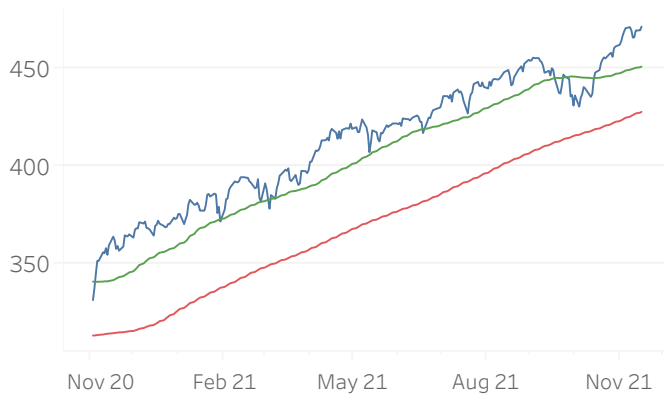
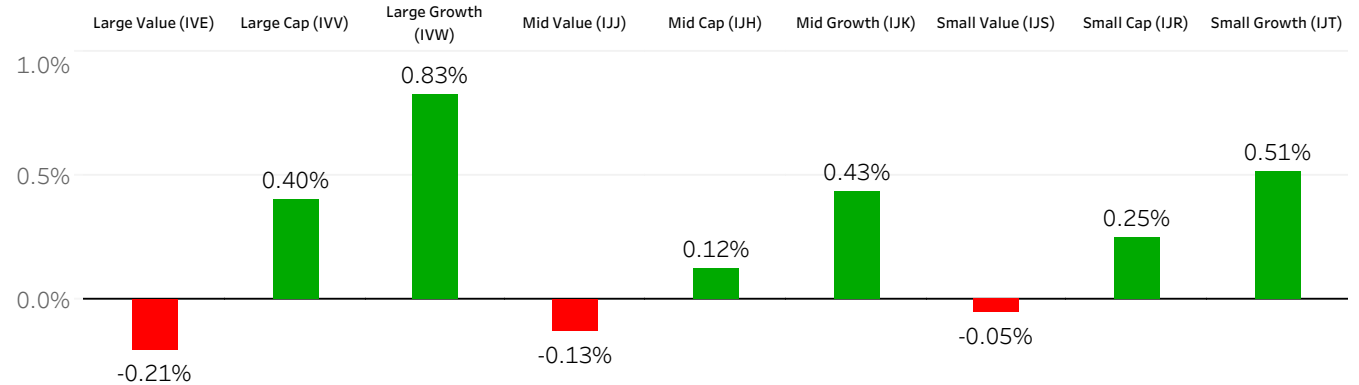


Large Cap Blend (S&P 500) IVV



U.S. Size & Style 1-Day Performance



Mid Cap Blend (S&P 400) IJH



Size & Style 1-Day Performance Leaders

Ticker	Fund	Performance
FFTY	Innovator IBD 50 ETF	1.73%
IPO	Renaissance IPO ETF	1.71%
DWEQ	AdvisorShares Dorsey Wright Alpha Equal Weight ETF	1.61%
SSPX	Janus Henderson U.S. Sustainable Equity ETF	1.56%
QGRO	American Century STOXX U.S. Quality Growth ETF	1.54%
RPG	Invesco S&P 500 Pure Growth ETF	1.45%
PDP	Invesco DWA Momentum ETF	1.39%
VOT	Vanguard Mid-Cap Growth ETF	1.27%
NUMG	Nuveen ESG Mid-Cap Growth ETF	1.26%
LCG	Sterling Capital Focus Equity ETF	1.18%

Size & Style Most Overbought

Ticker	Fund	Price
KLCD	KFA Large Cap Quality Dividend Index ETF	75.99
LEAD	Siren DIVCON Leaders Dividend ETF	75.97
FLQL	Franklin LibertyQ U.S. Equity ETF	75.72
NOBL	ProShares S&P 500 Dividend Aristocrats ETF	75.72
FQAL	Fidelity Quality Factor ETF	75.65
FLQM	Franklin LibertyQ U.S. Mid Cap Equity ETF	75.46
QLV	FlexShares US Quality Low Volatility Index Fund	74.46
TPLC	Timothy Plan Fund Timothy Plan US Large/Mid Cap Core F..	74.39
KRMA	Global X Conscious Companies ETF	74.25
BFOR	ALPS Barron's 400 ETF	73.95

Small Cap Blend (S&P 600) IJR



Size & Style 1-Day Performance Laggards

Ticker	Fund	Performance
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	-0.77%
WBIY	WBI Power Factor High Dividend ETF	-0.71%
RDIV	Invesco S&P Ultra Dividend Revenue ETF	-0.63%
MOAT	VanEck Morningstar Wide Moat ETF	-0.59%
DIV	Global X SuperDividend US ETF	-0.58%
DHS	WisdomTree U.S. High Dividend Fund	-0.57%
SDOG	ALPS Sector Dividend Dogs ETF	-0.56%
SPYD	SPDR Portfolio S&P 500 High Dividend ETF	-0.55%
LVHD	Legg Mason Low Volatility High Dividend ETF	-0.55%
SMDV	ProShares Russell 2000 Dividend Growers ETF	-0.55%

Size & Style Most Oversold

Ticker	Fund	Price
MFMS	Motley Fool Small-Cap Growth ETF	47.19
CSD	Invesco S&P Spin-Off ETF	51.51
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	52.65
DURA	VanEck Morningstar Durable Dividend ETF	52.93
GURU	Global X Guru Index ETF	53.28
WBIY	WBI Power Factor High Dividend ETF	53.76
DJD	Invesco Dow Jones Industrial Average Dividend ETF	54.59
BUZZ	VanEck Social Sentiment ETF	55.32
FFTY	Innovator IBD 50 ETF	55.45
PEY	Invesco High Yield Equity Dividend Achievers ETF	55.68

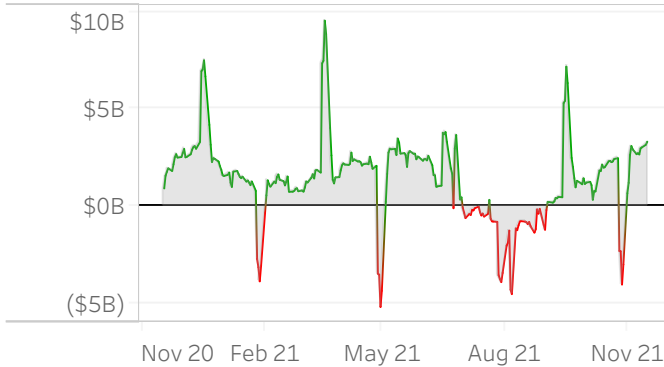
■ Closing Price
 ■ 50 Day Moving Average
 ■ 200 Day Moving Average

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

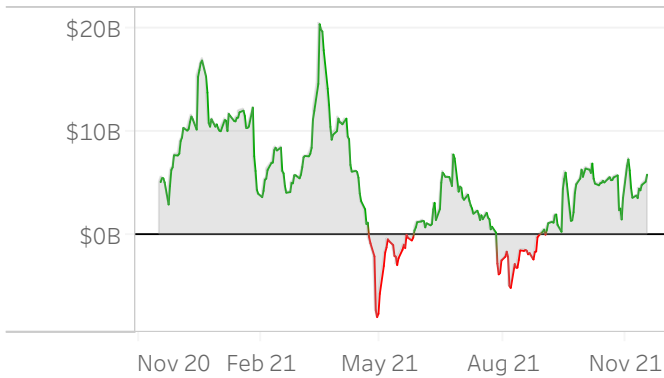
Large-Cap 30-Day Rolling Flows



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	\$238B	\$0.60B	\$8.33B	\$10.12B	\$27.02B
Large Cap, Beta Growth, Beta: Value	11	\$212B	\$0.30B	\$5.38B	\$10.07B	\$32.45B
Mid Cap, Beta, Beta	10	\$200B	\$0.29B	\$3.19B	\$3.11B	\$9.23B
Small Cap, Beta, Beta: Growth	7	\$41B	\$0.11B	\$0.19B	\$0.26B	\$0.99B
Small Cap, Beta, Beta: Value	7	\$61B	\$0.03B	\$0.81B	\$0.32B	\$8.21B
Mid Cap, Beta, Beta: Growth	6	\$43B	\$0.02B	\$0.52B	\$0.18B	(\$2.03B)
Mid Cap, Beta, Beta: Value	6	\$43B	\$0.02B	\$0.56B	\$0.09B	\$4.55B
Large Cap, Beta Growth, Beta: Growth	10	\$277B	(\$0.37B)	\$2.70B	\$9.32B	\$5.14B
Large Cap, Beta Growth, Beta	24	\$1,369B	(\$1.95B)	\$43.50B	\$80.18B	\$101.30B

U.S. Size & Style Flow Leaders

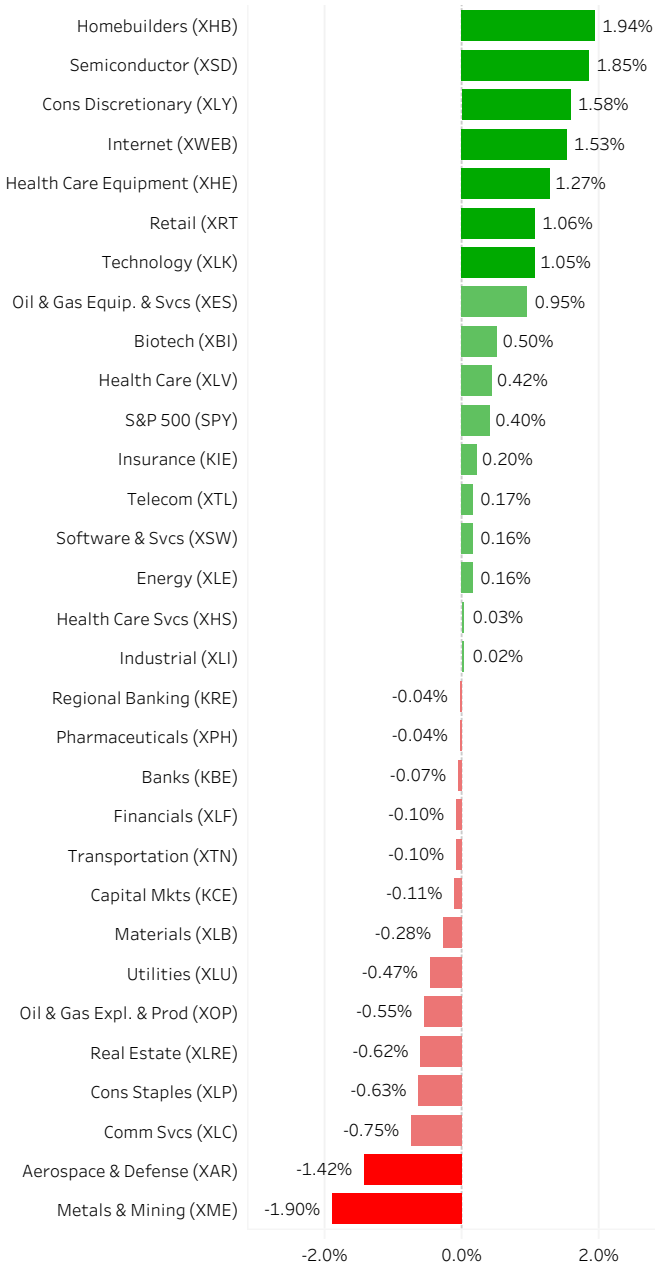
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VOO	Vanguard S&P 500 ETF	\$1.33B	\$13.33B	\$24.72B	\$43.70B	\$276.03B
IVV	iShares Core S&P 500 ETF	\$0.95B	\$9.81B	\$12.65B	\$20.96B	\$324.52B
VTI	Vanguard Total Stock Market ETF	\$0.93B	\$11.05B	\$21.36B	\$43.72B	\$291.51B
IJR	iShares Core S&P Small Cap ETF	\$0.35B	\$2.40B	\$1.45B	\$5.26B	\$76.62B
SUSA	iShares MSCI USA ESG Select ETF	\$0.32B	\$0.66B	\$0.97B	\$1.61B	\$4.55B
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.18B	(\$1.37B)	(\$1.86B)	(\$0.80B)	\$30.01B
VTV	Vanguard Value ETF	\$0.18B	\$2.93B	\$5.89B	\$15.76B	\$90.37B
VO	Vanguard Mid-Cap ETF	\$0.17B	\$1.73B	\$3.07B	\$4.85B	\$57.06B
VB	Vanguard Small-Cap ETF	\$0.16B	\$1.33B	\$2.53B	\$6.56B	\$51.53B
SCHD	Schwab US Dividend Equity ETF	\$0.15B	\$2.61B	\$5.04B	\$11.16B	\$30.84B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
EQRR	ProShares Equities for Rising Rates ETF	(\$1.43B)	\$0.33B	\$0.33B	\$0.33B	\$0.01B
IWF	iShares Russell 1000 Growth ETF	(\$0.59B)	(\$0.61B)	\$0.16B	(\$2.71B)	\$78.05B
QQQ	Invesco QQQ Trust	(\$0.42B)	\$8.21B	\$16.53B	\$16.80B	\$206.91B
VLUE	iShares MSCI USA Value Factor ETF	(\$0.11B)	(\$0.59B)	(\$0.81B)	\$4.63B	\$15.89B
IJJ	iShares S&P Mid-Cap 400 Value ETF	(\$0.06B)	\$0.12B	\$0.05B	\$1.86B	\$9.40B
IWN	iShares Russell 2000 Value ETF	(\$0.06B)	\$0.00B	(\$0.91B)	\$1.60B	\$16.94B
MDY	SPDR S&P Midcap 400 ETF Trust	(\$0.05B)	(\$0.46B)	(\$1.15B)	(\$0.52B)	\$22.06B
USMV	iShares MSCI USA Min Vol Factor ETF	(\$0.05B)	\$0.38B	(\$1.21B)	(\$9.41B)	\$29.47B
FVD	First Trust Value Line Dividend Index Fund	(\$0.04B)	\$0.09B	\$0.25B	\$0.62B	\$12.56B
GSLC	Goldman Sachs ActiveBeta U.S. Large Cap Eq..	(\$0.04B)	\$0.15B	\$0.48B	\$0.43B	\$14.48B

* 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%	29.61%	4.59%	10.16%	70.58
XLI	Industrial Select Sector SPDR Fund	0.00%	26.37%	4.39%	5.85%	66.81
XLK	Technology Select Sector SPDR Fund	0.00%	36.78%	7.09%	15.27%	71.53
XLP	Consumer Staples Select Sector SPDR Fund	-0.63%	14.90%	2.26%	4.10%	60.94
XLB	Materials Select Sector SPDR Fund	-0.73%	27.77%	6.55%	8.28%	69.00
XLRE	Real Estate Select Sector SPDR Fund	-1.17%	37.36%	2.88%	9.66%	57.71
XLF	Financial Select Sector SPDR Fund	-1.26%	43.87%	2.86%	9.06%	55.73
XLE	Energy Select Sector SPDR Fund	-1.72%	58.11%	6.26%	12.70%	57.26
XLY	Consumer Discretionary Select Sector SPDR Fund	-2.10%	32.73%	8.32%	15.86%	66.88
XLV	Health Care Select Sector SPDR Fund	-2.42%	21.69%	1.98%	6.29%	56.36
XLU	Utilities Select Sector SPDR Fund	-4.08%	15.16%	1.42%	2.85%	54.61
XLC	Communication Services Select Sector SPDR Fund	-6.04%	24.23%	-0.62%	2.14%	49.31

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
PTF	Invesco DWA Technology Momentum ETF	2.07%
XHB	SPDR S&P Homebuilders ETF	1.94%
PEZ	Invesco DWA Consumer Cyclical Momentum ETF	1.92%
SOXQ	Invesco PHLX Semiconductor ETF	1.87%
XSD	SPDR S&P Semiconductor ETF	1.85%
FTXL	First Trust Nasdaq Semiconductor ETF	1.76%
PSI	Invesco Dynamic Semiconductors ETF	1.75%
ITB	iShares U.S. Home Construction ETF	1.69%
XLY	Consumer Discretionary Select Sector SPDR Fund	1.58%
XWEB	SPDR S&P Internet ETF	1.53%

Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
PSI	Invesco Dynamic Semiconductors ETF	76.74
XHB	SPDR S&P Homebuilders ETF	74.95
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	74.94
PRN	Invesco DWA Industrials Momentum ETF	74.93
XSD	SPDR S&P Semiconductor ETF	74.87
AIRR	First Trust RBA American Industrial Renaissance ETF	74.73
SOXX	iShares Semiconductor ETF	74.69
FTXL	First Trust Nasdaq Semiconductor ETF	74.41
SOXQ	Invesco PHLX Semiconductor ETF	74.33
PSCI	Invesco S&P SmallCap Industrials ETF	74.06

Sector & Industry 1 Day Performance Laggards

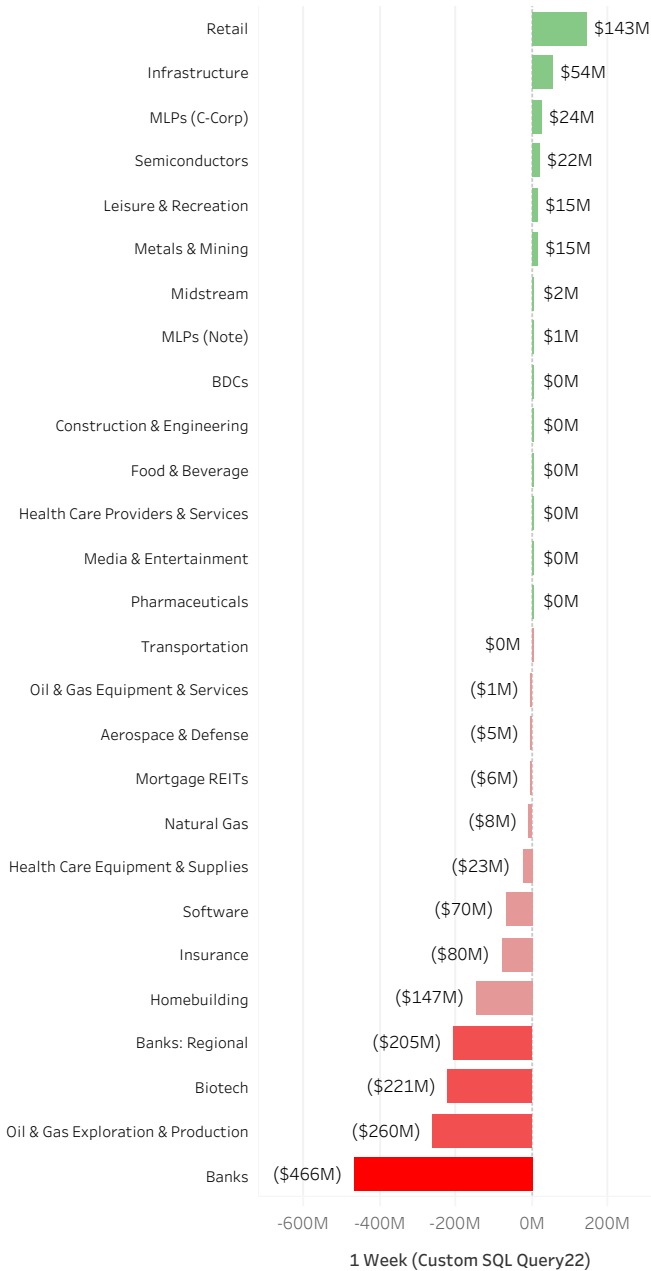
Ticker	Fund	1 Day Performance
XME	SPDR S&P Metals & Mining ETF	-1.90%
XAR	SPDR S&P Aerospace & Defense ETF	-1.42%
ITA	iShares U.S. Aerospace & Defense ETF	-1.31%
NURE	Nuveen Short-Term REIT ETF	-1.29%
KBWY	Invesco KBW Premium Yield Equity REIT ETF	-1.17%
ROOF	IQ US Real Estate Small Cap ETF	-1.10%
EWRE	Invesco S&P 500 Equal Weight Real Estate ETF	-0.82%
PPTY	US Diversified Real Estate ETF	-0.81%
IYM	iShares U.S. Basic Materials ETF	-0.79%
XLC	Communication Services Select Sector SPDR Fund	-0.75%

Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
ENFR	Alerian Energy Infrastructure ETF	37.59
PBE	Invesco Dynamic Biotechnology & Genome ETF	38.37
FBT	First Trust NYSE Arca Biotechnology Index Fund	38.94
IBB	iShares Biotechnology ETF	39.61
XES	SPDR S&P Oil & Gas Equipment & Services ETF	42.46
MLPX	Global X MLP & Energy Infrastructure ETF	42.80
XBI	SPDR S&P BIOTECH ETF	43.64
PEJ	Invesco Dynamic Leisure & Entertainment ETF	43.91
MORT	VanEck Mortgage REIT Income ETF	44.96
IEZ	iShares U.S. Oil Equipment & Services ETF	45.05

* 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	\$22B	\$59M	\$900M	\$2,134M	\$2,032M
Consumer Discretionary	13	\$38B	\$72M	\$1,303M	\$168M	\$3,632M
Consumer Staples	12	\$21B	\$307M	(\$843M)	\$813M	(\$3,177M)
Energy	34	\$56B	(\$556M)	\$593M	\$554M	\$10,046M
Financials	28	\$86B	(\$671M)	\$2,039M	(\$363M)	\$23,100M
Health Care	26	\$90B	(\$3M)	\$1,569M	\$3,356M	\$3,778M
Industrial	14	\$36B	(\$389M)	(\$2,120M)	(\$4,098M)	\$1,934M
Materials	10	\$17B	\$10M	(\$979M)	(\$958M)	\$4,628M
Multi-Sector	17	\$27B	(\$89M)	\$864M	\$783M	\$3,987M
Real Estate	22	\$80B	\$17M	\$4,413M	\$7,880M	\$13,012M
Technology	24	\$155B	(\$601M)	\$3,528M	\$5,878M	\$3,730M
Utilities	10	\$20B	(\$405M)	(\$809M)	\$592M	(\$185M)

U.S. Sector & Industry Flow Leaders

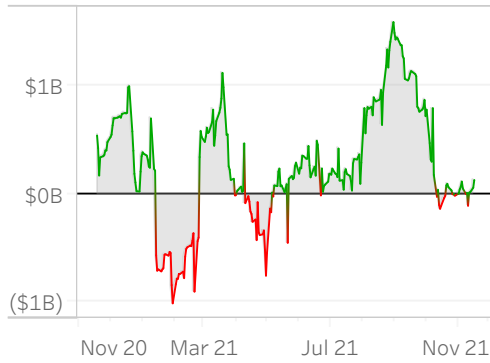
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLP	Consumer Staples Select Sector SPDR Fund	\$273M	(\$1,036M)	\$606M	(\$2,759M)	\$12,104M
XLV	Health Care Select Sector SPDR Fund	\$220M	\$509M	\$3,188M	\$3,217M	\$32,844M
VNQ	Vanguard Real Estate ETF	\$147M	\$1,346M	\$3,110M	\$6,476M	\$46,989M
XRT	SPDR S&P Retail ETF	\$143M	\$154M	\$425M	\$312M	\$1,313M
KBE	SPDR S&P Bank ETF	\$100M	\$69M	(\$500M)	\$268M	\$3,553M
XLF	Financial Select Sector SPDR Fund	\$78M	\$1,197M	(\$1,317M)	\$12,452M	\$45,727M
PAVE	Global X U.S. Infrastructure Development ETF	\$60M	\$668M	\$1,370M	\$3,942M	\$5,359M
XLC	Communication Services Select Sector SPDR Fu..	\$40M	\$752M	\$1,213M	\$926M	\$15,343M
VDC	Vanguard Consumer Staples ETF	\$38M	\$246M	\$315M	(\$83M)	\$6,240M
VHT	Vanguard Health Care ETF	\$26M	\$351M	\$1,015M	\$2,007M	\$16,701M

U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
KBWB	Invesco KBW Bank ETF	(\$560M)	(\$373M)	(\$4M)	\$1,077M	\$3,038M
XLI	Industrial Select Sector SPDR Fund	(\$400M)	(\$1,730M)	(\$2,820M)	(\$295M)	\$18,248M
XLU	Utilities Select Sector SPDR Fund	(\$379M)	(\$901M)	\$321M	(\$433M)	\$12,471M
XLE	Energy Select Sector SPDR Fund	(\$333M)	\$695M	\$798M	\$6,595M	\$27,358M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	(\$260M)	(\$583M)	(\$796M)	(\$443M)	\$3,871M
KRE	SPDR S&P Regional Banking ETF	(\$197M)	\$88M	(\$494M)	\$2,311M	\$5,365M
XBI	SPDR S&P BIOTECH ETF	(\$159M)	\$696M	\$9M	\$1,022M	\$7,374M
XLK	Technology Select Sector SPDR Fund	(\$108M)	\$133M	\$981M	(\$1,047M)	\$48,630M
IYR	iShares U.S. Real Estate ETF	(\$105M)	\$1,519M	\$1,646M	\$1,453M	\$7,283M
XHB	SPDR S&P Homebuilders ETF	(\$101M)	\$38M	(\$276M)	\$169M	\$2,127M

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

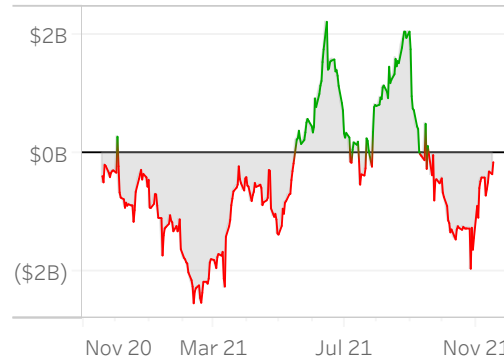
Communication Services



Consumer Discretionary



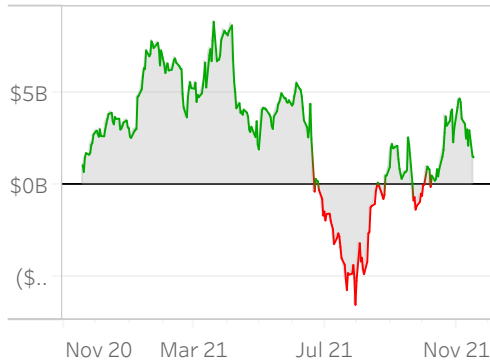
Consumer Staples



Energy



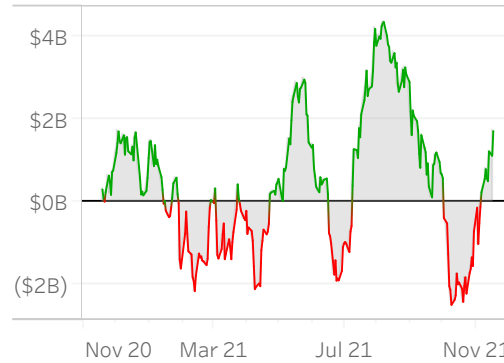
Financials



Industrial



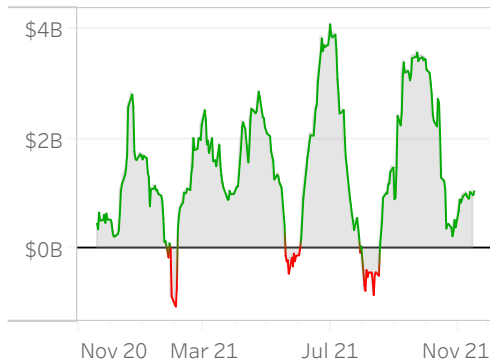
Health Care



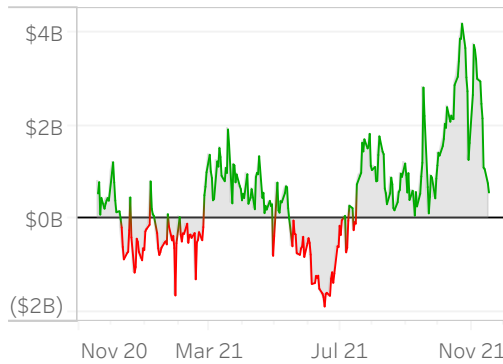
Materials



Real Estate



Technology



Utilities

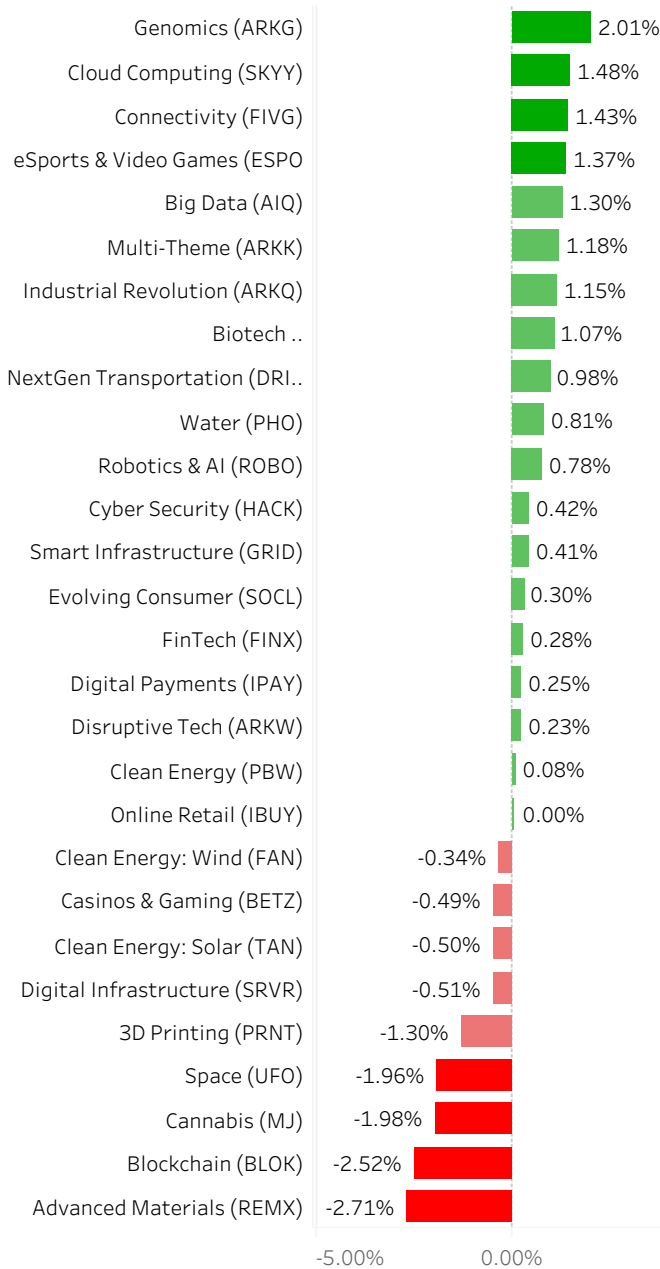


Multi-Sector

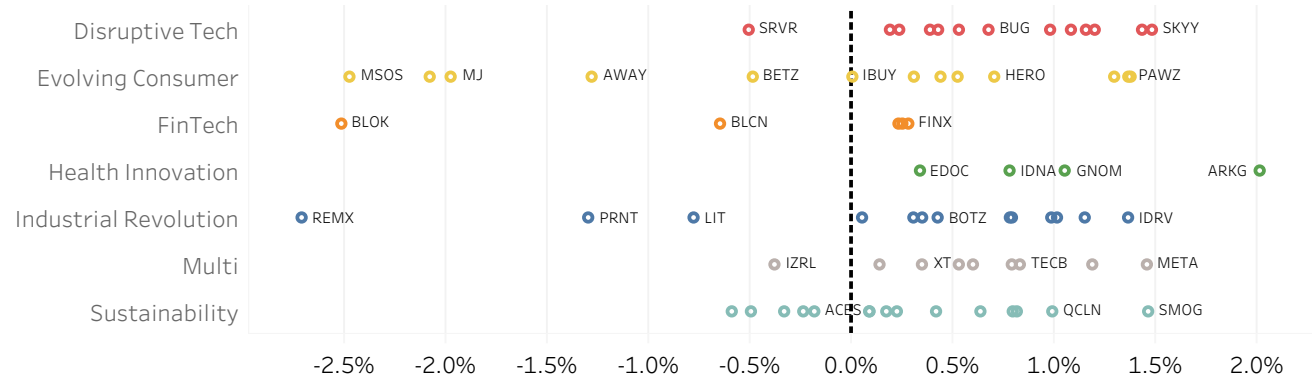


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	Performance
ARKG	ARK Genomic Revolution ETF	2.01%
GAMR	Wedbush ETFMG Video Game Tech ETF	1.85%
GERM	ETFMG Treatments Testing and Advancements ETF	1.49%
SKYY	First Trust Cloud Computing ETF	1.48%
SMOG	VanEck Low Carbon Energy ETF	1.46%
META	Roundhill Ball Metaverse ETF	1.45%
FIVG	Defiance Next Gen Connectivity ETF	1.43%
ESPO	VanEck Video Gaming and eSports ETF	1.37%
PAWZ	ProShares Pet Care ETF	1.36%
IDRV	iShares Self-driving EV & Tech ETF	1.36%

Thematic Most Overbought

Ticker	Fund	Value
GAMR	Wedbush ETFMG Video Game Tech ETF	76.13
ESPO	VanEck Video Gaming and eSports ETF	75.70
HERO	Global X Video Games & Esports ETF	74.67
FIVG	Defiance Next Gen Connectivity ETF	74.12
META	Roundhill Ball Metaverse ETF	73.17
SNSR	Global X Internet of Things ETF	72.60
FIW	First Trust Water ETF	71.79
EVX	VanEck Environmental Services ETF	71.22
IDRV	iShares Self-driving EV & Tech ETF	70.74
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure ..	70.62

Global Thematic 1-Day Performance Laggards

Ticker	Fund	Performance
DAPP	VanEck Digital Transformation ETF	-4.43%
BITQ	Bitwise Crypto Industry Innovators ETF	-3.88%
BKCH	Global X Blockchain ETF	-3.74%
THCX	Cannabis ETF	-3.59%
REMX	VanEck Rare Earth/Strategic Metals ETF	-2.71%
POTX	Global X Cannabis ETF	-2.64%
BLOK	Amplify Transformational Data Sharing ETF	-2.52%
MSOS	AdvisorShares Pure US Cannabis ETF	-2.48%
CNBS	Amplify Seymour Cannabis ETF	-2.45%
YOLO	AdvisorShares Pure Cannabis ETF	-2.08%

Thematic Most Oversold

Ticker	Fund	Value
BETZ	Roundhill Sports Betting & iGaming ETF	33.83
BJK	VanEck Gaming ETF	40.43
UFO	Procore Space ETF	40.99
BTEC	Principal Healthcare Innovators ETF	41.48
IDNA	iShares Genomics Immunology and Healthcare ETF Geno..	41.65
IPAY	ETFMG Prime Mobile Payments ETF	42.01
GNOM	Global X Genomics & Biotechnology ETF	42.03
ARKG	ARK Genomic Revolution ETF	42.40
FAN	First Trust Global Wind Energy ETF	42.41
GERM	ETFMG Treatments Testing and Advancements ETF	42.99

* 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	\$656M
MSOS	AdvisorShares Pure US Cannabis ETF	\$263M
META	Roundhill Ball Metaverse ETF	\$190M
LIT	Global X Lithium & Battery Tech ETF	\$165M
CIBR	First Trust NASDAQ Cybersecurity ETF	\$69M
DRIV	Global X Autonomous & Electric Vehicles ETF	\$56M
ARKK	ARK Innovation ETF	\$46M
BUG	Global X Cybersecurity ETF	\$41M
XT	iShares Exponential Technologies ETF	\$36M
BLOK	Amplify Transformational Data Sharing ETF	\$30M

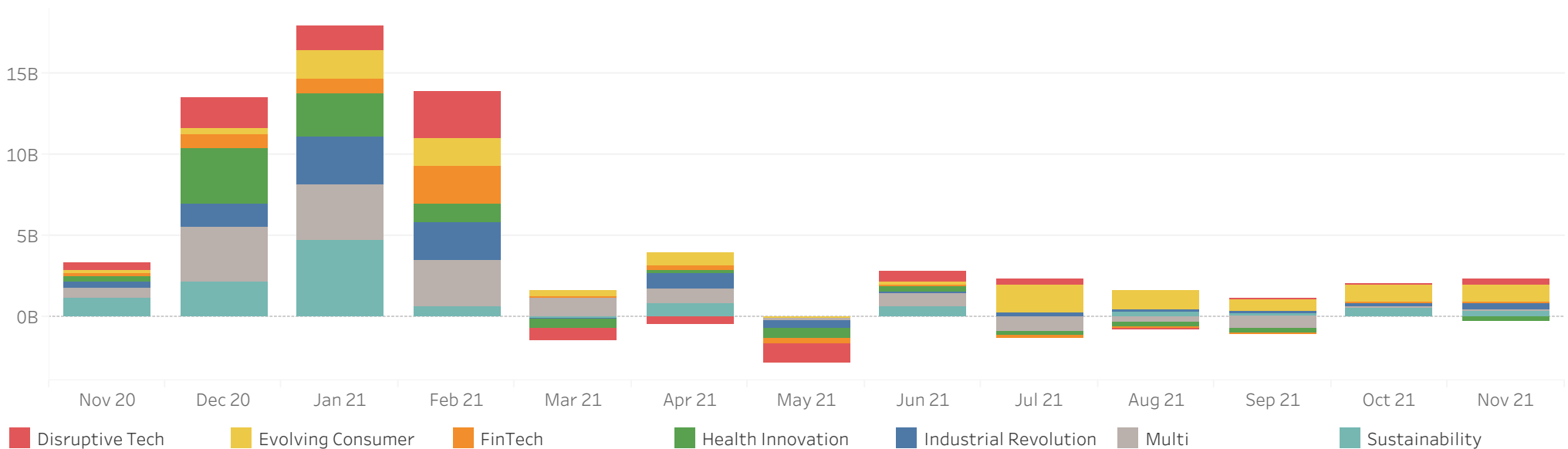
Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
ARKG	ARK Genomic Revolution ETF	(\$217M)
ARKW	ARK Next Generation Internet ETF	(\$62M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$26M)
TAN	Invesco Solar ETF	(\$22M)
ARKF	ARK Fintech Innovation ETF	(\$21M)
BJK	VanEck Gaming ETF	(\$11M)
PBW	Invesco WilderHill Clean Energy ETF	(\$8M)
EMQQ	Emerging Markets Internet & Ecommerce ETF	(\$8M)
PRNT	3D Printing ETF	(\$8M)
CLOU	Global X Cloud Computing ETF	(\$7M)

Thematic Landscape Assets & Flows

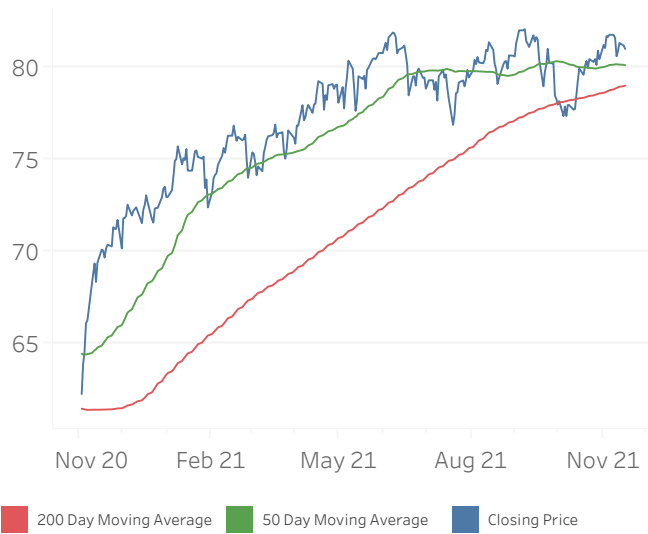
Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	36	\$31B	\$39M	\$444M	\$1,234M	\$5,764M
Evolving Consumer	41	\$20B	\$750M	\$4,035M	\$6,441M	\$11,187M
FinTech	16	\$9B	\$49M	\$74M	\$19M	\$4,449M
Health Innovation	16	\$9B	(\$166M)	(\$583M)	(\$613M)	\$5,956M
Industrial Revolution	24	\$19B	\$166M	\$640M	\$1,098M	\$8,434M
Multi	28	\$30B	\$279M	(\$422M)	(\$767M)	\$11,163M
Sustainability	36	\$26B	\$44M	\$1,362M	\$2,514M	\$11,831M
Grand Total	197	\$143B	\$1,160M	\$5,550M	\$9,926M	\$58,782M

Thematic Monthly Flows

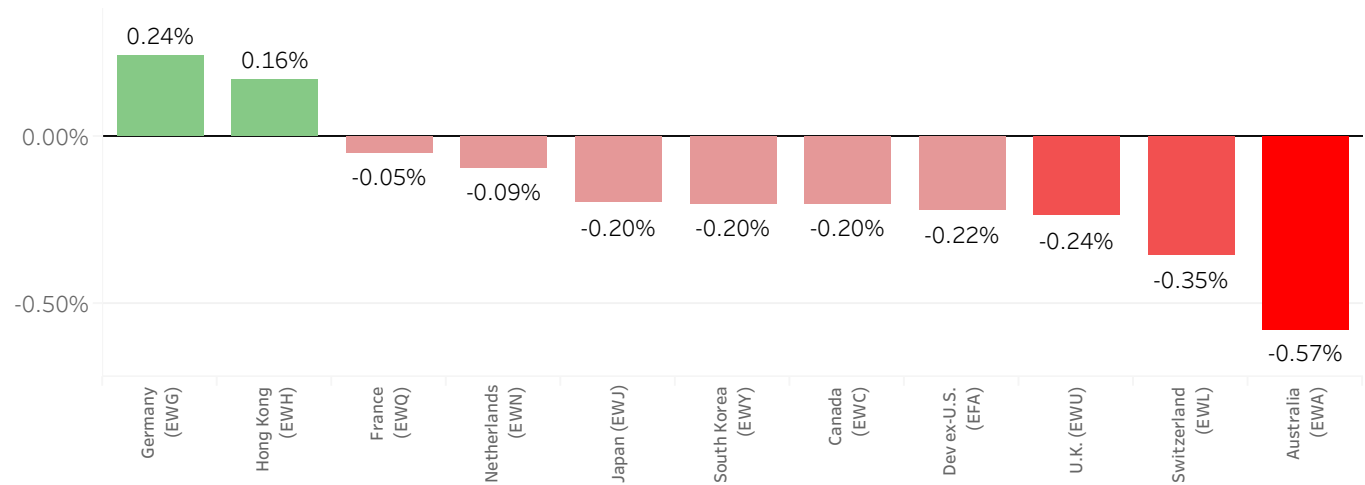


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

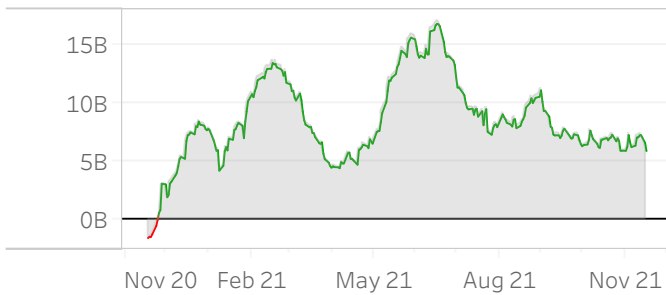
Developed ex-U.S. (EFA)



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



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



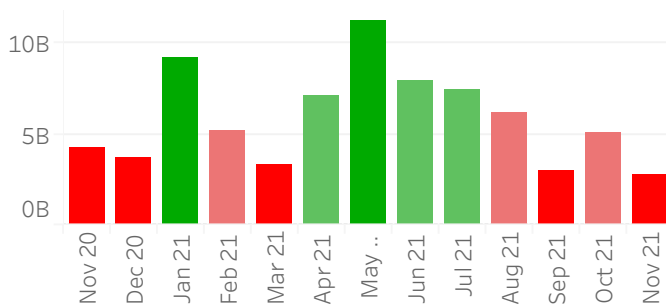
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
HEWG	iShares Currency Hedged MSCI Germany ETF	0.66%
AIA	iShares Asia 50 ETF	0.53%
TOK	iShares MSCI Kokusai ETF	0.49%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	0.42%
HEWJ	iShares Currency Hedged MSCI Japan ETF	0.41%
AAXJ	iShares MSCI All Country Asia ex Japan ETF	0.35%
HEZU	iShares Currency Hedged MSCI Eurozone ETF	0.33%
HEDJ	WisdomTree Europe Hedged Equity Fund	0.29%
EWG	iShares MSCI Germany ETF	0.24%
EWO	iShares MSCI Austria ETF	0.23%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
HEDJ	WisdomTree Europe Hedged Equity Fund	77.33
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	76.30
HEZU	iShares Currency Hedged MSCI Eurozone ETF	73.69
EIS	iShares MSCI Israel ETF	72.20
HEFA	iShares Currency Hedged MSCI EAFE ETF	71.92
EUSC	WisdomTree Europe Hedged SmallCap Equity Fund	71.86
HEWG	iShares Currency Hedged MSCI Germany ETF	70.61
DBEF	Xtrackers MSCI EAFE Hedged Equity ETF	70.48
TOK	iShares MSCI Kokusai ETF	67.38
IHDG	WisdomTree International Hedged Quality Dividend Grow..	65.94

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
ENZL	iShares MSCI New Zealand ETF	-1.26%
FSZ	First Trust Switzerland AlphaDEX Fund	-1.08%
EWP	iShares MSCI Spain ETF	-0.97%
GREK	Global X MSCI Greece ETF	-0.89%
ISCF	iShares MSCI Intl Small-Cap Multifactor ETF	-0.82%
DFJ	WisdomTree Japan SmallCap Dividend Fund	-0.79%
FLEE	Franklin FTSE Europe ETF	-0.77%
DLS	WisdomTree International SmallCap Dividend Fund	-0.75%
DFE	WisdomTree Europe SmallCap Dividend Fund	-0.68%
PTIN	Pacer Trendpilot International ETF	-0.67%

Developed ex-U.S. Most Oversold

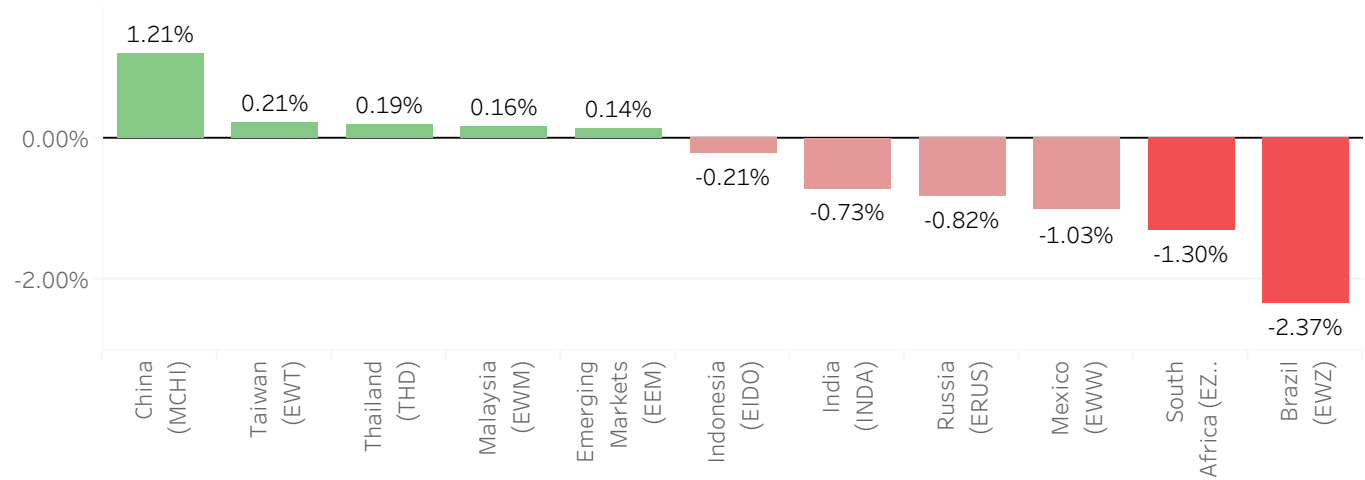
Ticker	Fund	Value
EIRL	iShares MSCI Ireland ETF	34.65
ENZL	iShares MSCI New Zealand ETF	36.95
DFJ	WisdomTree Japan SmallCap Dividend Fund	37.51
EWP	iShares MSCI Spain ETF	39.61
DLS	WisdomTree International SmallCap Dividend Fund	39.65
IVAL	Alpha Architect International Quantitative Value ETF	40.02
IDV	iShares International Select Dividend ETF	41.60
SCJ	iShares MSCI Japan Small-Cap ETF	41.75
FDD	First Trust Stoxx European Select Dividend Index Fu..	42.94
DTH	WisdomTree International High Dividend Fund	43.18

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

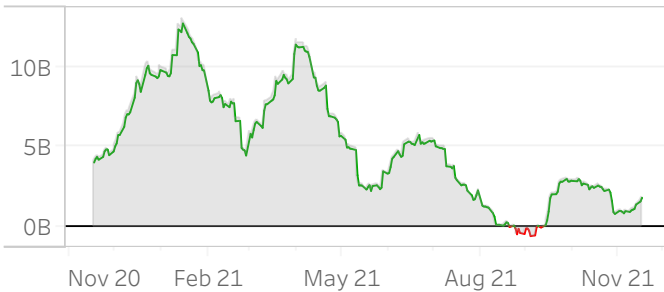
Emerging (EEM)



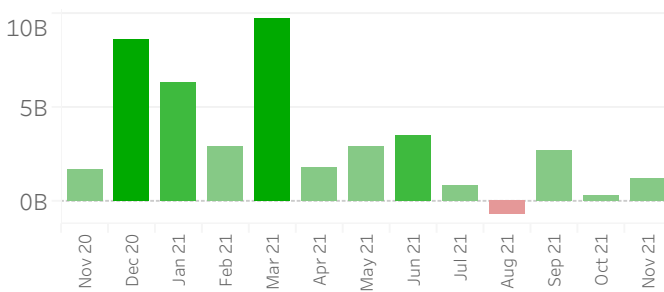
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
PGJ	Invesco Golden Dragon China ETF	1.59%
FXI	iShares China Large-Cap ETF	1.26%
MCHI	iShares MSCI China ETF	1.21%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	1.16%
FLCH	Franklin FTSE China ETF	1.12%
GXC	SPDR S&P China ETF	1.04%
FNI	First Trust Chindia ETF	0.90%
GMF	SPDR S&P Emerging Asia Pacific ETF	0.49%
HEEM	iShares Currency Hedged MSCI Emerging Markets ETF	0.42%
EEMX	SPDR MSCI Emerging Markets Fossil Fuel Free ETF	0.36%

Emerging Most Overbought

Ticker	Fund	Value
VNM	VanEck Vietnam ETF	71.19
EWT	iShares MSCI Taiwan ETF	66.59
THD	iShares MSCI Thailand ETF	64.71
PIE	Invesco DWA Emerging Markets Momentum ETF	64.12
EEMV	iShares MSCI Emerging Markets Min Vol Factor ETF	62.28
QAT	iShares MSCI Qatar ETF	60.99
GMF	SPDR S&P Emerging Asia Pacific ETF	60.02
EELV	Invesco S&P Emerging Markets Low Volatility ETF	59.32
ECNS	iShares MSCI China Small-Cap ETF	58.82
FNI	First Trust Chindia ETF	58.51

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
TUR	iShares MSCI Turkey ETF	-4.46%
ECH	iShares MSCI Chile ETF	-4.37%
EWZS	iShares MSCI Brazil Small-Cap ETF	-4.21%
FLBR	Franklin FTSE Brazil ETF	-2.38%
EWZ	iShares MSCI Brazil ETF	-2.37%
ILF	iShares Latin America 40 ETF	-1.84%
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fund	-1.54%
EZA	iShares MSCI South Africa ETF	-1.30%
EPU	iShares MSCI Peru ETF	-1.26%
FRDM	Freedom 100 Emerging Markets ETF	-1.24%

Emerging Most Oversold

Ticker	Fund	Value
EPOL	iShares MSCI Poland ETF	28.78
ERUS	iShares MSCI Russia ETF	37.12
SDEM	Global X MSCI SuperDividend Emerging Markets ETF	38.57
EWM	iShares MSCI Malaysia ETF	39.15
EWW	iShares MSCI Mexico ETF	39.73
DVYE	iShares Emerging Markets Dividend ETF	39.80
FEM	First Trust Emerging Markets AlphaDEX Fund	40.26
ILF	iShares Latin America 40 ETF	40.56
RSX	VanEck Russia ETF	40.62
DEM	WisdomTree Emerging Markets High Dividend Fund	43.62

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

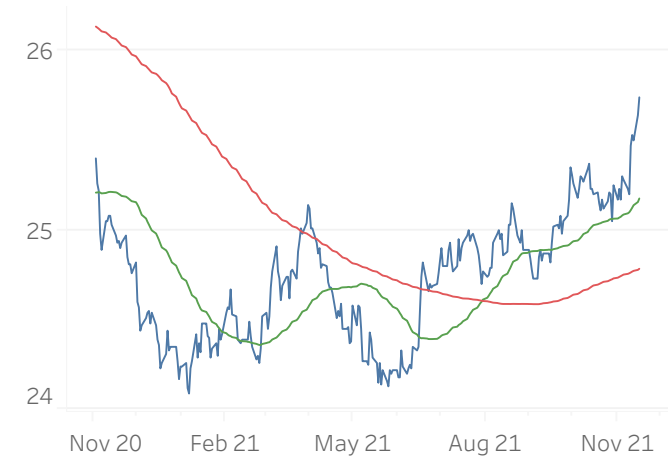
Fixed Income (AGG)



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	-0.04%	-0.46%	-2.20%
SHY	1-3 Year Treasury Bonds	0.00%	-0.20%	-0.53%
IEF	7-10 Year Treasury Bonds	-0.09%	-0.38%	-4.27%
TLT	20+ Year Treasury Bonds	-0.25%	0.18%	-6.80%
TIP	TIPS Bonds	-0.15%	1.41%	5.73%
FLOT	Floating Rate Bonds	0.00%	0.01%	0.52%
LQD	Investment Grade Corporate	-0.17%	-0.91%	-2.78%
HYG	High Yield Corporate	0.05%	-0.17%	2.79%
BKLN	Senior Loan	-0.05%	0.17%	1.98%
PFF	Preferred & Income Securities	-0.13%	-0.06%	4.75%
MUB	Municipal Bonds	-0.12%	0.13%	0.38%
MBB	MBS	0.05%	-0.46%	-1.44%
EMB	Dollar Denominated EM Bonds	-0.23%	-0.48%	-2.91%
LEMB	Local Currency EM Bond	-0.53%	-2.01%	-8.33%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	0.03%	-1.77%	37.21%
DBE	Energy	0.50%	-2.38%	66.42%
USO	WTI Crude Oil	0.23%	-1.66%	70.25%
BNO	Brent Crude Oil	0.50%	-2.01%	70.03%
UNG	Natural Gas	2.32%	-8.81%	86.74%
UGA	Gasoline	0.76%	-2.79%	73.63%
DBP	Precious Metals	-0.93%	4.85%	-4.94%
GLD	Gold	-0.72%	4.59%	-3.05%
SLV	Silver	-1.20%	6.39%	-6.55%
PPLT	Platinum	-2.50%	0.39%	-1.72%
PALL	Palladium	-0.28%	3.73%	-12.50%
DBB	Base Metals	-1.05%	-13.01%	20.51%
CPER	Copper	-1.41%	-8.26%	22.22%
LD	Lead	-1.68%	-2.16%	16.27%
JJN	Nickel	0.02%	-2.61%	16.34%
JJU	Aluminum	-2.45%	-18.86%	27.51%
JJT	Tin	1.03%	3.02%	113.96%
DBA	Agriculture	0.05%	3.49%	23.11%
CORN	Corn	-0.56%	6.64%	37.03%
SOYB	Soybeans	-0.36%	1.86%	12.22%
WEAT	Wheat	-2.00%	8.89%	26.66%
CANE	Sugar	1.15%	0.63%	42.81%
BAL	Cotton	0.19%	10.81%	45.14%
NIB	Cocoa	0.72%	-4.46%	-5.80%
JO	Coffee	-0.53%	9.82%	64.45%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	0.39%	2.14%	6.19%
UDN	Short Dollar	-0.49%	-2.32%	-7.17%
FXE	Euro	-0.39%	-2.56%	-8.22%
FXB	British Pound Sterling	0.13%	-2.36%	-2.16%
FXF	Swiss Franc	-0.52%	-1.01%	-5.89%
FXJ	Japanese Yen	-0.61%	-0.64%	-10.58%
FXC	Canadian Dollar	-0.40%	-1.57%	0.87%
FXA	Australian Dollar	-0.65%	-1.69%	-5.71%

* 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