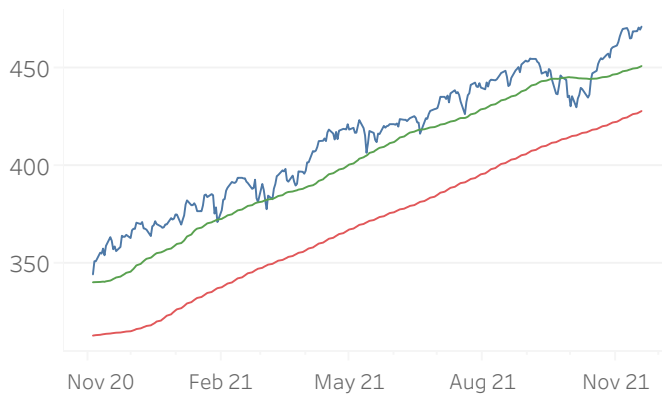
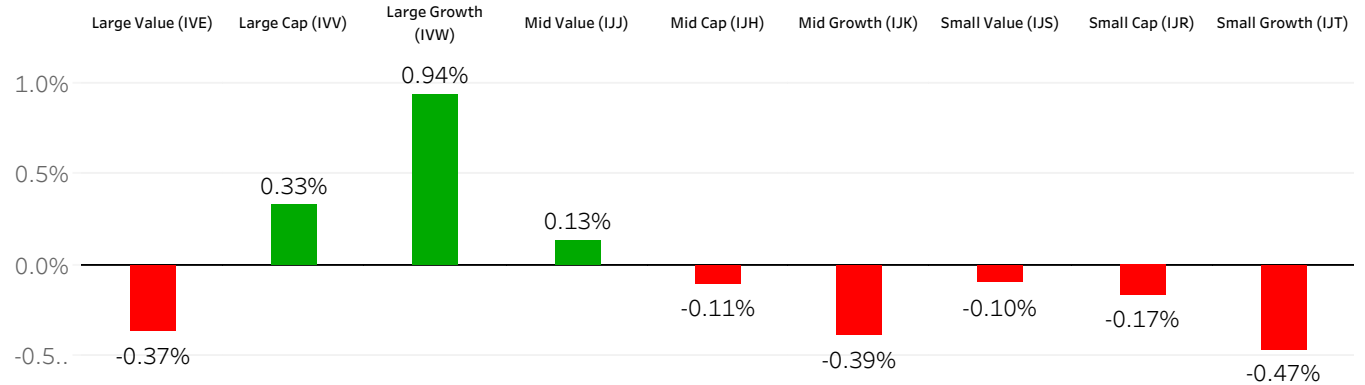


Large Cap Blend (S&P 500) IVV



U.S. Size & Style 1-Day Performance



Mid Cap Blend (S&P 400) IJH



Size & Style 1-Day Performance Leaders

Ticker	Fund	Performance
QVAL	Alpha Architect U.S. Quantitative Value ETF	1.78%
QQH	HCM Defender 100 Index ETF	1.44%
IWY	iShares Russell Top 200 Growth ETF	1.09%
TMFC	Motley Fool 100 Index ETF	1.05%
XSMO	Invesco S&P SmallCap Momentum ETF	1.04%
QQQ	Invesco QQQ Trust	1.04%
MGK	Vanguard Mega Cap Growth ETF	1.03%
QQQM	Invesco NASDAQ 100 ETF	1.03%
VOOG	Vanguard S&P 500 Growth ETF	0.97%
IVW	iShares S&P 500 Growth ETF	0.94%

Size & Style Most Overbought

Ticker	Fund	Price
SPUS	SP Funds S&P 500 Sharia Industry Exclusions ETF	76.71
SPYG	SPDR Portfolio S&P 500 Growth ETF	74.26
IUSG	iShares Core S&P U.S. Growth ETF	74.22
IVW	iShares S&P 500 Growth ETF	74.14
IWY	iShares Russell Top 200 Growth ETF	73.78
VOOG	Vanguard S&P 500 Growth ETF	73.74
EFIV	SPDR S&P 500 ESG ETF	73.22
HLAL	Wahed FTSE USA Shariah ETF	73.21
LEAD	Siren DIVCON Leaders Dividend ETF	72.62
FQAL	Fidelity Quality Factor ETF	72.48

Small Cap Blend (S&P 600) IJR



Size & Style 1-Day Performance Laggards

Ticker	Fund	Performance
JSML	Janus Henderson Small Cap Growth Alpha ETF	-1.61%
MFMS	Motley Fool Small-Cap Growth ETF	-1.54%
JSMD	Janus Henderson Small/Mid Cap Growth Alpha ETF	-1.16%
IWC	iShares Micro-Cap ETF	-1.08%
ISCG	iShares Morningstar Small-Cap Growth ETF	-1.03%
QQQJ	Invesco NASDAQ Next Gen 100 ETF	-1.01%
VBK	Vanguard Small-Cap Growth ETF	-0.96%
WBIY	WBI Power Factor High Dividend ETF	-0.95%
IPO	Renaissance IPO ETF	-0.90%
OSCV	Opus Small Cap Value ETF	-0.84%

Size & Style Most Oversold

Ticker	Fund	Price
MFMS	Motley Fool Small-Cap Growth ETF	37.21
DJD	Invesco Dow Jones Industrial Average Dividend ETF	44.37
WBIY	WBI Power Factor High Dividend ETF	44.87
DURA	VanEck Morningstar Durable Dividend ETF	45.07
GURU	Global X Guru Index ETF	45.21
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	46.57
SDOG	ALPS Sector Dividend Dogs ETF	47.11
PEY	Invesco High Yield Equity Dividend Achievers ETF	47.47
VBK	Vanguard Small-Cap Growth ETF	47.62
JSML	Janus Henderson Small Cap Growth Alpha ETF	47.71

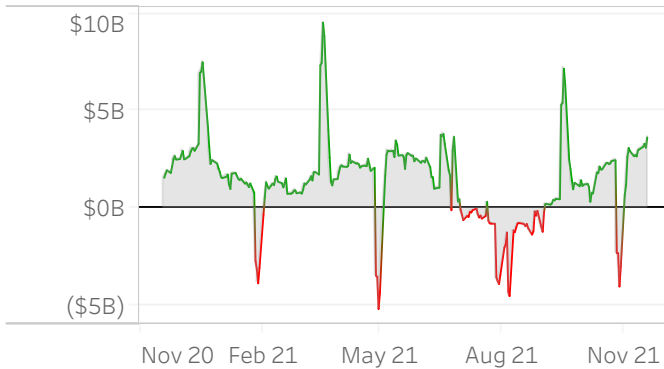
■ Closing Price
 ■ 50 Day Moving Average
 ■ 200 Day Moving Average

* 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	\$236B	\$1.05B	\$9.78B	\$10.87B	\$27.30B
Large Cap, Beta Growth, Beta: Value	11	\$211B	\$0.56B	\$5.73B	\$10.14B	\$32.30B
Small Cap, Beta, Beta: Growth	7	\$41B	\$0.27B	\$0.43B	\$0.51B	\$1.15B
Mid Cap, Beta, Beta: Growth	6	\$43B	\$0.23B	\$0.75B	\$0.41B	(\$1.79B)
Mid Cap, Beta, Beta	10	\$200B	\$0.23B	\$3.44B	\$3.48B	\$9.58B
Small Cap, Beta, Beta: Value	7	\$60B	\$0.04B	\$0.79B	\$0.29B	\$8.00B
Mid Cap, Beta, Beta: Value	6	\$43B	(\$0.01B)	\$0.51B	\$0.06B	\$4.18B
Large Cap, Beta Growth, Beta	24	\$1,373B	(\$0.17B)	\$44.57B	\$83.11B	\$102.92B
Large Cap, Beta Growth, Beta: Growth	10	\$278B	(\$0.52B)	\$2.35B	\$8.70B	\$4.94B

U.S. Size & Style Flow Leaders

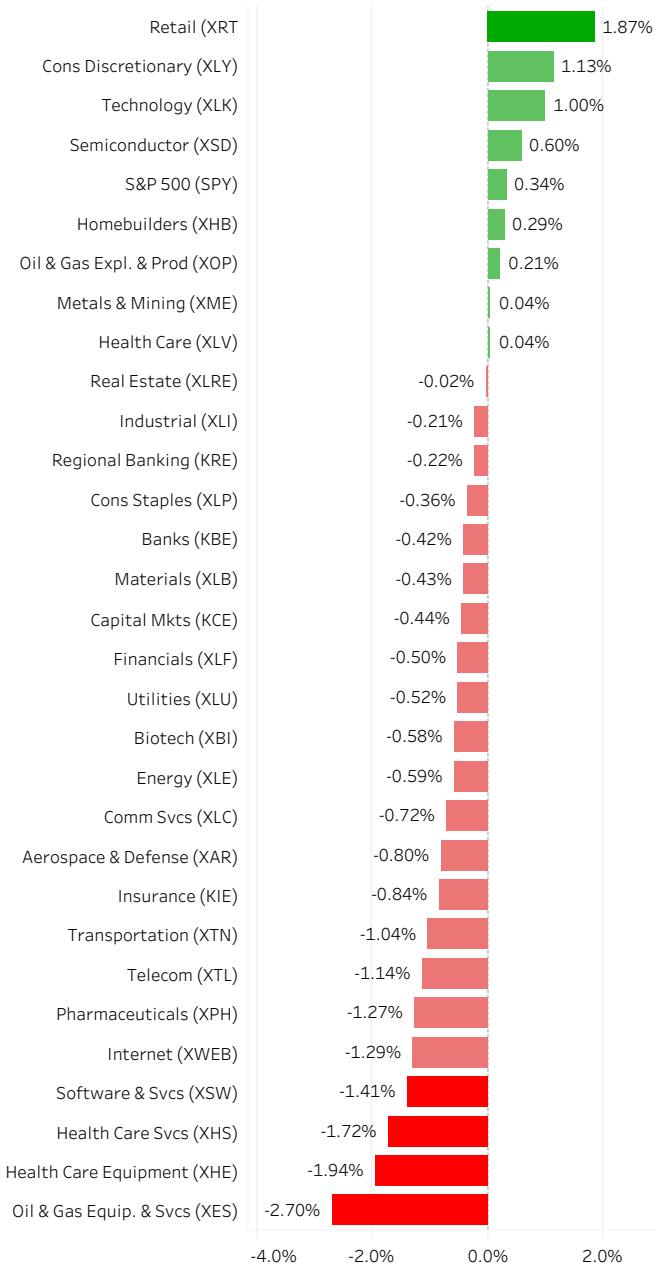
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VTI	Vanguard Total Stock Market ETF	\$1.51B	\$11.54B	\$22.11B	\$44.16B	\$292.50B
IVV	iShares Core S&P 500 ETF	\$1.41B	\$11.51B	\$13.85B	\$21.66B	\$326.42B
VOO	Vanguard S&P 500 ETF	\$0.76B	\$13.39B	\$25.06B	\$43.89B	\$276.99B
SPLV	Invesco S&P 500 Low Volatility ETF	\$0.74B	(\$0.45B)	\$0.52B	(\$1.09B)	\$9.07B
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.47B	(\$1.22B)	(\$1.47B)	(\$0.48B)	\$30.17B
IJR	iShares Core S&P Small Cap ETF	\$0.41B	\$2.54B	\$1.79B	\$5.08B	\$76.23B
VTV	Vanguard Value ETF	\$0.39B	\$3.11B	\$6.08B	\$15.94B	\$90.18B
VB	Vanguard Small-Cap ETF	\$0.38B	\$1.45B	\$2.81B	\$6.72B	\$51.43B
SPYG	SPDR Portfolio S&P 500 Growth ETF	\$0.31B	\$0.86B	\$2.66B	\$2.45B	\$15.66B
VBR	Vanguard Small Cap Value ETF	\$0.30B	\$1.12B	\$1.70B	\$4.39B	\$27.27B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VUG	Vanguard Growth ETF	(\$0.53B)	\$0.19B	\$2.22B	\$3.61B	\$90.41B
IWF	iShares Russell 1000 Growth ETF	(\$0.50B)	(\$0.87B)	(\$0.18B)	(\$2.85B)	\$78.31B
MTUM	iShares MSCI USA Momentum Factor ETF	(\$0.50B)	\$0.75B	\$0.29B	\$1.14B	\$16.37B
QQQ	Invesco QQQ Trust	(\$0.31B)	\$6.07B	\$15.40B	\$15.43B	\$207.19B
IWN	iShares Russell 2000 Value ETF	(\$0.29B)	(\$0.26B)	(\$1.23B)	\$1.23B	\$16.47B
MDY	SPDR S&P Midcap 400 ETF Trust	(\$0.20B)	(\$0.35B)	(\$0.99B)	(\$0.19B)	\$21.96B
SNPE	Xtrackers S&P 500 ESG ETF	(\$0.06B)	\$0.06B	\$0.14B	\$0.27B	\$0.81B
FVD	First Trust Value Line Dividend Index Fund	(\$0.05B)	\$0.09B	\$0.22B	\$0.60B	\$12.52B
DGRW	WisdomTree US Quality Dividend Growth Fund	(\$0.05B)	\$0.19B	\$0.47B	\$0.76B	\$6.81B
VLUE	iShares MSCI USA Value Factor ETF	(\$0.05B)	(\$0.66B)	(\$0.88B)	\$4.67B	\$15.74B

* 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%	28.81%	4.51%	10.06%	69.55
XLK	Technology Select Sector SPDR Fund	0.00%	36.82%	7.54%	15.81%	72.37
XLY	Consumer Discretionary Select Sector SPDR Fund	-0.36%	35.09%	9.67%	17.66%	71.70
XLRE	Real Estate Select Sector SPDR Fund	-0.53%	38.25%	3.50%	10.12%	61.12
XLI	Industrial Select Sector SPDR Fund	-0.80%	25.35%	3.40%	4.83%	59.19
XLP	Consumer Staples Select Sector SPDR Fund	-1.20%	14.23%	1.67%	3.40%	54.68
XLB	Materials Select Sector SPDR Fund	-1.81%	26.39%	5.16%	6.91%	60.95
XLV	Health Care Select Sector SPDR Fund	-2.24%	20.74%	2.21%	6.34%	57.38
XLF	Financial Select Sector SPDR Fund	-2.88%	40.24%	0.99%	7.03%	44.58
XLE	Energy Select Sector SPDR Fund	-3.80%	51.75%	3.31%	10.04%	48.74
XLU	Utilities Select Sector SPDR Fund	-4.50%	14.67%	1.13%	2.35%	51.82
XLC	Communication Services Select Sector SPDR Fund	-7.08%	22.86%	-1.48%	0.92%	43.20

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
PEZ	Invesco DWA Consumer Cyclical Momentum ETF	2.16%
XRT	SPDR S&P Retail ETF	1.87%
PBE	Invesco Dynamic Biotechnology & Genome ETF	1.87%
SOXQ	Invesco PHLX Semiconductor ETF	1.78%
PSCD	Invesco S&P SmallCap Consumer Discretionary ETF	1.69%
SOXX	iShares Semiconductor ETF	1.67%
FDIS	Fidelity MSCI Consumer Discretionary Index ETF	1.20%
VCR	Vanguard Consumer Discretionary ETF	1.15%
XLY	Consumer Discretionary Select Sector SPDR Fund	1.13%
XLK	Technology Select Sector SPDR Fund	1.00%

Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	76.66
FTXL	First Trust Nasdaq Semiconductor ETF	75.57
PSI	Invesco Dynamic Semiconductors ETF	75.32
XHB	SPDR S&P Homebuilders ETF	74.78
SOXX	iShares Semiconductor ETF	74.30
ITB	iShares U.S. Home Construction ETF	74.16
SOXQ	Invesco PHLX Semiconductor ETF	74.07
XLK	Technology Select Sector SPDR Fund	72.37
PKB	Invesco Dynamic Building & Construction ETF	71.81
XLY	Consumer Discretionary Select Sector SPDR Fund	71.70

Sector & Industry 1 Day Performance Laggards

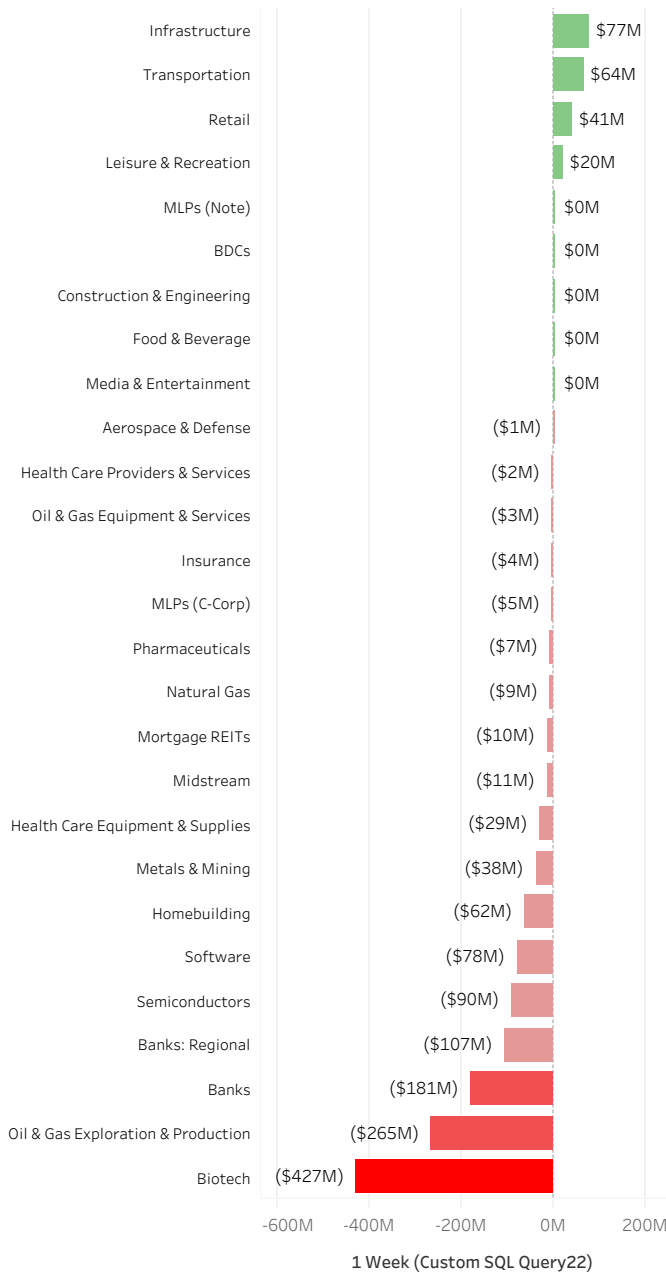
Ticker	Fund	1 Day Performance
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-2.70%
IEZ	iShares U.S. Oil Equipment & Services ETF	-2.39%
IYZ	iShares U.S. Telecommunications ETF	-1.97%
XHE	SPDR S&P Health Care Equipment ETF	-1.94%
PBS	Invesco Dynamic Media ETF	-1.86%
FTXR	First Trust Nasdaq Transportation ETF	-1.73%
XHS	SPDR S&P Health Care Services ETF	-1.72%
PTH	Invesco DWA Healthcare Momentum ETF	-1.53%
PSCE	Invesco S&P SmallCap Energy ETF	-1.52%
PEJ	Invesco Dynamic Leisure & Entertainment ETF	-1.47%

Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
XES	SPDR S&P Oil & Gas Equipment & Services ETF	32.85
ENFR	Alerian Energy Infrastructure ETF	33.16
IEZ	iShares U.S. Oil Equipment & Services ETF	34.51
FBT	First Trust NYSE Arca Biotechnology Index Fund	34.58
PEJ	Invesco Dynamic Leisure & Entertainment ETF	36.51
XHE	SPDR S&P Health Care Equipment ETF	37.54
AMLP	Alerian MLP ETF	37.69
MLPX	Global X MLP & Energy Infrastructure ETF	38.71
IBB	iShares Biotechnology ETF	38.82
XBI	SPDR S&P BIOTECH ETF	38.97

* 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	(\$314M)	\$464M	\$1,737M	\$1,879M
Consumer Discretionary	13	\$39B	(\$51M)	\$1,400M	\$139M	\$3,368M
Consumer Staples	12	\$21B	(\$22M)	(\$1,066M)	\$537M	(\$3,371M)
Energy	34	\$54B	(\$718M)	(\$57M)	(\$623M)	\$9,358M
Financials	28	\$85B	(\$738M)	\$2,013M	(\$538M)	\$22,356M
Health Care	26	\$90B	(\$383M)	\$974M	\$3,577M	\$3,699M
Industrial	14	\$36B	(\$263M)	(\$1,917M)	(\$4,259M)	\$1,274M
Materials	10	\$17B	(\$64M)	(\$849M)	(\$1,310M)	\$4,431M
Multi-Sector	17	\$27B	\$21M	\$1,066M	\$900M	\$4,020M
Real Estate	22	\$80B	\$114M	\$4,540M	\$7,999M	\$13,025M
Technology	24	\$156B	(\$444M)	\$3,068M	\$5,562M	\$3,528M
Utilities	10	\$20B	\$94M	(\$444M)	\$774M	\$47M

U.S. Sector & Industry Flow Leaders

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLRE	Real Estate Select Sector SPDR Fund	\$390M	\$722M	\$1,644M	\$2,000M	\$5,164M
IYW	iShares U.S. Technology ETF	\$127M	\$369M	\$837M	\$515M	\$9,682M
XTN	SPDR S&P Transportation ETF	\$91M	\$402M	\$240M	\$463M	\$991M
XLU	Utilities Select Sector SPDR Fund	\$77M	(\$549M)	\$484M	(\$247M)	\$12,511M
KBE	SPDR S&P Bank ETF	\$77M	\$123M	(\$429M)	\$269M	\$3,563M
IAT	iShares U.S. Regional Banks ETF	\$68M	\$95M	\$524M	\$904M	\$1,428M
XLV	Health Care Select Sector SPDR Fund	\$66M	\$321M	\$2,992M	\$3,428M	\$32,889M
PAVE	Global X U.S. Infrastructure Development ETF	\$56M	\$686M	\$1,356M	\$3,955M	\$5,377M
VCR	Vanguard Consumer Discretionary ETF	\$44M	\$303M	\$607M	\$1,599M	\$7,600M
XRT	SPDR S&P Retail ETF	\$41M	\$240M	\$315M	\$207M	\$1,221M

U.S. Sector & Industry Flow Laggards

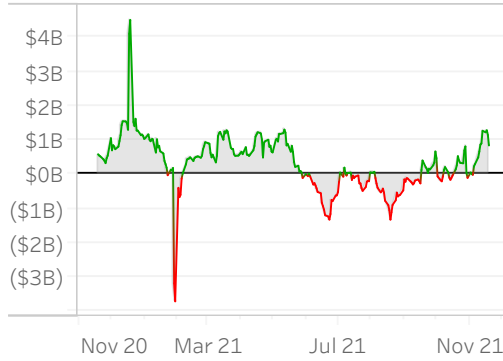
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLE	Energy Select Sector SPDR Fund	(\$447M)	\$224M	(\$114M)	\$6,239M	\$26,384M
XLF	Financial Select Sector SPDR Fund	(\$436M)	\$928M	(\$1,748M)	\$11,665M	\$44,776M
XBI	SPDR S&P BIOTECH ETF	(\$416M)	\$362M	\$459M	\$632M	\$7,080M
IYR	iShares U.S. Real Estate ETF	(\$331M)	\$1,330M	\$1,417M	\$896M	\$7,010M
XLC	Communication Services Select Sector SPDR Fu..	(\$314M)	\$327M	\$889M	\$782M	\$14,866M
XLI	Industrial Select Sector SPDR Fund	(\$262M)	(\$1,471M)	(\$2,926M)	(\$870M)	\$18,102M
KBWB	Invesco KBW Bank ETF	(\$258M)	(\$302M)	\$195M	\$1,158M	\$3,092M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	(\$249M)	(\$790M)	(\$991M)	(\$736M)	\$3,427M
XLK	Technology Select Sector SPDR Fund	(\$177M)	(\$113M)	\$935M	(\$972M)	\$48,886M
KRE	SPDR S&P Regional Banking ETF	(\$175M)	\$152M	(\$540M)	\$2,284M	\$5,245M

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

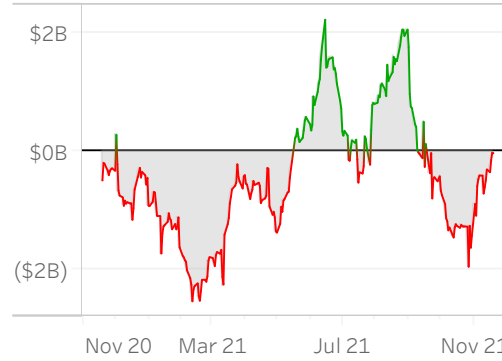
Communication Services



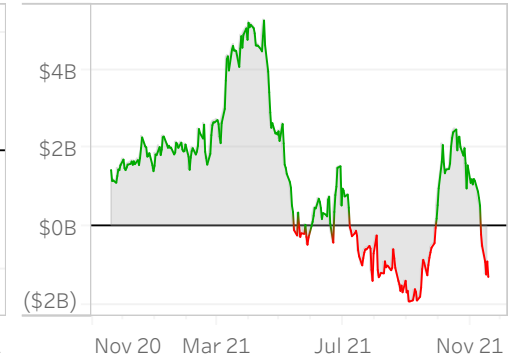
Consumer Discretionary



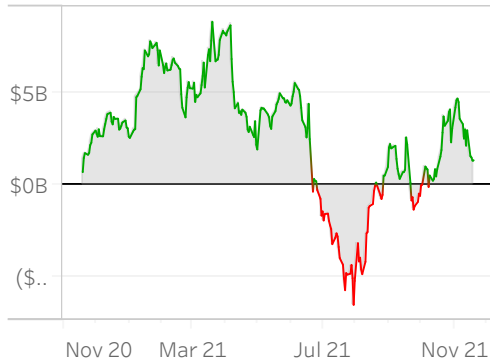
Consumer Staples



Energy



Financials



Industrial



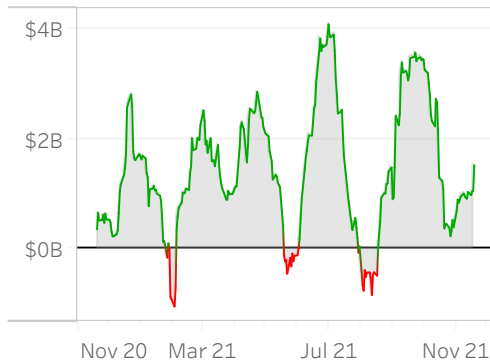
Health Care



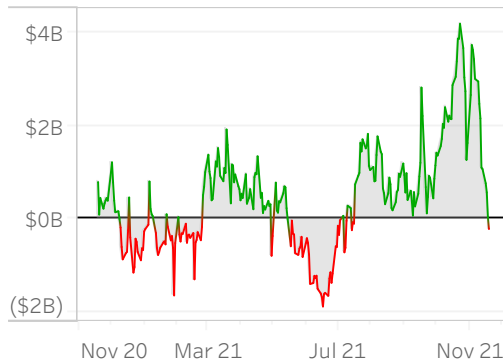
Materials



Real Estate



Technology



Utilities

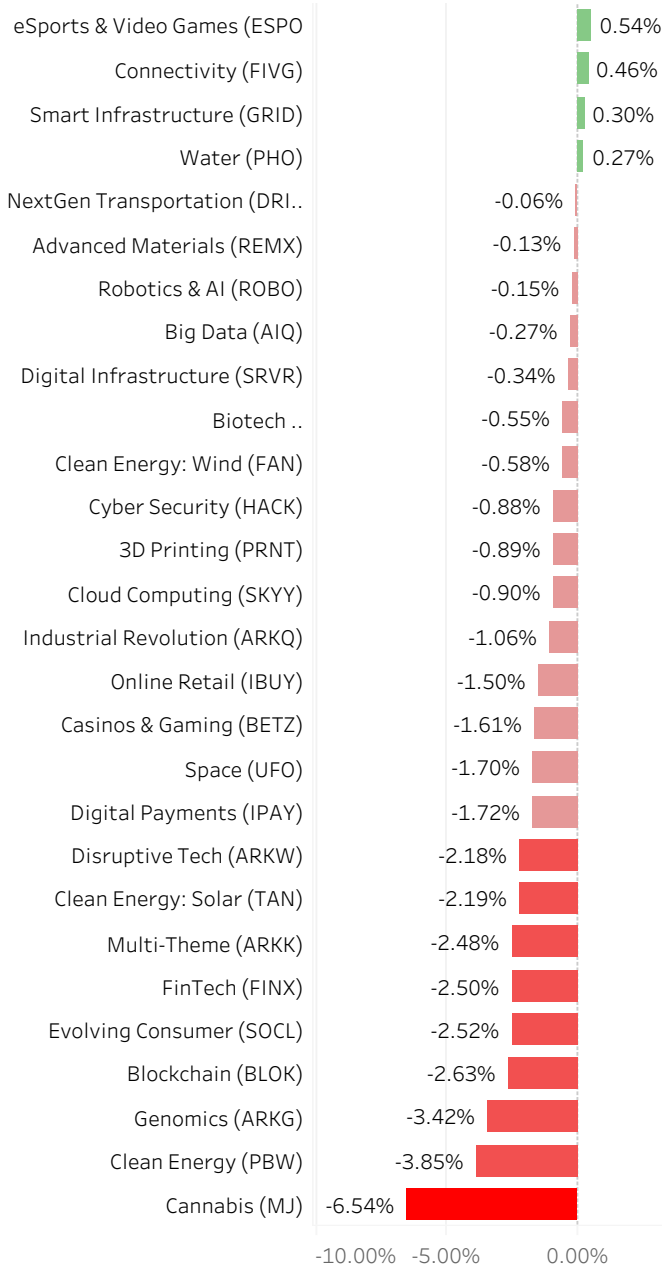


Multi-Sector

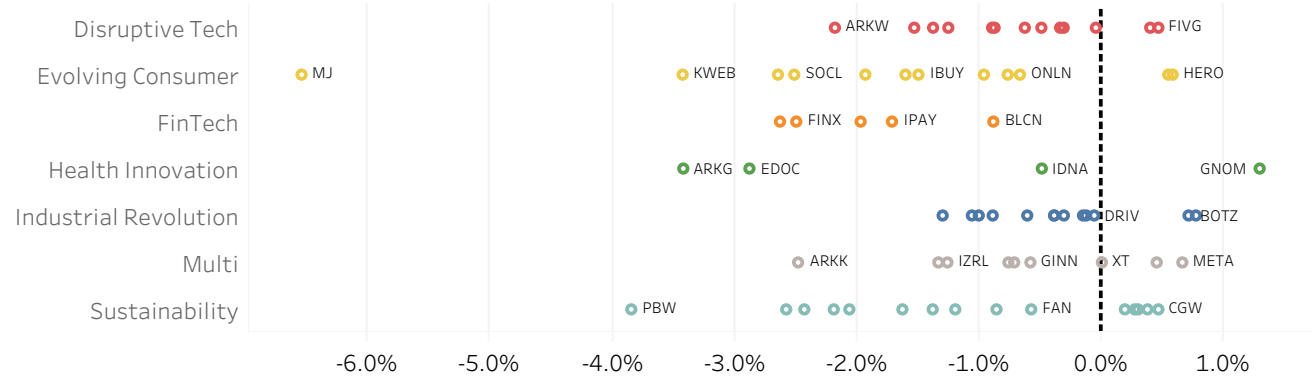


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	Performance
GNOM	Global X Genomics & Biotechnology ETF	1.29%
EBLU	Ecofin Global Water ESG Fund	0.98%
IDRV	iShares Self-driving EV & Tech ETF	0.77%
BOTZ	Global X Robotics & Artificial Intelligence ETF	0.71%
META	Roundhill Ball Metaverse ETF	0.66%
VPN	Global X Data Center REITs & Digital Infrastructure ETF	0.61%
HERO	Global X Video Games & Esports ETF	0.58%
ESPO	VanEck Video Gaming and eSports ETF	0.54%
CGW	Invesco S&P Global Water Index ETF	0.46%
FIVG	Defiance Next Gen Connectivity ETF	0.46%

Thematic Most Overbought

Ticker	Fund	Value
GAMR	Wedbush ETFMG Video Game Tech ETF	74.78
FIVG	Defiance Next Gen Connectivity ETF	74.30
META	Roundhill Ball Metaverse ETF	73.27
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure ..	73.08
IDRV	iShares Self-driving EV & Tech ETF	72.74
FIW	First Trust Water ETF	72.26
CGW	Invesco S&P Global Water Index ETF	71.02
SNSR	Global X Internet of Things ETF	70.80
EVX	VanEck Environmental Services ETF	69.68
EBLU	Ecofin Global Water ESG Fund	69.47

Global Thematic 1-Day Performance Laggards

Ticker	Fund	Performance
POTX	Global X Cannabis ETF	-8.05%
MJ	ETFMG Alternative Harvest ETF	-6.54%
THCX	Cannabis ETF	-6.33%
HDRO	Defiance Next Gen H2 ETF	-4.86%
BKCH	Global X Blockchain ETF	-4.77%
BITQ	Bitwise Crypto Industry Innovators ETF	-4.72%
DAPP	VanEck Digital Transformation ETF	-4.49%
CNBS	Amplify Seymour Cannabis ETF	-4.28%
YOLO	AdvisorShares Pure Cannabis ETF	-3.99%
PBW	Invesco WilderHill Clean Energy ETF	-3.85%

Thematic Most Oversold

Ticker	Fund	Value
BETZ	Roundhill Sports Betting & iGaming ETF	28.00
IPAY	ETFMG Prime Mobile Payments ETF	29.73
BJK	VanEck Gaming ETF	32.84
BTEC	Principal Healthcare Innovators ETF	32.88
ARKG	ARK Genomic Revolution ETF	33.52
UFO	Procore Space ETF	35.61
THCX	Cannabis ETF	36.25
FINX	Global X FinTech ETF	36.42
EDOC	Global X Telemedicine & Digital Health ETF	36.95
IDNA	iShares Genomics Immunology and Healthcare ETF Geno..	39.08

* 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	\$629M
MSOS	AdvisorShares Pure US Cannabis ETF	\$222M
META	Roundhill Ball Metaverse ETF	\$207M
LIT	Global X Lithium & Battery Tech ETF	\$155M
CIBR	First Trust NASDAQ Cybersecurity ETF	\$97M
ARKK	ARK Innovation ETF	\$53M
DRIV	Global X Autonomous & Electric Vehicles ETF	\$48M
BLOK	Amplify Transformational Data Sharing ETF	\$42M
GINN	Goldman Sachs ETF Trust Goldman Sachs Innovate Equity ETF	\$29M
KARS	KraneShares Electric Vehicles & Future Mobility Index ETF	\$22M

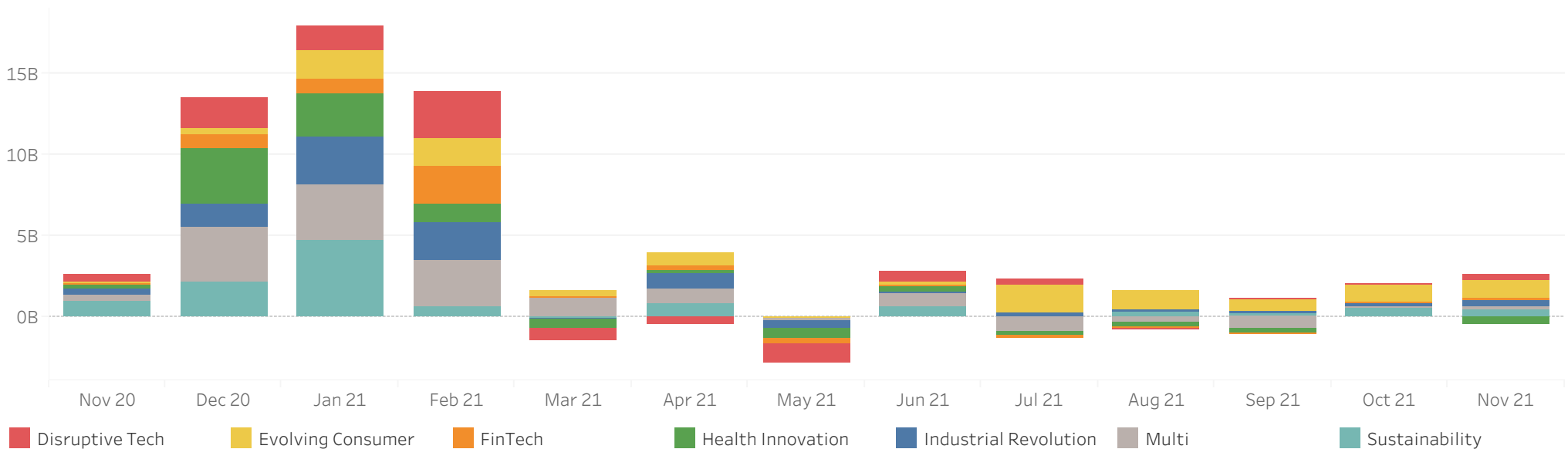
Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
CLOU	Global X Cloud Computing ETF	(\$406M)
ARKG	ARK Genomic Revolution ETF	(\$265M)
BUG	Global X Cybersecurity ETF	(\$91M)
EDOC	Global X Telemedicine & Digital Health ETF	(\$84M)
ONLN	ProShares Online Retail ETF	(\$55M)
ARKF	ARK Fintech Innovation ETF	(\$34M)
HACK	ETFMG Prime Cyber Security ETF	(\$23M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$17M)
ARKW	ARK Next Generation Internet ETF	(\$15M)
WCLD	WisdomTree Cloud Computing Fund	(\$14M)

Thematic Landscape Assets & Flows

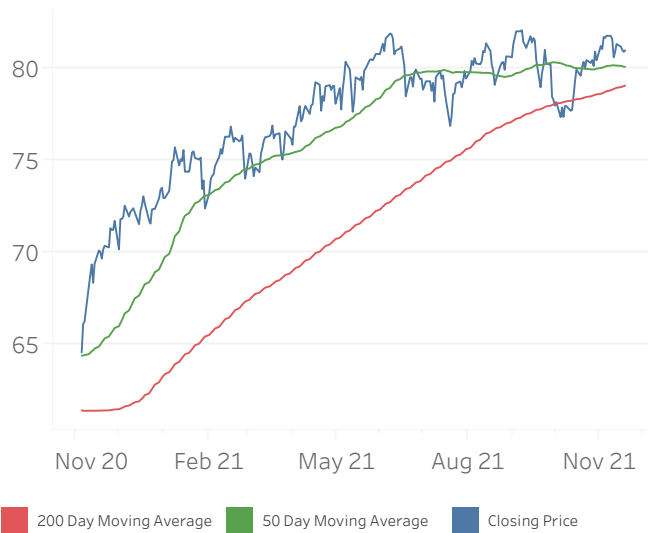
Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	36	\$31B	(\$468M)	\$247M	\$1,234M	\$5,657M
Evolving Consumer	41	\$19B	\$724M	\$4,163M	\$6,463M	\$11,102M
FinTech	16	\$8B	\$35M	\$100M	\$29M	\$4,433M
Health Innovation	16	\$9B	(\$312M)	(\$647M)	(\$760M)	\$5,728M
Industrial Revolution	24	\$19B	\$243M	\$765M	\$1,238M	\$8,436M
Multi	28	\$30B	\$257M	(\$94M)	(\$717M)	\$11,057M
Sustainability	36	\$26B	\$117M	\$1,357M	\$2,519M	\$11,693M
Grand Total	197	\$143B	\$596M	\$5,892M	\$10,006M	\$58,106M

Thematic Monthly Flows

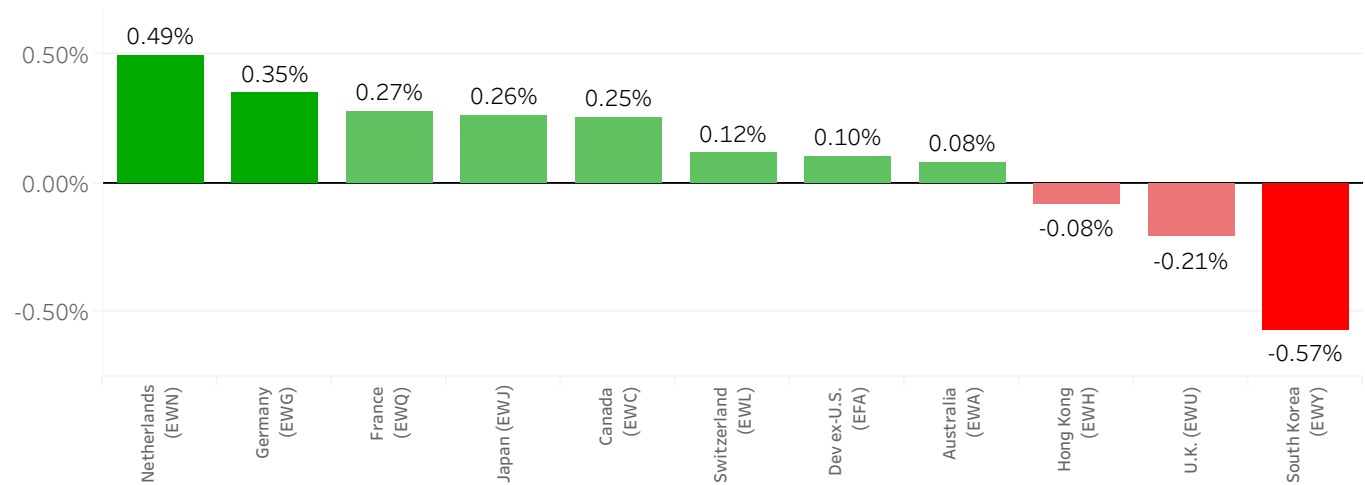


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

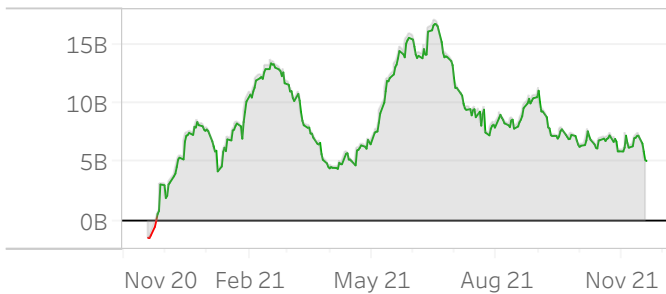
Developed ex-U.S. (EFA)



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



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



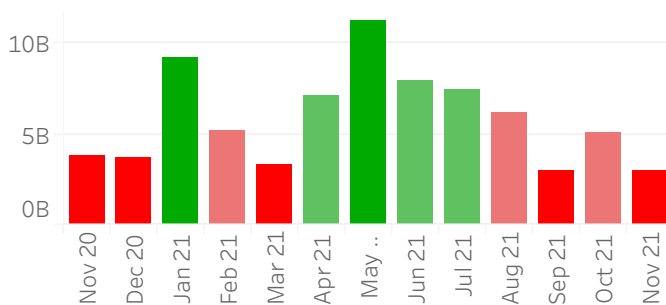
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
PTEU	Pacer Trendpilot European Index ETF	0.61%
FKU	First Trust United Kingdom AlphaDEX Fund	0.54%
FGM	First Trust Germany AlphaDEX Fund	0.53%
WPS	iShares International Developed Property ETF	0.50%
GREK	Global X MSCI Greece ETF	0.50%
EWN	iShares MSCI Netherlands ETF	0.49%
ENZL	iShares MSCI New Zealand ETF	0.48%
EWUS	iShares MSCI United Kingdom Small Cap ETF	0.44%
EFG	iShares MSCI EAFE Growth ETF	0.40%
HEWJ	iShares Currency Hedged MSCI Japan ETF	0.38%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	73.09
HEDJ	WisdomTree Europe Hedged Equity Fund	72.26
HEZU	iShares Currency Hedged MSCI Eurozone ETF	71.87
HEWG	iShares Currency Hedged MSCI Germany ETF	70.65
IHDG	WisdomTree International Hedged Quality Dividend Grow..	66.07
TOK	iShares MSCI Kokusai ETF	65.59
HEFA	iShares Currency Hedged MSCI EAFE ETF	65.48
DBEF	Xtrackers MSCI EAFE Hedged Equity ETF	64.64
EIS	iShares MSCI Israel ETF	64.33
EWL	iShares MSCI Switzerland ETF	62.36

Developed ex-U.S. Monthly Flows



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

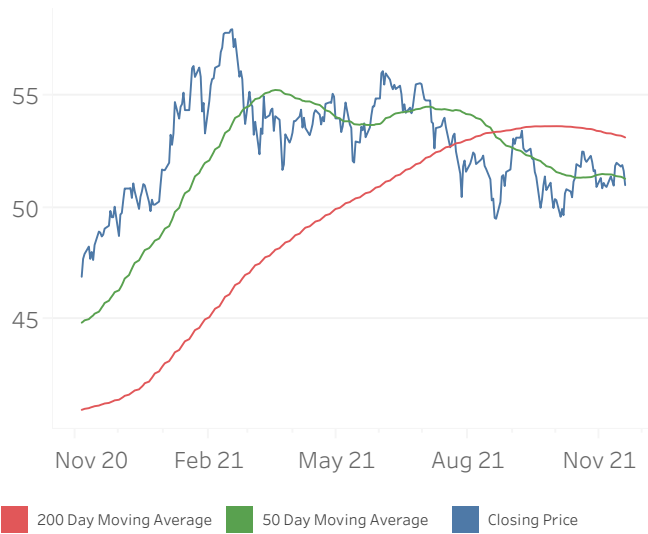
Ticker	Fund	1-Day Performance
AIA	iShares Asia 50 ETF	-1.42%
ENOR	iShares MSCI Norway ETF	-1.18%
AAXJ	iShares MSCI All Country Asia ex Japan ETF	-1.05%
EWP	iShares MSCI Spain ETF	-0.80%
EUSC	WisdomTree Europe Hedged SmallCap Equity Fund	-0.73%
EWO	iShares MSCI Austria ETF	-0.70%
EWY	iShares MSCI South Korea ETF	-0.57%
ISRA	VanEck Israel ETF	-0.53%
HEDJ	WisdomTree Europe Hedged Equity Fund	-0.44%
FLKR	Franklin FTSE South Korea ETF	-0.42%

Developed ex-U.S. Most Oversold

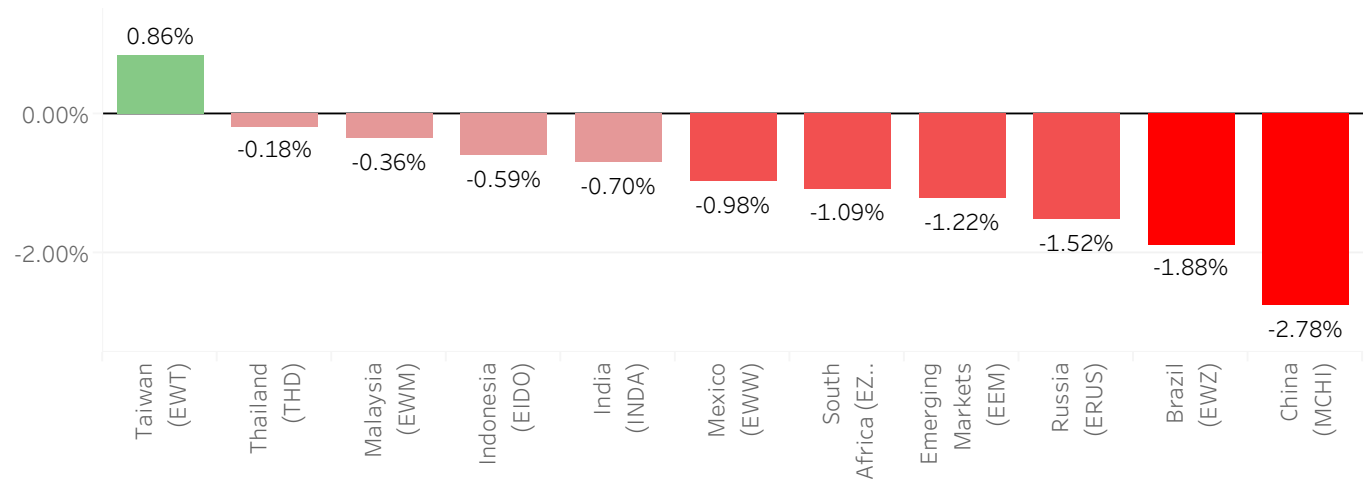
Ticker	Fund	Value
EIRL	iShares MSCI Ireland ETF	31.02
EWP	iShares MSCI Spain ETF	35.31
DFJ	WisdomTree Japan SmallCap Dividend Fund	35.66
ENZL	iShares MSCI New Zealand ETF	37.45
IDV	iShares International Select Dividend ETF	37.47
SCJ	iShares MSCI Japan Small-Cap ETF	38.43
DLS	WisdomTree International SmallCap Dividend Fund	38.47
DTH	WisdomTree International High Dividend Fund	38.56
EWA	iShares MSCI Australia ETF	39.47
EPP	iShares MSCI Pacific ex-Japan ETF	40.29

* 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)



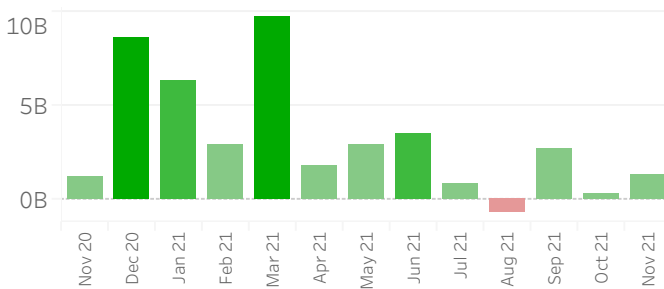
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
EWT	iShares MSCI Taiwan ETF	0.86%
ECH	iShares MSCI Chile ETF	0.48%
QAT	iShares MSCI Qatar ETF	0.38%
EPU	iShares MSCI Peru ETF	0.10%
FRDM	Freedom 100 Emerging Markets ETF	0.00%
MFEM	PIMCO RAFI Dynamic Multi-Factor Emerging Markets Eq..	-0.01%
EELV	Invesco S&P Emerging Markets Low Volatility ETF	-0.05%
THD	iShares MSCI Thailand ETF	-0.18%
EPHE	iShares MSCI Philippines ETF	-0.21%
XCEM	Columbia EM Core ex-China ETF	-0.23%

Emerging Most Overbought

Ticker	Fund	Price
VNM	VanEck Vietnam ETF	73.51
EWT	iShares MSCI Taiwan ETF	72.11
THD	iShares MSCI Thailand ETF	65.51
QAT	iShares MSCI Qatar ETF	61.72
PIE	Invesco DWA Emerging Markets Momentum ETF	60.08
EELV	Invesco S&P Emerging Markets Low Volatility ETF	57.81
EPHE	iShares MSCI Philippines ETF	55.16
EEMV	iShares MSCI Emerging Markets Min Vol Factor ETF	53.85
EWX	SPDR S&P Emerging Markets Small Cap ETF	53.38
GMF	SPDR S&P Emerging Asia Pacific ETF	51.62

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
PGJ	Invesco Golden Dragon China ETF	-3.43%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	-2.99%
MCHI	iShares MSCI China ETF	-2.78%
EPOL	iShares MSCI Poland ETF	-2.71%
FLCH	Franklin FTSE China ETF	-2.69%
FNI	First Trust Chindia ETF	-2.62%
GXC	SPDR S&P China ETF	-2.46%
BKF	iShares MSCI BRIC ETF	-2.27%
ADRE	Invesco BLDRS Emerging Markets 50 ADR Index Fund	-2.16%
FXI	iShares China Large-Cap ETF	-2.16%

Emerging Most Oversold

Ticker	Fund	Price
EPOL	iShares MSCI Poland ETF	21.44
ILF	iShares Latin America 40 ETF	32.70
SDEM	Global X MSCI SuperDividend Emerging Markets ETF	34.40
EWM	iShares MSCI Malaysia ETF	34.52
EWW	iShares MSCI Mexico ETF	35.81
FEM	First Trust Emerging Markets AlphaDEX Fund	36.33
DVYE	iShares Emerging Markets Dividend ETF	36.47
ERUS	iShares MSCI Russia ETF	36.70
FEMS	First Trust Emerging Markets Small Cap AlphaDEX F..	37.44
DEM	WisdomTree Emerging Markets High Dividend Fund	38.08

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

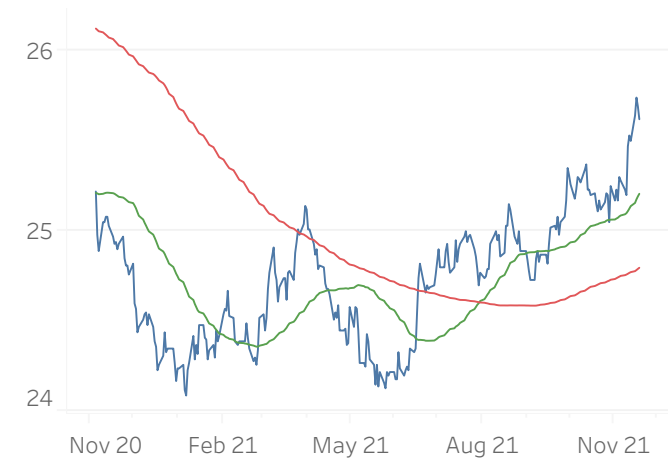
Fixed Income (AGG)



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	0.09%	-0.07%	-1.88%
SHY	1-3 Year Treasury Bonds	-0.01%	-0.10%	-0.50%
IEF	7-10 Year Treasury Bonds	0.06%	0.18%	-3.87%
TLT	20+ Year Treasury Bonds	0.38%	0.88%	-5.71%
TIP	TIPS Bonds	0.06%	1.89%	6.00%
FLOT	Floating Rate Bonds	-0.04%	-0.07%	0.44%
LQD	Investment Grade Corporate	0.23%	-0.20%	-2.17%
HYG	High Yield Corporate	-0.08%	-0.31%	2.60%
BKLN	Senior Loan	0.00%	0.14%	1.84%
PFF	Preferred & Income Securities	0.08%	-0.12%	4.80%
MUB	Municipal Bonds	0.16%	0.31%	0.57%
MBB	MBS	0.05%	-0.24%	-1.28%
EMB	Dollar Denominated EM Bonds	0.26%	0.21%	-2.55%
LEMB	Local Currency EM Bond	-0.63%	-2.30%	-8.95%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	0.34%	-0.99%	36.39%
DBE	Energy	0.62%	-3.32%	63.75%
USO	WTI Crude Oil	1.00%	-2.48%	68.28%
BNO	Brent Crude Oil	0.70%	-2.84%	67.31%
UNG	Natural Gas	0.43%	-6.19%	77.93%
UGA	Gasoline	-0.05%	-5.02%	69.64%
DBP	Precious Metals	-0.45%	5.87%	-4.42%
GLD	Gold	-0.32%	5.47%	-2.48%
SLV	Silver	-0.91%	6.84%	-6.55%
PPLT	Platinum	-1.17%	1.13%	-2.91%
PALL	Palladium	-3.00%	5.63%	-13.51%
DBB	Base Metals	1.07%	-11.86%	20.57%
CPER	Copper	1.90%	-8.62%	21.02%
LD	Lead	-0.57%	-6.75%	13.01%
JJN	Nickel	2.29%	-1.81%	17.36%
JJU	Aluminum	0.92%	-17.16%	30.26%
JJT	Tin	1.75%	3.31%	118.49%
DBA	Agriculture	-0.45%	4.43%	24.04%
CORN	Corn	-0.47%	6.15%	37.29%
SOYB	Soybeans	-0.86%	2.71%	12.99%
WEAT	Wheat	0.00%	10.66%	29.08%
CANE	Sugar	-1.12%	3.29%	44.00%
BAL	Cotton	-2.02%	10.49%	45.19%
NIB	Cocoa	0.82%	-3.27%	-4.48%
JO	Coffee	-1.26%	12.95%	68.06%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.27%	1.63%	5.69%
UDN	Short Dollar	0.20%	-1.84%	-6.80%
FXE	Euro	0.42%	-2.15%	-7.77%
FXB	British Pound Sterling	0.08%	-1.72%	-1.63%
FXF	Swiss Franc	0.28%	-0.39%	-5.38%
FXJ	Japanese Yen	-0.09%	0.05%	-10.11%
FXC	Canadian Dollar	0.10%	-1.82%	0.58%
FXA	Australian Dollar	0.18%	-1.92%	-5.99%

* 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