

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

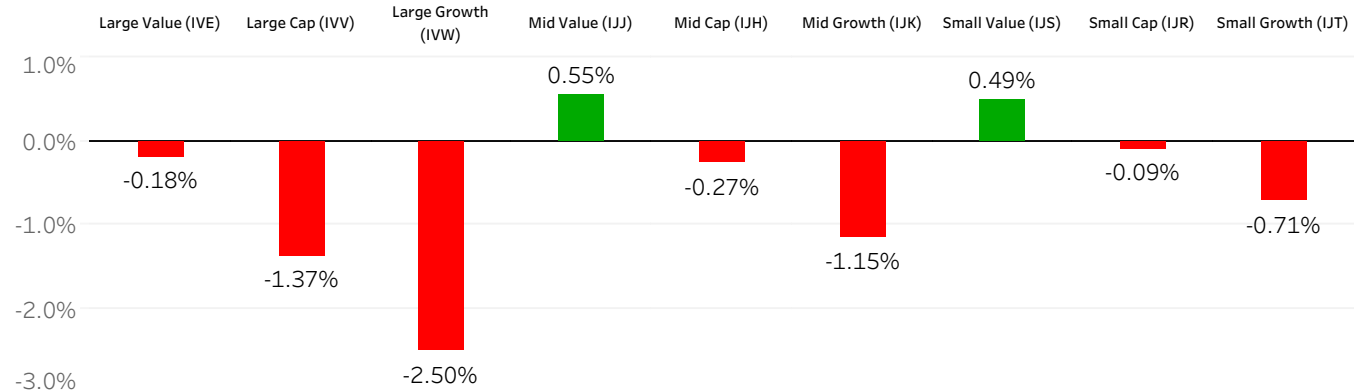


Small Cap Blend (S&P 600) IJR



■ 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
RFV	Invesco S&P Midcap 400 Pure Value ETF	1.12%
CSF	VictoryShares US Discovery Enhanced Volatility Wtd ETF	0.97%
DGRS	WisdomTree US Smallcap Quality Dividend Growth Fund	0.89%
CSB	VictoryShares US Small Cap High Dividend Volatility Wt..	0.86%
RPV	Invesco S&P 500 Pure Value ETF	0.83%
FYT	First Trust Small Cap Value AlphaDEX Fund	0.82%
RZV	Invesco S&P Smallcap 600 Pure Value ETF	0.76%
SVAL	iShares US Small Cap Value Factor ETF	0.71%
DES	WisdomTree U.S. SmallCap Dividend Fund	0.64%
RWK	Invesco S&P MidCap 400 Revenue ETF	0.63%

Size & Style Most Overbought

Ticker	Fund	Value
FDL	First Trust Morningstar Dividend Leaders Index Fund	80.39
DHS	WisdomTree U.S. High Dividend Fund	79.15
SPYD	SPDR Portfolio S&P 500 High Dividend ETF	76.97
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	75.36
DVY	iShares Select Dividend ETF	75.01
PEY	Invesco High Yield Equity Dividend Achievers ETF	74.48
VLUE	iShares MSCI USA Value Factor ETF	73.98
CDC	VictoryShares US EQ Income Enhanced Volatility Wtd ETF	73.82
SDOG	ALPS Sector Dividend Dogs ETF	73.44
RDIV	Invesco S&P Ultra Dividend Revenue ETF	72.77

Size & Style 1-Day Performance Laggards

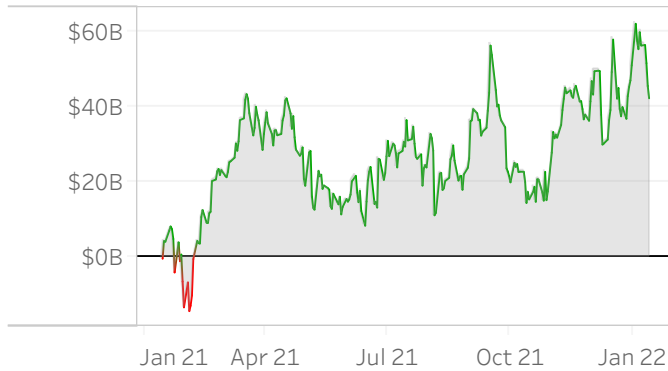
Ticker	Fund	1-Day Performance
IPO	Renaissance IPO ETF	-4.98%
BUZZ	VanEck Social Sentiment ETF	-3.59%
LCG	Sterling Capital Focus Equity ETF	-3.38%
FPX	First Trust US Equity Opportunities ETF	-3.38%
MMLG	First Trust Multi-Manager Large Growth ETF	-3.25%
QQH	HCM Defender 100 Index ETF	-3.17%
PWB	Invesco Dynamic Large Cap Growth ETF	-2.88%
SCHG	Schwab U.S. Large-Cap Growth ETF	-2.83%
NULG	Nuveen ESG Large-Cap Growth ETF	-2.82%
VOT	Vanguard Mid-Cap Growth ETF	-2.81%

Size & Style Most Oversold

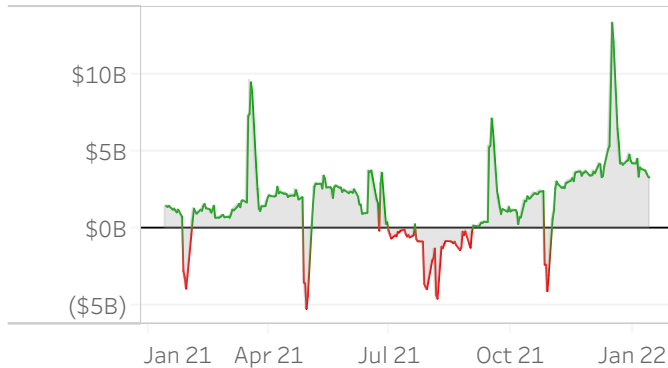
Ticker	Fund	Value
UTRN	Vesper U.S. Large Cap Short-Term Reversal Strategy..	22.43
NUMG	Nuveen ESG Mid-Cap Growth ETF	27.14
DWEQ	AdvisorShares Dorsey Wright Alpha Equal Weight E..	27.22
TTAC	FCF US Quality ETF	28.62
LCG	Sterling Capital Focus Equity ETF	28.83
MMLG	First Trust Multi-Manager Large Growth ETF	29.12
DFNV	TrimTabs Donoghue Forlines Risk Managed Innovati..	29.19
AQGX	AI Quality Growth ETF	29.96
AIEQ	AI Powered Equity ETF	29.99
QQQN	VictoryShares Nasdaq Next 50 ETF	30.37

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

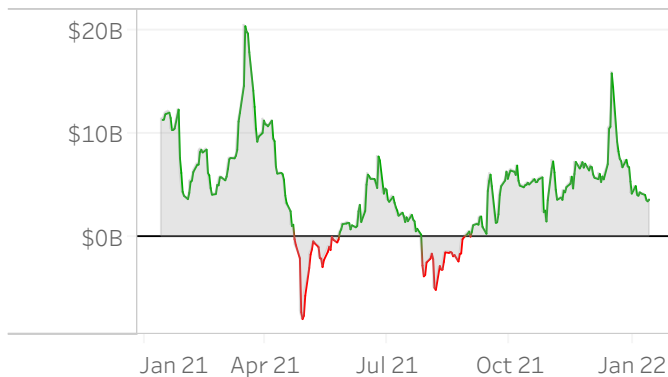
Large-Cap 30-Day Rolling Flows



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: Value	11	\$222B	\$0.75B	\$7.05B	\$11.75B	\$31.22B
Small Cap, Beta, Beta: Value	7	\$59B	\$0.17B	\$0.24B	\$0.92B	\$6.08B
Mid Cap, Beta, Beta: Value	6	\$44B	\$0.10B	\$0.41B	\$0.81B	\$3.42B
Mid Cap, Beta, Beta	10	\$196B	\$0.01B	\$6.21B	\$7.03B	\$12.10B
Mid Cap, Beta, Beta: Growth	6	\$39B	(\$0.22B)	\$0.80B	\$0.78B	(\$1.32B)
Small Cap, Beta, Beta: Growth	7	\$37B	(\$0.27B)	\$0.63B	\$0.73B	\$0.92B
Small Cap, Beta, Beta	12	\$223B	(\$1.10B)	\$6.94B	\$11.30B	\$17.56B
Large Cap, Beta Growth, Beta	25	\$1,408B	(\$1.46B)	\$62.71B	\$91.90B	\$149.54B
Large Cap, Beta Growth, Beta: Growth	10	\$272B	(\$1.50B)	\$3.78B	\$8.22B	\$10.75B

U.S. Size & Style Flow Leaders

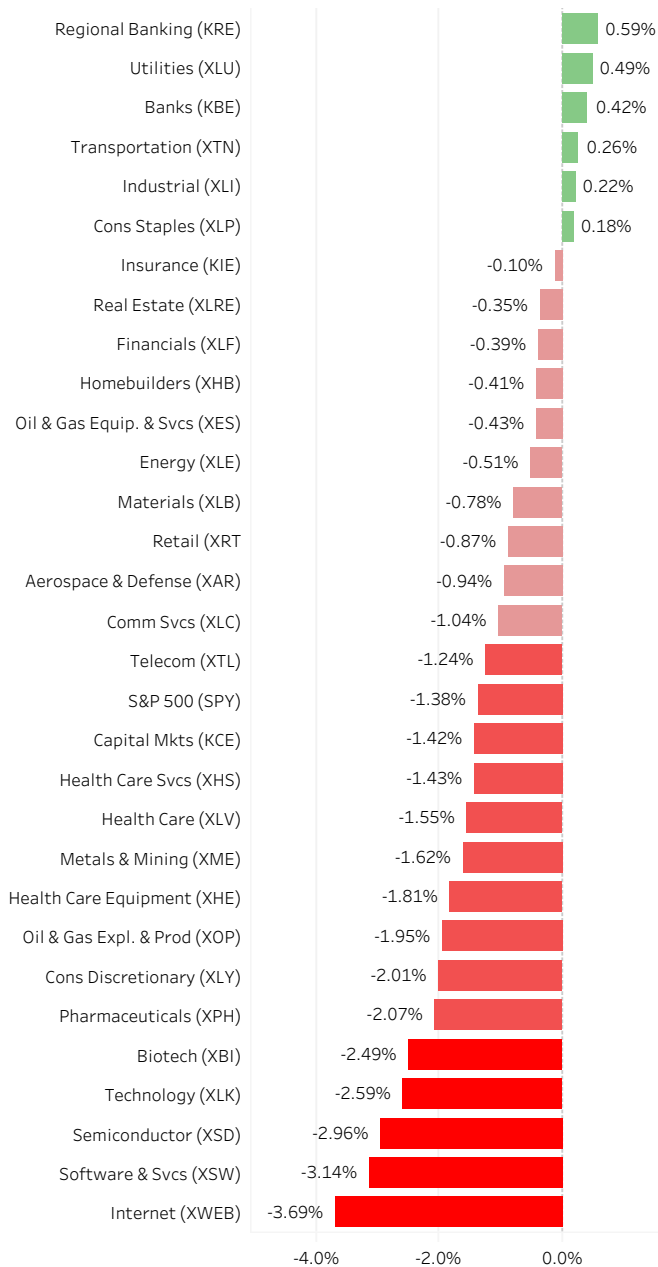
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VTI	Vanguard Total Stock Market ETF	\$0.73B	\$13.49B	\$24.51B	\$44.33B	\$296.72B
VTV	Vanguard Value ETF	\$0.58B	\$3.49B	\$6.13B	\$15.94B	\$95.90B
RSP	Invesco S&P 500 Equal Weight ETF	\$0.53B	\$1.50B	\$2.36B	\$8.38B	\$32.97B
FNDX	Schwab Fundamental US Large Co. Index ETF	\$0.51B	\$1.10B	\$1.66B	\$2.31B	\$9.61B
IVE	iShares S&P 500 Value ETF	\$0.40B	\$0.96B	\$1.06B	\$1.77B	\$24.98B
SCHD	Schwab US Dividend Equity ETF	\$0.38B	\$1.61B	\$3.88B	\$10.40B	\$32.51B
DTN	WisdomTree U.S. Dividend ex-Financials Fund	\$0.34B	\$0.32B	\$0.30B	\$0.27B	\$0.89B
SPLV	Invesco S&P 500 Low Volatility ETF	\$0.23B	\$1.42B	\$1.03B	\$0.20B	\$9.65B
DGRO	iShares Core Dividend Growth ETF	\$0.23B	\$1.39B	\$1.93B	\$4.54B	\$23.46B
VOO	Vanguard S&P 500 ETF	\$0.20B	\$4.30B	\$17.15B	\$45.59B	\$276.83B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IWM	iShares Russell 2000 ETF	(\$1.08B)	(\$0.21B)	\$1.08B	(\$0.87B)	\$65.51B
QQQ	Invesco QQQ Trust	(\$0.78B)	\$9.17B	\$15.01B	\$22.94B	\$209.06B
SPYG	SPDR Portfolio S&P 500 Growth ETF	(\$0.75B)	\$0.94B	\$1.07B	\$3.01B	\$15.35B
IWF	iShares Russell 1000 Growth ETF	(\$0.67B)	(\$0.78B)	\$0.34B	(\$1.53B)	\$75.83B
IWD	iShares Russell 1000 Value ETF	(\$0.55B)	\$1.50B	\$2.02B	\$4.92B	\$59.87B
IVV	iShares Core S&P 500 ETF	(\$0.33B)	\$16.86B	\$15.58B	\$28.51B	\$331.93B
SUSA	iShares MSCI USA ESG Select ETF	(\$0.30B)	\$0.35B	\$0.73B	\$1.29B	\$4.41B
VIG	Vanguard Dividend Appreciation ETF	(\$0.24B)	\$1.73B	\$2.95B	\$4.34B	\$68.40B
PSC	Principal U.S. Small-Cap Multi-Factor ETF	(\$0.24B)	(\$0.74B)	(\$0.76B)	(\$0.32B)	\$0.87B
IUSG	iShares Core S&P U.S. Growth ETF	(\$0.22B)	\$0.19B	\$0.36B	\$0.53B	\$13.46B

* 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)
XLF	Financial Select Sector SPDR Fund	-0.39%	42.52%	4.53%	8.57%	65.11
XLE	Energy Select Sector SPDR Fund	-0.51%	60.30%	10.46%	18.55%	74.23
XLI	Industrial Select Sector SPDR Fund	-0.59%	25.62%	1.48%	3.10%	56.76
XLP	Consumer Staples Select Sector SPDR Fund	-0.94%	21.47%	3.53%	7.37%	61.85
XLB	Materials Select Sector SPDR Fund	-1.16%	26.78%	1.38%	5.39%	53.52
XLU	Utilities Select Sector SPDR Fund	-2.37%	19.74%	1.64%	4.58%	51.23
SPY	SPDR S&P 500 ETF Trust	-2.76%	25.52%	-0.56%	5.15%	45.19
XLV	Health Care Select Sector SPDR Fund	-5.08%	21.21%	-0.60%	3.38%	41.52
XLRE	Real Estate Select Sector SPDR Fund	-5.69%	34.16%	-0.67%	5.82%	41.72
XLY	Consumer Discretionary Select Sector SPDR Fund	-6.61%	26.70%	-3.15%	5.99%	42.27
XLK	Technology Select Sector SPDR Fund	-6.95%	30.63%	-3.17%	6.53%	39.61
XLC	Communication Services Select Sector SPDR Fund	-11.44%	13.95%	-2.11%	-4.60%	42.90

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
KBWY	Invesco KBW Premium Yield Equity REIT ETF	1.06%
ITB	iShares U.S. Home Construction ETF	1.01%
PBJ	Invesco Dynamic Food & Beverage ETF	0.99%
FXG	First Trust Consumer Staples AlphaDEX Fund	0.87%
RHS	Invesco S&P 500 Equal Weight Consumer Staples ..	0.80%
FTXR	First Trust Nasdaq Transportation ETF	0.72%
PSCI	Invesco S&P SmallCap Industrials ETF	0.71%
KBWR	Invesco KBW Regional Banking ETF	0.70%
PSCC	Invesco S&P SmallCap Consumer Staples ETF	0.70%
PSL	Invesco DWA Consumer Staples Momentum ETF	0.68%

Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
FXG	First Trust Consumer Staples AlphaDEX Fund	77.50
KBWR	Invesco KBW Regional Banking ETF	75.04
IYK	iShares U.S. Consumer Staples ETF	74.91
XLE	Energy Select Sector SPDR Fund	74.23
FTXO	First Trust Nasdaq Bank ETF	74.03
IAT	iShares U.S. Regional Banks ETF	73.44
KBE	SPDR S&P Bank ETF	73.32
KRE	SPDR S&P Regional Banking ETF	73.31
KBWB	Invesco KBW Bank ETF	72.42
MLPX	Global X MLP & Energy Infrastructure ETF	72.28

Sector & Industry 1 Day Performance Laggards

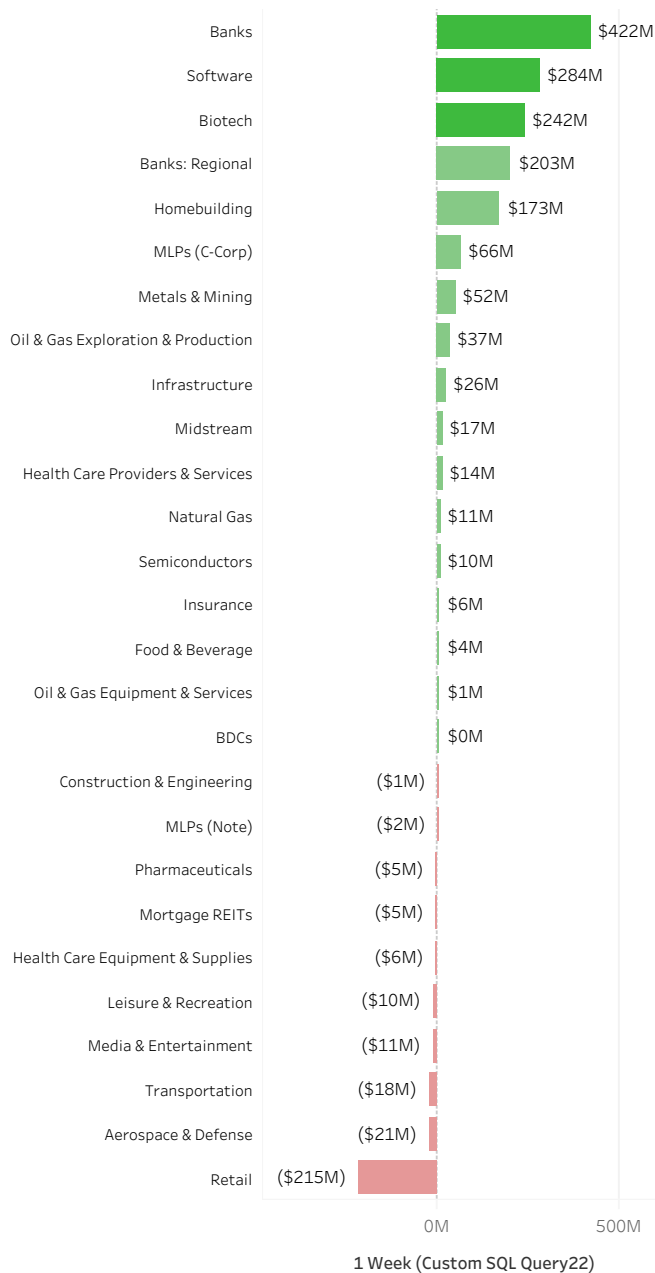
Ticker	Fund	1 Day Performance
IGV	iShares Expanded Tech-Software Sector ETF	-4.28%
PSJ	Invesco Dynamic Software ETF	-3.91%
PNQI	Invesco NASDAQ Internet ETF	-3.44%
QTEC	First Trust NASDAQ-100 Technology Sector Index Fund	-3.28%
XSW	SPDR S&P Software & Services ETF	-3.14%
FDN	First Trust Dow Jones Internet Index Fund	-3.10%
PXQ	Invesco Dynamic Networking ETF	-3.00%
PTF	Invesco DWA Technology Momentum ETF	-2.99%
XSD	SPDR S&P Semiconductor ETF	-2.96%
XNTK	SPDR NYSE Technology ETF	-2.90%

Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
XBI	SPDR S&P BIOTECH ETF	27.77
PBE	Invesco Dynamic Biotechnology & Genome ETF	28.72
PSJ	Invesco Dynamic Software ETF	28.78
PTH	Invesco DWA Healthcare Momentum ETF	29.09
IBB	iShares Biotechnology ETF	29.17
IGV	iShares Expanded Tech-Software Sector ETF	29.70
FDN	First Trust Dow Jones Internet Index Fund	31.80
PSCH	Invesco S&P SmallCap Health Care ETF	32.15
FXH	First Trust Health Care AlphaDEX Fund	32.94
PNQI	Invesco NASDAQ Internet ETF	33.82

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U.S. Sector & Industry 1-Week Flows



U.S. Sector Landscape

	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Communication Services	9	\$19B	(\$465M)	(\$755M)	\$448M	\$1,437M
Consumer Discretionary	13	\$37B	(\$188M)	\$1,121M	\$438M	\$2,064M
Consumer Staples	12	\$24B	\$216M	\$1,918M	\$2,596M	\$269M
Energy	34	\$64B	\$554M	\$2,653M	\$3,155M	\$10,783M
Financials	28	\$93B	\$1,864M	\$5,319M	\$6,995M	\$19,650M
Health Care	26	\$91B	\$157M	\$5,197M	\$6,093M	\$6,654M
Industrial	14	\$36B	\$282M	\$201M	(\$2,046M)	\$221M
Materials	10	\$18B	\$87M	\$875M	(\$1,667M)	\$3,148M
Multi-Sector	19	\$26B	\$163M	\$1,730M	\$2,205M	\$4,609M
Real Estate	22	\$84B	\$589M	\$4,953M	\$8,848M	\$15,428M
Technology	24	\$155B	\$228M	\$3,546M	\$7,318M	\$7,530M
Utilities	10	\$21B	\$469M	\$134M	\$1,001M	\$729M

U.S. Sector & Industry Flow Leaders

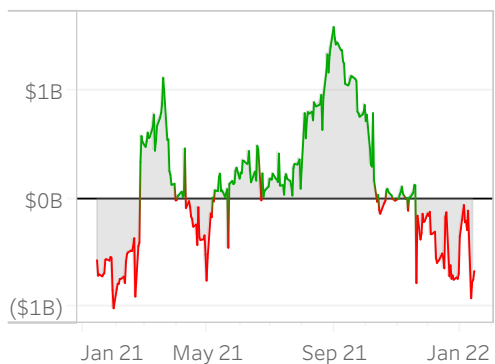
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	\$907M	\$3,812M	\$4,481M	\$9,060M	\$49,756M
XLU	Utilities Select Sector SPDR Fund	\$465M	(\$66M)	\$560M	\$146M	\$13,057M
XLK	Technology Select Sector SPDR Fund	\$415M	\$1,575M	\$2,346M	\$1,659M	\$50,804M
XLI	Industrial Select Sector SPDR Fund	\$334M	\$57M	(\$1,517M)	(\$1,072M)	\$18,593M
VNQ	Vanguard Real Estate ETF	\$333M	\$2,582M	\$2,859M	\$6,518M	\$48,246M
KBE	SPDR S&P Bank ETF	\$330M	\$322M	\$305M	\$165M	\$4,030M
IGV	iShares Expanded Tech-Software Sector ETF	\$297M	\$702M	\$1,099M	(\$36M)	\$5,775M
VFH	Vanguard Financials ETF	\$248M	\$538M	\$644M	\$2,067M	\$12,632M
XLY	Consumer Discretionary Select Sector SPDR Fu..	\$239M	\$1,287M	\$1,290M	\$631M	\$23,467M
XLP	Consumer Staples Select Sector SPDR Fund	\$215M	\$1,516M	\$1,901M	\$102M	\$14,156M

U.S. Sector & Industry Flow Laggards

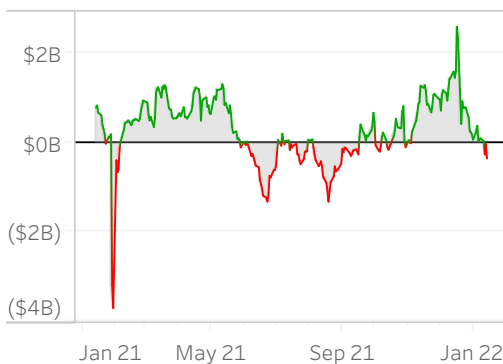
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLC	Communication Services Select Sector SPDR Fu..	(\$460M)	(\$596M)	\$369M	\$551M	\$13,578M
IYW	iShares U.S. Technology ETF	(\$401M)	\$84M	\$699M	\$693M	\$9,377M
XRT	SPDR S&P Retail ETF	(\$215M)	(\$344M)	(\$720M)	(\$422M)	\$405M
FDIS	Fidelity MSCI Consumer Discretionary Index ETF	(\$187M)	\$88M	\$47M	\$217M	\$1,766M
XLV	Health Care Select Sector SPDR Fund	(\$132M)	\$3,563M	\$3,338M	\$5,360M	\$35,675M
XHE	SPDR S&P Health Care Equipment ETF	(\$47M)	(\$108M)	(\$114M)	(\$114M)	\$604M
FXL	First Trust Technology AlphaDEX Fund	(\$43M)	(\$993M)	(\$961M)	(\$1,164M)	\$1,759M
FDN	First Trust Dow Jones Internet Index Fund	(\$43M)	(\$350M)	(\$213M)	(\$2,061M)	\$9,196M
USRT	iShares Core U.S. REIT ETF	(\$39M)	\$47M	\$168M	\$392M	\$2,623M
XNTK	SPDR NYSE Technology ETF	(\$24M)	(\$12M)	(\$16M)	(\$53M)	\$704M

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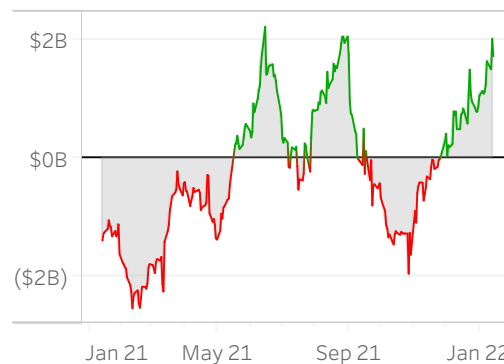
Communication Services



Consumer Discretionary



Consumer Staples



Energy



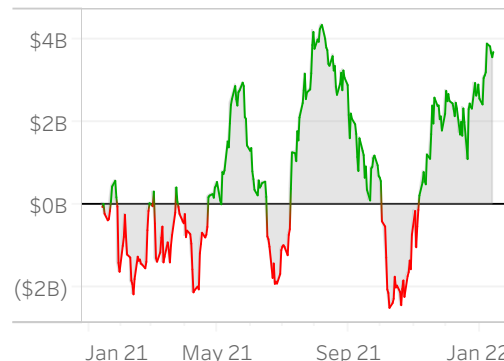
Financials



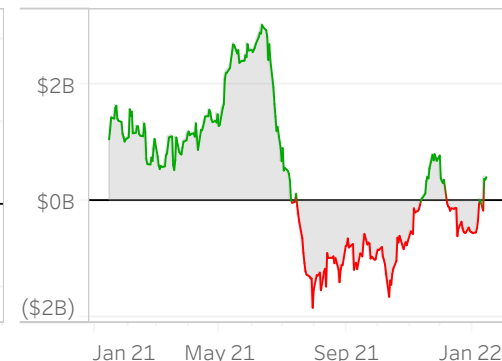
Industrial



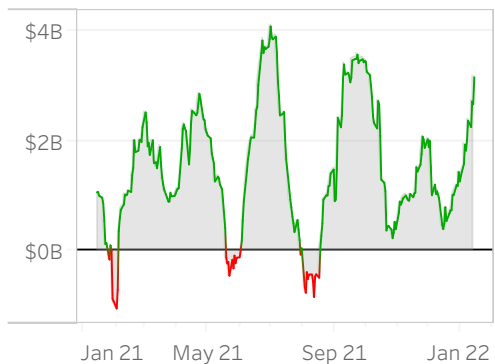
Health Care



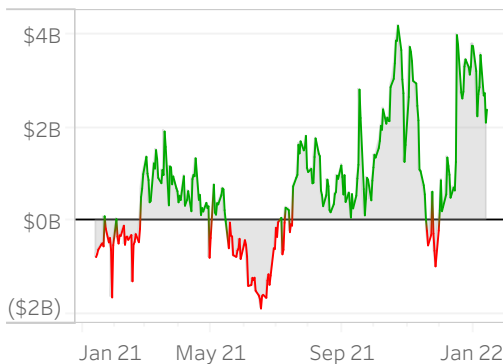
Materials



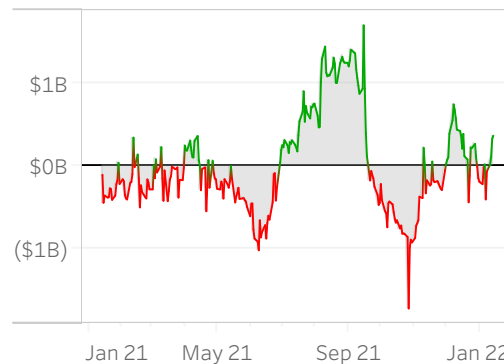
Real Estate



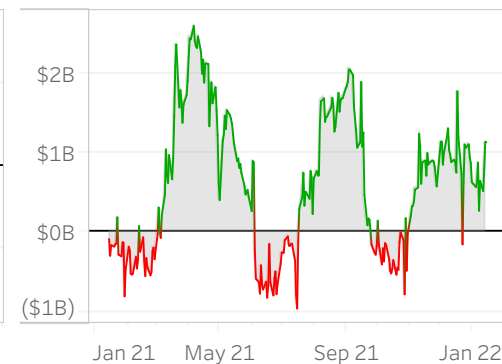
Technology



Utilities

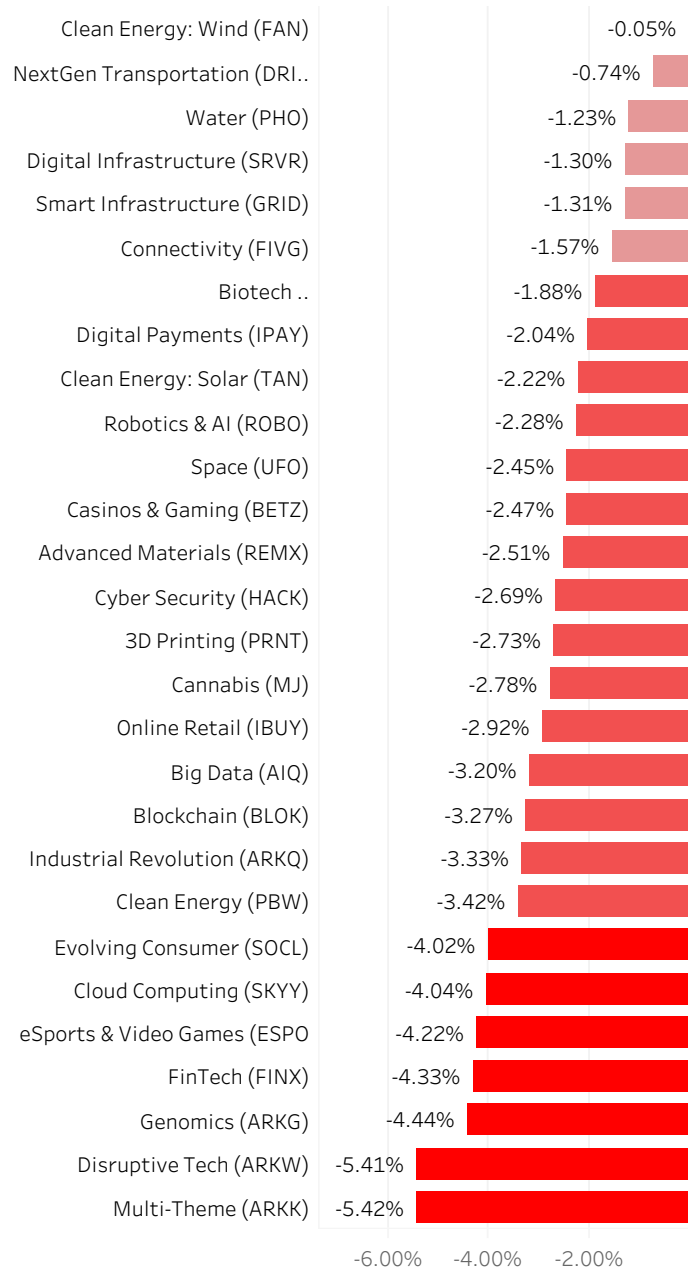


Multi-Sector

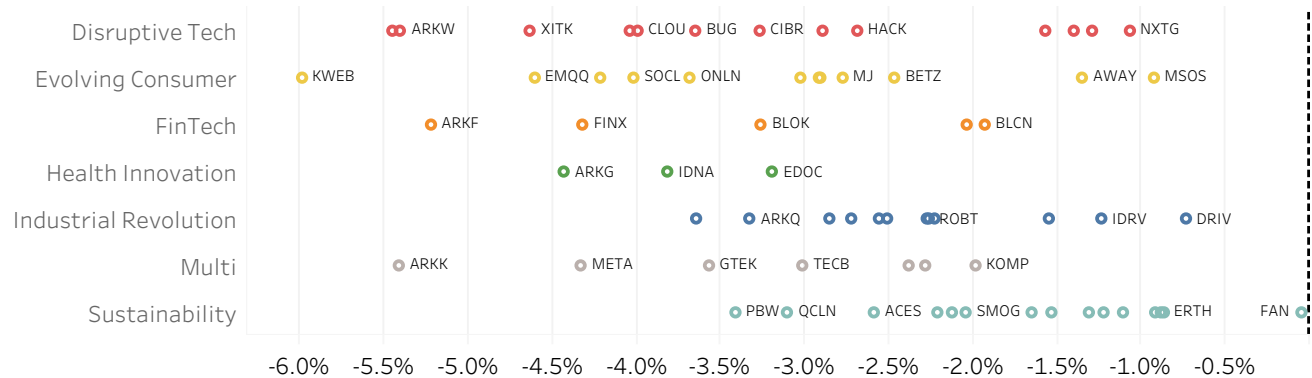


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Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
FAN	First Trust Global Wind Energy ETF	-0.05%
LEGR	First Trust Indxx Innovative Transaction & Process ETF	-0.47%
RNRG	Global X Funds Global X Renewable Energy Producers ETF	-0.54%
DRIV	Global X Autonomous & Electric Vehicles ETF	-0.74%
ERTH	Invesco MSCI Sustainable Future ETF	-0.87%
CGW	Invesco S&P Global Water Index ETF	-0.89%
FIW	First Trust Water ETF	-0.92%
MSOS	AdvisorShares Pure US Cannabis ETF	-0.93%
EBLU	Ecofin Global Water ESG Fund	-0.94%
AGNG	Global X Aging Population ETF	-1.05%

Thematic Most Overbought

Ticker	Fund	Price
LEGR	First Trust Indxx Innovative Transaction & Process ETF	63.75
DRIV	Global X Autonomous & Electric Vehicles ETF	54.26
REMX	VanEck Rare Earth/Strategic Metals ETF	52.27
IDRV	iShares Self-driving EV & Tech ETF	52.26
NXTG	First Trust Indxx NextG ETF	47.74
BATT	Amplify Lithium & Battery Technology ETF	47.16
MSOS	AdvisorShares Pure US Cannabis ETF	45.42
LIT	Global X Lithium & Battery Tech ETF	44.91
AWAY	ETFMG Travel Tech ETF	44.56
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure ..	44.52

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
KWEB	KraneShares CSI China Internet ETF	-5.99%
WCLD	WisdomTree Cloud Computing Fund	-5.45%
ARKK	ARK Innovation ETF	-5.42%
ARKW	ARK Next Generation Internet ETF	-5.41%
BKCH	Global X Blockchain ETF	-5.25%
ARKF	ARK Fintech Innovation ETF	-5.23%
DAPP	VanEck Digital Transformation ETF	-4.73%
BITQ	Bitwise Crypto Industry Innovators ETF	-4.68%
XITK	SPDR FactSet Innovative Technology ETF	-4.64%
EMQQ	Emerging Markets Internet & Ecommerce ETF	-4.61%

Thematic Most Oversold

Ticker	Fund	Price
ENTR	ERShares Entrepreneurs ETF	15.12
IDNA	iShares Genomics Immunology and Healthcare ETF Geno..	20.09
GNOM	Global X Genomics & Biotechnology ETF	25.48
FINX	Global X FinTech ETF	26.73
PAWZ	ProShares Pet Care ETF	27.17
CLOU	Global X Cloud Computing ETF	27.64
ARKW	ARK Next Generation Internet ETF	28.33
BTEC	Principal Healthcare Innovators ETF	29.14
ICLN	iShares Global Clean Energy ETF	29.15
ARKF	ARK Fintech Innovation ETF	29.18

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Thematic 1 Week Flow Leaders

Ticker	Fund	Flow
KWEB	KraneShares CSI China Internet ETF	\$665M
ARKK	ARK Innovation ETF	\$266M
SARK	Tuttle Capital Short Innovation ETF	\$45M
DRIV	Global X Autonomous & Electric Vehicles ETF	\$44M
META	Roundhill Ball Metaverse ETF	\$28M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$20M
CGW	Invesco S&P Global Water Index ETF	\$14M
ROBT	First Trust Nasdaq Artificial Intelligence & Robotics ETF	\$13M
PHO	Invesco Water Resources ETF	\$10M
GDOC	Goldman Sachs Future Health Care Equity ETF	\$10M

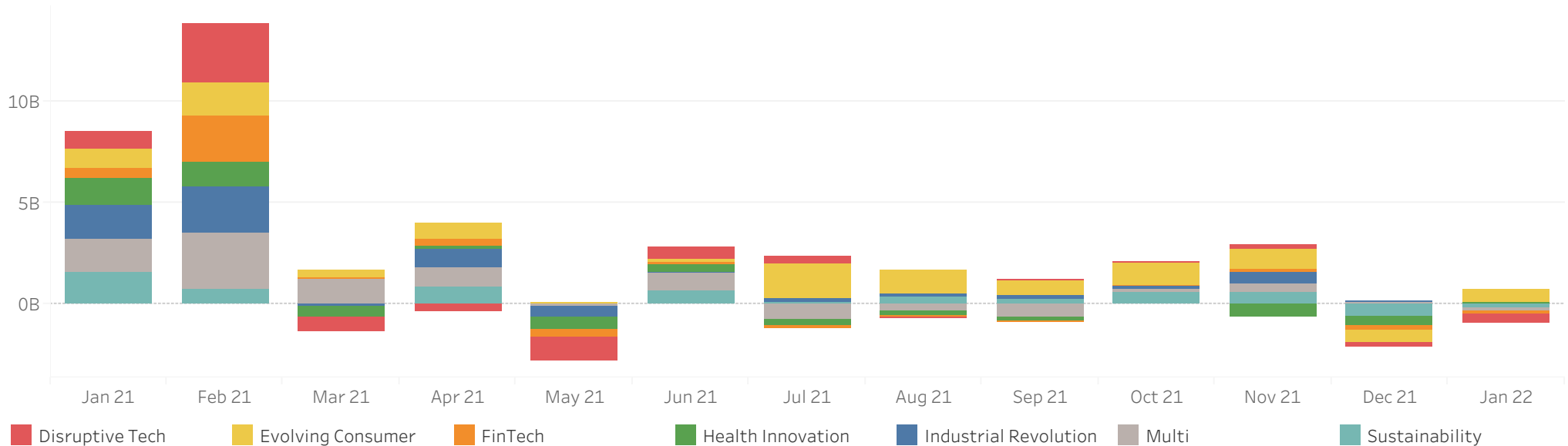
Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
ARKW	ARK Next Generation Internet ETF	(\$150M)
TAN	Invesco Solar ETF	(\$131M)
ARKF	ARK Fintech Innovation ETF	(\$99M)
ARKG	ARK Genomic Revolution ETF	(\$86M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$73M)
WCLD	WisdomTree Cloud Computing Fund	(\$49M)
PBW	Invesco WilderHill Clean Energy ETF	(\$45M)
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	(\$42M)
ICLN	iShares Global Clean Energy ETF	(\$41M)
SKYY	First Trust Cloud Computing ETF	(\$39M)

Thematic Landscape Assets & Flows

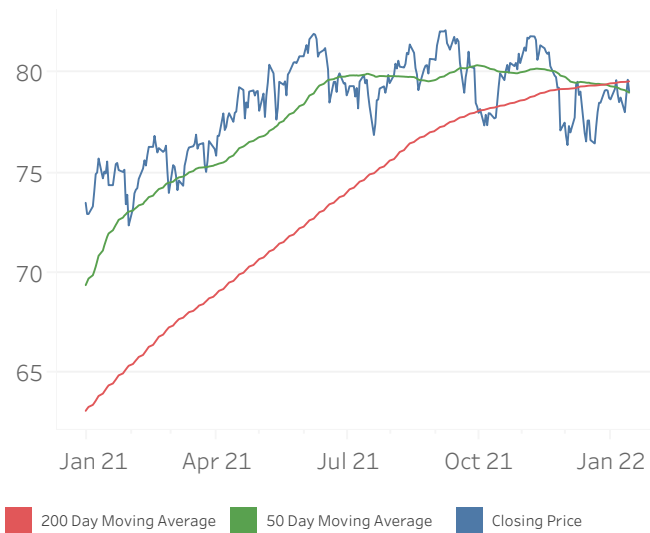
Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	38	\$26B	(\$200M)	(\$114M)	(\$319M)	\$2,109M
Evolving Consumer	44	\$15B	\$564M	\$1,790M	\$5,375M	\$9,660M
FinTech	19	\$6B	(\$63M)	(\$82M)	(\$445M)	\$2,521M
Health Innovation	17	\$6B	(\$12M)	(\$992M)	(\$1,802M)	\$183M
Industrial Revolution	25	\$18B	(\$42M)	\$1,001M	\$1,335M	\$5,672M
Multi	30	\$24B	\$177M	\$102M	(\$634M)	\$5,797M
Sustainability	38	\$21B	(\$112M)	\$335M	\$498M	\$4,334M
Grand Total	211	\$115B	\$312M	\$2,040M	\$4,007M	\$30,277M

Thematic Monthly Flows

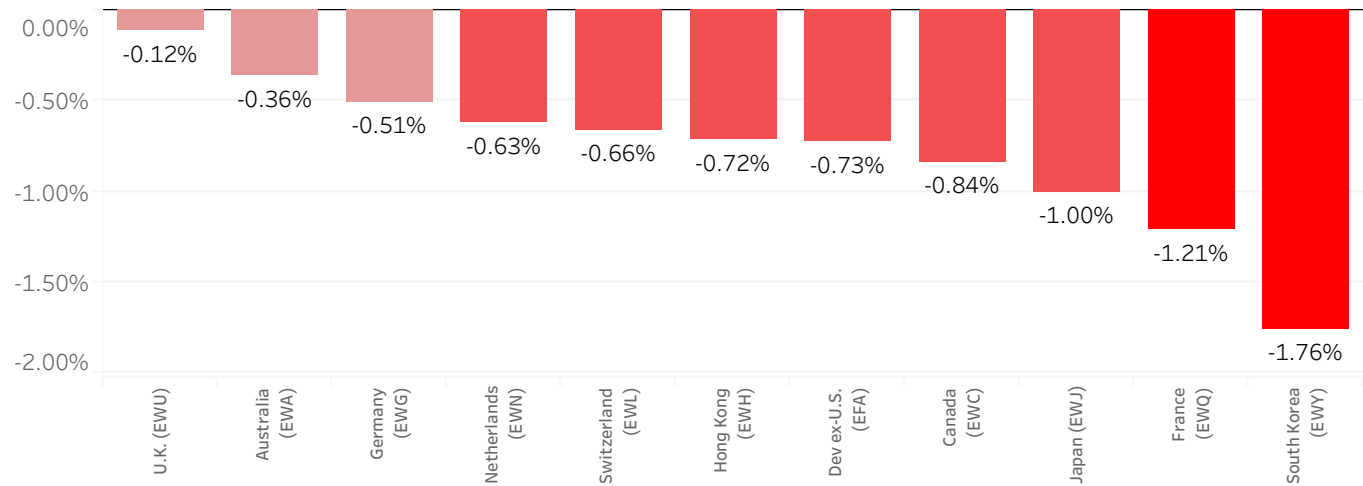


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

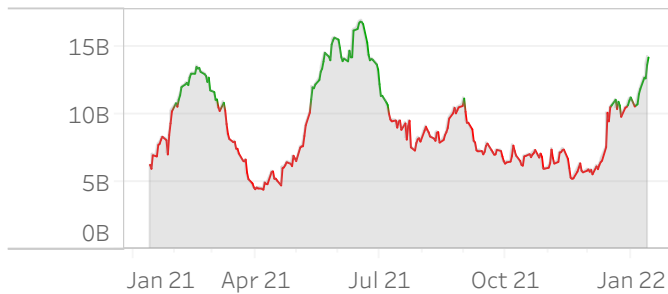
Developed ex-U.S. (EFA)



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



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



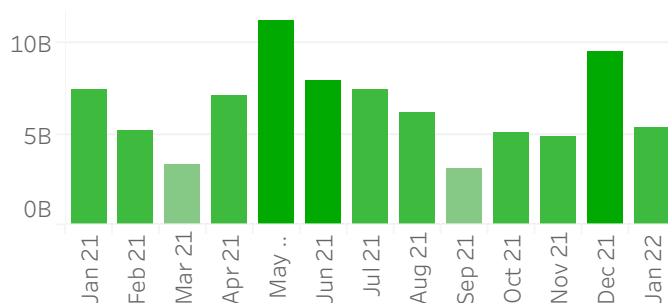
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	Performance
EWJV	iShares MSCI Japan Value ETF	0.50%
IDV	iShares International Select Dividend ETF	0.31%
GSID	Goldman Sachs MarketBeta International Equity ETF	0.29%
DFIV	Dimensional International Value ETF	0.26%
DMRI	DeltaShares S&P International Managed Risk ETF	0.24%
IQSI	IQ Candriam ESG International Equity ETF	0.22%
EFV	iShares MSCI EAFE Value ETF	0.21%
IDOG	ALPS International Sector Dividend Dogs ETF	0.20%
IVLU	iShares MSCI Intl Value Factor ETF	0.19%
FIDI	Fidelity International High Dividend ETF	0.16%

Developed ex-U.S. Most Overbought

Ticker	Fund	Price
HDEF	Xtrackers MSCI EAFE High Dividend Yield Equity ETF	79.02
IDOG	ALPS International Sector Dividend Dogs ETF	78.72
IDV	iShares International Select Dividend ETF	78.35
DTH	WisdomTree International High Dividend Fund	78.17
DFIV	Dimensional International Value ETF	77.10
IVLU	iShares MSCI Intl Value Factor ETF	76.35
FDD	First Trust Stoxx European Select Dividend Index Fund	75.96
FIDI	Fidelity International High Dividend ETF	75.29
ICOW	Pacer Developed Markets International Cash Cows 100 ETF	74.80
LVHI	Legg Mason International Low Volatility High Dividend ETF	73.87

Developed ex-U.S. Monthly Flows



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

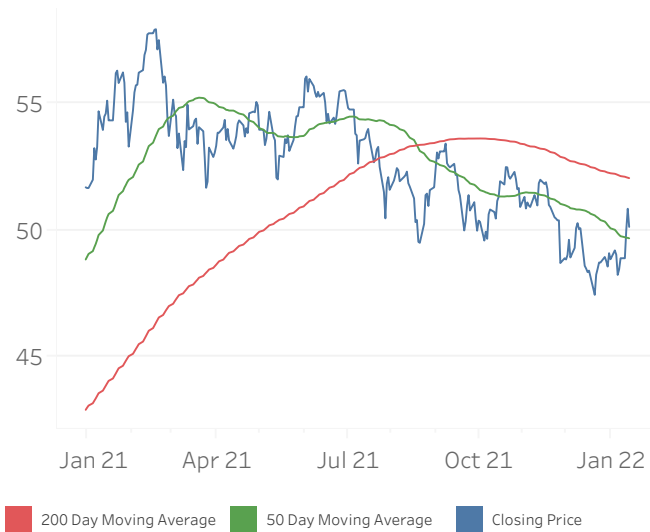
Ticker	Fund	Performance
EWY	iShares MSCI South Korea ETF	-1.76%
EFG	iShares MSCI EAFE Growth ETF	-1.74%
EFAD	ProShares MSCI EAFE Dividend Growers ETF	-1.70%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	-1.55%
AIA	iShares Asia 50 ETF	-1.54%
FLKR	Franklin FTSE South Korea ETF	-1.54%
IHDG	WisdomTree International Hedged Quality Dividend Grow..	-1.44%
IMOM	Alpha Architect International Quantitative Momentum ETF	-1.44%
HEWJ	iShares Currency Hedged MSCI Japan ETF	-1.40%
TTAI	FCF International Quality ETF	-1.40%

Developed ex-U.S. Most Oversold

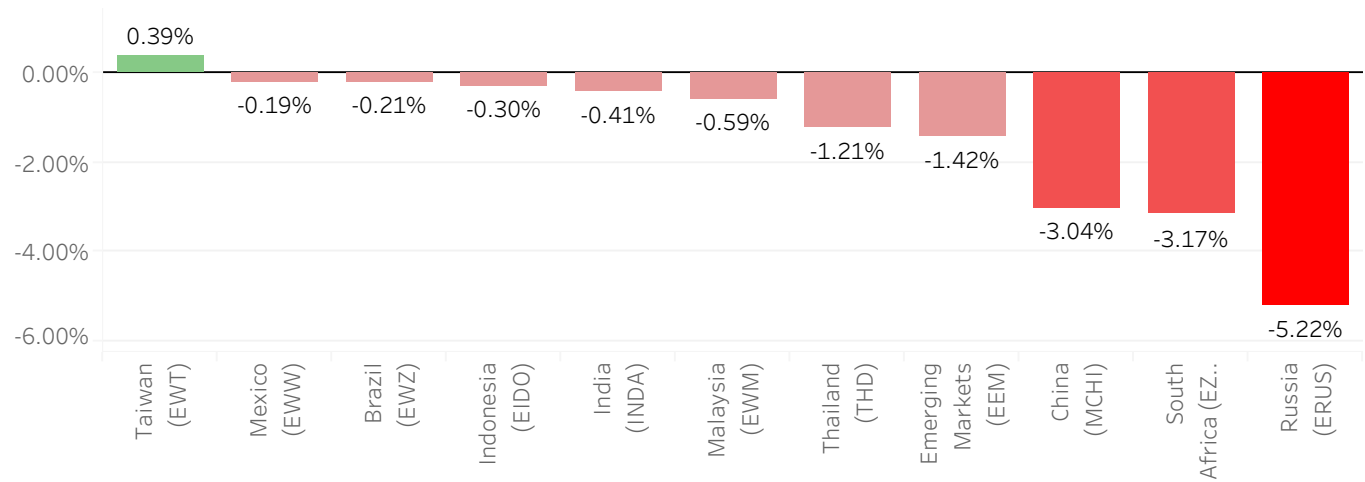
Ticker	Fund	Price
EFAD	ProShares MSCI EAFE Dividend Growers ETF	31.27
PIZ	Invesco DWA Developed Markets Momentum ETF	34.99
IMOM	Alpha Architect International Quantitative Moment..	36.37
EFG	iShares MSCI EAFE Growth ETF	36.54
RBIN	Nationwide Risk-Based International Equity ETF	40.47
IHDG	WisdomTree International Hedged Quality Dividend ..	40.50
IMFL	Invesco International Developed Dynamic Multifact..	40.87
EDEN	iShares MSCI Denmark ETF	41.28
EFV	iShares MSCI EAFE Min Vol Factor ETF	41.47
TTAI	FCF International Quality ETF	41.47

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

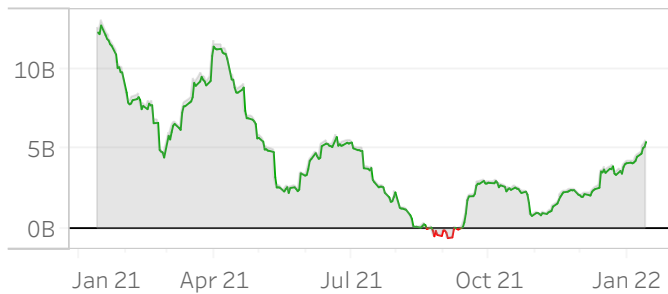
Emerging (EEM)



Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



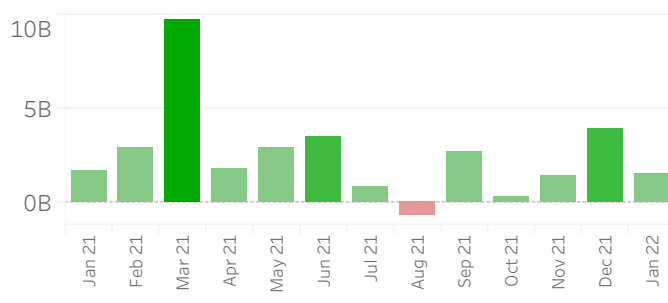
Emerging 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
ECH	iShares MSCI Chile ETF	0.88%
EPHE	iShares MSCI Philippines ETF	0.76%
KSA	iShares MSCI Saudi Arabia ETF	0.41%
EWT	iShares MSCI Taiwan ETF	0.39%
XCEM	Columbia EM Core ex-China ETF	0.24%
QAT	iShares MSCI Qatar ETF	0.20%
ILF	iShares Latin America 40 ETF	0.04%
NFTY	First Trust India NIFTY 50 Equal Weight ETF	0.02%
FRDM	Freedom 100 Emerging Markets ETF	-0.09%
EELV	Invesco S&P Emerging Markets Low Volatility ETF	-0.12%

Emerging Most Overbought

Ticker	Fund	Value
EPU	iShares MSCI Peru ETF	78.85
KSA	iShares MSCI Saudi Arabia ETF	78.85
EPI	WisdomTree India Earnings Fund	73.90
QAT	iShares MSCI Qatar ETF	70.51
EPOL	iShares MSCI Poland ETF	70.24
EELV	Invesco S&P Emerging Markets Low Volatility ETF	69.61
NFTY	First Trust India NIFTY 50 Equal Weight ETF	68.89
FRDM	Freedom 100 Emerging Markets ETF	68.58
DEM	WisdomTree Emerging Markets High Dividend Fund	68.50
SMIN	iShares MSCI India Small Cap ETF	68.47

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
RSX	VanEck Russia ETF	-5.46%
ERUS	iShares MSCI Russia ETF	-5.22%
PGJ	Invesco Golden Dragon China ETF	-4.74%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	-3.65%
GXC	SPDR S&P China ETF	-3.22%
EZA	iShares MSCI South Africa ETF	-3.17%
FNI	First Trust Chindia ETF	-3.17%
MCHI	iShares MSCI China ETF	-3.04%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	-2.90%
KBA	KraneShares Bosera MSCI China A 50 Connect Index ETF	-2.88%

Emerging Most Oversold

Ticker	Fund	Value
KBA	KraneShares Bosera MSCI China A 50 Connect Index ..	27.56
CNYA	iShares MSCI China A ETF	34.96
RSX	VanEck Russia ETF	36.88
MFEM	PIMCO RAFI Dynamic Multi-Factor Emerging Market..	37.04
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	37.72
RAYC	Rayliant Quantamental China Equity ETF	38.80
ERUS	iShares MSCI Russia ETF	39.25
PIE	Invesco DWA Emerging Markets Momentum ETF	41.21
VNM	VanEck Vietnam ETF	42.82
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	45.06

*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	0.18%	-1.50%	-1.12%
SHY	1-3 Year Treasury Bonds	0.05%	-0.35%	-0.30%
IEF	7-10 Year Treasury Bonds	0.32%	-2.09%	-1.43%
TLT	20+ Year Treasury Bonds	0.89%	-4.38%	-2.64%
TIP	TIPS Bonds	0.02%	-1.13%	-2.11%
FLOT	Floating Rate Bonds	-0.04%	0.15%	-0.08%
LQD	Investment Grade Corporate	0.32%	-2.12%	-1.67%
HYG	High Yield Corporate	-0.36%	-0.19%	-0.97%
BKLN	Senior Loan	-0.23%	0.53%	0.09%
PFF	Preferred & Income Securities	-0.08%	0.66%	-1.47%
MUB	Municipal Bonds	-0.04%	-0.83%	-0.74%
MBB	MBS	-0.05%	-1.15%	-1.11%
EMB	Dollar Denominated EM Bonds	-0.34%	-3.05%	-2.93%
LEMB	Local Currency EM Bond	-0.40%	0.74%	0.33%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-1.64%	7.44%	4.18%
DBE	Energy	-1.14%	10.39%	7.03%
USO	WTI Crude Oil	-1.09%	13.28%	7.19%
BNO	Brent Crude Oil	-0.93%	12.68%	7.56%
UNG	Natural Gas	-11.08%	13.15%	13.69%
UGA	Gasoline	-0.68%	12.15%	6.79%
DBP	Precious Metals	-0.38%	2.05%	-0.68%
GLD	Gold	-0.34%	1.89%	-0.47%
SLV	Silver	-0.56%	3.49%	-0.84%
PPLT	Platinum	-0.75%	4.27%	0.41%
PALL	Palladium	-1.70%	11.98%	-0.49%
DBB	Base Metals	-0.22%	7.45%	2.34%
CPER	Copper	-1.29%	5.08%	1.07%
LD	Lead	1.05%	2.70%	1.05%
JJN	Nickel	0.51%	12.84%	6.61%
JJU	Aluminum	0.17%	11.16%	5.00%
JJT	Tin	-2.33%	4.30%	4.42%
DBA	Agriculture	-0.56%	-0.35%	-0.25%
CORN	Corn	-1.47%	0.75%	-0.09%
SOYB	Soybeans	-1.52%	8.31%	2.59%
WEAT	Wheat	-1.79%	-5.80%	-3.25%
CANE	Sugar	-0.34%	-5.52%	-3.26%
BAL	Cotton	-0.57%	9.58%	3.73%
NIB	Cocoa	2.65%	4.18%	3.89%
JO	Coffee	-1.94%	-0.56%	4.75%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.04%	-1.55%	-0.78%
UDN	Short Dollar	0.05%	1.54%	0.84%
FXE	Euro	-0.01%	1.45%	0.62%
FXB	British Pound Sterling	0.03%	3.78%	1.42%
FXF	Swiss Franc	0.27%	1.13%	0.03%
FXJ	Japanese Yen	0.35%	-0.50%	0.87%
FXC	Canadian Dollar	-0.12%	2.37%	0.96%
FXA	Australian Dollar	-0.20%	2.01%	0.10%

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