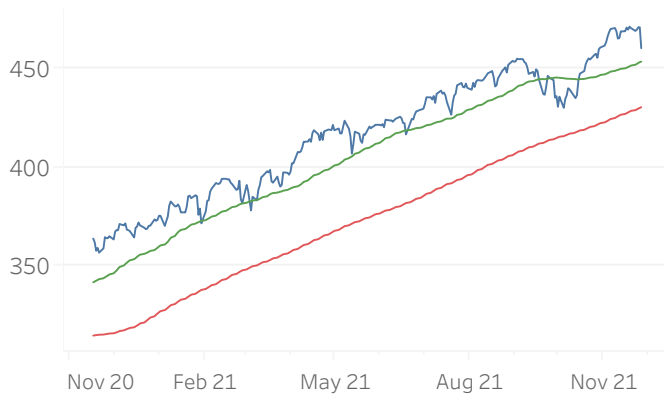


### Large Cap Blend (S&P 500) IVV



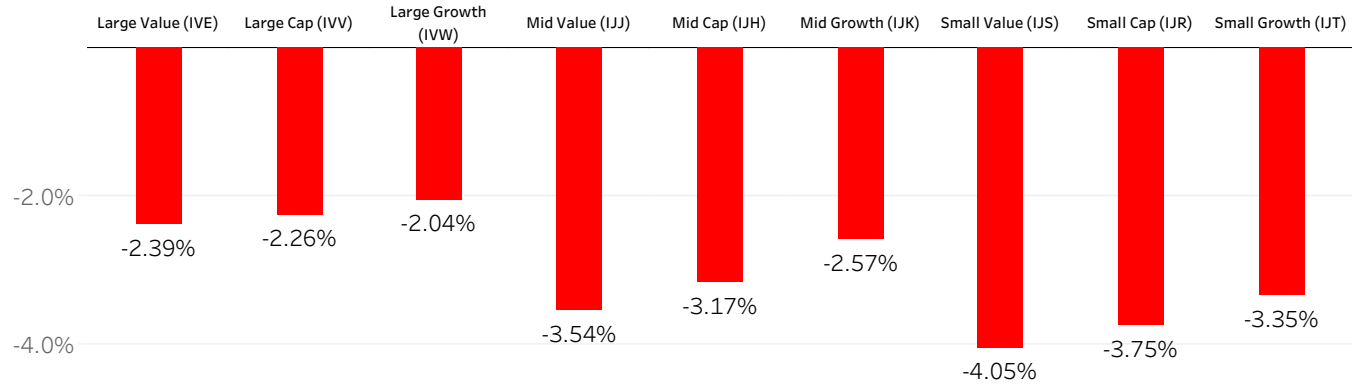
### Mid Cap Blend (S&P 400) IJH



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



### U.S. Size & Style 1-Day Performance



### Size & Style 1-Day Performance Leaders

Ticker	Fund	Performance
IPO	Renaissance IPO ETF	1.34%
PSET	Principal Quality ETF	-0.69%
BUZZ	VanEck Social Sentiment ETF	-0.70%
MXDU	Nationwide Maximum Diversification US Core Equity ETF	-1.03%
FCTR	First Trust Lunt U.S. Factor Rotation ETF	-1.06%
LVHD	Legg Mason Low Volatility High Dividend ETF	-1.11%
PTNQ	Pacer Trendpilot 100 ETF	-1.12%
ABEQ	Absolute Core Strategy ETF	-1.14%
VSMV	VictoryShares US Multi-Factor Minimum Volatility ETF	-1.15%
USMV	iShares MSCI USA Min Vol Factor ETF	-1.22%

### Size & Style Most Overbought

Ticker	Fund	Value
LEAD	Siren DIVCON Leaders Dividend ETF	54.57
SPUS	SP Funds S&P 500 Sharia Industry Exclusions ETF	53.08
DWEQ	AdvisorShares Dorsey Wright Alpha Equal Weight ETF	51.81
ALTL	Pacer Lunt Large Cap Alternator ETF	51.81
PSET	Principal Quality ETF	51.58
HLAL	Wahed FTSE USA Shariah ETF	51.56
SPYG	SPDR Portfolio S&P 500 Growth ETF	50.86
IWY	iShares Russell Top 200 Growth ETF	50.75
IUSG	iShares Core S&P U.S. Growth ETF	50.67
IVW	iShares S&P 500 Growth ETF	50.62

### Size & Style 1-Day Performance Laggards

Ticker	Fund	Performance
XSMO	Invesco S&P SmallCap Momentum ETF	-4.51%
OMFS	Invesco Russell 2000 Dynamic Multifactor ETF	-4.29%
SPHB	Invesco S&P 500 High Beta ETF	-4.26%
SVAL	iShares US Small Cap Value Factor ETF	-4.17%
RZV	Invesco S&P Smallcap 600 Pure Value ETF	-4.16%
VIOV	Vanguard S&P Small-Cap 600 Value ETF	-4.15%
FYC	First Trust Small Cap Growth AlphaDEX Fund	-4.11%
SLYV	SPDR S&P 600 Small Cap Value ETF	-4.08%
AVUV	Avantis U.S. Small Cap Value ETF	-4.08%
IJS	iShares S&P Small-Cap 600 Value ETF	-4.05%

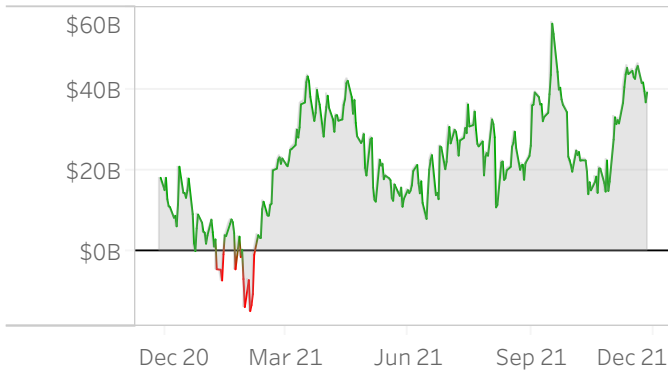
### Size & Style Most Oversold

Ticker	Fund	Value
MFMS	Motley Fool Small-Cap Growth ETF	28.35
IWC	iShares Micro-Cap ETF	30.34
VFLQ	Vanguard U.S. Liquidity Factor ETF	31.00
SHE	SPDR SSGA Gender Diversity Index ETF	31.09
MOAT	VanEck Morningstar Wide Moat ETF	31.34
ISCG	iShares Morningstar Small-Cap Growth ETF	31.75
IWM	iShares Russell 2000 ETF	31.88
ISCB	iShares Morningstar Small-Cap ETF	32.01
BKSE	BNY Mellon US Small Cap Core Equity ETF	32.19
ESML	iShares ESG Aware MSCI USA Small-Cap ETF	32.32

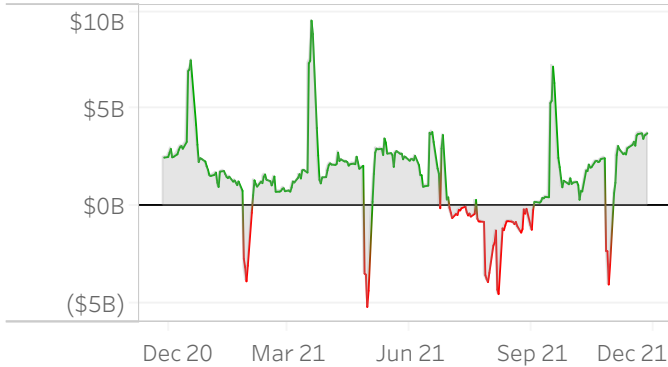
■ Closing Price    
 ■ 50 Day Moving Average    
 ■ 200 Day Moving Average

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

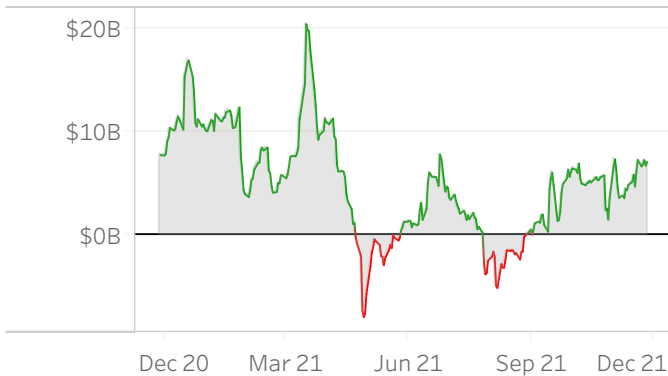
### Large-Cap 30-Day Rolling Flows



### 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	\$234B	\$0.67B	\$9.26B	\$11.42B	\$26.16B
Mid Cap, Beta, Beta	10	\$199B	\$0.53B	\$3.73B	\$3.96B	\$10.06B
Large Cap, Beta Growth, Beta: Value	11	\$212B	\$0.39B	\$6.08B	\$9.23B	\$31.58B
Large Cap, Beta Growth, Beta: Growth	10	\$279B	\$0.32B	\$1.53B	\$8.80B	\$5.53B
Small Cap, Beta, Beta: Growth	7	\$40B	\$0.31B	\$0.50B	\$0.52B	\$1.29B
Small Cap, Beta, Beta: Value	7	\$60B	\$0.07B	\$0.91B	\$0.09B	\$7.51B
Mid Cap, Beta, Beta: Value	6	\$43B	\$0.03B	\$0.55B	(\$0.22B)	\$3.81B
Mid Cap, Beta, Beta: Growth	6	\$42B	\$0.00B	\$0.74B	\$0.70B	(\$1.62B)
Large Cap, Beta Growth, Beta	24	\$1,375B	(\$1.18B)	\$42.61B	\$78.29B	\$98.44B

### U.S. Size & Style Flow Leaders

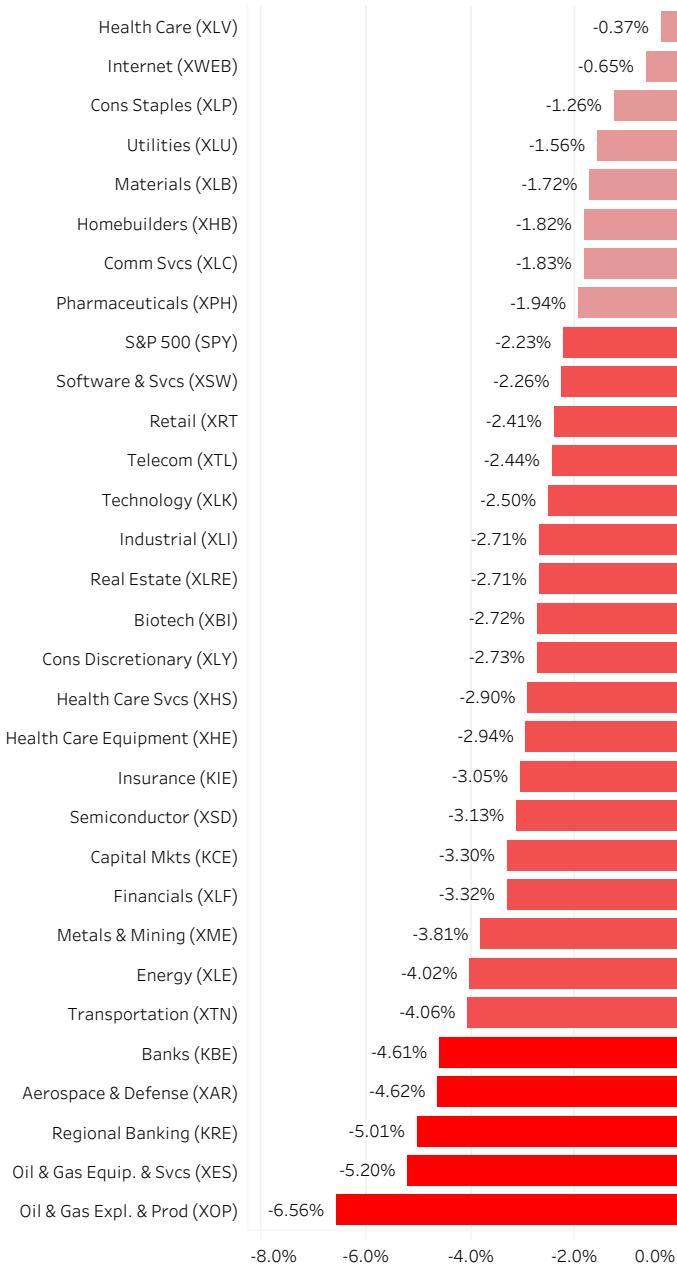
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	\$2.18B	\$10.80B	\$17.75B	\$6.08B	\$423.23B
MTUM	iShares MSCI USA Momentum Factor ETF	\$1.01B	\$1.75B	\$1.25B	\$2.00B	\$17.37B
VTI	Vanguard Total Stock Market ETF	\$0.98B	\$11.13B	\$22.19B	\$44.30B	\$292.68B
IWM	iShares Russell 2000 ETF	\$0.54B	\$4.07B	\$4.09B	\$7.53B	\$73.56B
VO	Vanguard Mid-Cap ETF	\$0.48B	\$2.31B	\$3.55B	\$5.31B	\$57.08B
IWO	iShares Russell 2000 Growth ETF	\$0.21B	\$0.44B	\$0.36B	(\$0.15B)	\$12.55B
VUG	Vanguard Growth ETF	\$0.19B	\$0.01B	\$2.15B	\$3.50B	\$90.24B
VTV	Vanguard Value ETF	\$0.18B	\$3.28B	\$5.74B	\$15.89B	\$90.53B
IWD	iShares Russell 1000 Value ETF	\$0.15B	\$1.50B	\$1.41B	\$5.16B	\$57.66B
SCHD	Schwab US Dividend Equity ETF	\$0.13B	\$2.52B	\$4.80B	\$11.01B	\$30.86B

### U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
QQQ	Invesco QQQ Trust	(\$2.87B)	\$5.75B	\$14.46B	\$14.16B	\$208.02B
IVV	iShares Core S&P 500 ETF	(\$0.40B)	\$10.20B	\$14.11B	\$21.26B	\$327.20B
IWF	iShares Russell 1000 Growth ETF	(\$0.24B)	(\$1.72B)	(\$0.45B)	(\$3.35B)	\$77.95B
USMC	Principal U.S. Mega-Cap ETF	(\$0.21B)	(\$0.15B)	(\$0.15B)	(\$0.14B)	\$1.98B
VOO	Vanguard S&P 500 ETF	(\$0.17B)	\$12.01B	\$23.97B	\$43.02B	\$277.81B
PSC	Principal U.S. Small-Cap Multi-Factor ETF	(\$0.17B)	(\$0.19B)	(\$0.17B)	\$0.35B	\$1.50B
ITOT	iShares Core S&P Total U.S. Stock Market ETF	(\$0.17B)	\$1.41B	\$2.60B	\$5.67B	\$45.97B
IWB	iShares Russell 1000 ETF	(\$0.09B)	(\$1.09B)	(\$0.80B)	(\$0.74B)	\$31.52B
SPLV	Invesco S&P 500 Low Volatility ETF	(\$0.07B)	\$0.06B	(\$0.26B)	(\$1.27B)	\$8.35B
USMV	iShares MSCI USA Min Vol Factor ETF	(\$0.05B)	\$0.41B	(\$0.55B)	(\$8.78B)	\$29.29B

\* 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)
XLP	Consumer Staples Select Sector SPDR Fund	-1.68%	13.68%	1.04%	2.59%	47.39
SPY	SPDR S&P 500 ETF Trust	-2.29%	25.86%	1.53%	6.97%	44.12
XLRE	Real Estate Select Sector SPDR Fund	-2.71%	36.34%	1.70%	7.84%	47.77
XLK	Technology Select Sector SPDR Fund	-3.11%	33.54%	3.97%	12.30%	51.89
XLY	Consumer Discretionary Select Sector SPDR Fund	-3.48%	30.96%	4.64%	13.32%	51.06
XLV	Health Care Select Sector SPDR Fund	-3.57%	19.11%	0.86%	4.49%	46.73
XLI	Industrial Select Sector SPDR Fund	-3.65%	21.75%	-0.04%	1.36%	37.08
XLB	Materials Select Sector SPDR Fund	-4.11%	23.43%	2.02%	3.89%	44.14
XLF	Financial Select Sector SPDR Fund	-4.55%	37.82%	-1.33%	4.53%	38.99
XLU	Utilities Select Sector SPDR Fund	-4.72%	14.39%	0.94%	1.85%	47.61
XLE	Energy Select Sector SPDR Fund	-6.02%	48.25%	-0.67%	6.83%	43.82
XLC	Communication Services Select Sector SPDR Fund	-10.31%	18.59%	-4.14%	-2.79%	28.65

### Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
IBB	iShares Biotechnology ETF	0.98%
IHE	iShares U.S. Pharmaceuticals ETF	0.20%
FXH	First Trust Health Care AlphaDEX Fund	-0.04%
FBT	First Trust NYSE Arca Biotechnology Index Fund	-0.18%
XLV	Health Care Select Sector SPDR Fund	-0.37%
IYH	iShares U.S. Healthcare ETF	-0.47%
JHMH	John Hancock Multifactor Healthcare ETF	-0.60%
VHT	Vanguard Health Care ETF	-0.65%
FHLC	Fidelity MSCI Health Care Index ETF	-0.72%
PBE	Invesco Dynamic Biotechnology & Genome ETF	-0.76%

### Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
XHB	SPDR S&P Homebuilders ETF	59.29
ITB	iShares U.S. Home Construction ETF	58.76
SOXX	iShares Semiconductor ETF	56.20
SOXQ	Invesco PHLX Semiconductor ETF	56.06
PRN	Invesco DWA Industrials Momentum ETF	55.94
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	55.83
PKB	Invesco Dynamic Building & Construction ETF	54.94
PSI	Invesco Dynamic Semiconductors ETF	53.66
XSD	SPDR S&P Semiconductor ETF	53.40
FTXL	First Trust Nasdaq Semiconductor ETF	53.37

### Sector & Industry 1 Day Performance Laggards

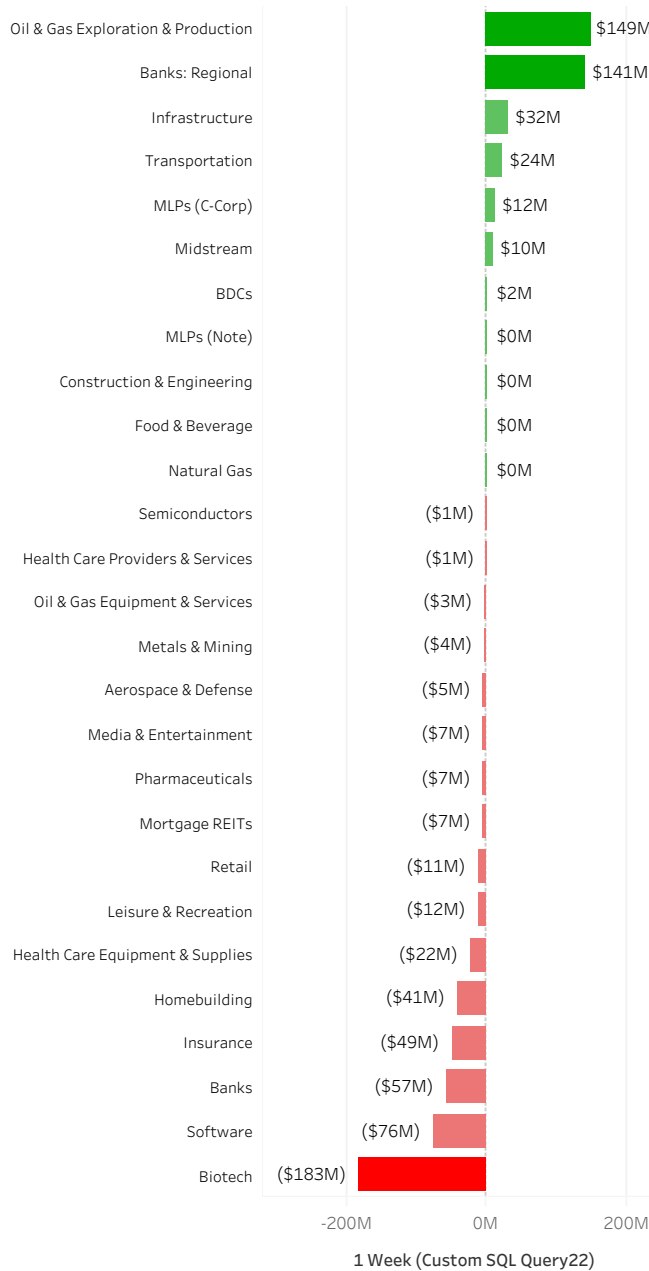
Ticker	Fund	1 Day Performance
PXI	Invesco DWA Energy Momentum ETF	-6.88%
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	-6.56%
PSCE	Invesco S&P SmallCap Energy ETF	-6.33%
FCG	First Trust Natural Gas ETF	-6.07%
PXE	Invesco Dynamic Energy Exploration & Production ETF	-5.94%
FTXN	First Trust Nasdaq Oil & Gas ETF	-5.71%
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	-5.45%
IEZ	iShares U.S. Oil Equipment & Services ETF	-5.31%
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-5.20%
KBWR	Invesco KBW Regional Banking ETF	-5.11%

### Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
PEJ	Invesco Dynamic Leisure & Entertainment ETF	23.38
ITA	iShares U.S. Aerospace & Defense ETF	27.09
PPA	Invesco Aerospace & Defense ETF	27.32
XHE	SPDR S&P Health Care Equipment ETF	27.56
XAR	SPDR S&P Aerospace & Defense ETF	27.78
VOX	Vanguard Communication Services ETF	28.29
XLC	Communication Services Select Sector SPDR Fund	28.65
XHS	SPDR S&P Health Care Services ETF	28.76
FCOM	Fidelity MSCI Communication Services Index ETF	28.77
XSW	SPDR S&P Software & Services ETF	28.92

\* 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	\$20B	(\$34M)	(\$274M)	\$1,264M	\$1,425M
Consumer Discretionary	13	\$39B	\$109M	\$984M	\$448M	\$3,188M
Consumer Staples	12	\$21B	\$64M	(\$1,354M)	\$598M	(\$3,219M)
Energy	34	\$56B	\$481M	\$1,405M	(\$582M)	\$9,541M
Financials	28	\$85B	\$307M	\$1,296M	(\$1,081M)	\$20,979M
Health Care	26	\$89B	(\$462M)	(\$552M)	\$4,205M	\$3,382M
Industrial	14	\$36B	(\$299M)	(\$2,051M)	(\$4,560M)	\$664M
Materials	10	\$17B	\$19M	(\$616M)	(\$1,784M)	\$4,066M
Multi-Sector	17	\$26B	(\$2M)	\$1,037M	\$836M	\$3,892M
Real Estate	22	\$81B	\$385M	\$4,268M	\$8,345M	\$13,633M
Technology	24	\$157B	(\$23M)	\$3,211M	\$5,834M	\$4,398M
Utilities	10	\$20B	(\$132M)	(\$717M)	\$706M	\$45M

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

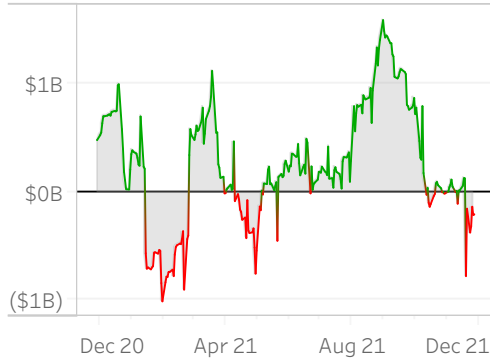
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLE	Energy Select Sector SPDR Fund	\$353M	\$620M	(\$88M)	\$6,208M	\$27,031M
XLF	Financial Select Sector SPDR Fund	\$232M	(\$7M)	(\$1,853M)	\$10,453M	\$44,809M
XLK	Technology Select Sector SPDR Fund	\$221M	(\$128M)	\$1,115M	(\$592M)	\$49,706M
VNQ	Vanguard Real Estate ETF	\$154M	\$1,106M	\$2,858M	\$6,964M	\$47,451M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	\$153M	(\$146M)	(\$929M)	(\$466M)	\$3,665M
XLRE	Real Estate Select Sector SPDR Fund	\$152M	\$801M	\$1,890M	\$2,241M	\$5,419M
KRE	SPDR S&P Regional Banking ETF	\$138M	\$223M	(\$483M)	\$2,463M	\$5,439M
XLY	Consumer Discretionary Select Sector SPDR Fu..	\$135M	\$1,192M	\$334M	\$860M	\$24,072M
VHT	Vanguard Health Care ETF	\$102M	\$302M	\$1,113M	\$2,003M	\$16,669M
IYR	iShares U.S. Real Estate ETF	\$64M	\$1,274M	\$1,695M	\$926M	\$7,059M

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

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLV	Health Care Select Sector SPDR Fund	(\$338M)	(\$358M)	\$2,817M	\$3,045M	\$32,406M
XLI	Industrial Select Sector SPDR Fund	(\$334M)	(\$1,843M)	(\$3,387M)	(\$1,444M)	\$17,737M
XLU	Utilities Select Sector SPDR Fund	(\$146M)	(\$818M)	\$387M	(\$305M)	\$12,483M
XBI	SPDR S&P BIOTECH ETF	(\$140M)	(\$281M)	\$492M	\$773M	\$6,794M
KBWB	Invesco KBW Bank ETF	(\$83M)	(\$96M)	\$173M	\$1,002M	\$3,063M
XHB	SPDR S&P Homebuilders ETF	(\$80M)	\$74M	(\$265M)	\$4M	\$2,121M
IGV	iShares Expanded Tech-Software Sector ETF	(\$77M)	\$468M	\$163M	(\$988M)	\$5,934M
VOX	Vanguard Communication Services ETF	(\$62M)	(\$148M)	\$406M	\$535M	\$4,293M
KIE	SPDR S&P Insurance ETF	(\$49M)	(\$14M)	\$41M	\$61M	\$492M
IBB	iShares Biotechnology ETF	(\$31M)	(\$303M)	(\$432M)	(\$457M)	\$9,849M

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

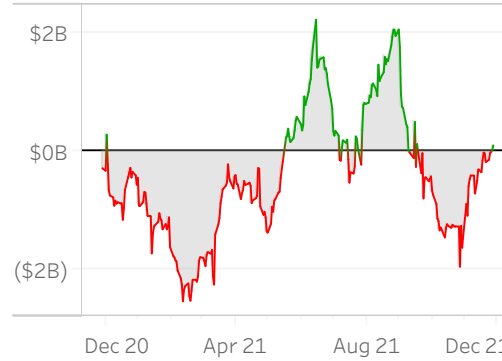
Communication Services



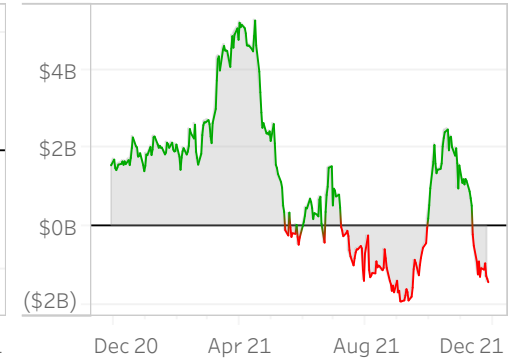
Consumer Discretionary



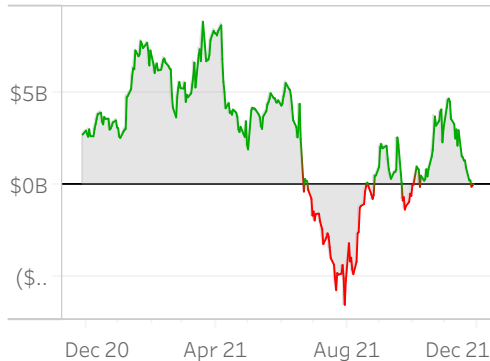
Consumer Staples



Energy



Financials



Industrial



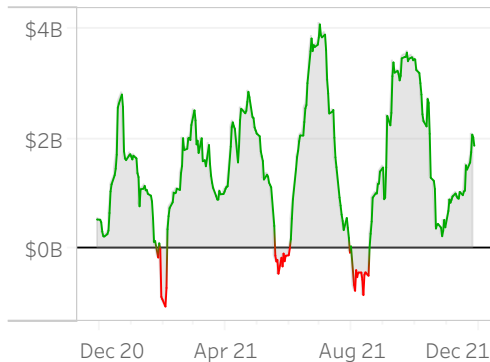
Health Care



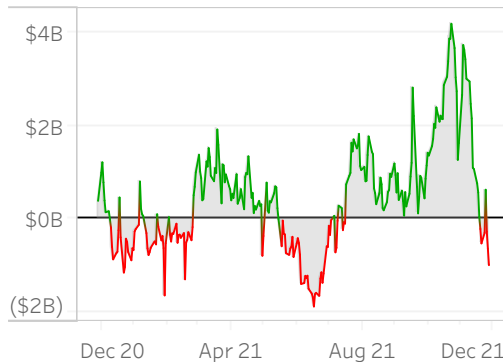
Materials



Real Estate



Technology



Utilities

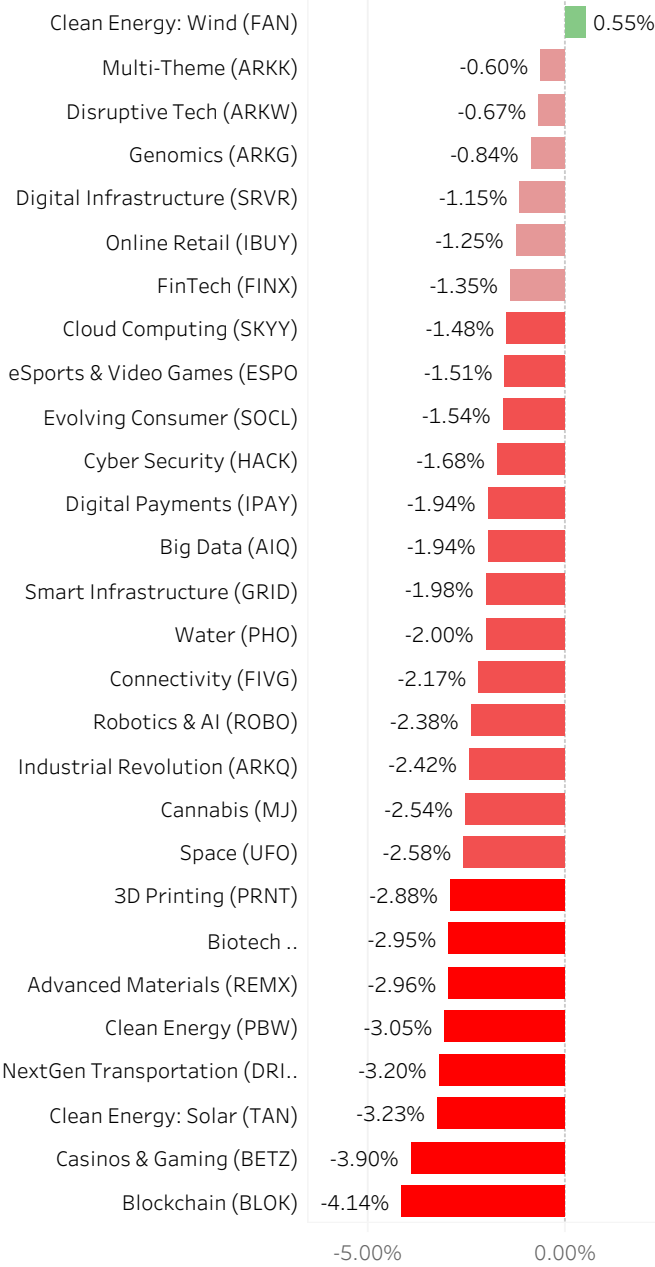


Multi-Sector

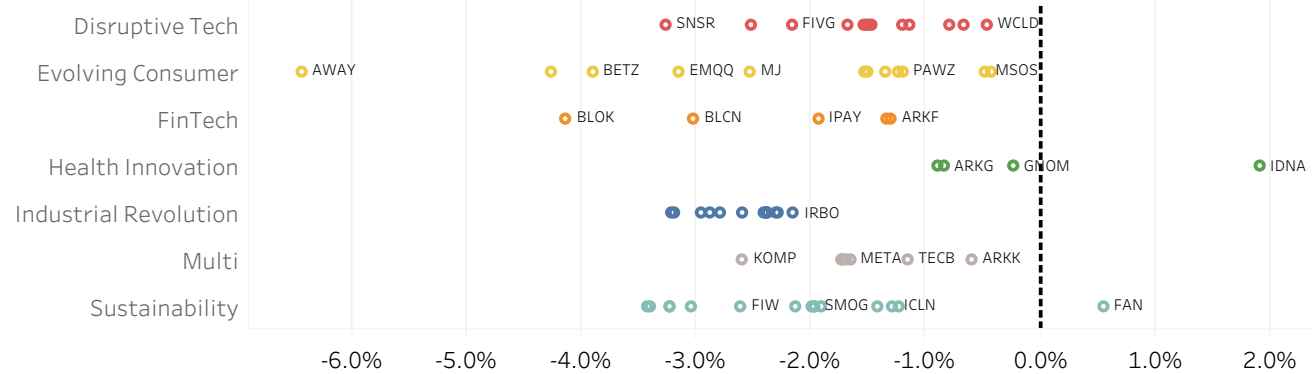


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## Global Thematic Segment 1-Day Performance



## Global Thematic 1-Day Performance Landscape



## Global Thematic 1-Day Performance Leaders

Ticker	Fund	Performance
<b>GERM</b>	ETFMG Treatments Testing and Advancements ETF	5.04%
<b>IDNA</b>	iShares Genomics Immunology and Healthcare ETF Geno..	1.91%
<b>FAN</b>	First Trust Global Wind Energy ETF	0.55%
<b>GNOM</b>	Global X Genomics & Biotechnology ETF	-0.24%
<b>HERO</b>	Global X Video Games & Esports ETF	-0.43%
<b>WCLD</b>	WisdomTree Cloud Computing Fund	-0.47%
<b>MSOS</b>	AdvisorShares Pure US Cannabis ETF	-0.49%
<b>ARKK</b>	ARK Innovation ETF	-0.60%
<b>ARKW</b>	ARK Next Generation Internet ETF	-0.67%
<b>KGRN</b>	KraneShares MSCI China Clean Technology Index ETF	-0.77%

## Thematic Most Overbought

Ticker	Fund	Value
<b>GERM</b>	ETFMG Treatments Testing and Advancements ETF	60.04
<b>KSTR</b>	KraneShares SSE STAR Market 50 Index ETF	58.97
<b>REMX</b>	VanEck Rare Earth/Strategic Metals ETF	54.89
<b>FIVG</b>	Defiance Next Gen Connectivity ETF	53.59
<b>VPN</b>	Global X Data Center REITs & Digital Infrastructure ETF	52.71
<b>KGRN</b>	KraneShares MSCI China Clean Technology Index ETF	52.25
<b>ESPO</b>	VanEck Video Gaming and eSports ETF	51.52
<b>META</b>	Roundhill Ball Metaverse ETF	51.28
<b>IDRV</b>	iShares Self-driving EV & Tech ETF	49.89
<b>LIT</b>	Global X Lithium & Battery Tech ETF	49.74

## Global Thematic 1-Day Performance Laggards

Ticker	Fund	Performance
<b>AWAY</b>	ETFMG Travel Tech ETF	-6.44%
<b>BKCH</b>	Global X Blockchain ETF	-5.27%
<b>BJK</b>	VanEck Gaming ETF	-5.10%
<b>DAPP</b>	VanEck Digital Transformation ETF	-4.89%
<b>BITQ</b>	Bitwise Crypto Industry Innovators ETF	-4.76%
<b>CRPT</b>	First Trust SkyBridge Crypto Industry and Digital Econo..	-4.29%
<b>KWEB</b>	KraneShares CSI China Internet ETF	-4.27%
<b>BLOK</b>	Amplify Transformational Data Sharing ETF	-4.14%
<b>HAIL</b>	SPDR S&P Kensho Smart Mobility ETF	-4.01%
<b>BETZ</b>	Roundhill Sports Betting & iGaming ETF	-3.90%

## Thematic Most Oversold

Ticker	Fund	Value
<b>BETZ</b>	Roundhill Sports Betting & iGaming ETF	15.70
<b>BJK</b>	VanEck Gaming ETF	18.49
<b>AGNG</b>	Global X Aging Population ETF	22.01
<b>AWAY</b>	ETFMG Travel Tech ETF	22.40
<b>UFO</b>	Procore Space ETF	23.11
<b>EDOC</b>	Global X Telemedicine & Digital Health ETF	25.14
<b>BTEC</b>	Principal Healthcare Innovators ETF	25.85
<b>IPAY</b>	ETFMG Prime Mobile Payments ETF	27.25
<b>ARKG</b>	ARK Genomic Revolution ETF	28.49
<b>IZRL</b>	ARK Israel Innovative Technology ETF	28.96

\* 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
META	Roundhill Ball Metaverse ETF	\$145M
LIT	Global X Lithium & Battery Tech ETF	\$100M
BUG	Global X Cybersecurity ETF	\$41M
DRIV	Global X Autonomous & Electric Vehicles ETF	\$39M
SARK	Tuttle Capital Short Innovation ETF	\$35M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$26M
IDRV	iShares Self-driving EV & Tech ETF	\$22M
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	\$20M
CIBR	First Trust NASDAQ Cybersecurity ETF	\$16M
BKCH	Global X Blockchain ETF	\$15M

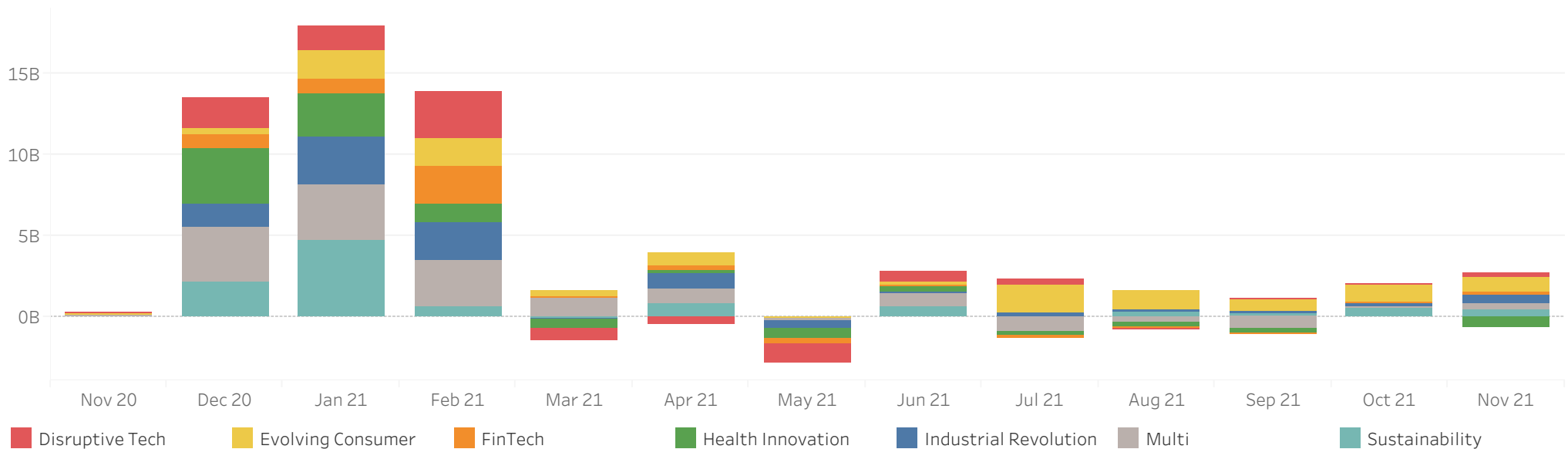
### Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
ARKG	ARK Genomic Revolution ETF	(\$166M)
KWEB	KraneShares CSI China Internet ETF	(\$105M)
ARKF	ARK Fintech Innovation ETF	(\$68M)
ARKW	ARK Next Generation Internet ETF	(\$64M)
TAN	Invesco Solar ETF	(\$40M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$34M)
ICLN	iShares Global Clean Energy ETF	(\$31M)
IBUY	Amplify Online Retail ETF	(\$26M)
GINN	Goldman Sachs ETF Trust Goldman Sachs Innovate Equity ETF	(\$22M)
EDOC	Global X Telemedicine & Digital Health ETF	(\$21M)

### Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	36	\$30B	(\$9M)	\$272M	\$1,162M	\$5,251M
Evolving Consumer	43	\$18B	(\$139M)	\$2,907M	\$5,850M	\$10,864M
FinTech	16	\$8B	(\$20M)	\$88M	\$1M	\$4,280M
Health Innovation	16	\$8B	(\$104M)	(\$867M)	(\$1,051M)	\$5,240M
Industrial Revolution	24	\$19B	\$110M	\$930M	\$1,412M	\$8,290M
Multi	28	\$28B	\$247M	(\$131M)	(\$535M)	\$10,951M
Sustainability	36	\$26B	\$22M	\$1,281M	\$2,228M	\$10,778M
<b>Grand Total</b>	<b>199</b>	<b>\$136B</b>	<b>\$107M</b>	<b>\$4,480M</b>	<b>\$9,068M</b>	<b>\$55,652M</b>

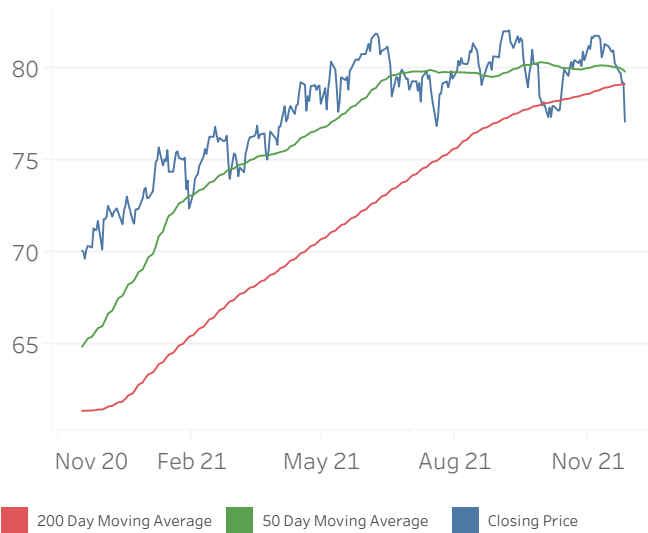
### Thematic Monthly Flows



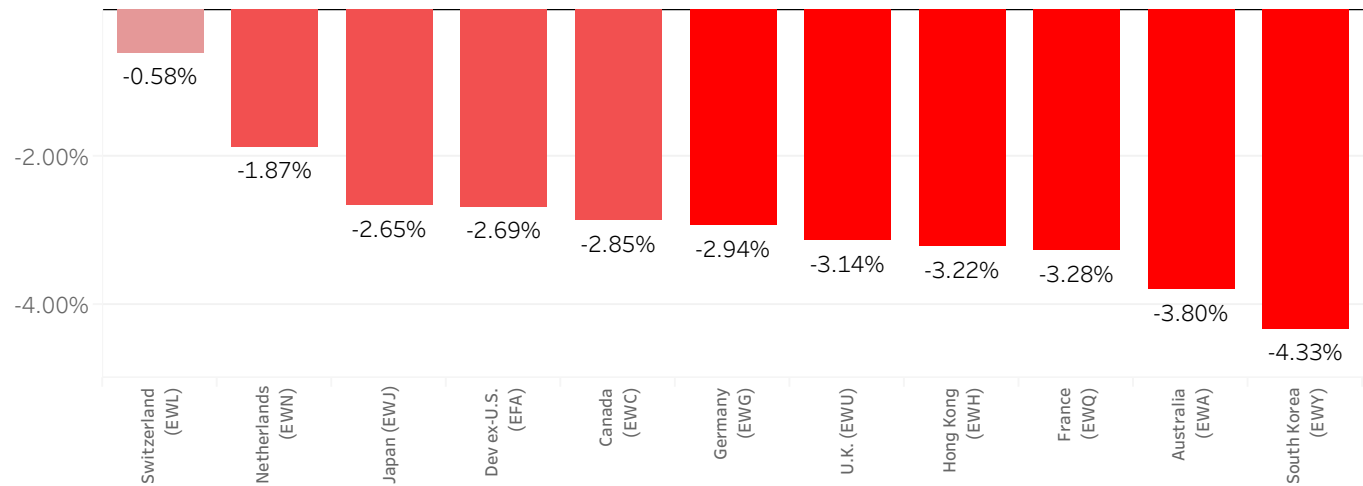
\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



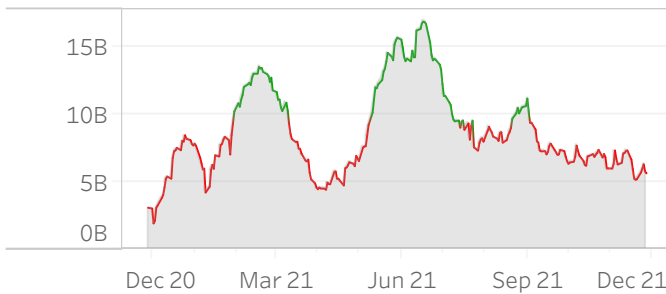
Developed ex-U.S. (EFA)



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



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



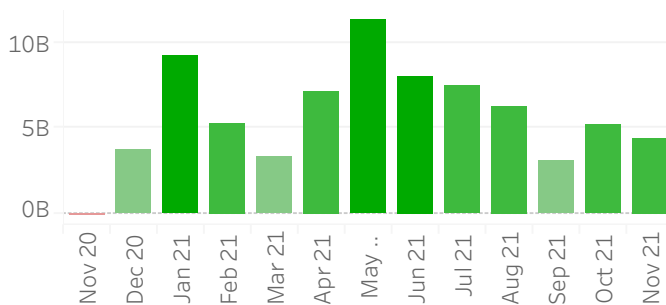
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
EDEN	iShares MSCI Denmark ETF	-0.10%
PIZ	Invesco DWA Developed Markets Momentum ETF	-0.12%
FSZ	First Trust Switzerland AlphaDEX Fund	-0.43%
EWL	iShares MSCI Switzerland ETF	-0.58%
EFAV	iShares MSCI EAFE Min Vol Factor ETF	-1.00%
EFAV	ProShares MSCI EAFE Dividend Growers ETF	-1.27%
IDLV	Invesco S&P International Developed Low Volatility ETF	-1.37%
QLVD	FlexShares Developed Markets ex-US Quality Low Volatility I..	-1.39%
RBIN	Nationwide Risk-Based International Equity ETF	-1.48%
RFDI	First Trust Riverfront Dynamic Developed International ETF	-1.52%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
BBCA	JPMorgan BetaBuilders Canada ETF	40.78
EWL	iShares MSCI Switzerland ETF	40.36
EIS	iShares MSCI Israel ETF	37.78
EWC	iShares MSCI Canada ETF	37.72
PIZ	Invesco DWA Developed Markets Momentum ETF	36.77
LVHI	Legg Mason International Low Volatility High Dividend ETF	36.55
TOK	iShares MSCI Kokusai ETF	36.38
FSZ	First Trust Switzerland AlphaDEX Fund	36.21
RFDI	First Trust Riverfront Dynamic Developed International E..	34.24
FEUZ	First Trust Eurozone AlphaDEX ETF	33.75

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
DXJ	WisdomTree Japan Hedged Equity Fund	-4.63%
ENOR	iShares MSCI Norway ETF	-4.62%
GREK	Global X MSCI Greece ETF	-4.60%
HEWJ	iShares Currency Hedged MSCI Japan ETF	-4.49%
EWY	iShares MSCI South Korea ETF	-4.33%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	-4.17%
FLKR	Franklin FTSE South Korea ETF	-4.10%
EWI	iShares MSCI Italy ETF	-3.86%
EWA	iShares MSCI Australia ETF	-3.80%
FNDF	Schwab Fundamental International Large Co. Index ETF	-3.77%

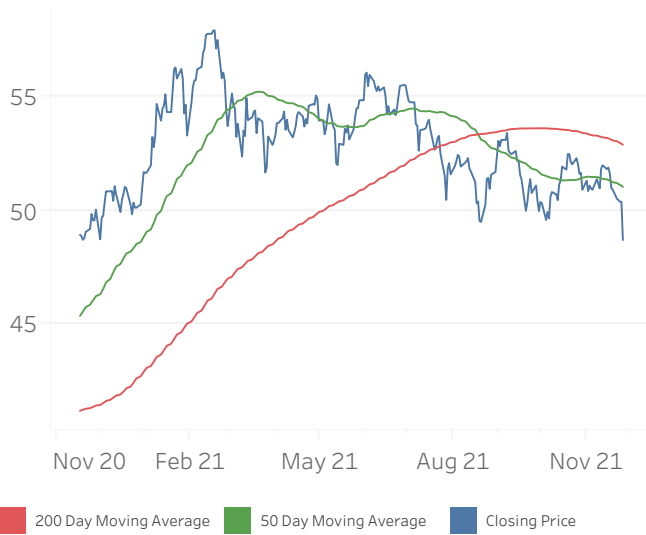
Developed ex-U.S. Most Oversold

Ticker	Fund	Value
EIRL	iShares MSCI Ireland ETF	18.80
DLS	WisdomTree International SmallCap Dividend Fund	21.22
FNDC	Schwab Fundamental International Small Co. Index ..	21.64
EWP	iShares MSCI Spain ETF	21.65
DIM	WisdomTree International MidCap Dividend Fund	21.87
AVDV	Avantis International Small Cap Value ETF	22.31
TLTD	FlexShares Morningstar Developed Markets ex-US F..	22.41
PDN	Invesco FTSE RAFI Developed Markets ex-US Small..	22.59
IMFL	Invesco International Developed Dynamic Multifact..	22.93
SCZ	iShares MSCI EAFE Small-Cap ETF	22.97

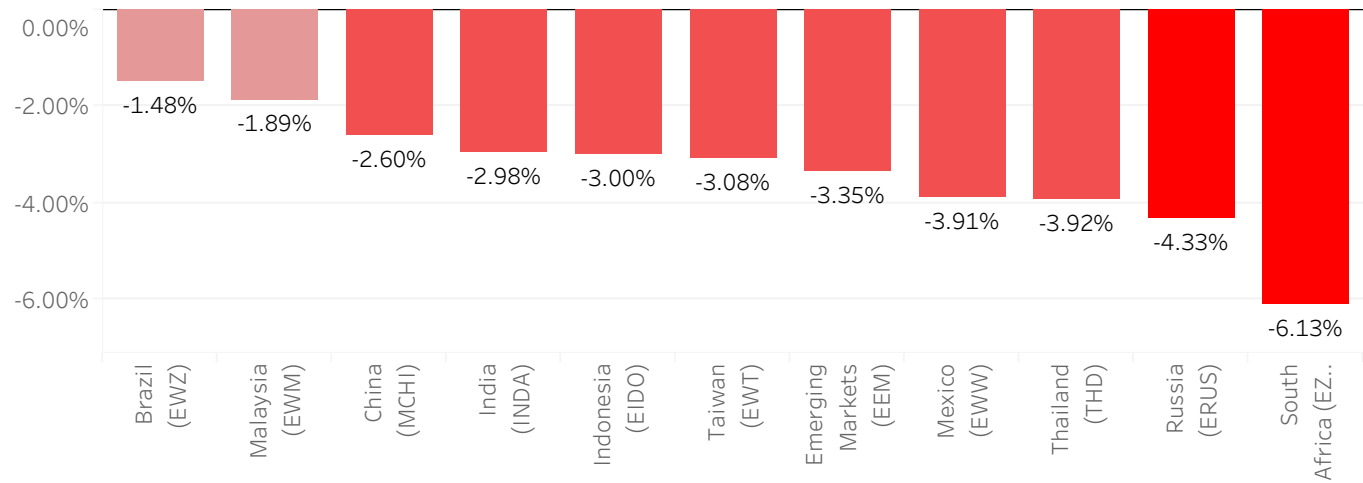
\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



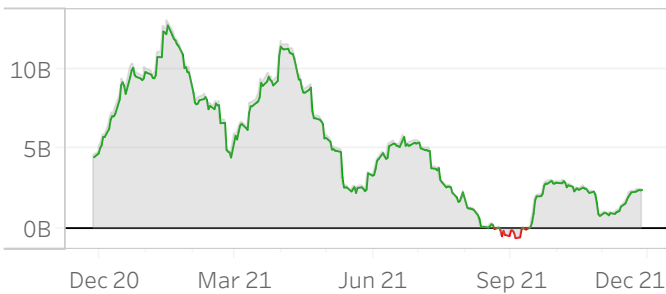
Emerging (EEM)



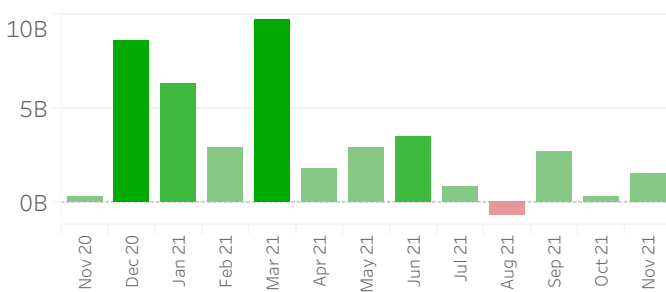
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
ECNS	iShares MSCI China Small-Cap ETF	-0.97%
KBA	KraneShares Boser MSCI China A Share ETF	-1.13%
CNYA	iShares MSCI China A ETF	-1.21%
EWZ	iShares MSCI Brazil ETF	-1.48%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	-1.60%
FLBR	Franklin FTSE Brazil ETF	-1.61%
GLIN	VanEck India Growth Leaders ETF	-1.61%
EWM	iShares MSCI Malaysia ETF	-1.89%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	-2.20%
GXC	SPDR S&P China ETF	-2.20%

Emerging Most Overbought

Ticker	Fund	Value
VNM	VanEck Vietnam ETF	59.15
ECH	iShares MSCI Chile ETF	51.40
CNYA	iShares MSCI China A ETF	48.47
KBA	KraneShares Boser MSCI China A Share ETF	48.02
ECNS	iShares MSCI China Small-Cap ETF	47.37
EPHE	iShares MSCI Philippines ETF	45.70
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	44.22
EWT	iShares MSCI Taiwan ETF	42.78
EWZ	iShares MSCI Brazil ETF	41.44
FLBR	Franklin FTSE Brazil ETF	40.74

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
EZA	iShares MSCI South Africa ETF	-6.13%
NFTY	First Trust India NIFTY 50 Equal Weight ETF	-4.45%
ERUS	iShares MSCI Russia ETF	-4.33%
EPOL	iShares MSCI Poland ETF	-4.31%
TUR	iShares MSCI Turkey ETF	-4.27%
RSX	VanEck Russia ETF	-4.19%
FNI	First Trust Chindia ETF	-4.17%
KSA	iShares MSCI Saudi Arabia ETF	-4.10%
THD	iShares MSCI Thailand ETF	-3.92%
MFEM	PIMCO RAFI Dynamic Multi-Factor Emerging Markets Eq.	-3.92%

Emerging Most Oversold

Ticker	Fund	Value
EPOL	iShares MSCI Poland ETF	17.38
EWW	iShares MSCI Mexico ETF	18.11
AFK	VanEck Africa Index ETF	21.64
EWM	iShares MSCI Malaysia ETF	22.22
LDEM	iShares ESG MSCI EM Leaders ETF	23.68
XCEM	Columbia EM Core ex-China ETF	23.99
EZA	iShares MSCI South Africa ETF	24.45
KSA	iShares MSCI Saudi Arabia ETF	25.81
ESGE	iShares ESG Aware MSCI EM ETF	26.17
EEM	iShares MSCI Emerging Markets ETF	26.18

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

### 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	0.71%	0.28%	-1.63%
SHY	1-3 Year Treasury Bonds	0.20%	-0.02%	-0.47%
IEF	7-10 Year Treasury Bonds	1.29%	1.06%	-3.18%
TLT	20+ Year Treasury Bonds	2.53%	3.88%	-3.32%
TIP	TIPS Bonds	0.50%	0.34%	5.39%
FLOT	Floating Rate Bonds	-0.02%	-0.11%	0.36%
LQD	Investment Grade Corporate	0.81%	0.00%	-2.09%
HYG	High Yield Corporate	-0.72%	-1.46%	1.23%
BKLN	Senior Loan	-0.46%	-0.74%	0.90%
PFF	Preferred & Income Securities	-0.75%	-1.85%	3.58%
MUB	Municipal Bonds	0.17%	0.83%	0.82%
MBB	MBS	0.47%	-0.25%	-1.34%
EMB	Dollar Denominated EM Bonds	-1.11%	-2.64%	-5.11%
LEMB	Local Currency EM Bond	-0.47%	-4.09%	-10.81%

### Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-3.92%	-6.10%	32.15%
DBE	Energy	-9.60%	-13.52%	49.35%
USO	WTI Crude Oil	-11.18%	-15.09%	50.35%
BNO	Brent Crude Oil	-10.54%	-14.63%	50.85%
UNG	Natural Gas	4.43%	-12.54%	89.57%
UGA	Gasoline	-11.34%	-16.13%	51.43%
DBP	Precious Metals	-0.50%	-1.41%	-8.95%
GLD	Gold	-0.16%	-0.49%	-6.45%
SLV	Silver	-1.93%	-4.47%	-13.02%
PPLT	Platinum	-2.64%	-6.99%	-11.57%
PALL	Palladium	-4.89%	-11.79%	-28.53%
DBB	Base Metals	-3.74%	-5.19%	20.63%
CPER	Copper	-3.81%	-4.44%	20.93%
LD	Lead	0.48%	-6.39%	16.20%
JJN	Nickel	-4.54%	-0.84%	19.93%
JJU	Aluminum	-4.38%	-7.77%	28.80%
JJT	Tin	-2.55%	5.00%	121.68%
DBA	Agriculture	-1.43%	3.74%	23.73%
CORN	Corn	1.30%	6.73%	40.44%
SOYB	Soybeans	-0.97%	0.38%	11.78%
WEAT	Wheat	-1.47%	9.55%	29.73%
CANE	Sugar	-3.12%	-1.17%	38.22%
BAL	Cotton	-3.97%	5.71%	40.78%
NIB	Cocoa	-4.69%	-10.47%	-12.48%
JO	Coffee	-1.77%	14.01%	74.96%

### Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.77%	2.22%	6.31%
UDN	Short Dollar	0.70%	-2.47%	-7.40%
FXE	Euro	0.87%	-2.60%	-8.31%
FXB	British Pound Sterling	0.04%	-3.17%	-2.83%
FXF	Swiss Franc	1.18%	-0.50%	-5.15%
FXJ	Japanese Yen	2.08%	0.90%	-9.17%
FXC	Canadian Dollar	-0.96%	-3.13%	-0.84%
FXA	Australian Dollar	-1.02%	-5.09%	-7.93%

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

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