

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

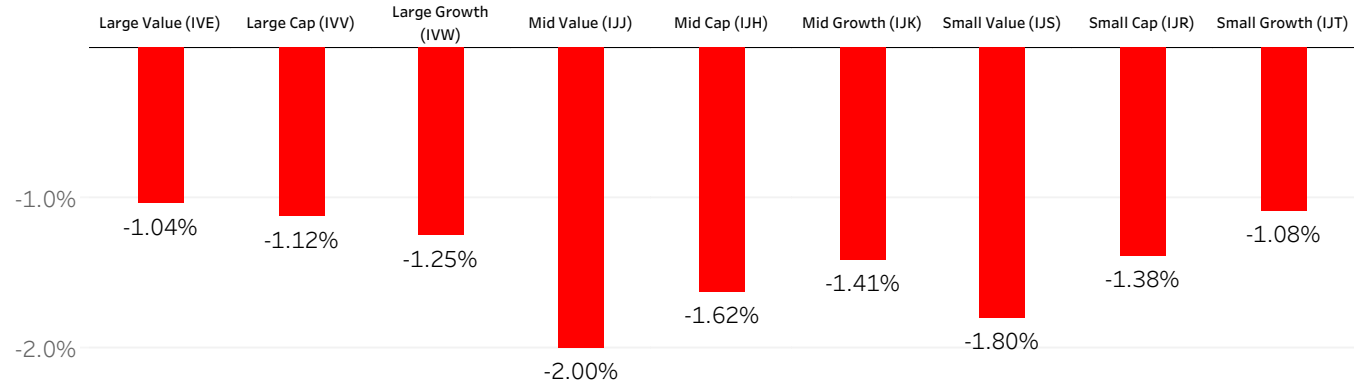


Small Cap Blend (S&P 600) IJR



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

U.S. Size & Style 1-Day Performance



Size & Style 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
FDL	First Trust Morningstar Dividend Leaders Index Fund	0.14%
ONOF	Global X Adaptive U.S. Risk Management ETF	0.00%
DIV	Global X SuperDividend US ETF	-0.05%
HDV	iShares Core High Dividend ETF	-0.17%
LVHD	Legg Mason Low Volatility High Dividend ETF	-0.20%
DURA	VanEck Morningstar Durable Dividend ETF	-0.25%
SPLV	Invesco S&P 500 Low Volatility ETF	-0.31%
FLLV	Franklin Liberty U.S. Low Volatility ETF	-0.35%
SIXL	ETC 6 Meridian Low Beta Equity ETF	-0.36%
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	-0.39%

Size & Style Most Overbought

Ticker	Fund	Value
FDL	First Trust Morningstar Dividend Leaders Index Fund	65.82
LVHD	Legg Mason Low Volatility High Dividend ETF	61.76
SPLV	Invesco S&P 500 Low Volatility ETF	59.76
HUSV	First Trust Horizon Managed Volatility Domestic ETF	57.65
DURA	VanEck Morningstar Durable Dividend ETF	56.66
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	56.22
DHS	WisdomTree U.S. High Dividend Fund	55.37
DIV	Global X SuperDividend US ETF	54.59
OUSA	OShares U.S. Quality Dividend ETF	54.14
DTN	WisdomTree U.S. Dividend ex-Financials Fund	53.96

Size & Style 1-Day Performance Laggards

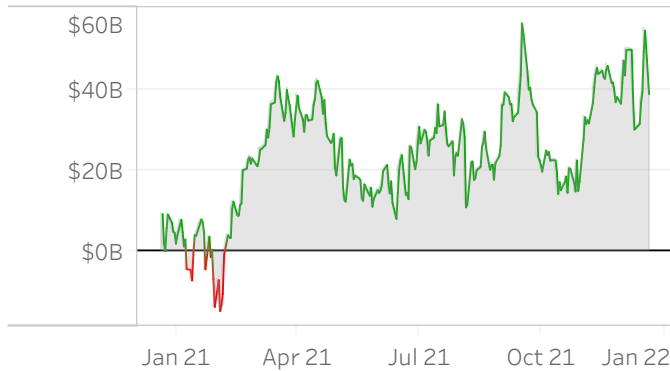
Ticker	Fund	1-Day Performance
QVAL	Alpha Architect U.S. Quantitative Value ETF	-2.81%
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	-2.65%
XMVM	Invesco S&P MidCap Value with Momentum ETF	-2.59%
RWK	Invesco S&P MidCap 400 Revenue ETF	-2.47%
XMMO	Invesco S&P MidCap Momentum ETF	-2.47%
XMHQ	Invesco S&P MidCap Quality ETF	-2.46%
CSF	VictoryShares US Discovery Enhanced Volatility Wtd ETF	-2.44%
RFV	Invesco S&P Midcap 400 Pure Value ETF	-2.43%
SYLD	Cambria Shareholder Yield ETF	-2.39%
PY	Principal Value ETF	-2.39%

Size & Style Most Oversold

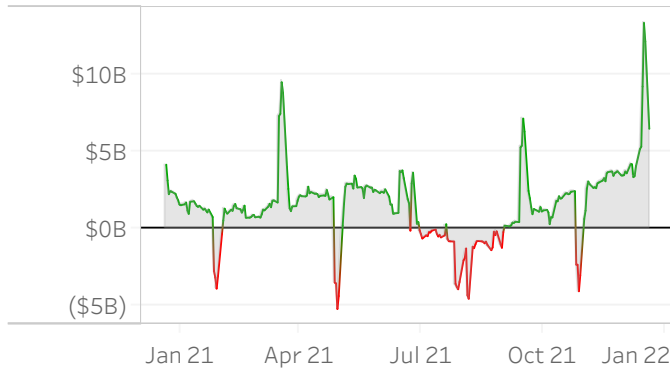
Ticker	Fund	Value
BIBL	Inspire 100 ETF	23.58
NUMG	Nuveen ESG Mid-Cap Growth ETF	24.89
NUSC	Nuveen ESG Small-Cap ETF	26.81
ISMD	Inspire Small/Mid Cap Impact ETF	27.25
NUMV	Nuveen ESG Mid-Cap Value ETF	28.69
MFMS	Motley Fool Small-Cap Growth ETF	31.00
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	31.72
XMMO	Invesco S&P MidCap Momentum ETF	31.75
CSD	Invesco S&P Spin-Off ETF	31.79
NULG	Nuveen ESG Large-Cap Growth ETF	31.93

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

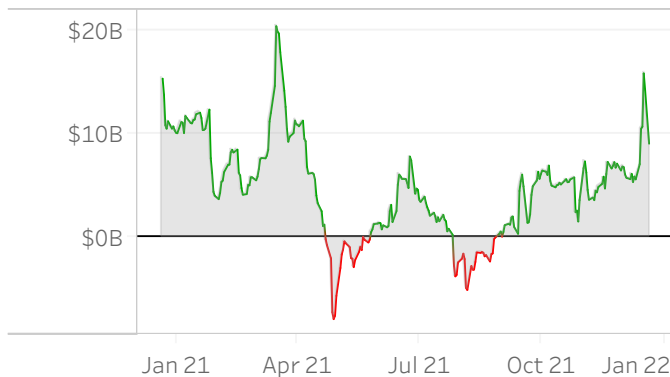
Large-Cap 30-Day Rolling Flows



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	\$1,371B	\$2.88B	\$48.11B	\$103.53B	\$140.16B
Large Cap, Beta Growth, Beta: Growth	10	\$273B	\$1.40B	\$3.59B	\$11.41B	\$8.40B
Mid Cap, Beta, Beta	10	\$193B	\$1.22B	\$6.15B	\$7.04B	\$11.89B
Large Cap, Beta Growth, Beta: Value	11	\$212B	\$0.61B	\$7.81B	\$9.63B	\$30.69B
Small Cap, Beta, Beta	12	\$221B	\$0.47B	\$13.22B	\$11.37B	\$22.40B
Mid Cap, Beta, Beta: Growth	6	\$40B	\$0.27B	\$0.85B	\$1.04B	(\$1.82B)
Mid Cap, Beta, Beta: Value	6	\$42B	\$0.21B	\$0.95B	(\$0.08B)	\$4.18B
Small Cap, Beta, Beta: Growth	7	\$38B	(\$0.38B)	\$0.87B	\$1.35B	\$1.41B
Small Cap, Beta, Beta: Value	7	\$57B	(\$0.49B)	\$1.09B	(\$0.59B)	\$6.94B

U.S. Size & Style Flow Leaders

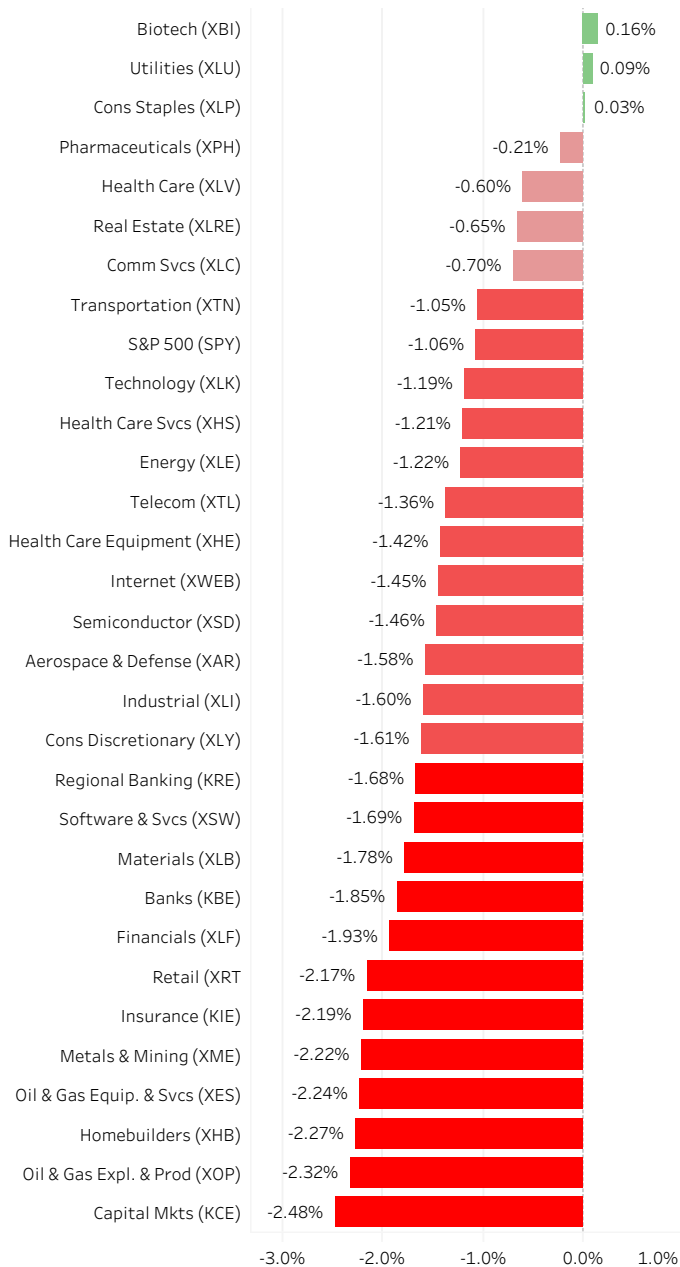
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
QQQ	Invesco QQQ Trust	\$5.80B	\$11.40B	\$19.64B	\$22.11B	\$208.55B
VOO	Vanguard S&P 500 ETF	\$2.26B	\$5.47B	\$18.90B	\$44.21B	\$269.47B
VTI	Vanguard Total Stock Market ETF	\$2.06B	\$13.92B	\$24.76B	\$45.55B	\$291.20B
IJR	iShares Core S&P Small Cap ETF	\$1.01B	\$3.31B	\$2.26B	\$4.82B	\$71.79B
VO	Vanguard Mid-Cap ETF	\$0.95B	\$3.25B	\$4.58B	\$6.37B	\$57.15B
VUG	Vanguard Growth ETF	\$0.55B	(\$0.10B)	\$1.09B	\$3.40B	\$87.96B
IWM	iShares Russell 2000 ETF	\$0.46B	\$5.83B	\$2.27B	\$3.89B	\$67.87B
VIG	Vanguard Dividend Appreciation ETF	\$0.37B	\$1.70B	\$3.07B	\$4.33B	\$67.75B
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.36B	\$0.21B	(\$1.17B)	(\$0.37B)	\$29.34B
IWF	iShares Russell 1000 Growth ETF	\$0.33B	(\$0.28B)	\$1.22B	(\$2.39B)	\$76.42B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IVV	iShares Core S&P 500 ETF	(\$3.33B)	\$10.26B	\$16.41B	\$26.14B	\$324.32B
VB	Vanguard Small-Cap ETF	(\$1.31B)	\$2.40B	\$3.35B	\$6.48B	\$49.48B
VBR	Vanguard Small Cap Value ETF	(\$0.55B)	\$1.31B	\$1.68B	\$4.21B	\$26.30B
VBK	Vanguard Small-Cap Growth ETF	(\$0.53B)	\$0.60B	\$1.01B	\$1.15B	\$16.26B
HDV	iShares Core High Dividend ETF	(\$0.31B)	(\$0.18B)	\$0.10B	\$0.72B	\$7.29B
MTUM	iShares MSCI USA Momentum Factor ETF	(\$0.06B)	(\$0.18B)	(\$1.11B)	(\$0.07B)	\$14.41B
VONE	Vanguard Russell 1000 ETF	(\$0.05B)	\$0.14B	\$0.27B	\$0.46B	\$2.87B
SPHB	Invesco S&P 500 High Beta ETF	(\$0.04B)	\$0.23B	(\$0.56B)	\$0.70B	\$1.49B
FVAL	Fidelity Value Factor ETF	(\$0.03B)	\$0.01B	\$0.01B	\$0.09B	\$0.43B
IQSU	IQ Candriam ESG US Equity ETF	(\$0.03B)	(\$0.01B)	\$0.01B	\$0.08B	\$0.50B

* 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)
XLV	Health Care Select Sector SPDR Fund	-1.68%	23.25%	3.06%	6.76%	60.73
XLRE	Real Estate Select Sector SPDR Fund	-1.83%	40.62%	2.39%	9.03%	53.75
XLU	Utilities Select Sector SPDR Fund	-2.18%	19.14%	3.18%	5.01%	57.13
XLP	Consumer Staples Select Sector SPDR Fund	-2.35%	18.03%	3.29%	5.48%	58.77
SPY	SPDR S&P 500 ETF Trust	-3.35%	23.37%	-1.20%	4.57%	43.01
XLB	Materials Select Sector SPDR Fund	-4.93%	21.26%	-1.23%	1.95%	42.54
XLK	Technology Select Sector SPDR Fund	-5.32%	31.58%	0.18%	9.72%	45.33
XLI	Industrial Select Sector SPDR Fund	-6.25%	18.46%	-3.77%	-2.13%	36.00
XLF	Financial Select Sector SPDR Fund	-7.29%	30.09%	-4.63%	0.44%	38.46
XLY	Consumer Discretionary Select Sector SPDR Fund	-9.26%	23.11%	-4.68%	4.74%	35.66
XLE	Energy Select Sector SPDR Fund	-10.37%	39.87%	-6.85%	1.17%	35.86
XLC	Communication Services Select Sector SPDR Fund	-11.92%	16.46%	-4.01%	-4.84%	39.73

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
KBWY	Invesco KBW Premium Yield Equity REIT ETF	0.76%
PJP	Invesco Dynamic Pharmaceuticals ETF	0.75%
IHE	iShares U.S. Pharmaceuticals ETF	0.53%
FBT	First Trust NYSE Arca Biotechnology Index Fund	0.21%
XBI	SPDR S&P BIOTECH ETF	0.16%
XLU	Utilities Select Sector SPDR Fund	0.09%
VPU	Vanguard Utilities ETF	0.07%
RYU	Invesco S&P 500 Equal Weight Utilities ETF	0.07%
PSCC	Invesco S&P SmallCap Consumer Staples ETF	0.04%
FXU	First Trust Utilities AlphaDEX Fund	0.03%

Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
IHE	iShares U.S. Pharmaceuticals ETF	64.11
IYK	iShares U.S. Consumer Staples ETF	62.89
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	61.52
XLV	Health Care Select Sector SPDR Fund	60.73
JHMH	John Hancock Multifactor Healthcare ETF	60.54
IYH	iShares U.S. Healthcare ETF	60.34
FBT	First Trust NYSE Arca Biotechnology Index Fund	59.46
IHF	iShares U.S. Healthcare Providers ETF	59.46
VDC	Vanguard Consumer Staples ETF	58.89
RHS	Invesco S&P 500 Equal Weight Consumer Staples ETF	58.86

Sector & Industry 1 Day Performance Laggards

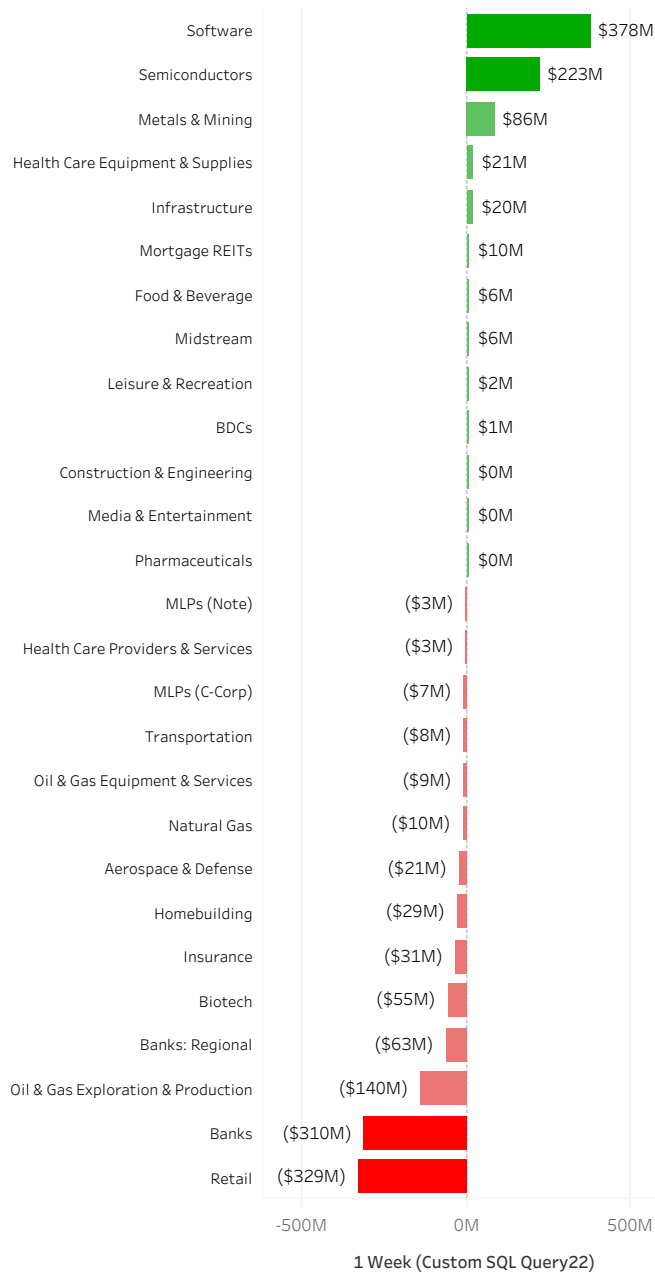
Ticker	Fund	1 Day Performance
PYZ	Invesco DWA Basic Materials Momentum ETF	-2.91%
PEZ	Invesco DWA Consumer Cyclical Momentum ETF	-2.82%
PSCD	Invesco S&P SmallCap Consumer Discretionary ETF	-2.74%
PSCI	Invesco S&P SmallCap Industrials ETF	-2.67%
AMZA	InfraCap MLP ETF	-2.63%
IEZ	iShares U.S. Oil Equipment & Services ETF	-2.61%
FXZ	First Trust Materials AlphaDEX Fund	-2.59%
AIRR	First Trust RBA American Industrial Renaissance ETF	-2.59%
PSCE	Invesco S&P SmallCap Energy ETF	-2.56%
KBWP	Invesco KBW Property & Casualty Insurance ETF	-2.51%

Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
REM	iShares Mortgage Real Estate ETF	25.40
KBWD	Invesco KBW High Dividend Yield Financial ETF	26.60
MORT	VanEck Mortgage REIT Income ETF	28.48
XRT	SPDR S&P Retail ETF	29.48
PSCI	Invesco S&P SmallCap Industrials ETF	30.13
PEZ	Invesco DWA Consumer Cyclical Momentum ETF	30.35
PFI	Invesco DWA Financial Momentum ETF	30.54
PNQI	Invesco NASDAQ Internet ETF	30.77
PSJ	Invesco Dynamic Software ETF	30.82
AML	Alerian MLP ETF	31.56

* 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	(\$215M)	(\$719M)	\$1,265M	\$957M
Consumer Discretionary	13	\$36B	(\$544M)	\$1,026M	\$1,280M	\$2,082M
Consumer Staples	12	\$22B	(\$45M)	(\$393M)	\$230M	(\$2,267M)
Energy	34	\$52B	\$83M	\$1,634M	\$214M	\$9,392M
Financials	28	\$80B	(\$320M)	\$3,639M	\$421M	\$19,415M
Health Care	26	\$92B	\$433M	\$816M	\$6,479M	\$3,881M
Industrial	14	\$34B	\$343M	(\$421M)	(\$3,730M)	(\$442M)
Materials	10	\$16B	\$156M	(\$482M)	(\$2,819M)	\$3,704M
Multi-Sector	17	\$26B	(\$14M)	\$1,305M	\$1,656M	\$4,305M
Real Estate	22	\$81B	\$398M	\$1,724M	\$4,928M	\$11,420M
Technology	24	\$155B	\$591M	\$4,947M	\$8,317M	\$7,253M
Utilities	10	\$21B	(\$94M)	(\$439M)	\$913M	(\$173M)

U.S. Sector & Industry Flow Leaders

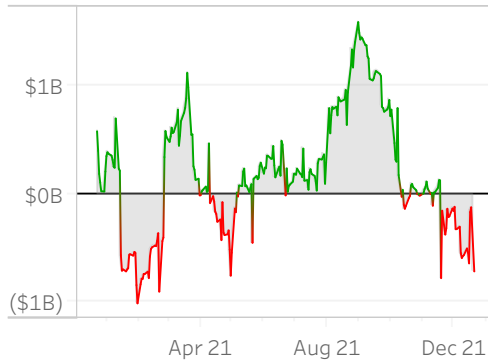
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IGV	iShares Expanded Tech-Software Sector ETF	\$514M	\$1,033M	\$1,095M	\$14M	\$6,289M
XLV	Health Care Select Sector SPDR Fund	\$401M	\$403M	\$4,023M	\$3,645M	\$34,480M
XLI	Industrial Select Sector SPDR Fund	\$393M	(\$507M)	(\$2,446M)	(\$2,138M)	\$17,118M
VNQ	Vanguard Real Estate ETF	\$212M	\$1,733M	\$2,491M	\$6,694M	\$48,162M
XLE	Energy Select Sector SPDR Fund	\$198M	(\$77M)	\$64M	\$5,486M	\$25,351M
SOXX	iShares Semiconductor ETF	\$193M	\$1,181M	\$1,529M	\$2,405M	\$9,339M
ITB	iShares U.S. Home Construction ETF	\$191M	\$405M	\$218M	\$270M	\$3,068M
FDIS	Fidelity MSCI Consumer Discretionary Index ETF	\$177M	\$271M	\$291M	\$413M	\$1,918M
KCE	SPDR S&P Capital Markets ETF	\$155M	\$206M	\$273M	\$320M	\$393M
XLRE	Real Estate Select Sector SPDR Fund	\$152M	\$1,027M	\$1,968M	\$2,578M	\$5,792M

U.S. Sector & Industry Flow Laggards

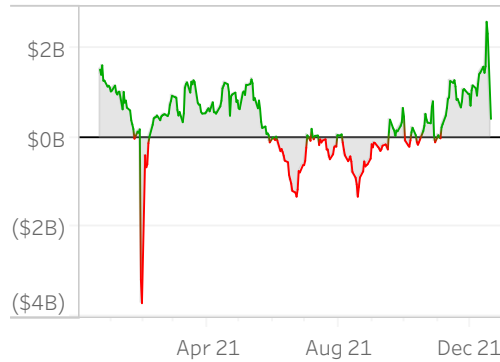
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XRT	SPDR S&P Retail ETF	(\$329M)	(\$716M)	(\$336M)	(\$522M)	\$299M
XLY	Consumer Discretionary Select Sector SPDR Fu..	(\$227M)	\$1,328M	\$1,140M	\$207M	\$22,716M
XHB	SPDR S&P Homebuilders ETF	(\$221M)	\$102M	(\$130M)	\$180M	\$2,044M
KBWB	Invesco KBW Bank ETF	(\$208M)	(\$102M)	\$477M	\$911M	\$2,743M
IYC	iShares U.S. Consumer Discretionary ETF	(\$169M)	\$80M	(\$147M)	\$40M	\$1,441M
XLF	Financial Select Sector SPDR Fund	(\$167M)	\$2,153M	(\$566M)	\$9,245M	\$42,691M
REZ	iShares Residential and Multisector Real Estat..	(\$144M)	(\$41M)	\$355M	\$504M	\$1,125M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	(\$143M)	(\$518M)	(\$953M)	(\$557M)	\$3,081M
XSW	SPDR S&P Software & Services ETF	(\$132M)	(\$115M)	(\$97M)	\$23M	\$392M
XLC	Communication Services Select Sector SPDR Fu..	(\$120M)	(\$654M)	\$644M	\$120M	\$13,756M

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

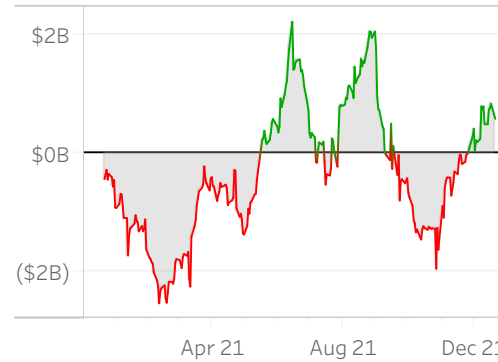
Communication Services



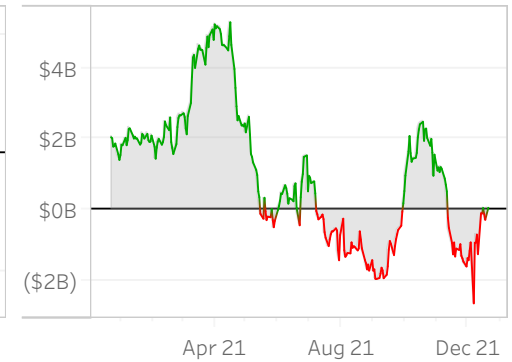
Consumer Discretionary



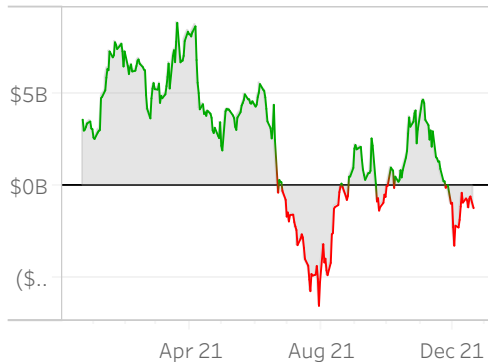
Consumer Staples



Energy



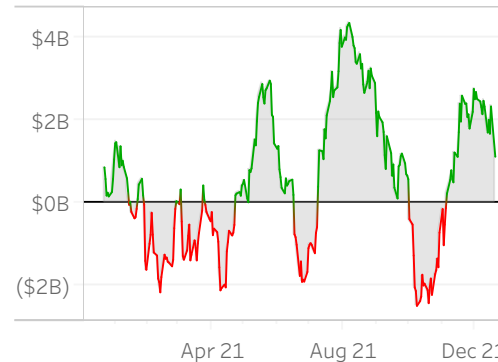
Financials



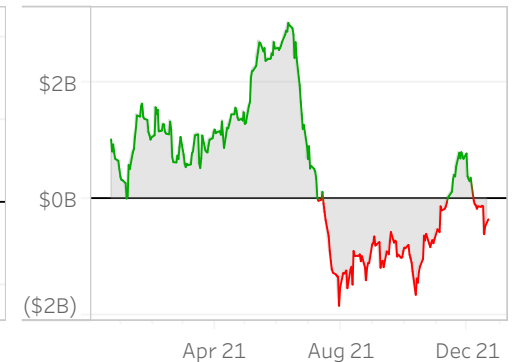
Industrial



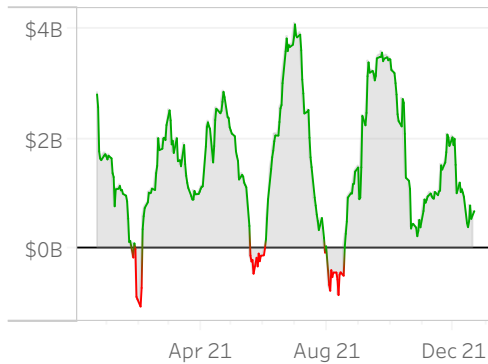
Health Care



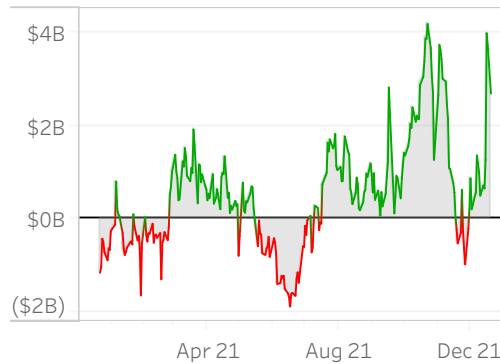
Materials



Real Estate



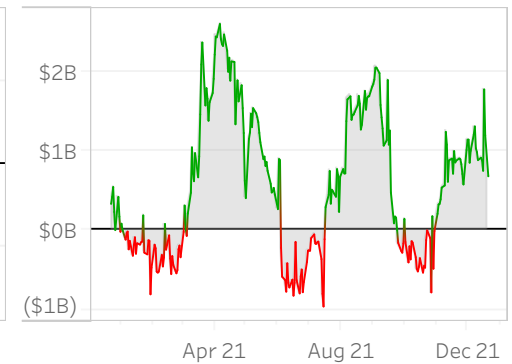
Technology



Utilities

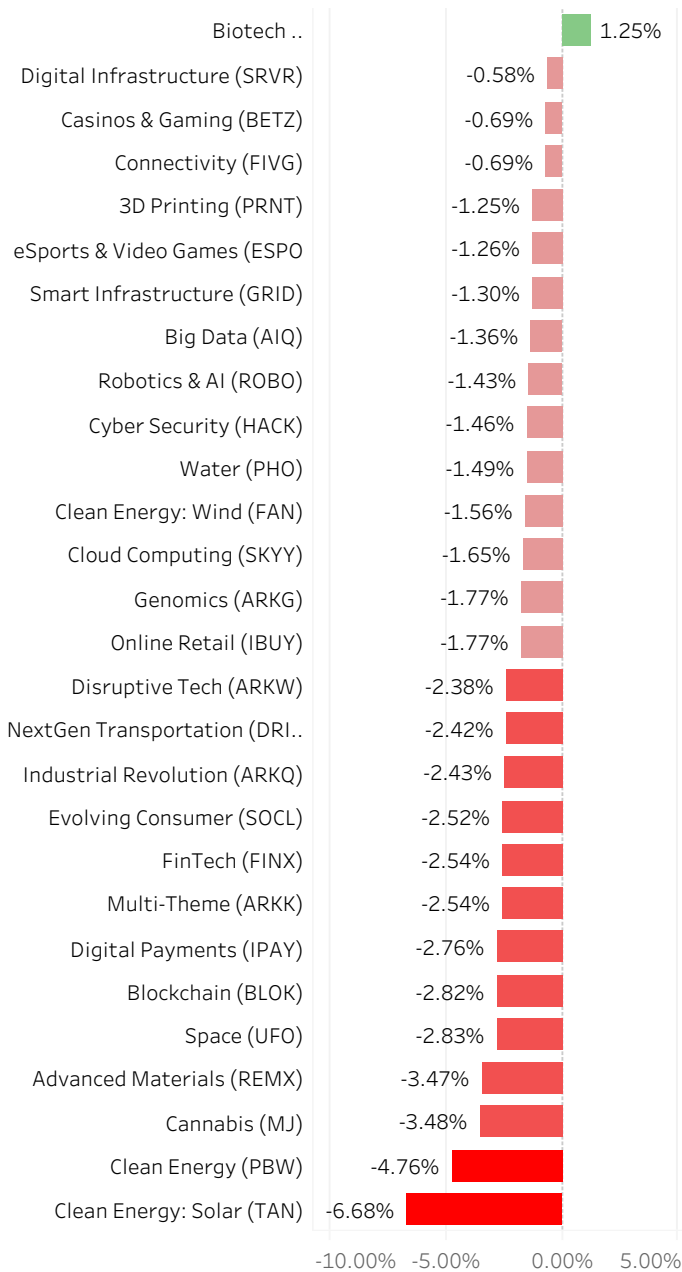


Multi-Sector

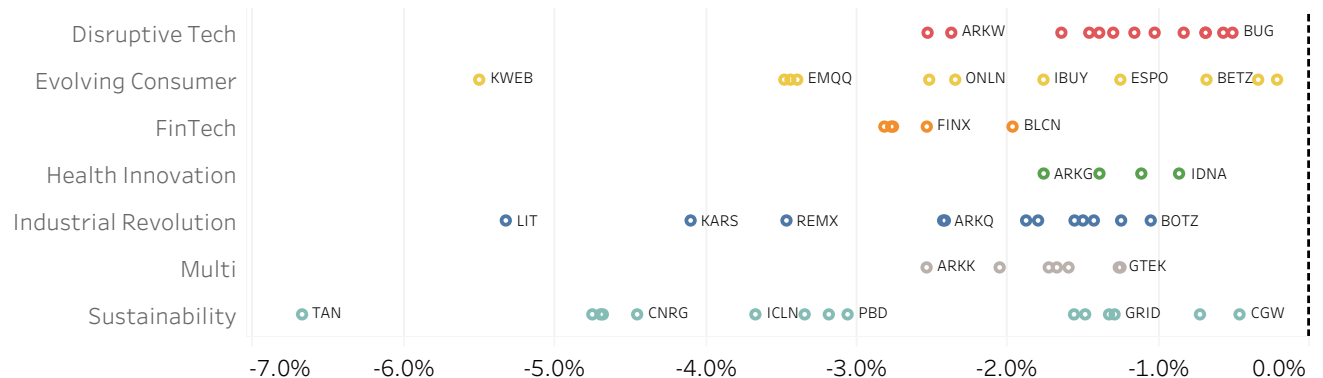


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	Performance
SBIO	ALPS Medical Breakthroughs ETF	1.25%
VPN	Global X Data Center REITs & Digital Infrastructure ETF	0.19%
BJK	VanEck Gaming ETF	0.00%
GAMR	Wedbush ETFMG Video Game Tech ETF	-0.15%
HERO	Global X Video Games & Esports ETF	-0.22%
PAWZ	ProShares Pet Care ETF	-0.34%
BTEC	Principal Healthcare Innovators ETF	-0.39%
KLDW	Knowledge Leaders Developed World ETF	-0.46%
CGW	Invesco S&P Global Water Index ETF	-0.47%
EBLU	Ecofin Global Water ESG Fund	-0.48%

Thematic Most Overbought

Ticker	Fund	Price
VPN	Global X Data Center REITs & Digital Infrastructure ETF	56.95
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR ..	55.98
SBIO	ALPS Medical Breakthroughs ETF	52.61
GERM	ETFMG Treatments Testing and Advancements ETF	52.60
NXTG	First Trust Indxx NextG ETF	49.66
FIVG	Defiance Next Gen Connectivity ETF	49.39
GNOM	Global X Genomics & Biotechnology ETF	48.16
IDNA	iShares Genomics Immunology and Healthcare ETF Genom..	47.27
BTEC	Principal Healthcare Innovators ETF	46.55
ARKG	ARK Genomic Revolution ETF	46.13

Global Thematic 1-Day Performance Laggards

Ticker	Fund	Performance
TAN	Invesco Solar ETF	-6.68%
KGRN	KraneShares MSCI China Clean Technology Index ETF	-6.35%
CTEC	Global X CleanTech ETF	-5.65%
KWEB	KraneShares CSI China Internet ETF	-5.51%
LIT	Global X Lithium & Battery Tech ETF	-5.33%
PBW	Invesco WilderHill Clean Energy ETF	-4.76%
ACES	ALPS Clean Energy ETF	-4.70%
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	-4.69%
CNRG	SPDR S&P Kensho Clean Power ETF	-4.46%
BATT	Amplify Lithium & Battery Technology ETF	-4.28%

Thematic Most Oversold

Ticker	Fund	Price
KEMQ	KraneShares Emerging Markets Consumer Technology In..	20.98
EMQQ	Emerging Markets Internet & Ecommerce ETF	23.18
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	23.47
DAPP	VanEck Digital Transformation ETF	23.65
IBUY	Amplify Online Retail ETF	25.51
SOCL	Global X Social Media ETF	26.08
ONLN	ProShares Online Retail ETF	26.12
TAN	Invesco Solar ETF	26.21
ACES	ALPS Clean Energy ETF	26.37
KWEB	KraneShares CSI China Internet ETF	26.40

* 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
ARKK	ARK Innovation ETF	\$218M
KOMP	SPDR S&P Kensho New Economies Composite ETF	\$30M
PBW	Invesco WilderHill Clean Energy ETF	\$25M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$20M
META	Roundhill Ball Metaverse ETF	\$18M
XT	iShares Exponential Technologies ETF	\$16M
SKYY	First Trust Cloud Computing ETF	\$16M
FIW	First Trust Water ETF	\$14M
IDRV	iShares Self-driving EV & Tech ETF	\$11M
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	\$10M

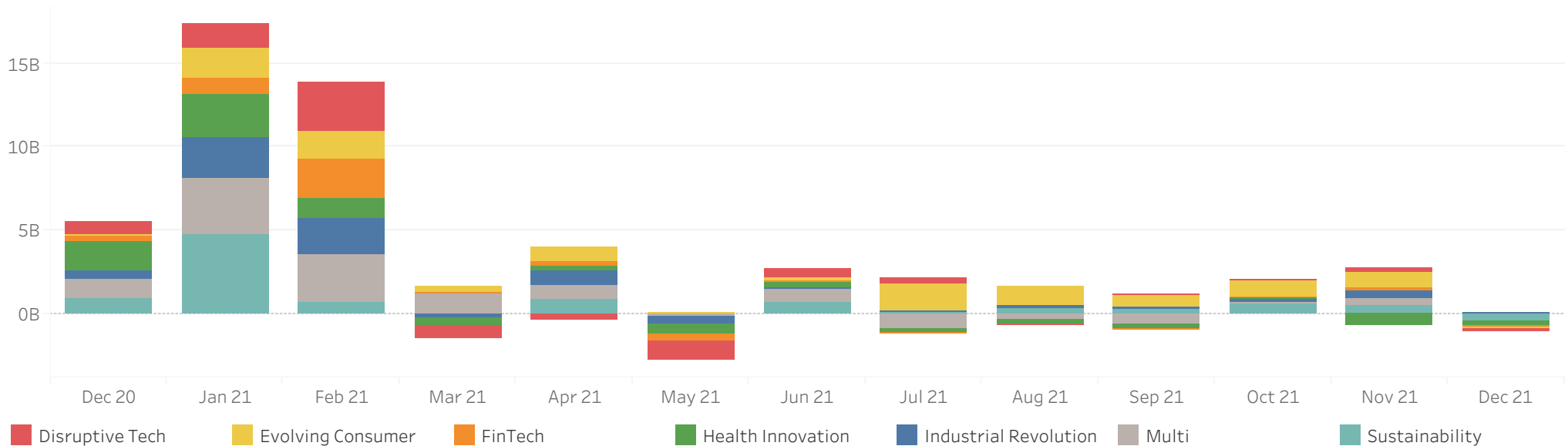
Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
ARKG	ARK Genomic Revolution ETF	(\$121M)
TAN	Invesco Solar ETF	(\$103M)
ARKF	ARK Fintech Innovation ETF	(\$95M)
KWEB	KraneShares CSI China Internet ETF	(\$83M)
ICLN	iShares Global Clean Energy ETF	(\$74M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$57M)
EDOC	Global X Telemedicine & Digital Health ETF	(\$53M)
MSOS	AdvisorShares Pure US Cannabis ETF	(\$27M)
HACK	ETFMG Prime Cyber Security ETF	(\$26M)
IHAK	iShares Cybersecurity & Tech ETF	(\$24M)

Thematic Landscape Assets & Flows

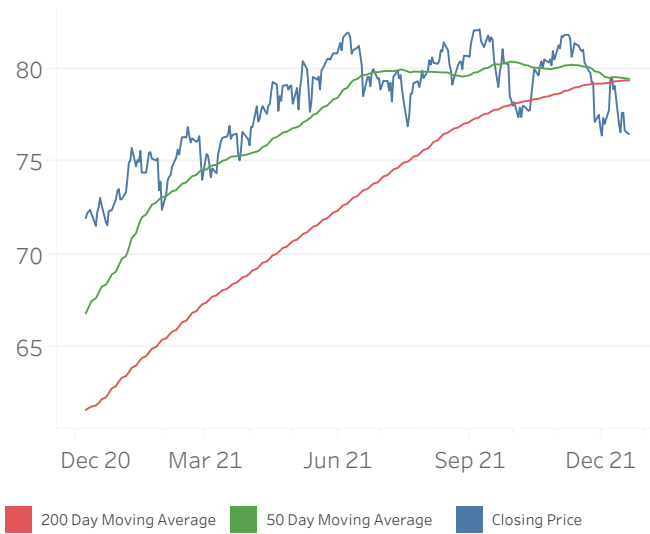
Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	37	\$28B	(\$46M)	\$70M	\$786M	\$3,956M
Evolving Consumer	44	\$15B	(\$129M)	\$1,878M	\$5,607M	\$10,469M
FinTech	18	\$7B	(\$95M)	\$18M	(\$178M)	\$3,649M
Health Innovation	17	\$7B	(\$129M)	(\$1,043M)	(\$1,360M)	\$3,350M
Industrial Revolution	22	\$16B	(\$82M)	\$600M	\$1,037M	\$6,520M
Multi	28	\$26B	\$147M	(\$39M)	(\$591M)	\$8,702M
Sustainability	36	\$22B	(\$148M)	\$593M	\$1,464M	\$8,996M
Grand Total	202	\$122B	(\$483M)	\$2,078M	\$6,765M	\$45,643M

Thematic Monthly Flows

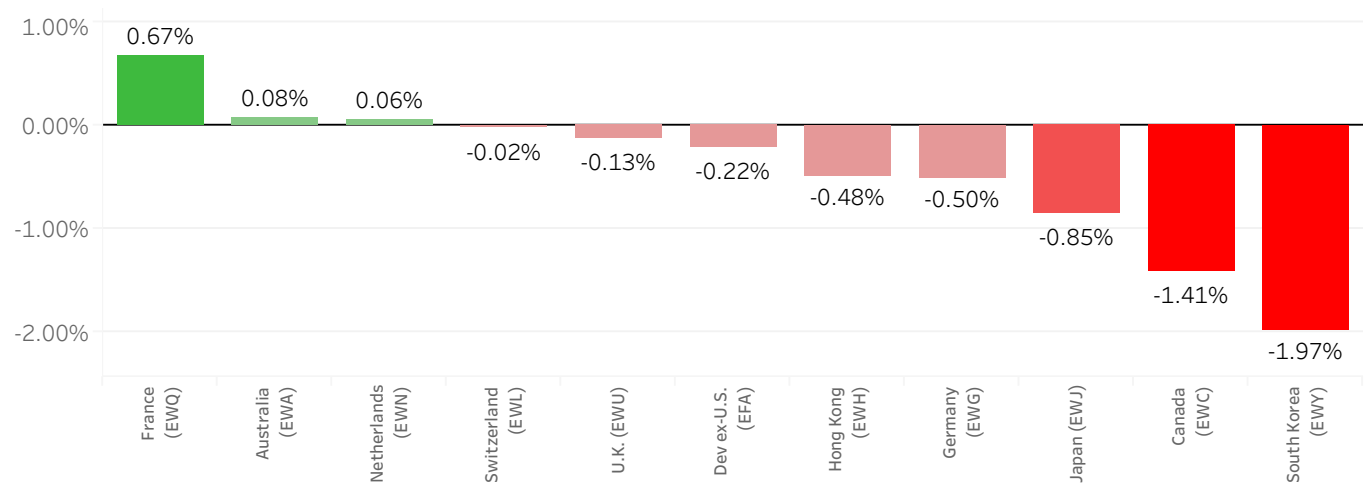


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

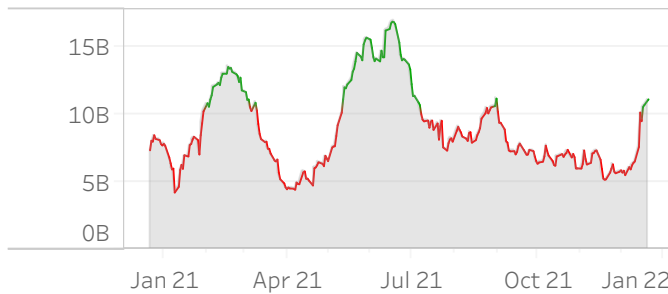
Developed ex-U.S. (EFA)



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



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



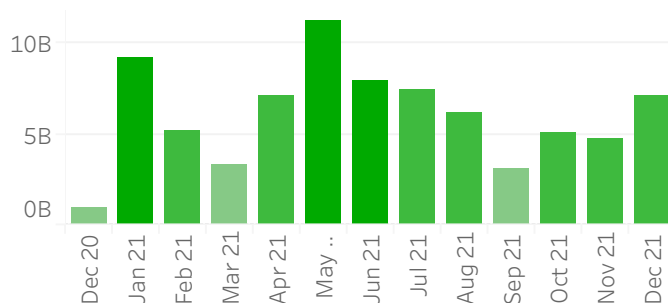
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
ENZL	iShares MSCI New Zealand ETF	0.98%
EWP	iShares MSCI Spain ETF	0.69%
EWQ	iShares MSCI France ETF	0.67%
TPIF	Timothy Plan International ETF	0.18%
EZU	iShares MSCI Eurozone ETF	0.17%
DTH	WisdomTree International High Dividend Fund	0.17%
SPEU	SPDR Portfolio Europe ETF	0.16%
EUDG	WisdomTree Europe Quality Dividend Growth Fund	0.16%
FEZ	SPDR EURO STOXX 50 ETF	0.11%
VGK	Vanguard FTSE Europe ETF	0.10%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
LVHI	Legg Mason International Low Volatility High Dividend ETF	58.67
EWL	iShares MSCI Switzerland ETF	56.90
DOO	WisdomTree International Dividend ex-Financials Fund	50.82
DTH	WisdomTree International High Dividend Fund	49.72
HDEF	Xtrackers MSCI EAFE High Dividend Yield Equity ETF	49.05
EUDG	WisdomTree Europe Quality Dividend Growth Fund	48.62
DDWM	WisdomTree Dynamic Currency Hedged International Equi..	48.55
DXJ	WisdomTree Japan Hedged Equity Fund	48.47
DOL	WisdomTree International LargeCap Dividend Fund	48.22
DWM	WisdomTree International Equity Fund	46.96

Developed ex-U.S. Monthly Flows



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

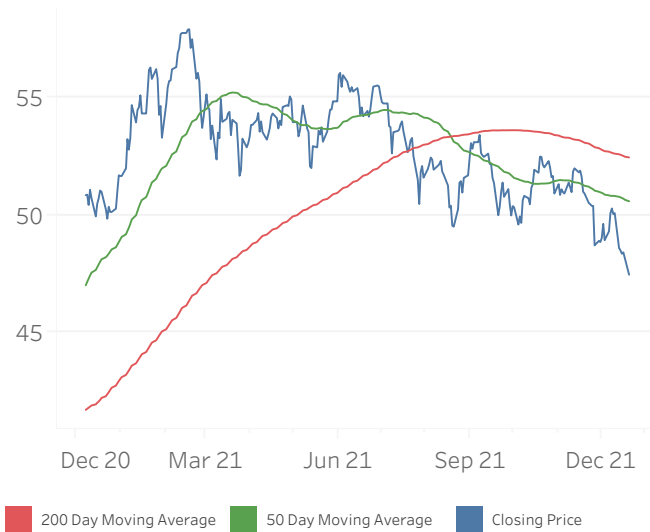
Ticker	Fund	1-Day Performance
EIS	iShares MSCI Israel ETF	-2.51%
FLKR	Franklin FTSE South Korea ETF	-2.01%
EWY	iShares MSCI South Korea ETF	-1.97%
AIA	iShares Asia 50 ETF	-1.97%
ISRA	VanEck Israel ETF	-1.86%
AAXJ	iShares MSCI All Country Asia ex Japan ETF	-1.44%
EWK	iShares MSCI Canada ETF	-1.41%
WPS	iShares International Developed Property ETF	-1.33%
SCJ	iShares MSCI Japan Small-Cap ETF	-1.29%
DFJ	WisdomTree Japan SmallCap Dividend Fund	-1.22%

Developed ex-U.S. Most Oversold

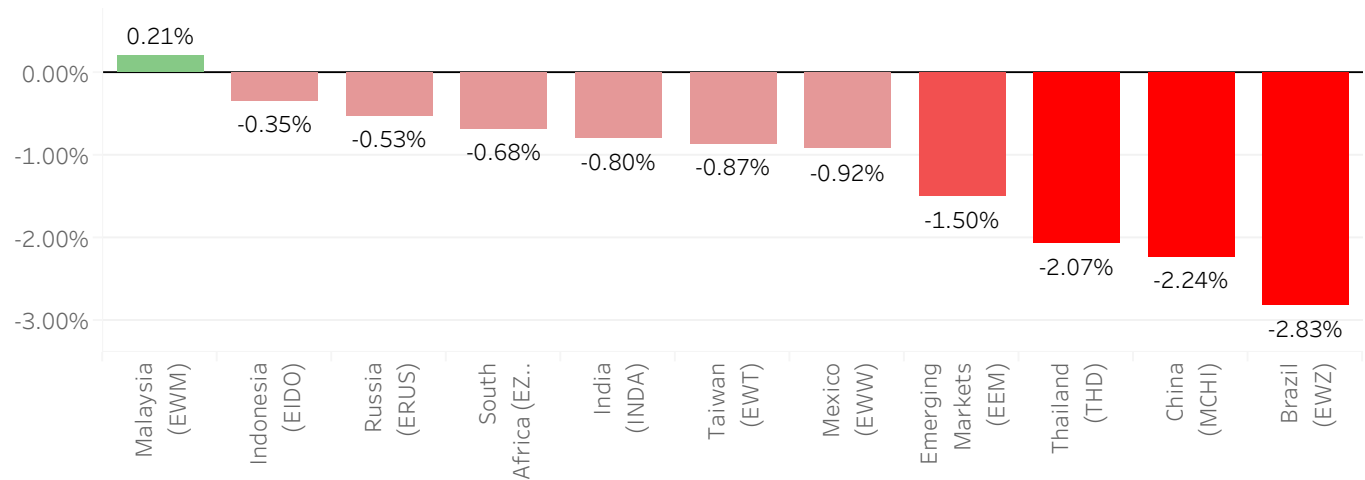
Ticker	Fund	Value
EWS	iShares MSCI Singapore ETF	17.96
AAXJ	iShares MSCI All Country Asia ex Japan ETF	27.76
EWK	iShares MSCI Hong Kong ETF	28.71
EWUS	iShares MSCI United Kingdom Small Cap ETF	29.50
AIA	iShares Asia 50 ETF	29.97
SCHC	Schwab International Small-Cap Equity ETF	30.85
NUDM	Nuveen ESG International Developed Markets Equit..	31.03
EPP	iShares MSCI Pacific ex-Japan ETF	31.93
SCZ	iShares MSCI EAFE Small-Cap ETF	31.97
PDN	Invesco FTSE RAFI Developed Markets ex-US Small..	32.31

*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)



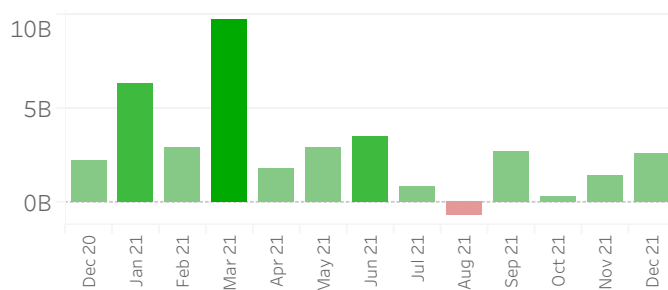
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
TUR	iShares MSCI Turkey ETF	21.22%
EPOL	iShares MSCI Poland ETF	1.15%
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fund	1.12%
QAT	iShares MSCI Qatar ETF	0.79%
AFK	VanEck Africa Index ETF	0.27%
EDIV	SPDR S&P Emerging Markets Dividend ETF	0.26%
EWM	iShares MSCI Malaysia ETF	0.21%
EPHE	iShares MSCI Philippines ETF	0.15%
EYLD	Cambria Emerging Shareholder Yield ETF	0.12%
EELV	Invesco S&P Emerging Markets Low Volatility ETF	0.03%

Emerging Most Overbought

Ticker	Fund	Price
EWZ	iShares MSCI Brazil ETF	56.51
EPHE	iShares MSCI Philippines ETF	55.22
TUR	iShares MSCI Turkey ETF	53.43
VNM	VanEck Vietnam ETF	50.70
EYLD	Cambria Emerging Shareholder Yield ETF	47.43
DEM	WisdomTree Emerging Markets High Dividend Fund	46.33
KSA	iShares MSCI Saudi Arabia ETF	45.77
EZA	iShares MSCI South Africa ETF	45.29
EDIV	SPDR S&P Emerging Markets Dividend ETF	45.03
QAT	iShares MSCI Qatar ETF	44.85

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
ECH	iShares MSCI Chile ETF	-11.04%
PGJ	Invesco Golden Dragon China ETF	-4.93%
FNI	First Trust Chindia ETF	-3.64%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	-3.10%
ILF	iShares Latin America 40 ETF	-3.00%
FLBR	Franklin FTSE Brazil ETF	-2.99%
ADRE	Invesco BLDERS Emerging Markets 50 ADR Index Fund	-2.91%
EWZS	iShares MSCI Brazil Small-Cap ETF	-2.86%
EWZ	iShares MSCI Brazil ETF	-2.83%
FLCH	Franklin FTSE China ETF	-2.48%

Emerging Most Oversold

Ticker	Fund	Price
MFEM	PIMCO RAFI Dynamic Multi-Factor Emerging Market..	20.82
INDY	iShares India 50 ETF	23.07
PIN	Invesco India ETF	23.33
GMF	SPDR S&P Emerging Asia Pacific ETF	24.27
NUEM	Nuveen ESG Emerging Markets Equity ETF	24.47
BKF	iShares MSCI BRIC ETF	25.24
INDA	iShares MSCI India ETF	25.27
PGJ	Invesco Golden Dragon China ETF	25.38
ADRE	Invesco BLDERS Emerging Markets 50 ADR Index Fund	25.44
FNI	First Trust Chindia ETF	25.80

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

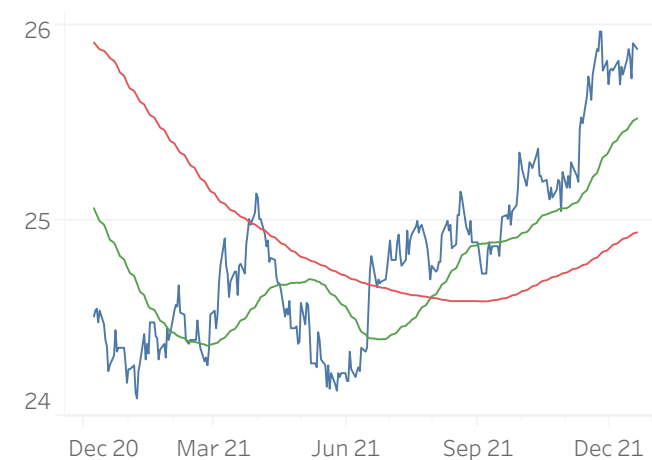
Fixed Income (AGG)



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	-0.15%	0.14%	-1.55%
SHY	1-3 Year Treasury Bonds	0.02%	-0.11%	-0.63%
IEF	7-10 Year Treasury Bonds	-0.09%	1.08%	-2.56%
TLT	20+ Year Treasury Bonds	-0.75%	1.14%	-3.63%
TIP	TIPS Bonds	-0.05%	-1.19%	4.55%
FLOT	Floating Rate Bonds	-0.02%	-0.13%	0.25%
LQD	Investment Grade Corporate	-0.44%	-0.12%	-1.91%
HYG	High Yield Corporate	-0.17%	0.28%	2.81%
BKLN	Senior Loan	0.03%	0.10%	1.81%
PFF	Preferred & Income Securities	-0.57%	-0.21%	4.69%
MUB	Municipal Bonds	0.00%	0.41%	1.12%
MBB	MBS	-0.02%	-0.07%	-1.34%
EMB	Dollar Denominated EM Bonds	-0.53%	-0.72%	-3.28%
LEMB	Local Currency EM Bond	0.88%	-1.43%	-10.65%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-0.98%	-7.52%	25.21%
DBE	Energy	-1.04%	-6.23%	48.62%
USO	WTI Crude Oil	-1.73%	-7.21%	51.17%
BNO	Brent Crude Oil	-1.78%	-7.52%	49.84%
UNG	Natural Gas	3.90%	-25.22%	35.98%
UGA	Gasoline	-1.83%	-2.20%	58.78%
DBP	Precious Metals	-0.44%	-4.77%	-9.68%
GLD	Gold	-0.42%	-3.20%	-6.32%
SLV	Silver	-0.53%	-9.58%	-16.28%
PPLT	Platinum	-0.21%	-9.67%	-13.84%
PALL	Palladium	-1.81%	-15.35%	-29.27%
DBB	Base Metals	-0.80%	-0.05%	22.71%
CPER	Copper	0.34%	-1.94%	20.79%
LD	Lead	0.21%	5.47%	18.81%
JJN	Nickel	-1.36%	-3.07%	15.33%
JJU	Aluminum	-2.71%	-1.78%	31.63%
JJT	Tin	-0.33%	-1.14%	116.06%
DBA	Agriculture	-1.17%	-3.59%	19.89%
CORN	Corn	-0.05%	0.51%	38.00%
SOYB	Soybeans	0.43%	0.65%	13.73%
WEAT	Wheat	0.27%	-6.99%	20.36%
CANE	Sugar	-1.85%	-6.92%	33.48%
BAL	Cotton	-1.79%	-9.57%	32.81%
NIB	Cocoa	-3.19%	-7.20%	-11.54%
JO	Coffee	-4.40%	-3.61%	62.66%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.12%	0.50%	6.77%
UDN	Short Dollar	0.12%	-0.57%	-7.83%
FXE	Euro	0.36%	-0.15%	-8.59%
FXB	British Pound Sterling	-0.20%	-1.74%	-3.76%
FXF	Swiss Franc	0.27%	0.67%	-5.06%
FXJ	Japanese Yen	0.00%	0.15%	-9.75%
FXC	Canadian Dollar	-0.32%	-2.25%	-2.07%
FXA	Australian Dollar	-0.25%	-1.80%	-8.21%

*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

www.etfaction.com