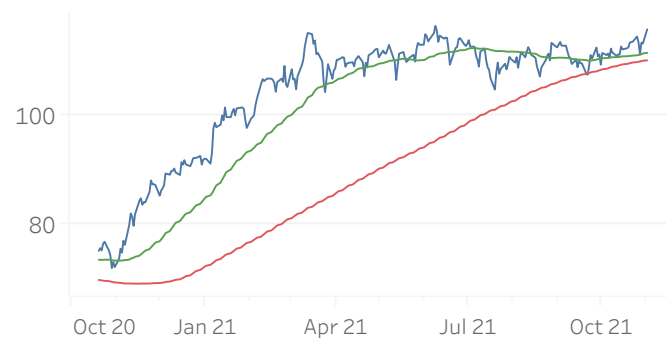
### Large Cap Blend (S&P 500) IVV



### Mid Cap Blend (S&P 400) IJH

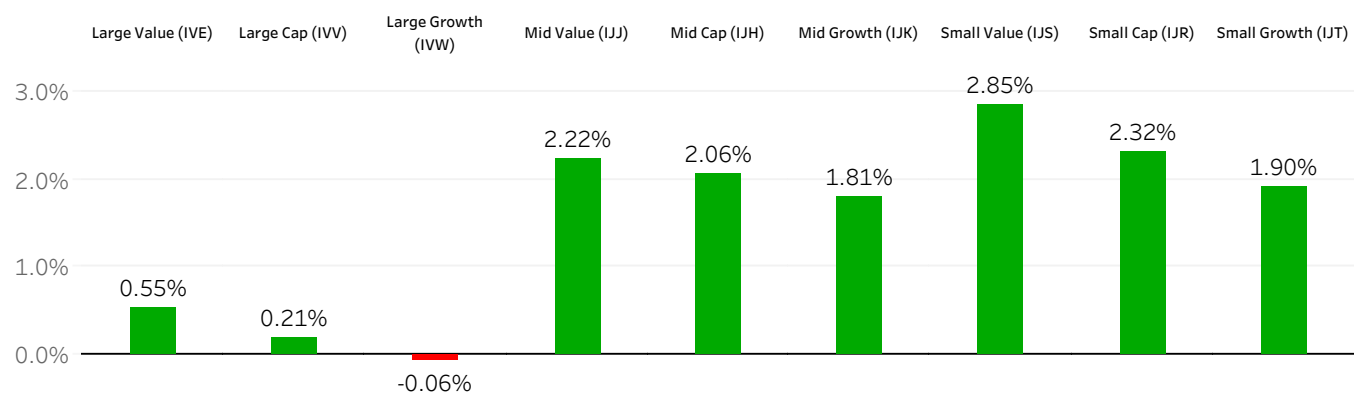


### Small Cap Blend (S&P 600) IJR



■ 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
CALF	Pacer US Small Cap Cash Cows 100 ETF	3.61%
PSC	Principal U.S. Small-Cap Multi-Factor ETF	3.16%
RZV	Invesco S&P Smallcap 600 Pure Value ETF	3.06%
OMFS	Invesco Russell 2000 Dynamic Multifactor ETF	3.00%
SLYV	SPDR S&P 600 Small Cap Value ETF	2.93%
VIOV	Vanguard S&P Small-Cap 600 Value ETF	2.87%
XSVM	Invesco S&P SmallCap Value with Momentum ETF	2.87%
SVAL	iShares US Small Cap Value Factor ETF	2.87%
IJS	iShares S&P Small-Cap 600 Value ETF	2.85%
RWJ	Invesco S&P SmallCap 600 Revenue ETF	2.84%

### Size & Style Most Overbought

Ticker	Fund	Value
USSG	Xtrackers MSCI USA ESG Leaders Equity ETF	77.95
SUSL	iShares ESG MSCI USA Leaders ETF	77.48
DSI	iShares MSCI KLD 400 Social ETF	76.73
SPUS	SP Funds S&P 500 Sharia Industry Exclusions ETF	75.66
NULG	Nuveen ESG Large-Cap Growth ETF	75.33
RPG	Invesco S&P 500 Pure Growth ETF	75.26
FEVR	Inspire Faithward Large Cap Momentum ESG ETF	74.50
RFG	Invesco S&P Midcap 400 Pure Growth ETF	74.49
EFIV	SPDR S&P 500 ESG ETF	73.91
MMTM	SPDR S&P 1500 Momentum Tilt ETF	73.45

### Size & Style 1-Day Performance Laggards

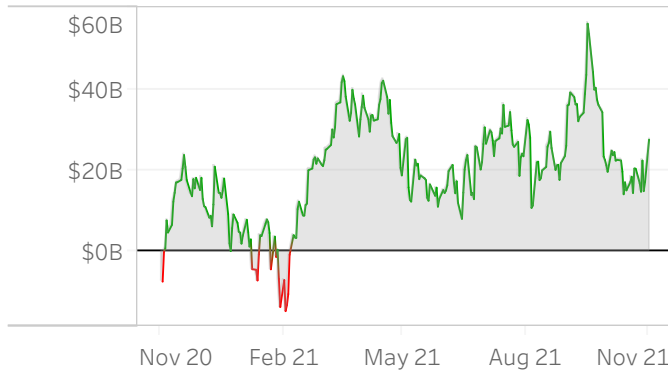
Ticker	Fund	Performance
DVOL	First Trust Dorsey Wright Momentum & Low Volatility E..	-0.51%
PSET	Principal Quality ETF	-0.51%
FDLO	Fidelity Low Volatility Factor ETF	-0.46%
QLV	FlexShares US Quality Low Volatility Index Fund	-0.44%
LEAD	Siren DIVCON Leaders Dividend ETF	-0.40%
SPMO	Invesco S&P 500 Momentum ETF	-0.40%
USMC	Principal U.S. Mega-Cap ETF	-0.38%
HUSV	First Trust Horizon Managed Volatility Domestic ETF	-0.36%
OUSA	OShares U.S. Quality Dividend ETF	-0.27%
XRLV	Invesco S&P 500 ex-Rate Sensitive Low Volatility ETF	-0.25%

### Size & Style Most Oversold

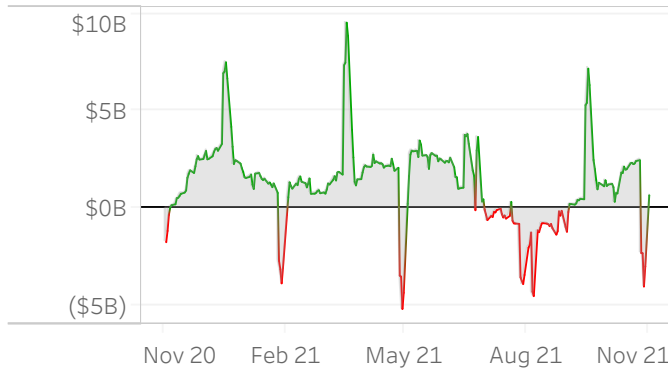
Ticker	Fund	Value
WBIY	WBI Power Factor High Dividend ETF	48.80
RDIV	Invesco S&P Ultra Dividend Revenue ETF	49.74
ABEQ	Absolute Core Strategy ETF	50.63
WBI	WBI BullBear Value 3000 ETF	50.74
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	50.99
DHS	WisdomTree U.S. High Dividend Fund	51.36
DTN	WisdomTree U.S. Dividend ex-Financials Fund	52.04
SDOG	ALPS Sector Dividend Dogs ETF	52.18
DUSA	Davis Select U.S. Equity ETF	52.23
DVY	iShares Select Dividend ETF	54.60

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

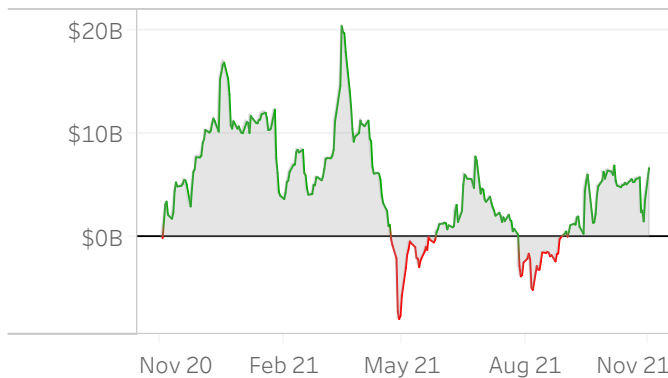
Large-Cap 30-Day Rolling Flows



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	24	\$1,341B	\$16.62B	\$49.48B	\$76.59B	\$117.11B
Large Cap, Beta Growth, Beta: Value	11	\$208B	\$1.03B	\$5.81B	\$11.83B	\$34.47B
Large Cap, Beta Growth, Beta: Growth	10	\$272B	\$0.83B	\$4.03B	\$9.50B	\$5.97B
Small Cap, Beta, Beta	12	\$224B	\$0.46B	\$5.42B	\$7.50B	\$27.22B
Mid Cap, Beta, Beta: Growth	6	\$42B	\$0.13B	\$0.15B	(\$0.59B)	(\$2.03B)
Mid Cap, Beta, Beta: Value	6	\$42B	\$0.03B	\$0.73B	\$1.18B	\$4.79B
Mid Cap, Beta, Beta	10	\$193B	\$0.00B	\$2.17B	\$2.41B	\$9.00B
Small Cap, Beta, Beta: Growth	7	\$39B	(\$0.05B)	(\$0.08B)	(\$0.29B)	\$1.19B
Small Cap, Beta, Beta: Value	7	\$58B	(\$0.34B)	\$0.35B	\$0.33B	\$8.87B

U.S. Size & Style Flow Leaders

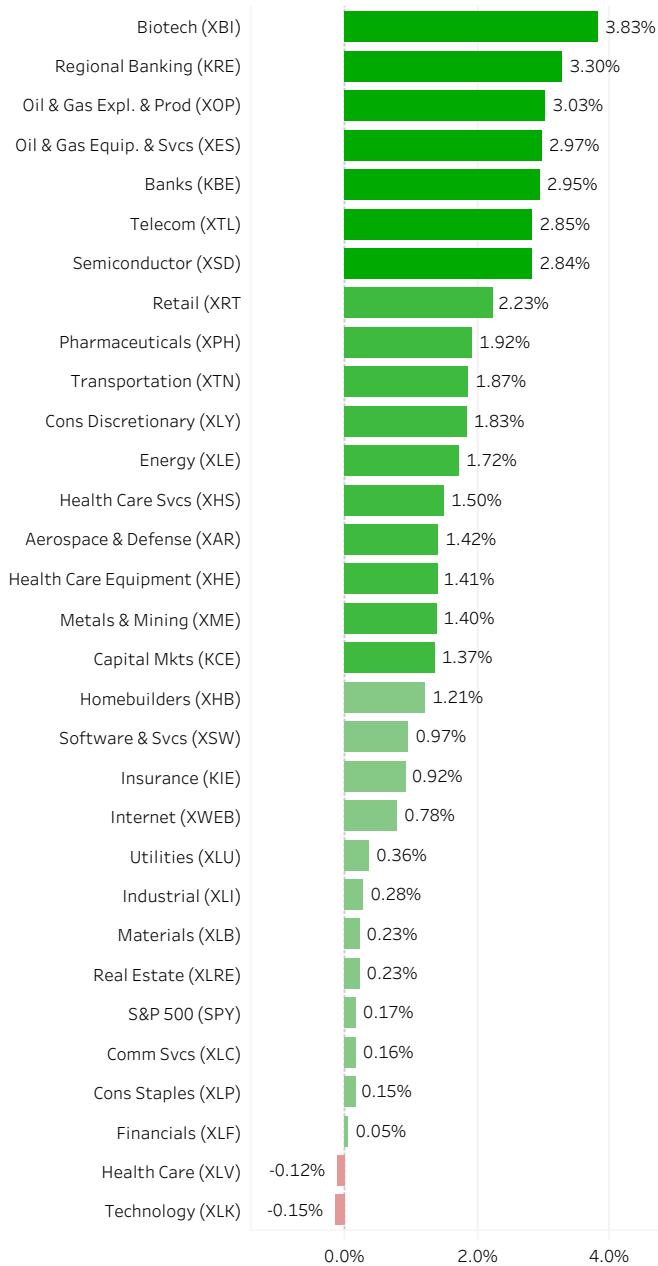
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IVV	iShares Core S&P 500 ETF	\$7.95B	\$7.67B	\$9.52B	\$19.26B	\$316.40B
SPY	SPDR S&P 500 ETF Trust	\$4.99B	\$16.87B	\$18.73B	\$25.60B	\$419.40B
VOO	Vanguard S&P 500 ETF	\$1.89B	\$12.63B	\$24.30B	\$41.85B	\$268.41B
QQQ	Invesco QQQ Trust	\$1.18B	\$7.65B	\$15.57B	\$16.34B	\$201.39B
IWD	iShares Russell 1000 Value ETF	\$0.39B	\$1.28B	\$1.43B	\$6.13B	\$56.85B
VONV	Vanguard Russell 1000 Value ETF	\$0.33B	\$0.37B	\$2.09B	\$2.99B	\$6.96B
SCHD	Schwab US Dividend Equity ETF	\$0.33B	\$2.53B	\$5.20B	\$11.00B	\$29.80B
SPYG	SPDR Portfolio S&P 500 Growth ETF	\$0.29B	\$0.32B	\$2.42B	\$1.92B	\$14.81B
IWM	iShares Russell 2000 ETF	\$0.27B	\$2.51B	\$1.67B	\$8.31B	\$70.55B
PBUS	Invesco PureBeta MSCI USA ETF	\$0.26B	\$0.34B	\$0.35B	\$2.22B	\$2.55B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VTI	Vanguard Total Stock Market ETF	(\$0.44B)	\$10.76B	\$20.35B	\$44.92B	\$283.29B
IJS	iShares S&P Small-Cap 600 Value ETF	(\$0.39B)	(\$0.11B)	(\$0.17B)	\$0.84B	\$8.84B
MDY	SPDR S&P Midcap 400 ETF Trust	(\$0.26B)	(\$0.79B)	(\$1.15B)	(\$0.62B)	\$21.08B
VLUE	iShares MSCI USA Value Factor ETF	(\$0.16B)	(\$0.38B)	\$0.19B	\$5.22B	\$15.40B
RSP	Invesco S&P 500 Equal Weight ETF	(\$0.09B)	\$1.22B	\$2.24B	\$9.31B	\$30.57B
PRFZ	Invesco FTSE RAFI US 1500 Small-Mid ETF	(\$0.09B)	(\$0.16B)	(\$0.17B)	(\$0.35B)	\$1.88B
RPG	Invesco S&P 500 Pure Growth ETF	(\$0.07B)	\$0.33B	\$0.23B	(\$0.08B)	\$3.49B
XMLV	Invesco S&P MidCap Low Volatility ETF	(\$0.04B)	(\$0.11B)	(\$0.25B)	(\$0.80B)	\$1.36B
JVAL	JPMorgan U.S. Value Factor ETF	(\$0.04B)	(\$0.57B)	(\$0.36B)	\$0.25B	\$0.40B
VIOO	Vanguard S&P Small-Cap 600 ETF	(\$0.04B)	(\$0.01B)	\$0.17B	\$0.34B	\$1.83B

\* 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)
SPY	SPDR S&P 500 ETF Trust	0.00%	29.47%	3.31%	9.18%	69.32
XLY	Consumer Discretionary Select Sector SPDR Fund	0.00%	33.49%	10.23%	16.07%	83.12
XLK	Technology Select Sector SPDR Fund	-0.15%	34.32%	3.37%	11.44%	66.88
XLI	Industrial Select Sector SPDR Fund	-0.71%	23.61%	2.53%	4.61%	61.90
XLF	Financial Select Sector SPDR Fund	-0.84%	49.02%	4.37%	11.19%	61.08
XLE	Energy Select Sector SPDR Fund	-1.15%	72.55%	11.11%	15.40%	64.20
XLRE	Real Estate Select Sector SPDR Fund	-1.64%	36.71%	2.70%	10.62%	62.64
XLP	Consumer Staples Select Sector SPDR Fund	-2.21%	12.73%	0.47%	2.75%	57.31
XLV	Health Care Select Sector SPDR Fund	-2.33%	23.26%	1.73%	7.24%	63.89
XLB	Materials Select Sector SPDR Fund	-3.79%	23.63%	2.48%	4.41%	60.41
XLU	Utilities Select Sector SPDR Fund	-4.17%	15.06%	0.64%	3.11%	56.75
XLC	Communication Services Select Sector SPDR Fund	-6.53%	26.38%	-2.22%	2.41%	46.35

### Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
XBI	SPDR S&P BIOTECH ETF	3.83%
PSCD	Invesco S&P SmallCap Consumer Discretionary ETF	3.63%
KBWR	Invesco KBW Regional Banking ETF	3.33%
QABA	First Trust NASDAQ ABA Community Bank Index F..	3.30%
KRE	SPDR S&P Regional Banking ETF	3.30%
IEZ	iShares U.S. Oil Equipment & Services ETF	3.12%
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	3.03%
AMZA	InfraCap MLP ETF	3.00%
AIRR	First Trust RBA American Industrial Renaissance E..	2.99%
XES	SPDR S&P Oil & Gas Equipment & Services ETF	2.97%

### Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
XLY	Consumer Discretionary Select Sector SPDR Fund	83.12
FDIS	Fidelity MSCI Consumer Discretionary Index ETF	77.37
XSD	SPDR S&P Semiconductor ETF	77.27
VCR	Vanguard Consumer Discretionary ETF	76.62
IYC	iShares U.S. Consumer Discretionary ETF	76.15
FTXR	First Trust Nasdaq Transportation ETF	75.53
KCE	SPDR S&P Capital Markets ETF	73.08
PRN	Invesco DWA Industrials Momentum ETF	71.71
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	71.48
AIRR	First Trust RBA American Industrial Renaissance ETF	71.39

### Sector & Industry 1 Day Performance Laggards

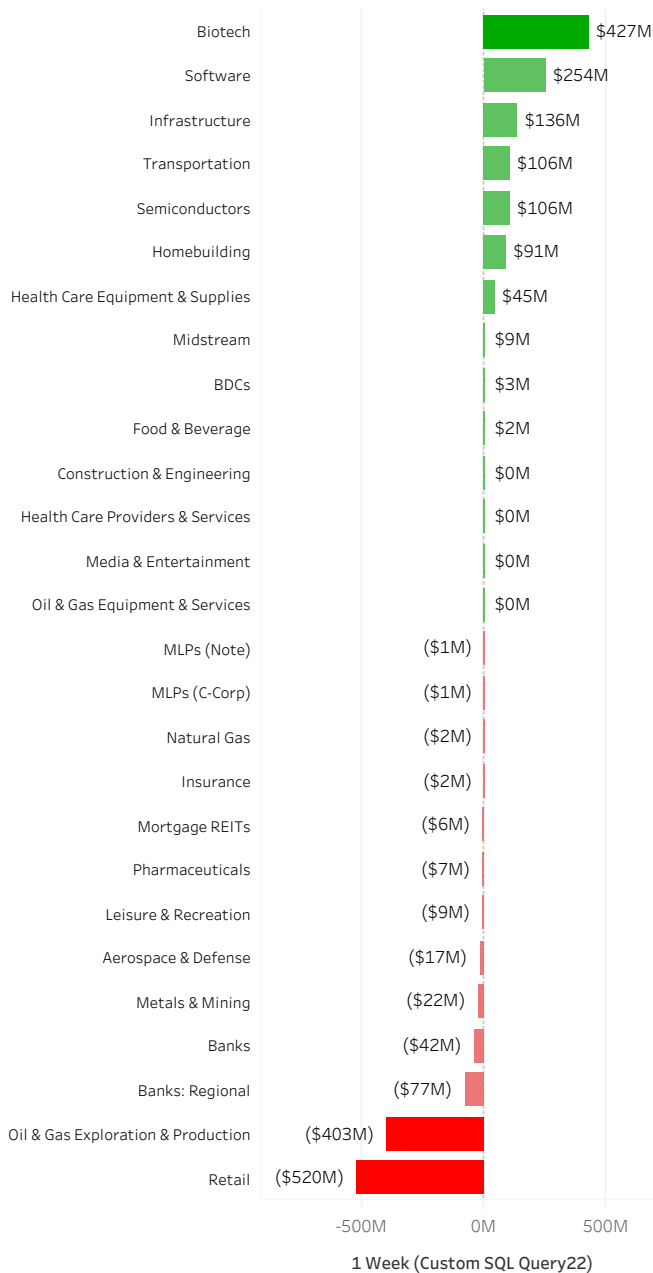
Ticker	Fund	1 Day Performance
IETC	iShares Evolved US Technology ETF	-0.37%
IGV	iShares Expanded Tech-Software Sector ETF	-0.22%
IYW	iShares U.S. Technology ETF	-0.21%
BIZD	VanEck BDC Income ETF	-0.17%
XLK	Technology Select Sector SPDR Fund	-0.15%
XLV	Health Care Select Sector SPDR Fund	-0.12%
FDN	First Trust Dow Jones Internet Index Fund	0.00%
IYH	iShares U.S. Healthcare ETF	0.00%
IGM	iShares Expanded Tech Sector ETF	0.02%
XLF	Financial Select Sector SPDR Fund	0.05%

### Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
IYZ	iShares U.S. Telecommunications ETF	44.64
ITA	iShares U.S. Aerospace & Defense ETF	44.73
XLC	Communication Services Select Sector SPDR Fund	46.35
FCOM	Fidelity MSCI Communication Services Index ETF	47.62
VOX	Vanguard Communication Services ETF	47.66
XAR	SPDR S&P Aerospace & Defense ETF	47.88
PPA	Invesco Aerospace & Defense ETF	50.65
PNQI	Invesco NASDAQ Internet ETF	51.40
IYJ	iShares U.S. Industrials ETF	51.44
RHS	Invesco S&P 500 Equal Weight Consumer Staples ETF	51.78

\* 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	\$143M	\$1,209M	\$2,114M	\$2,567M
Consumer Discretionary	13	\$37B	(\$339M)	\$192M	(\$772M)	\$3,075M
Consumer Staples	12	\$20B	\$125M	(\$1,312M)	\$1,334M	(\$3,688M)
Energy	34	\$56B	(\$543M)	\$157M	(\$238M)	\$11,147M
Financials	28	\$86B	(\$237M)	\$4,842M	\$2,881M	\$25,253M
Health Care	26	\$90B	\$1,041M	\$876M	\$4,204M	\$4,134M
Industrial	14	\$35B	(\$478M)	(\$2,475M)	(\$4,442M)	\$2,934M
Materials	10	\$16B	\$61M	(\$1,616M)	(\$85M)	\$4,690M
Multi-Sector	17	\$26B	\$203M	\$1,087M	\$1,183M	\$3,974M
Real Estate	22	\$78B	\$977M	\$4,567M	\$7,148M	\$12,927M
Technology	24	\$150B	\$270M	\$4,300M	\$5,247M	\$5,187M
Utilities	10	\$20B	(\$50M)	\$8M	\$128M	(\$141M)

### U.S. Sector & Industry Flow Leaders

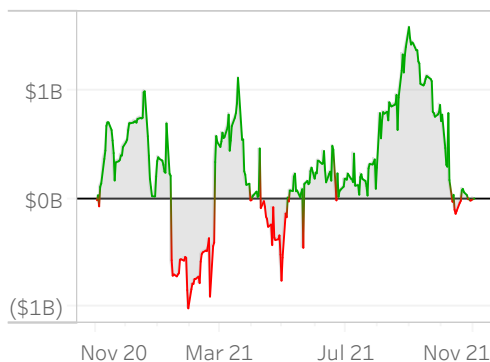
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLV	Health Care Select Sector SPDR Fund	\$600M	(\$381M)	\$3,788M	\$2,730M	\$32,173M
IYR	iShares U.S. Real Estate ETF	\$386M	\$1,708M	\$248M	\$1,683M	\$7,299M
XBI	SPDR S&P BIOTECH ETF	\$347M	\$434M	\$257M	\$1,234M	\$7,154M
IGV	iShares Expanded Tech-Software Sector ETF	\$261M	\$1,188M	\$396M	(\$474M)	\$6,609M
XLV	Consumer Discretionary Select Sector SPDR Fu..	\$247M	\$709M	(\$572M)	\$685M	\$22,555M
VNQ	Vanguard Real Estate ETF	\$242M	\$985M	\$3,488M	\$5,955M	\$45,915M
XLRE	Real Estate Select Sector SPDR Fund	\$177M	\$623M	\$1,451M	\$1,729M	\$4,701M
XLC	Communication Services Select Sector SPDR Fu..	\$136M	\$1,052M	\$1,240M	\$1,375M	\$15,082M
XLP	Consumer Staples Select Sector SPDR Fund	\$132M	(\$1,425M)	\$1,221M	(\$3,143M)	\$11,721M
PAVE	Global X U.S. Infrastructure Development ETF	\$129M	\$665M	\$1,524M	\$3,840M	\$4,911M

### U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XRT	SPDR S&P Retail ETF	(\$519M)	(\$229M)	\$67M	\$148M	\$862M
XLI	Industrial Select Sector SPDR Fund	(\$447M)	(\$2,003M)	(\$3,509M)	\$633M	\$17,771M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	(\$438M)	(\$262M)	(\$770M)	(\$98M)	\$4,088M
XLE	Energy Select Sector SPDR Fund	(\$176M)	\$420M	\$242M	\$7,549M	\$27,127M
VIS	Vanguard Industrials ETF	(\$150M)	(\$273M)	(\$191M)	\$723M	\$5,173M
XLF	Financial Select Sector SPDR Fund	(\$131M)	\$1,999M	(\$33M)	\$12,951M	\$45,311M
XLK	Technology Select Sector SPDR Fund	(\$122M)	\$437M	\$1,005M	(\$36M)	\$47,420M
RCD	Invesco S&P 500 Equal Weight Consumer Discr..	(\$114M)	(\$255M)	(\$417M)	\$109M	\$568M
KRE	SPDR S&P Regional Banking ETF	(\$60M)	\$703M	\$297M	\$2,972M	\$5,424M
KBE	SPDR S&P Bank ETF	(\$55M)	\$233M	(\$730M)	\$587M	\$3,452M

\* 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



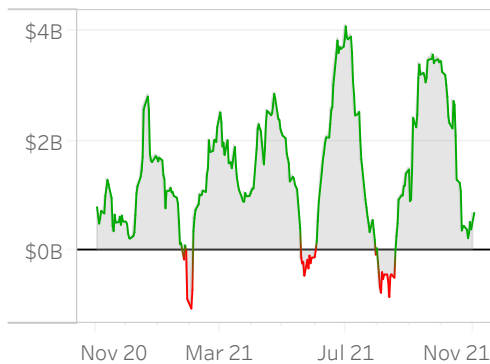
Health Care



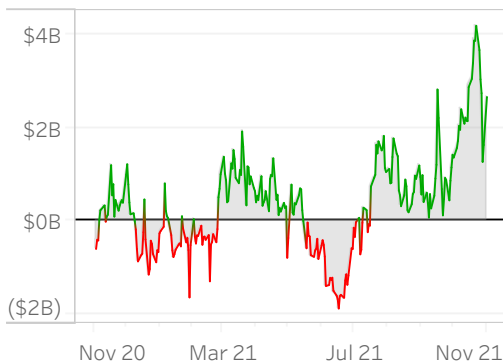
Materials



Real Estate



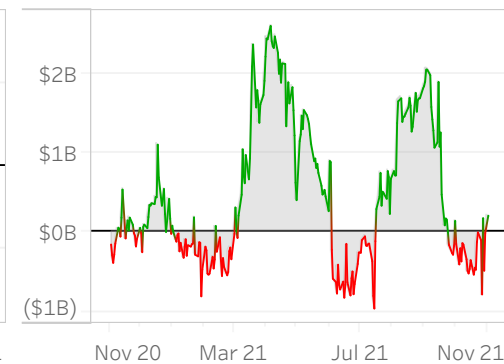
Technology



Utilities

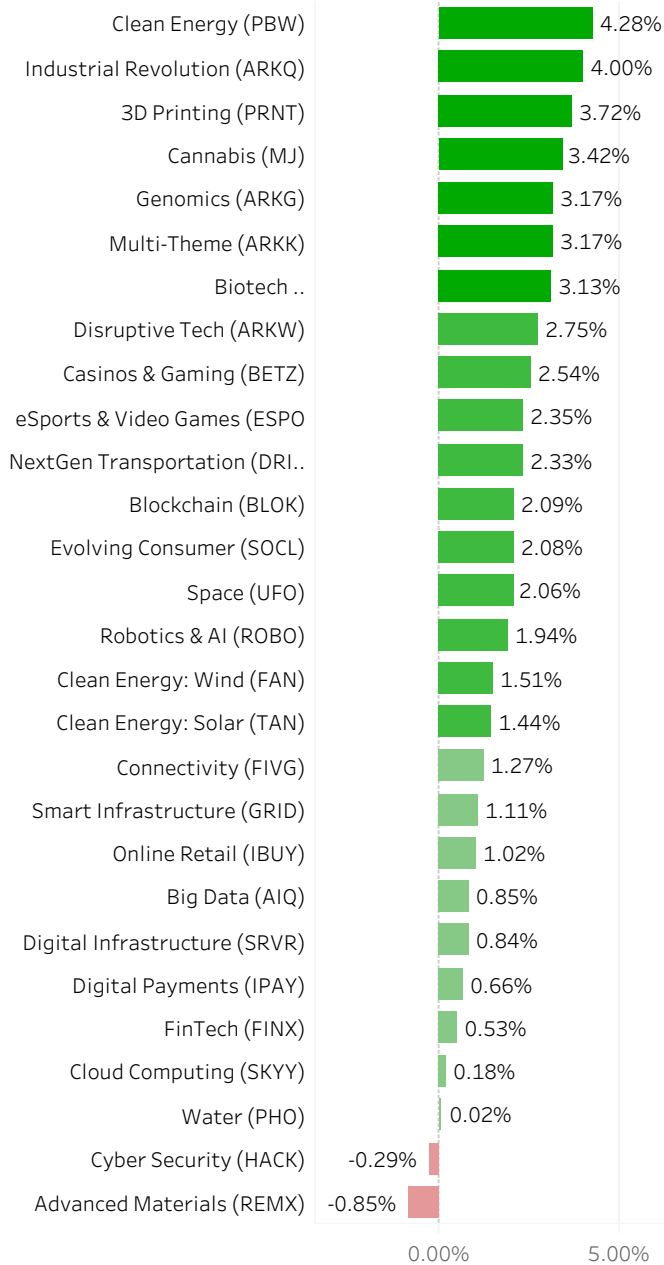


Multi-Sector

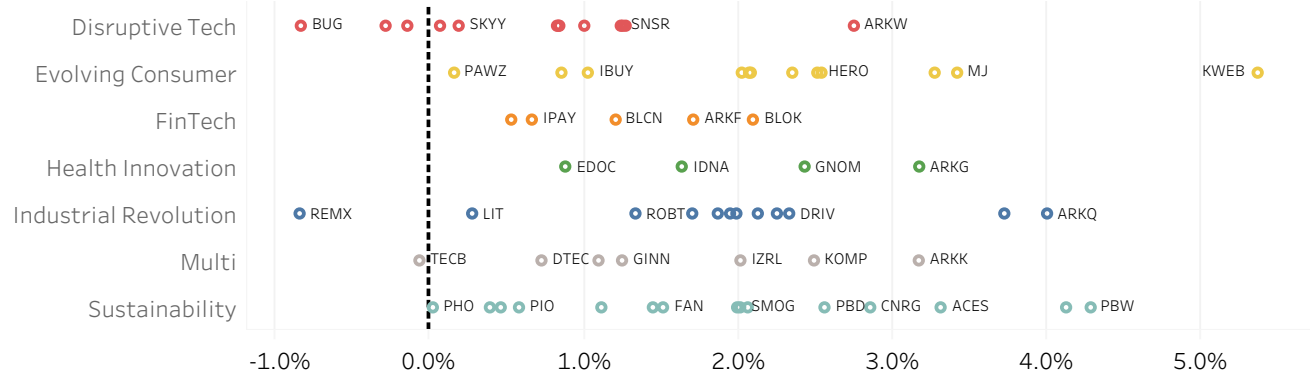


\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

## Global Thematic Segment 1-Day Performance



## Global Thematic 1-Day Performance Landscape



## Global Thematic 1-Day Performance Leaders

Ticker	Fund	Performance
HDR0	Defiance Next Gen H2 ETF	5.37%
KWEB	KraneShares CSI China Internet ETF	5.36%
PBW	Invesco WilderHill Clean Energy ETF	4.28%
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	4.12%
POTX	Global X Cannabis ETF	4.05%
ARKQ	ARK Autonomous Technology & Robotics ETF	4.00%
MOON	Direxion Moonshot Innovators ETF	3.86%
PRNT	3D Printing ETF	3.72%
BITQ	Bitwise Crypto Industry Innovators ETF	3.58%
MJ	ETFMG Alternative Harvest ETF	3.42%

## Thematic Most Overbought

Ticker	Fund	Price
SMOG	VanEck Low Carbon Energy ETF	81.98
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	81.38
ERTH	Invesco MSCI Sustainable Future ETF	79.46
ICLN	iShares Global Clean Energy ETF	78.85
ACES	ALPS Clean Energy ETF	78.54
HDR0	Defiance Next Gen H2 ETF	77.36
PBW	Invesco WilderHill Clean Energy ETF	76.76
CNRG	SPDR S&P Kensho Clean Power ETF	76.66
PBD	Invesco Global Clean Energy ETF	76.64
CTEC	Global X CleanTech ETF	76.57

## Global Thematic 1-Day Performance Laggards

Ticker	Fund	Performance
REMX	VanEck Rare Earth/Strategic Metals ETF	-0.85%
BUG	Global X Cybersecurity ETF	-0.84%
HACK	ETFMG Prime Cyber Security ETF	-0.29%
CIBR	First Trust NASDAQ Cybersecurity ETF	-0.15%
TECB	iShares U.S. Tech Breakthrough Multisector ETF	-0.07%
PHO	Invesco Water Resources ETF	0.02%
IHAK	iShares Cybersecurity & Tech ETF	0.06%
PAWZ	ProShares Pet Care ETF	0.16%
SKYY	First Trust Cloud Computing ETF	0.18%
ENTR	ERShares Entrepreneurs ETF	0.19%

## Thematic Most Oversold

Ticker	Fund	Price
MSOS	AdvisorShares Pure US Cannabis ETF	36.74
IPAY	ETFMG Prime Mobile Payments ETF	36.77
CNBS	Amplify Seymour Cannabis ETF	39.32
YOLO	AdvisorShares Pure Cannabis ETF	42.04
MJ	ETFMG Alternative Harvest ETF	43.17
THCX	Cannabis ETF	43.44
GERM	ETFMG Treatments Testing and Advancements ETF	44.71
POTX	Global X Cannabis ETF	45.83
SOCL	Global X Social Media ETF	48.30
AWAY	ETFMG Travel Tech ETF	48.43

\* 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	
TAN	Invesco Solar ETF	\$330M
CIBR	First Trust NASDAQ Cybersecurity ETF	\$88M
LIT	Global X Lithium & Battery Tech ETF	\$76M
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	\$59M
KWEB	KraneShares CSI China Internet ETF	\$52M
ICLN	iShares Global Clean Energy ETF	\$48M
META	Roundhill Ball Metaverse ETF	\$38M
KEMQ	KraneShares Emerging Markets Consumer Technology Index ETF	\$27M
BUG	Global X Cybersecurity ETF	\$24M
FIW	First Trust Water ETF	\$22M

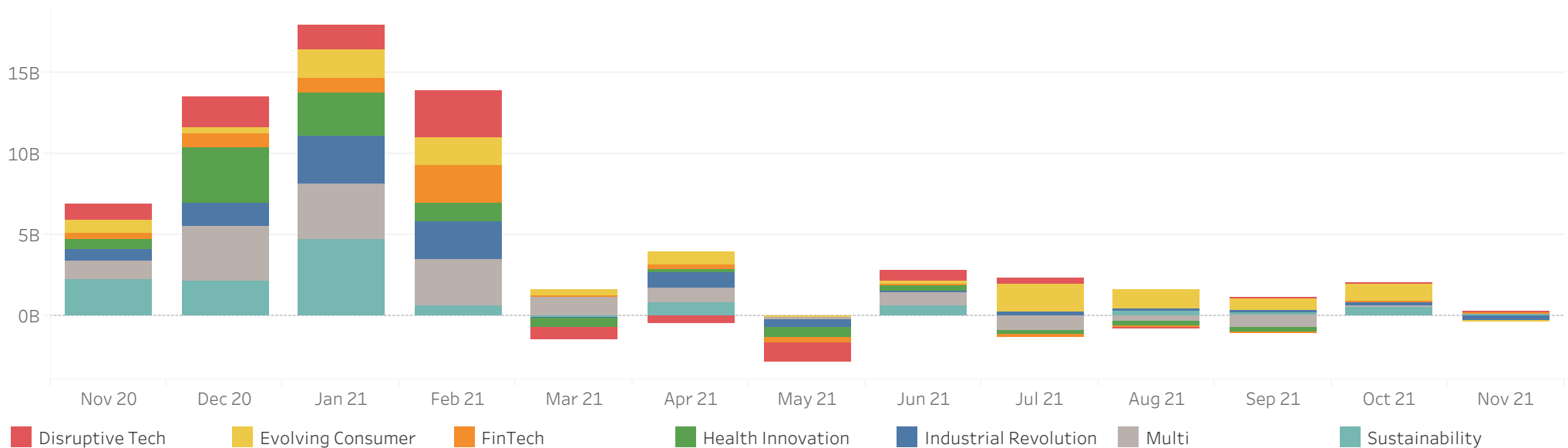
### Thematic 1 Week Flow Laggards

Ticker	Fund	
ARKK	ARK Innovation ETF	(\$263M)
PAWZ	ProShares Pet Care ETF	(\$102M)
ARKW	ARK Next Generation Internet ETF	(\$23M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$17M)
ARKG	ARK Genomic Revolution ETF	(\$15M)
AWAY	ETFMG Travel Tech ETF	(\$12M)
HERO	Global X Video Games & Esports ETF	(\$9M)
SOCL	Global X Social Media ETF	(\$8M)
HACK	ETFMG Prime Cyber Security ETF	(\$6M)
REMX	VanEck Rare Earth/Strategic Metals ETF	(\$6M)

### Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	32	\$30B	\$118M	\$95M	(\$184M)	\$6,007M
Evolving Consumer	39	\$17B	(\$57M)	\$2,977M	\$4,930M	\$10,727M
FinTech	16	\$8B	\$32M	(\$83M)	(\$473M)	\$4,450M
Health Innovation	15	\$9B	(\$19M)	(\$505M)	(\$1,024M)	\$6,477M
Industrial Revolution	24	\$18B	\$64M	\$357M	\$135M	\$8,198M
Multi	28	\$30B	(\$149M)	(\$856M)	(\$1,068M)	\$11,725M
Sustainability	36	\$26B	\$486M	\$1,297M	\$1,937M	\$12,665M
Grand Total	190	\$139B	\$475M	\$3,284M	\$4,252M	\$60,249M

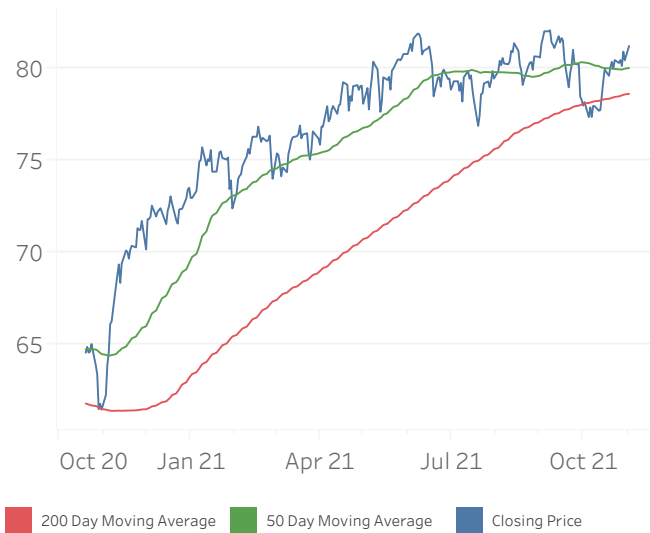
### Thematic Monthly Flows



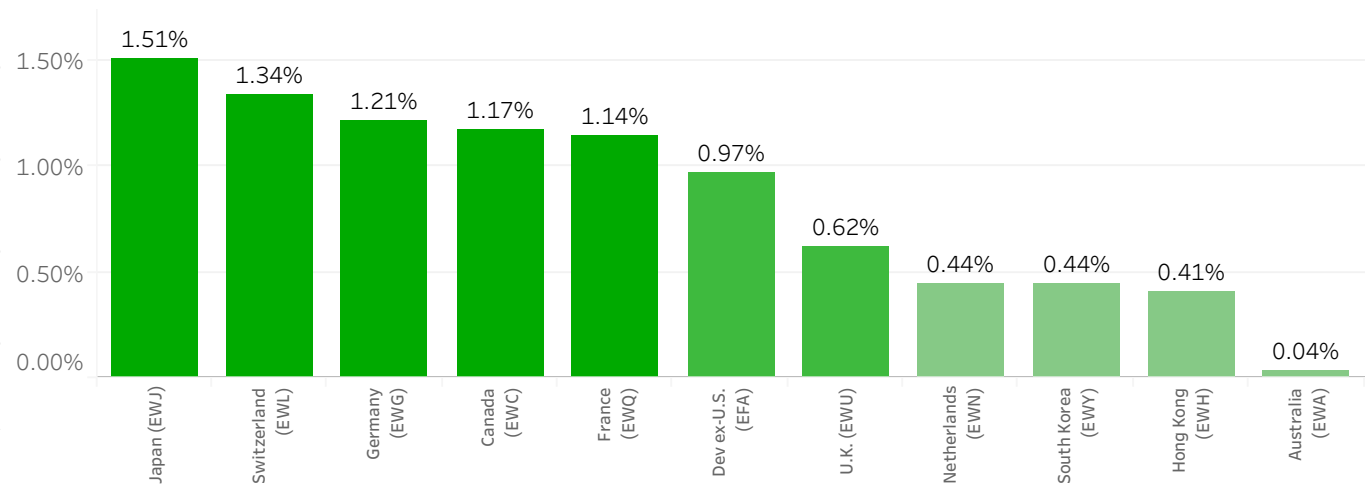
\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



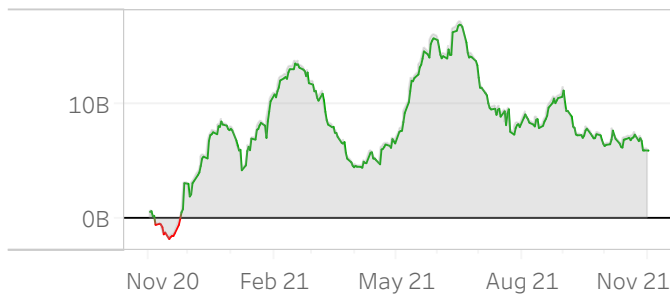
Developed ex-U.S. (EFA)



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



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



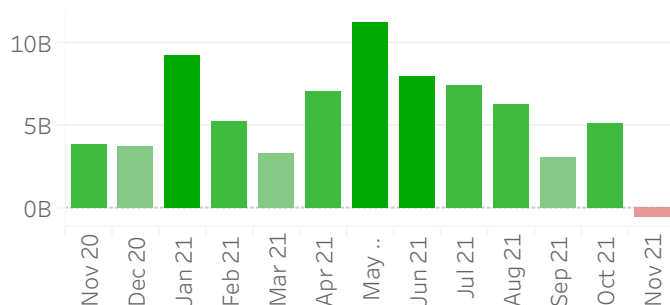
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
EIS	iShares MSCI Israel ETF	2.07%
ISRA	VanEck Israel ETF	1.85%
EWO	iShares MSCI Austria ETF	1.80%
EWP	iShares MSCI Spain ETF	1.77%
DXJ	WisdomTree Japan Hedged Equity Fund	1.77%
FSZ	First Trust Switzerland AlphaDEX Fund	1.58%
EWI	iShares MSCI Italy ETF	1.58%
HEWJ	iShares Currency Hedged MSCI Japan ETF	1.52%
EWJ	iShares MSCI Japan ETF	1.51%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	1.49%

Developed ex-U.S. Most Overbought

Ticker	Fund	Price
EIS	iShares MSCI Israel ETF	73.59
ISRA	VanEck Israel ETF	71.27
TOK	iShares MSCI Kokusai ETF	69.61
EWL	iShares MSCI Switzerland ETF	68.43
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	68.28
HEZU	iShares Currency Hedged MSCI Eurozone ETF	68.04
HEDJ	WisdomTree Europe Hedged Equity Fund	67.00
BBCA	JPMorgan BetaBuilders Canada ETF	66.42
HEFA	iShares Currency Hedged MSCI EAFE ETF	66.12
EWQ	iShares MSCI France ETF	65.65

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
EWUS	iShares MSCI United Kingdom Small Cap ETF	-0.39%
WPS	iShares International Developed Property ETF	-0.19%
ENZL	iShares MSCI New Zealand ETF	-0.14%
EWA	iShares MSCI Australia ETF	0.04%
BBAX	JPMorgan BetaBuilders Developed Asia ex-Japan ETF	0.09%
EWS	iShares MSCI Singapore ETF	0.21%
EPP	iShares MSCI Pacific ex-Japan ETF	0.27%
TOK	iShares MSCI Kokusai ETF	0.28%
FLGB	Franklin FTSE United Kingdom ETF	0.34%
EUSC	WisdomTree Europe Hedged SmallCap Equity Fund	0.39%

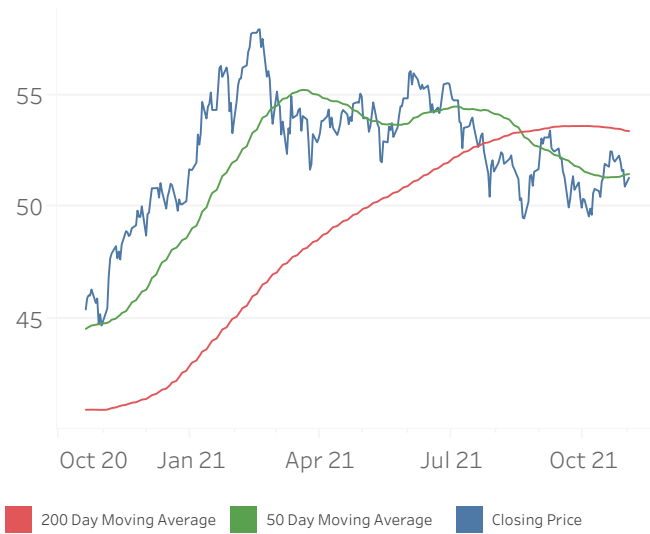
Developed ex-U.S. Most Oversold

Ticker	Fund	Price
EWY	iShares MSCI South Korea ETF	46.00
FLKR	Franklin FTSE South Korea ETF	46.72
EWUS	iShares MSCI United Kingdom Small Cap ETF	47.32
EWJV	iShares MSCI Japan Value ETF	48.26
DFJ	WisdomTree Japan SmallCap Dividend Fund	48.83
SCJ	iShares MSCI Japan Small-Cap ETF	49.95
DOO	WisdomTree International Dividend ex-Financials Fu..	50.29
AAXJ	iShares MSCI All Country Asia ex Japan ETF	50.33
WPS	iShares International Developed Property ETF	50.74
AIA	iShares Asia 50 ETF	51.11

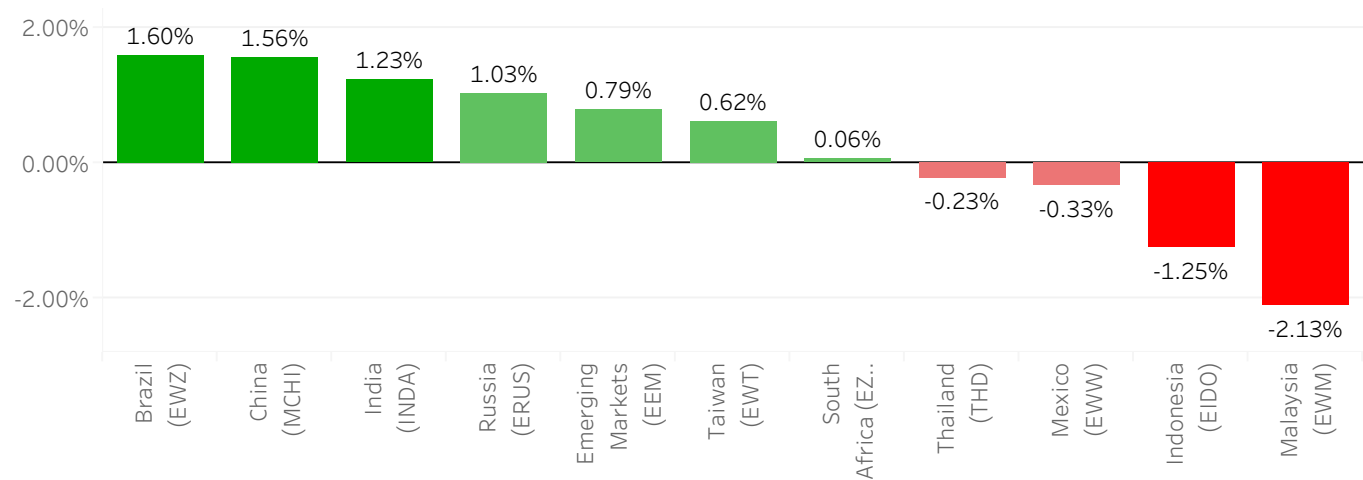
\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



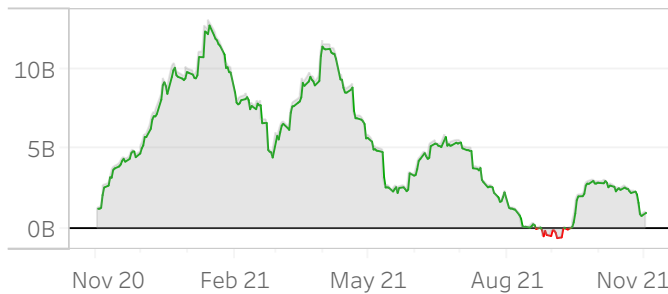
Emerging (EEM)



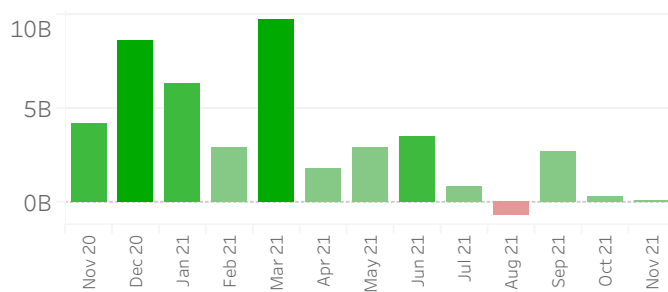
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
ECNS	iShares MSCI China Small-Cap ETF	7.72%
PGJ	Invesco Golden Dragon China ETF	3.97%
FNI	First Trust Chindia ETF	3.13%
TUR	iShares MSCI Turkey ETF	2.25%
ECH	iShares MSCI Chile ETF	2.20%
NFTY	First Trust India NIFTY 50 Equal Weight ETF	2.16%
ADRE	Invesco BLDERS Emerging Markets 50 ADR Index Fund	1.95%
FXI	iShares China Large-Cap ETF	1.81%
FLBR	Franklin FTSE Brazil ETF	1.74%
SMIN	iShares MSCI India Small Cap ETF	1.74%

Emerging Most Overbought

Ticker	Fund	Price
VNM	VanEck Vietnam ETF	70.30
FM	iShares MSCI Frontier and Select EM ETF	68.10
EPW	iShares MSCI Peru ETF	66.69
ECNS	iShares MSCI China Small-Cap ETF	61.72
QAT	iShares MSCI Qatar ETF	57.93
PIE	Invesco DWA Emerging Markets Momentum ETF	57.49
TUR	iShares MSCI Turkey ETF	56.75
EWT	iShares MSCI Taiwan ETF	56.51
KSA	iShares MSCI Saudi Arabia ETF	56.28
FNI	First Trust Chindia ETF	56.00

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
EWM	iShares MSCI Malaysia ETF	-2.13%
EIDO	iShares MSCI Indonesia ETF	-1.25%
EWW	iShares MSCI Mexico ETF	-0.33%
EPHE	iShares MSCI Philippines ETF	-0.28%
THD	iShares MSCI Thailand ETF	-0.23%
EELV	Invesco S&P Emerging Markets Low Volatility ETF	-0.16%
KSA	iShares MSCI Saudi Arabia ETF	-0.05%
EZA	iShares MSCI South Africa ETF	0.06%
DGS	WisdomTree Emerging Markets SmallCap Dividend Fund	0.08%
LDEM	iShares ESG MSCI EM Leaders ETF	0.10%

Emerging Most Oversold

Ticker	Fund	Price
EWZS	iShares MSCI Brazil Small-Cap ETF	33.83
EWZ	iShares MSCI Brazil ETF	36.94
FLBR	Franklin FTSE Brazil ETF	37.06
EWM	iShares MSCI Malaysia ETF	37.38
ILF	iShares Latin America 40 ETF	37.63
DGS	WisdomTree Emerging Markets SmallCap Dividend F..	38.16
FEM	First Trust Emerging Markets AlphaDEX Fund	38.47
DEM	WisdomTree Emerging Markets High Dividend Fund	39.16
FEMS	First Trust Emerging Markets Small Cap AlphaDEX F..	39.17
EWW	iShares MSCI Mexico ETF	39.79

\*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	-0.06%	-0.37%	-1.74%
SHY	1-3 Year Treasury Bonds	-0.05%	-0.43%	-0.49%
IEF	7-10 Year Treasury Bonds	-0.01%	-0.86%	-3.88%
TLT	20+ Year Treasury Bonds	-0.72%	0.88%	-5.95%
TIP	TIPS Bonds	-0.40%	0.28%	3.93%
FLOT	Floating Rate Bonds	-0.05%	-0.03%	0.42%
LQD	Investment Grade Corporate	-0.18%	-0.37%	-1.87%
HYG	High Yield Corporate	-0.11%	-0.66%	2.52%
BKLN	Senior Loan	0.09%	-0.02%	1.79%
PFF	Preferred & Income Securities	0.17%	2.06%	6.10%
MUB	Municipal Bonds	-0.08%	-0.16%	0.22%
MBB	MBS	0.03%	-0.39%	-1.04%
EMB	Dollar Denominated EM Bonds	-0.27%	-0.09%	-2.74%
LEMB	Local Currency EM Bond	-0.24%	-2.02%	-7.71%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	0.00%	3.10%	38.04%
DBE	Energy	0.77%	6.92%	69.56%
USO	WTI Crude Oil	0.66%	8.02%	74.28%
BNO	Brent Crude Oil	0.99%	7.56%	74.46%
UNG	Natural Gas	-5.80%	-9.80%	89.02%
UGA	Gasoline	1.95%	9.93%	78.12%
DBP	Precious Metals	0.45%	2.68%	-7.88%
GLD	Gold	0.52%	1.78%	-6.08%
SLV	Silver	0.63%	6.72%	-9.52%
PPLT	Platinum	4.90%	9.18%	-1.37%
PALL	Palladium	3.21%	6.74%	-16.49%
DBB	Base Metals	-0.28%	2.10%	23.75%
CPER	Copper	0.07%	4.35%	23.60%
LD	Lead	-0.34%	12.03%	21.68%
JJN	Nickel	-0.49%	7.94%	16.04%
JJU	Aluminum	-0.27%	-4.95%	35.15%
JJT	Tin	0.75%	10.73%	109.97%
DBA	Agriculture	1.19%	0.62%	20.94%
CORN	Corn	1.36%	5.61%	39.03%
SOYB	Soybeans	-0.04%	-0.55%	11.76%
WEAT	Wheat	3.05%	5.87%	25.36%
CANE	Sugar	0.86%	-1.31%	39.11%
BAL	Cotton	4.39%	15.14%	47.39%
NIB	Cocoa	0.33%	-6.40%	-3.81%
JO	Coffee	2.44%	1.83%	53.57%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.32%	-0.36%	3.84%
UDN	Short Dollar	0.26%	0.12%	-4.96%
FXE	Euro	0.39%	-0.02%	-5.82%
FXB	British Pound Sterling	-0.24%	0.70%	-0.51%
FXF	Swiss Franc	0.75%	2.25%	-3.59%
FXJ	Japanese Yen	-0.10%	-2.64%	-9.93%
FXC	Canadian Dollar	0.10%	2.27%	2.63%
FXA	Australian Dollar	0.00%	3.48%	-2.81%

\*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](mailto:team@etfaction.com)

[www.etfaction.com](http://www.etfaction.com)