

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

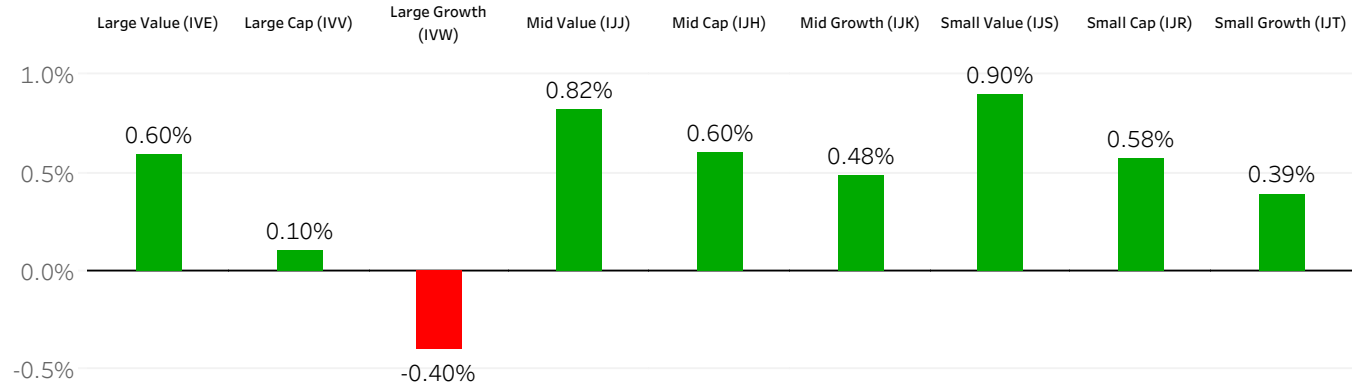


Small Cap Blend (S&P 600) IJR



■ 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 |
|--------|--|-------------------|
| ACSI   | American Customer Satisfaction ETF               | 3.31%             |
| QMOM   | Alpha Architect U.S. Quantitative Momentum ETF   | 2.79%             |
| DWAS   | Invesco DWA SmallCap Momentum ETF                | 2.59%             |
| VFMO   | Vanguard U.S. Momentum Factor ETF                | 1.75%             |
| AVUV   | Avantis U.S. Small Cap Value ETF                 | 1.52%             |
| XSMO   | Invesco S&P SmallCap Momentum ETF                | 1.46%             |
| PDP    | Invesco DWA Momentum ETF                         | 1.38%             |
| FDM    | First Trust Dow Jones Select MicroCap Index Fund | 1.31%             |
| EQRR   | ProShares Equities for Rising Rates ETF          | 1.27%             |
| MTUM   | iShares MSCI USA Momentum Factor ETF             | 1.26%             |

Size & Style Most Overbought

| Ticker | Fund   | Price |
|--------|--|-------|
| NZUS   | SPDR MSCI USA Climate Paris Aligned ETF                | 65.78 |
| ACSI   | American Customer Satisfaction ETF                     | 64.61 |
| USNZ   | Xtrackers Net Zero Pathway Paris Aligned US Equity ETF | 63.74 |
| QVMS   | Invesco S&P SmallCap 600 QVM Multi-factor ETF          | 63.50 |
| SMIG   | AAM Bahl & Gaynor Small/Mid Cap Income Growth ETF      | 62.52 |
| XSMO   | Invesco S&P SmallCap Momentum ETF                      | 62.52 |
| OSCV   | Opus Small Cap Value ETF                               | 62.22 |
| FDM    | First Trust Dow Jones Select MicroCap Index Fund       | 62.01 |
| XSLV   | Invesco S&P SmallCap Low Volatility ETF                | 61.86 |
| SDVY   | First Trust SMID Cap Rising Dividend Achievers ETF     | 61.70 |

Size & Style 1-Day Performance Laggards

| Ticker | Fund                                       | 1-Day Performance |
|--------|--|-------------------|
| IPO    | Renaissance IPO ETF                        | -1.03%            |
| LCG    | Sterling Capital Focus Equity ETF          | -0.99%            |
| MMLG   | First Trust Multi-Manager Large Growth ETF | -0.81%            |
| TMFS   | Motley Fool Small-Cap Growth ETF           | -0.73%            |
| QVML   | Invesco S&P 500 QVM Multi-factor ETF       | -0.69%            |
| MGK    | Vanguard Mega Cap Growth ETF               | -0.62%            |
| BUZZ   | VanEck Social Sentiment ETF                | -0.62%            |
| QQQ    | Invesco QQQ Trust                          | -0.57%            |
| QQQM   | Invesco NASDAQ 100 ETF                     | -0.56%            |
| VUG    | Vanguard Growth ETF                        | -0.54%            |

Size & Style Most Oversold

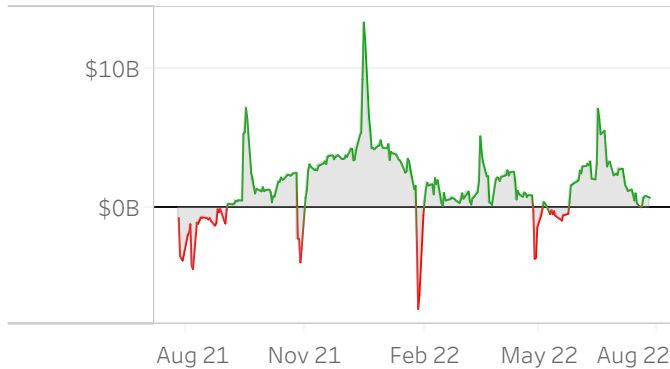
| Ticker | Fund   | Price |
|--------|--|-------|
| LGH    | HCM Defender 500 Index ETF                           | 32.83 |
| QQH    | HCM Defender 100 Index ETF                           | 36.24 |
| FFTY   | Innovator IBD 50 ETF                                 | 42.32 |
| RUFF   | Alpha Dog ETF  | 43.00 |
| ABEQ   | Absolute Core Strategy ETF                           | 44.25 |
| LFEQ   | VanEck Long/Flat Trend ETF                           | 44.75 |
| DJD    | Invesco Dow Jones Industrial Average Dividend ETF    | 46.38 |
| RPHS   | Regents Park Hedged Market Strategy ETF              | 48.14 |
| UTRN   | Vesper U.S. Large Cap Short-Term Reversal Strategy.. | 48.51 |
| CDC    | VictoryShares US EQ Income Enhanced Volatility Wt..  | 48.94 |

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

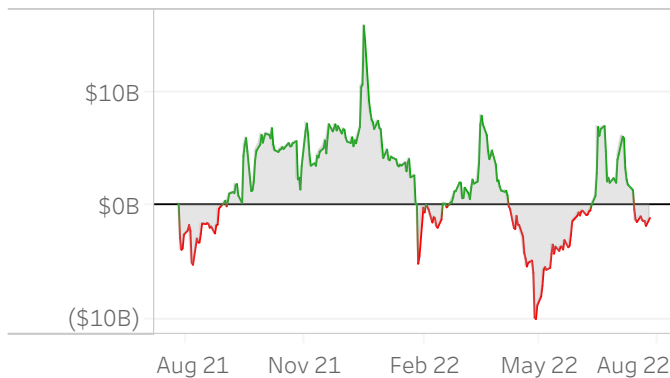
Large-Cap 30-Day Rolling Flows



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         | 25    | \$1,206B | \$6.04B   | \$35.39B  | \$45.54B  | \$130.58B |
| Large Cap, Beta Growth, Beta: Growth | 10    | \$224B   | \$1.08B   | \$8.01B   | \$11.24B  | \$16.08B  |
| Large Cap, Beta Growth, Beta: Value  | 11    | \$211B   | (\$0.23B) | \$4.38B   | \$13.74B  | \$26.68B  |
| Mid Cap, Beta, Beta                  | 10    | \$172B   | \$0.13B   | \$2.86B   | \$4.44B   | \$12.55B  |
| Mid Cap, Beta, Beta: Growth          | 6     | \$32B    | \$0.07B   | \$0.40B   | (\$0.09B) | \$0.64B   |
| Mid Cap, Beta, Beta: Value           | 6     | \$38B    | \$0.10B   | \$0.07B   | (\$0.36B) | \$0.85B   |
| Small Cap, Beta, Beta                | 13    | \$186B   | \$1.18B   | (\$3.88B) | (\$5.69B) | \$7.53B   |
| Small Cap, Beta, Beta: Growth        | 7     | \$31B    | \$0.02B   | \$0.66B   | \$0.76B   | \$1.33B   |
| Small Cap, Beta, Beta: Value         | 7     | \$48B    | (\$1.08B) | (\$0.82B) | (\$4.19B) | (\$2.41B) |

U.S. Size & Style Flow Leaders

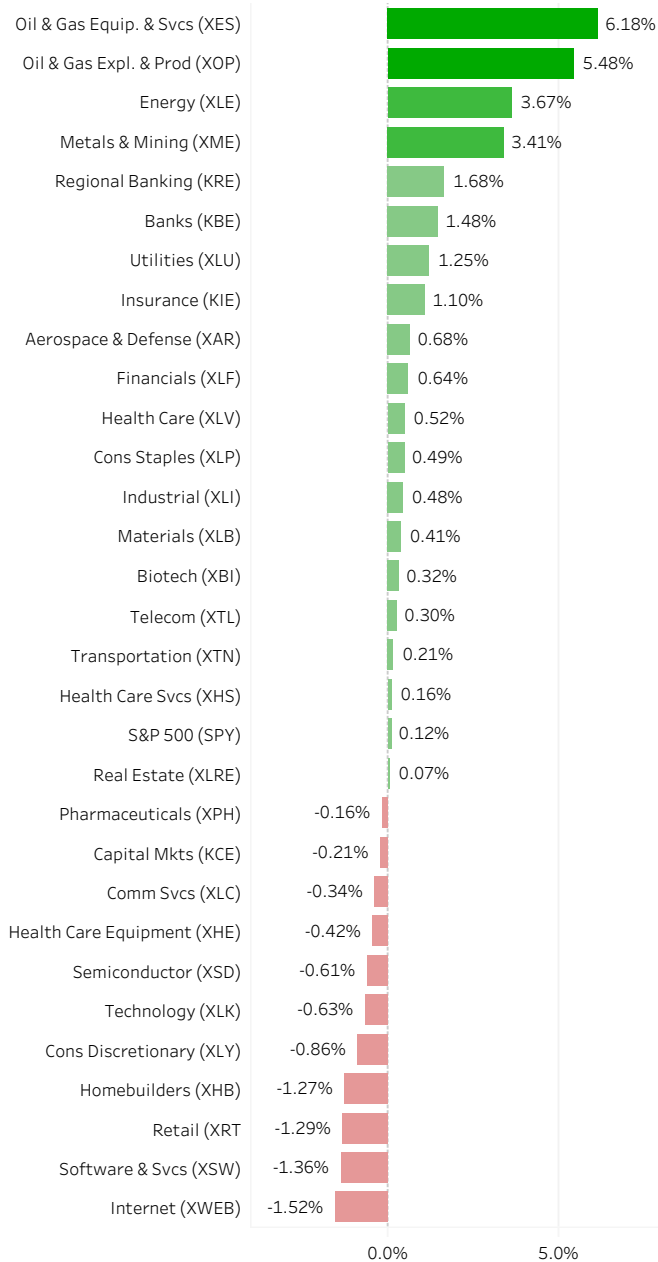
| Ticker | Fund                                | 1 Week  | 3 Month   | 6 Month    | 1 Year   | AUM       |
|--------|-------------------------------------|---------|-----------|------------|----------|-----------|
| SPY    | SPDR S&P 500 ETF Trust              | \$2.84B | (\$0.19B) | (\$11.31B) | \$21.32B | \$359.88B |
| QQQ    | Invesco QQQ Trust                   | \$1.28B | \$5.69B   | \$7.50B    | \$20.90B | \$167.50B |
| IJR    | iShares Core S&P Small Cap ETF      | \$1.07B | (\$0.22B) | (\$0.24B)  | \$4.64B  | \$65.02B  |
| VOO    | Vanguard S&P 500 ETF                | \$0.77B | \$14.02B  | \$25.96B   | \$43.83B | \$259.27B |
| SPYG   | SPDR Portfolio S&P 500 Growth ETF   | \$0.71B | \$1.14B   | \$1.49B    | \$1.99B  | \$13.25B  |
| USMV   | iShares MSCI USA Min Vol Factor ETF | \$0.60B | \$1.03B   | \$0.88B    | \$1.05B  | \$27.78B  |
| IVV    | iShares Core S&P 500 ETF            | \$0.58B | \$13.40B  | \$17.53B   | \$29.90B | \$296.23B |
| SPLV   | Invesco S&P 500 Low Volatility ETF  | \$0.47B | \$1.03B   | \$1.31B    | \$2.59B  | \$10.19B  |
| VTI    | Vanguard Total Stock Market ETF     | \$0.37B | \$3.91B   | \$10.27B   | \$35.73B | \$258.03B |
| SPLG   | SPDR Portfolio S&P 500 ETF          | \$0.35B | \$0.91B   | \$2.56B    | \$4.06B  | \$13.99B  |

U.S. Size & Style Flow Laggards

| Ticker | Fund   | 1 Week    | 3 Month   | 6 Month   | 1 Year    | AUM      |
|--------|--|-----------|-----------|-----------|-----------|----------|
| IJS    | iShares S&P Small-Cap 600 Value ETF          | (\$0.94B) | \$0.41B   | (\$0.48B) | (\$0.71B) | \$7.43B  |
| HDV    | iShares Core High Dividend ETF               | (\$0.71B) | \$3.10B   | \$4.97B   | \$5.18B   | \$12.22B |
| MTUM   | iShares MSCI USA Momentum Factor ETF         | (\$0.62B) | (\$0.42B) | (\$1.07B) | (\$2.62B) | \$9.64B  |
| VLUE   | iShares MSCI USA Value Factor ETF            | (\$0.13B) | (\$2.45B) | (\$4.57B) | (\$5.77B) | \$8.97B  |
| OMFL   | Invesco Russell 1000 Dynamic Multifactor ETF | (\$0.13B) | \$0.07B   | \$0.21B   | \$0.60B   | \$1.91B  |
| IWY    | iShares Russell Top 200 Growth ETF           | (\$0.13B) | \$0.30B   | \$0.75B   | \$1.19B   | \$4.64B  |
| IWL    | iShares Russell Top 200 ETF                  | (\$0.12B) | (\$0.11B) | (\$0.06B) | (\$0.06B) | \$0.81B  |
| VIG    | Vanguard Dividend Appreciation ETF           | (\$0.11B) | \$0.74B   | \$2.14B   | \$4.34B   | \$61.89B |
| ITOT   | iShares Core S&P Total U.S. Stock Market ETF | (\$0.11B) | \$3.03B   | \$3.46B   | \$5.79B   | \$42.59B |
| VTV    | Vanguard Value ETF                           | (\$0.11B) | \$3.17B   | \$11.07B  | \$17.72B  | \$96.68B |

\* 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            | -8.63%          | 8.86%          | 1.65%              | -1.28%              | 55.12     |
| XLU    | Utilities Select Sector SPDR Fund              | -8.65%          | 10.60%         | -0.36%             | 0.41%               | 53.80     |
| XLP    | Consumer Staples Select Sector SPDR Fund       | -8.70%          | 6.92%          | 1.51%              | -1.18%              | 57.69     |
| XLI    | Industrial Select Sector SPDR Fund             | -15.16%         | 6.29%          | 1.07%              | -8.08%              | 59.05     |
| XLB    | Materials Select Sector SPDR Fund              | -16.82%         | 6.26%          | -3.94%             | -10.66%             | 51.15     |
| SPY    | SPDR S&P 500 ETF Trust                         | -17.19%         | 8.12%          | 1.30%              | -8.82%              | 57.16     |
| XLRE   | Real Estate Select Sector SPDR Fund            | -18.37%         | 8.85%          | 1.26%              | -8.41%              | 57.84     |
| XLE    | Energy Select Sector SPDR Fund                 | -20.07%         | 61.08%         | -5.83%             | 6.10%               | 51.72     |
| XLF    | Financial Select Sector SPDR Fund              | -20.42%         | 7.22%          | 0.59%              | -11.21%             | 57.33     |
| XLK    | Technology Select Sector SPDR Fund             | -22.81%         | 10.41%         | 2.69%              | -10.32%             | 57.33     |
| XLY    | Consumer Discretionary Select Sector SPDR Fund | -27.43%         | 13.96%         | 5.54%              | -13.36%             | 61.73     |
| XLC    | Communication Services Select Sector SPDR Fund | -35.15%         | 5.12%          | -1.62%             | -18.10%             | 48.36     |

## Sector & Industry 1 Day Performance Leaders

| Ticker | Fund  | 1 Day Performance |
|--------|---|-------------------|
| PSCE   | Invesco S&P SmallCap Energy ETF                     | 6.64%             |
| PXI    | Invesco DWA Energy Momentum ETF                     | 6.31%             |
| XES    | SPDR S&P Oil & Gas Equipment & Services ETF         | 6.18%             |
| PXE    | Invesco Dynamic Energy Exploration & Production ..  | 5.95%             |
| FCG    | First Trust Natural Gas ETF                         | 5.61%             |
| XOP    | SPDR S&P Oil & Gas Exploration & Production ETF     | 5.48%             |
| FTXN   | First Trust Nasdaq Oil & Gas ETF                    | 5.19%             |
| IEO    | iShares U.S. Oil & Gas Exploration & Production ETF | 4.89%             |
| FXN    | First Trust Energy AlphaDEX Fund                    | 4.69%             |
| RYE    | Invesco S&P 500 Equal Weight Energy ETF             | 4.04%             |

## Sector & Industry Most Overbought

| Ticker | Fund   | RSI (14D) |
|--------|--|-----------|
| XHS    | SPDR S&P Health Care Services ETF                      | 66.12     |
| PKB    | Invesco Dynamic Building & Construction ETF            | 65.53     |
| ITB    | iShares U.S. Home Construction ETF                     | 63.59     |
| KBWR   | Invesco KBW Regional Banking ETF                       | 63.56     |
| XHB    | SPDR S&P Homebuilders ETF                              | 63.24     |
| IAI    | iShares U.S. Broker-Dealers & Securities Exchanges ETF | 63.20     |
| QABA   | First Trust NASDAQ ABA Community Bank Index Fund       | 63.12     |
| AIRR   | First Trust RBA American Industrial Renaissance ETF    | 62.61     |
| NETL   | NETLease Corporate Real Estate ETF                     | 62.52     |
| PSCI   | Invesco S&P SmallCap Industrials ETF                   | 62.22     |

## Sector & Industry 1 Day Performance Laggards

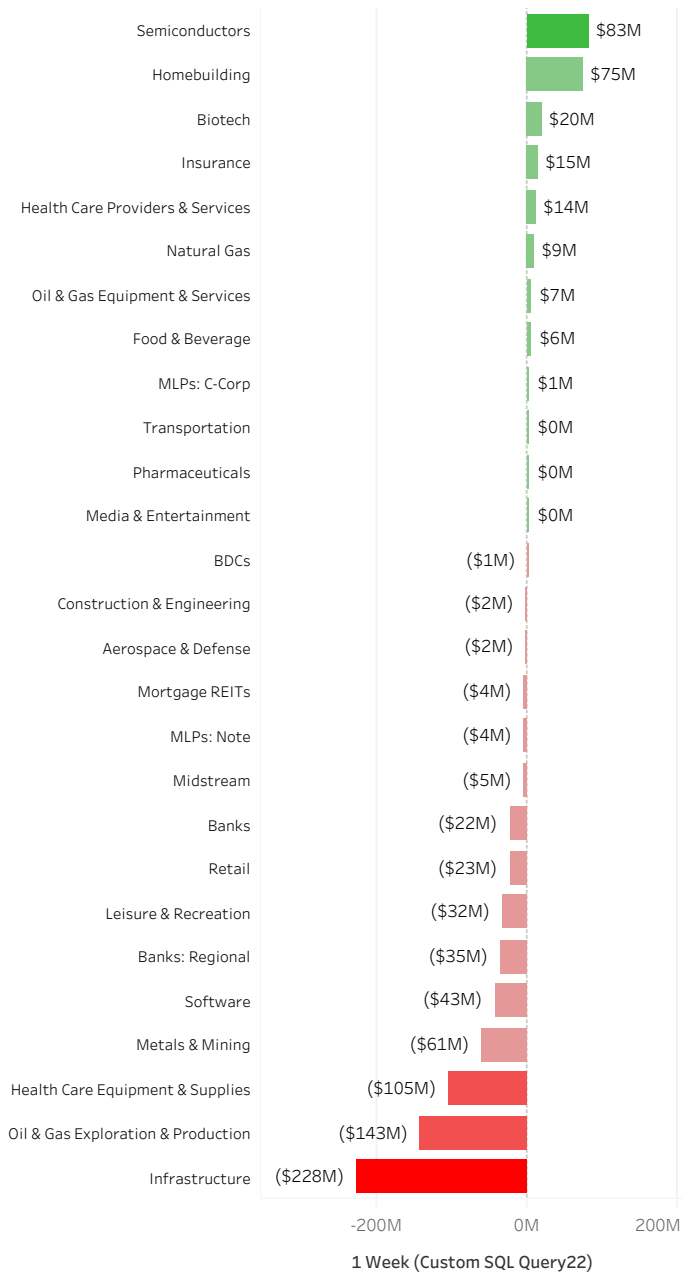
| Ticker | Fund  | 1 Day Performance |
|--------|---|-------------------|
| ITB    | iShares U.S. Home Construction ETF                  | -1.65%            |
| FTXL   | First Trust Nasdaq Semiconductor ETF                | -1.38%            |
| XSW    | SPDR S&P Software & Services ETF                    | -1.36%            |
| XRT    | SPDR S&P Retail ETF                                 | -1.29%            |
| XHB    | SPDR S&P Homebuilders ETF                           | -1.27%            |
| IGV    | iShares Expanded Tech-Software Sector ETF           | -1.22%            |
| QTEC   | First Trust NASDAQ-100 Technology Sector Index Fund | -1.07%            |
| VCR    | Vanguard Consumer Discretionary ETF                 | -0.93%            |
| FDIS   | Fidelity MSCI Consumer Discretionary Index ETF      | -0.92%            |
| FDN    | First Trust Dow Jones Internet Index Fund           | -0.86%            |

## Sector & Industry Most Oversold

| Ticker | Fund   | RSI (14D) |
|--------|--|-----------|
| KBWP   | Invesco KBW Property & Casualty Insurance ETF  | 43.29     |
| IYM    | iShares U.S. Basic Materials ETF               | 46.93     |
| XES    | SPDR S&P Oil & Gas Equipment & Services ETF    | 47.16     |
| VOX    | Vanguard Communication Services ETF            | 47.41     |
| FCOM   | Fidelity MSCI Communication Services Index ETF | 47.48     |
| IAK    | iShares U.S. Insurance ETF                     | 47.90     |
| XLC    | Communication Services Select Sector SPDR Fund | 48.36     |
| IHE    | iShares U.S. Pharmaceuticals ETF               | 48.64     |
| VRAI   | Virtus Real Asset Income ETF                   | 48.78     |
| IYZ    | iShares U.S. Telecommunications ETF            | 50.14     |

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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     | \$13B  | (\$166M) | (\$158M)    | (\$531M)    | (\$275M)   |
| Consumer Discretionary | 13    | \$23B  | (\$49M)  | (\$2,724M)  | (\$5,568M)  | (\$5,183M) |
| Consumer Staples       | 12    | \$27B  | (\$177M) | \$426M      | \$3,717M    | \$5,702M   |
| Energy                 | 34    | \$67B  | (\$974M) | (\$4,508M)  | (\$3,989M)  | \$215M     |
| Financials             | 28    | \$56B  | (\$287M) | (\$10,443M) | (\$18,774M) | (\$9,154M) |
| Health Care            | 26    | \$91B  | (\$18M)  | \$3,970M    | \$7,422M    | \$13,083M  |
| Industrial             | 14    | \$27B  | (\$248M) | (\$2,898M)  | (\$2,892M)  | (\$5,747M) |
| Materials              | 10    | \$14B  | (\$233M) | (\$2,707M)  | (\$522M)    | (\$1,652M) |
| Multi-Sector           | 19    | \$14B  | (\$255M) | (\$551M)    | (\$4,984M)  | (\$3,313M) |
| Real Estate            | 24    | \$67B  | (\$293M) | (\$2,804M)  | (\$5,069M)  | \$2,594M   |
| Technology             | 24    | \$121B | \$186M   | (\$1,160M)  | (\$1,383M)  | \$4,236M   |
| Utilities              | 10    | \$26B  | (\$464M) | \$1,981M    | \$4,332M    | \$5,488M   |

## U.S. Sector & Industry Flow Leaders

| Ticker | Fund                               | 1 Week | 3 Month  | 6 Month  | 1 Year   | AUM       |
|--------|------------------------------------|--------|----------|----------|----------|-----------|
| XLK    | Technology Select Sector SPDR Fund | \$130M | (\$467M) | \$538M   | \$1,415M | \$40,876M |
| SOXX   | iShares Semiconductor ETF          | \$77M  | (\$288M) | (\$140M) | \$1,263M | \$7,153M  |
| IYH    | iShares U.S. Healthcare ETF        | \$69M  | \$135M   | \$40M    | \$310M   | \$2,961M  |
| XHB    | SPDR S&P Homebuilders ETF          | \$59M  | (\$157M) | (\$891M) | (\$408M) | \$1,041M  |
| XBI    | SPDR S&P BIOTECH ETF               | \$56M  | \$1,183M | \$2,038M | \$3,431M | \$7,559M  |
| VHT    | Vanguard Health Care ETF           | \$42M  | (\$112M) | \$495M   | \$1,235M | \$16,318M |
| IYW    | iShares U.S. Technology ETF        | \$30M  | (\$404M) | (\$336M) | \$188M   | \$6,801M  |
| KIE    | SPDR S&P Insurance ETF             | \$30M  | \$101M   | \$117M   | \$60M    | \$517M    |
| RWR    | SPDR Dow Jones REIT ETF            | \$29M  | \$12M    | \$81M    | \$88M    | \$1,776M  |
| IYK    | iShares U.S. Consumer Staples ETF  | \$19M  | \$313M   | \$576M   | \$649M   | \$1,366M  |

## U.S. Sector & Industry Flow Laggards

| Ticker | Fund  | 1 Week   | 3 Month    | 6 Month     | 1 Year     | AUM       |
|--------|---|----------|------------|-------------|------------|-----------|
| IYE    | iShares U.S. Energy ETF                         | (\$567M) | (\$1,481M) | (\$1,341M)  | (\$1,275M) | \$1,996M  |
| XLU    | Utilities Select Sector SPDR Fund               | (\$477M) | \$1,447M   | \$2,710M    | \$3,516M   | \$15,959M |
| VNQ    | Vanguard Real Estate ETF                        | (\$300M) | (\$2,147M) | (\$2,140M)  | \$782M     | \$39,247M |
| XLI    | Industrial Select Sector SPDR Fund              | (\$245M) | (\$1,429M) | (\$2,989M)  | (\$5,240M) | \$12,271M |
| XLF    | Financial Select Sector SPDR Fund               | (\$198M) | (\$6,183M) | (\$11,411M) | (\$6,006M) | \$28,946M |
| XLP    | Consumer Staples Select Sector SPDR Fund        | (\$193M) | (\$366M)   | \$1,060M    | \$2,362M   | \$15,160M |
| IFRA   | iShares U.S. Infrastructure ETF                 | (\$171M) | \$813M     | \$887M      | \$1,037M   | \$1,596M  |
| XLE    | Energy Select Sector SPDR Fund                  | (\$139M) | (\$1,196M) | (\$3,049M)  | (\$895M)   | \$32,745M |
| XOP    | SPDR S&P Oil & Gas Exploration & Production E.. | (\$129M) | (\$1,018M) | (\$959M)    | (\$967M)   | \$4,073M  |
| XLB    | Materials Select Sector SPDR Fund               | (\$127M) | (\$991M)   | (\$1,255M)  | (\$2,135M) | \$5,837M  |

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Communication Services



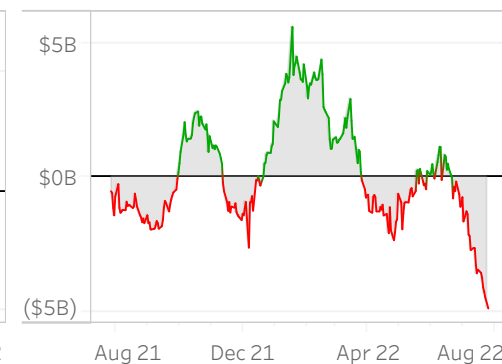
Consumer Discretionary



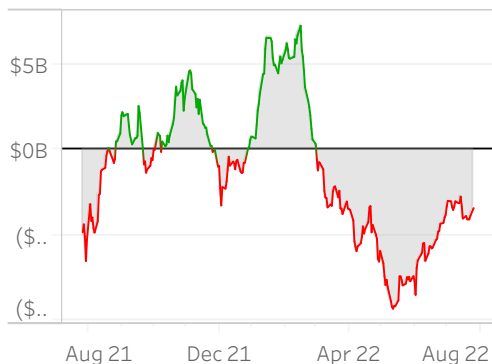
Consumer Staples



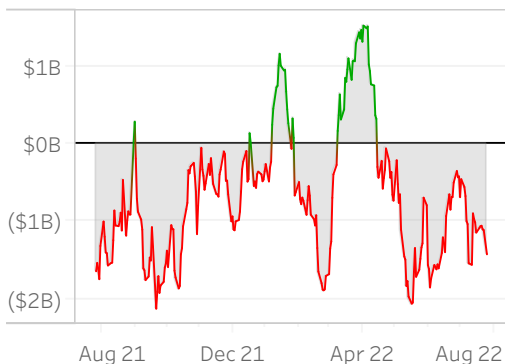
Energy



Financials



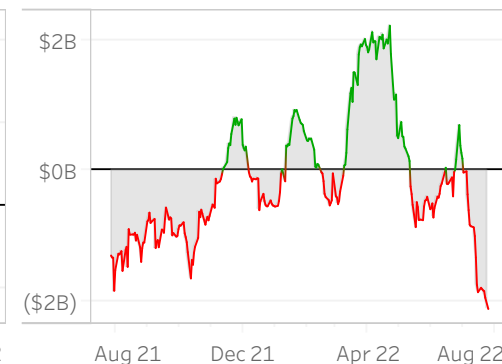
Industrial



Health Care



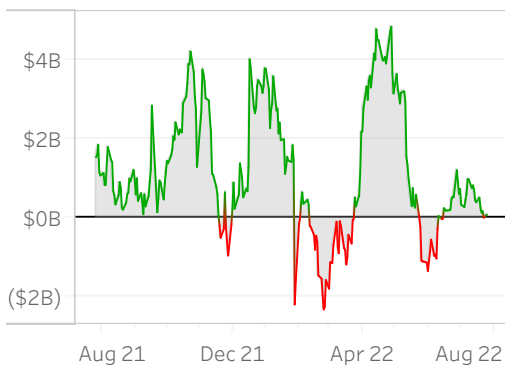
Materials



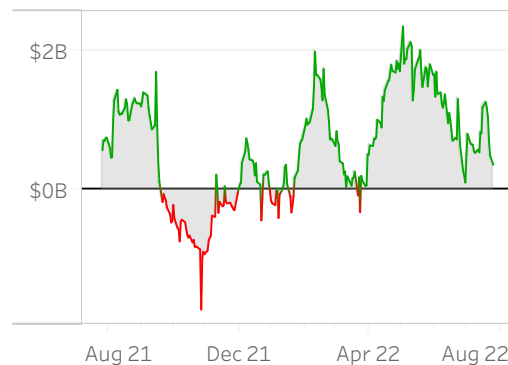
Real Estate



Technology



Utilities

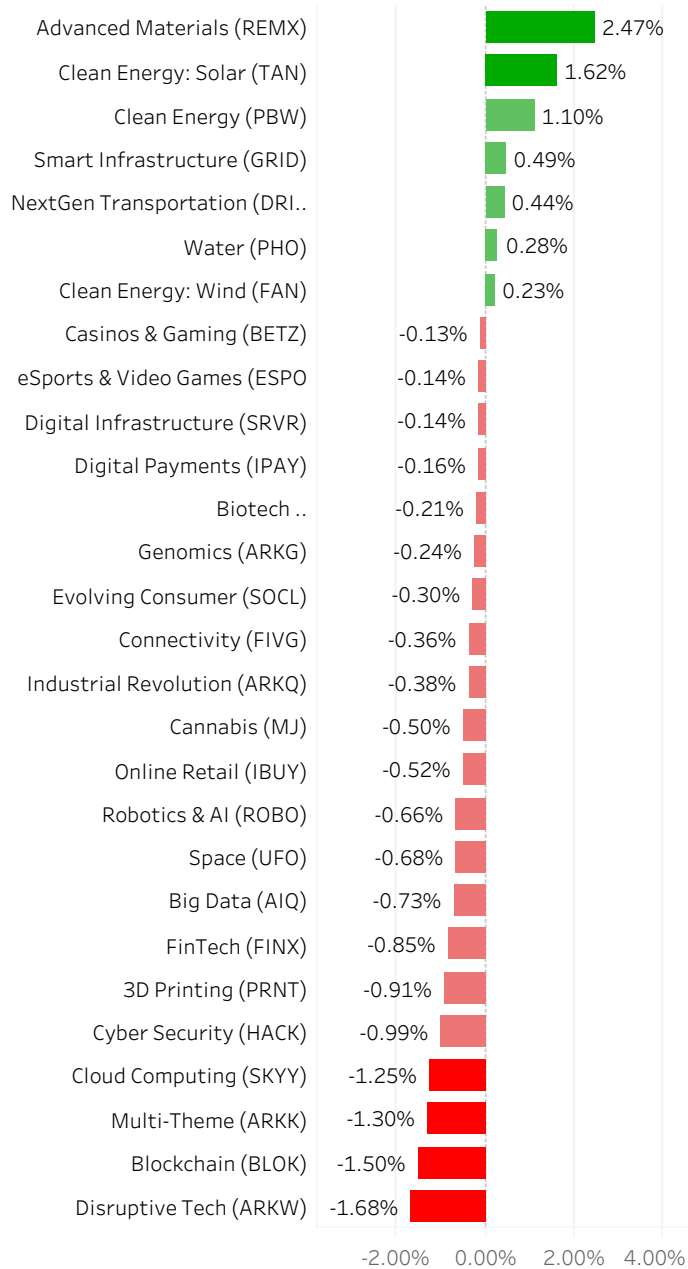


Multi-Sector

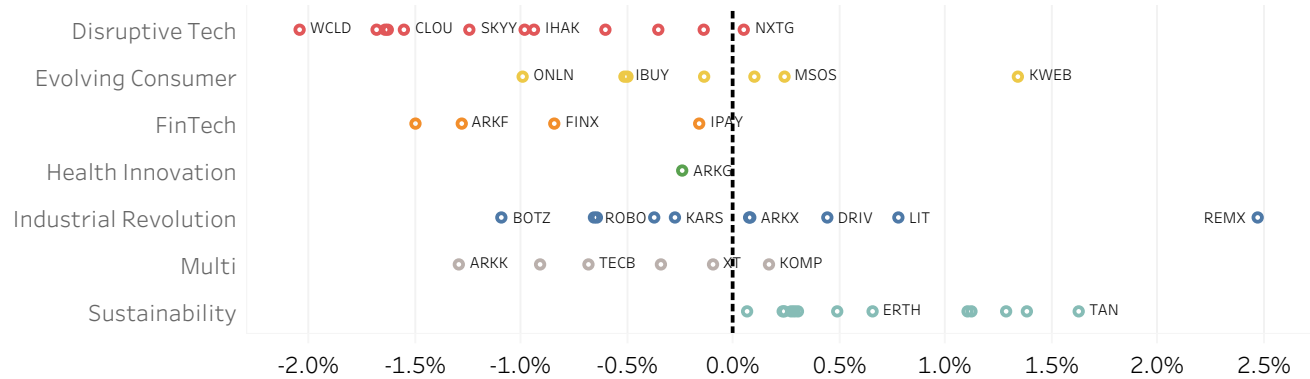


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## Global Thematic Segment 1-Day Performance



## Global Thematic 1-Day Performance Landscape



## Global Thematic 1-Day Performance Leaders

| Ticker | Fund   | 1-Day Performance |
|--------|--|-------------------|
| REMX   | VanEck Rare Earth/Strategic Metals ETF                 | 2.47%             |
| TAN    | Invesco Solar ETF                                      | 1.62%             |
| CNRG   | SPDR S&P Kensho Clean Power ETF                        | 1.38%             |
| KWEB   | KraneShares CSI China Internet ETF                     | 1.34%             |
| ICLN   | iShares Global Clean Energy ETF                        | 1.28%             |
| QCLN   | First Trust Nasdaq Clean Edge Green Energy Index Fund  | 1.12%             |
| AWAY   | ETFMG Travel Tech ETF                                  | 1.12%             |
| RNRG   | Global X Funds Global X Renewable Energy Producers ETF | 1.11%             |
| PBW    | Invesco WilderHill Clean Energy ETF                    | 1.10%             |
| CTEC   | Global X CleanTech ETF                                 | 1.00%             |

## Thematic Most Overbought

| Ticker | Fund   | Value |
|--------|--|-------|
| PHO    | Invesco Water Resources ETF                                | 64.03 |
| FIW    | First Trust Water ETF                                      | 63.85 |
| EBLU   | Ecofin Global Water ESG Fund                               | 63.49 |
| CGW    | Invesco S&P Global Water Index ETF                         | 63.33 |
| MSOS   | AdvisorShares Pure US Cannabis ETF                         | 61.55 |
| GRID   | First Trust Nasdaq Clean Edge Smart GRID Infrastructure .. | 60.98 |
| PIO    | Invesco Global Water ETF                                   | 60.73 |
| KLDW   | Knowledge Leaders Developed World ETF                      | 60.51 |
| BJK    | VanEck Gaming ETF  | 60.33 |
| SNSR   | Global X Internet of Things ETF                            | 59.78 |

## Global Thematic 1-Day Performance Laggards

| Ticker | Fund  | 1-Day Performance |
|--------|---|-------------------|
| BKCH   | Global X Blockchain ETF                                 | -4.76%            |
| BITQ   | Bitwise Crypto Industry Innovators ETF                  | -3.36%            |
| WCLD   | WisdomTree Cloud Computing Fund                         | -2.05%            |
| VPN    | Global X Data Center REITs & Digital Infrastructure ETF | -2.00%            |
| ARKW   | ARK Next Generation Internet ETF                        | -1.68%            |
| BUG    | Global X Cybersecurity ETF                              | -1.64%            |
| CIBR   | First Trust NASDAQ Cybersecurity ETF                    | -1.63%            |
| CLOU   | Global X Cloud Computing ETF                            | -1.56%            |
| BLOK   | Amplify Transformational Data Sharing ETF               | -1.50%            |
| XITK   | SPDR FactSet Innovative Technology ETF                  | -1.40%            |

## Thematic Most Oversold

| Ticker | Fund  | Value |
|--------|---|-------|
| KGRN   | KraneShares MSCI China Clean Technology Index ETF       | 42.04 |
| AWAY   | ETFMG Travel Tech ETF                                   | 44.21 |
| MJ     | ETFMG Alternative Harvest ETF                           | 45.23 |
| VPN    | Global X Data Center REITs & Digital Infrastructure ETF | 45.49 |
| SOCL   | Global X Social Media ETF                               | 45.65 |
| POTX   | Global X Cannabis ETF                                   | 46.05 |
| KWEB   | KraneShares CSI China Internet ETF                      | 47.20 |
| KSTR   | KraneShares SSE STAR Market 50 Index ETF                | 48.39 |
| WCLD   | WisdomTree Cloud Computing Fund                         | 48.64 |
| IZRL   | ARK Israel Innovative Technology ETF                    | 48.84 |

\* 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  |        |
|--------|---|--------|
| ARKK   | ARK Innovation ETF                                | \$117M |
| MSOS   | AdvisorShares Pure US Cannabis ETF                | \$26M  |
| BOTZ   | Global X Robotics & Artificial Intelligence ETF   | \$14M  |
| FIVG   | Defiance Next Gen Connectivity ETF                | \$6M   |
| MJ     | ETFMG Alternative Harvest ETF                     | \$6M   |
| BUG    | Global X Cybersecurity ETF                        | \$5M   |
| KGRN   | KraneShares MSCI China Clean Technology Index ETF | \$4M   |
| GNOM   | Global X Genomics & Biotechnology ETF             | \$4M   |
| SAMT   | Strategas Macro Thematic Opportunities ETF        | \$3M   |
| CLOU   | Global X Cloud Computing ETF                      | \$2M   |

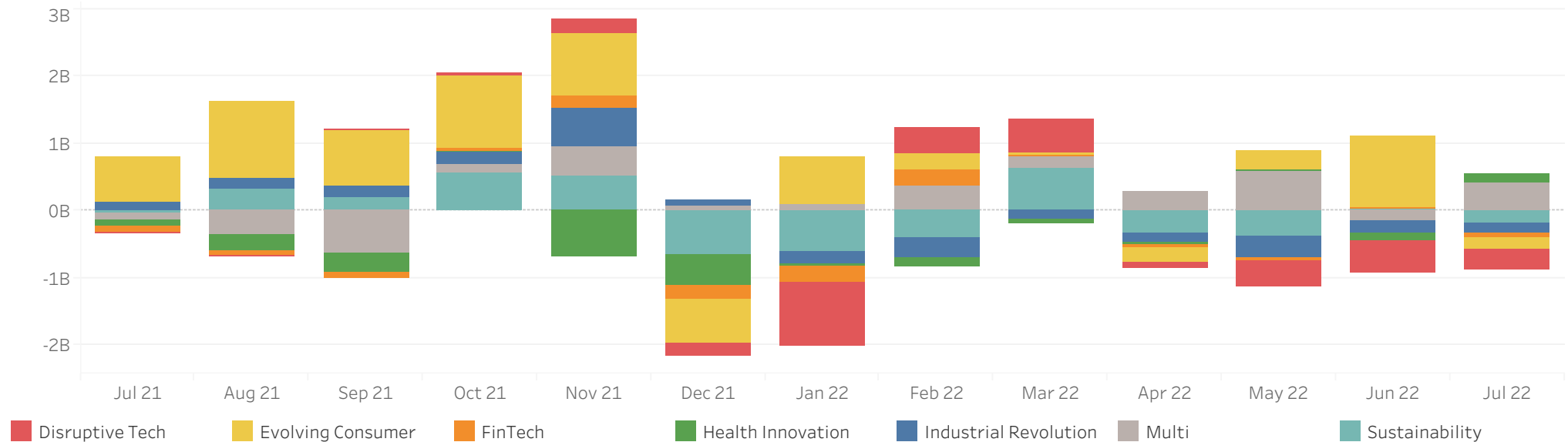
## Thematic 1 Week Flow Laggards

| Ticker | Fund                                   |          |
|--------|--|----------|
| KWEB   | KraneShares CSI China Internet ETF     | (\$139M) |
| TAN    | Invesco Solar ETF                      | (\$92M)  |
| ARKG   | ARK Genomic Revolution ETF             | (\$51M)  |
| HERO   | Global X Video Games & Esports ETF     | (\$32M)  |
| IPAY   | ETFMG Prime Mobile Payments ETF        | (\$19M)  |
| REMX   | VanEck Rare Earth/Strategic Metals ETF | (\$17M)  |
| IDRV   | iShares Self-driving EV & Tech ETF     | (\$15M)  |
| FINX   | Global X FinTech ETF                   | (\$14M)  |
| ICLN   | iShares Global Clean Energy ETF        | (\$14M)  |
| SKYY   | First Trust Cloud Computing ETF        | (\$11M)  |

## Thematic Landscape Assets & Flows

| Segment               | Funds | AUM   | 1 Week   | 3 Month    | 6 Month    | 1 Year     |
|-----------------------|-------|-------|----------|------------|------------|------------|
| Disruptive Tech       | 35    | \$19B | (\$20M)  | (\$1,188M) | (\$464M)   | (\$1,252M) |
| Evolving Consumer     | 48    | \$12B | (\$72M)  | \$1,089M   | \$1,209M   | \$5,955M   |
| FinTech               | 24    | \$3B  | (\$35M)  | (\$115M)   | \$105M     | (\$346M)   |
| Health Innovation     | 19    | \$4B  | (\$46M)  | \$20M      | (\$154M)   | (\$1,948M) |
| Industrial Revolution | 32    | \$12B | (\$16M)  | (\$705M)   | (\$1,203M) | (\$147M)   |
| Multi                 | 42    | \$17B | \$70M    | \$1,061M   | \$1,662M   | \$1,295M   |
| Sustainability        | 42    | \$18B | (\$65M)  | (\$653M)   | (\$695M)   | (\$312M)   |
| Grand Total           | 242   | \$84B | (\$184M) | (\$490M)   | \$462M     | \$3,245M   |

## Thematic Monthly Flows



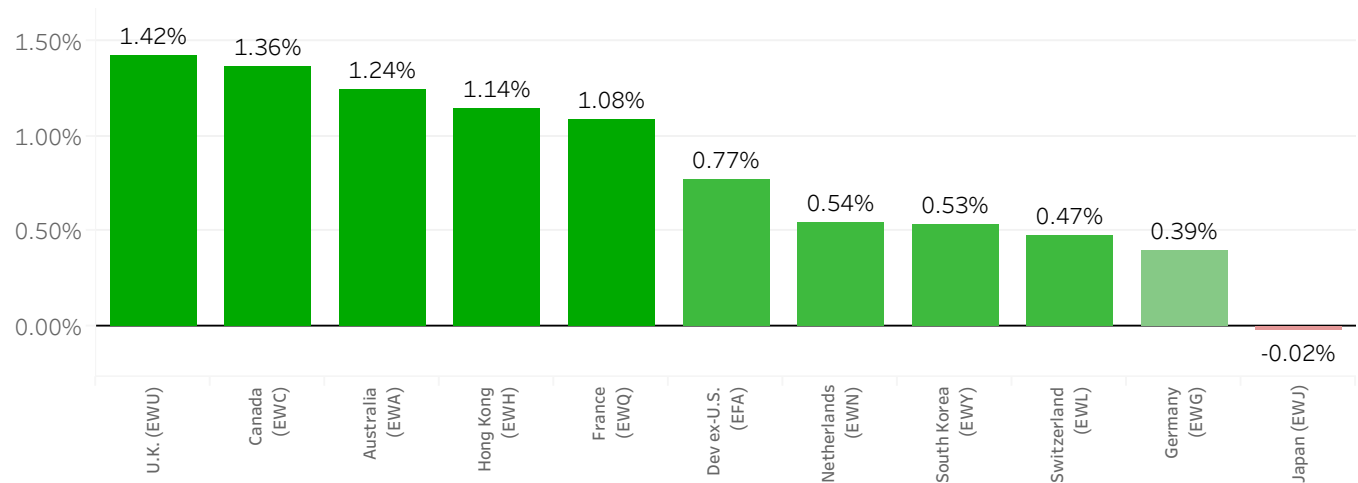
\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



Developed ex-U.S. (EFA)



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



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



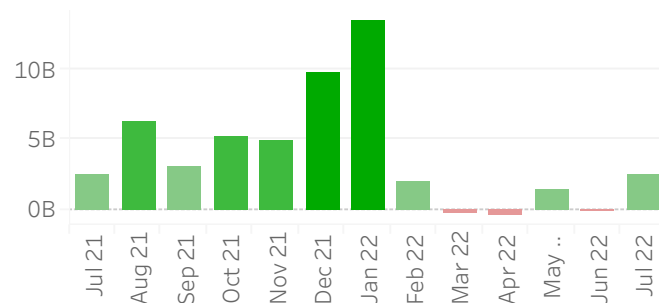
Developed ex-U.S. 1-Day Performance Leaders

| Ticker | Fund   | 1-Day Performance |
|--------|--|-------------------|
| NORW   | Global X MSCI Norway ETF                       | 2.69%             |
| EWQ    | iShares MSCI Austria ETF                       | 1.73%             |
| CIL    | VictoryShares International Volatility Wtd ETF | 1.58%             |
| FLCA   | Franklin FTSE Canada ETF                       | 1.48%             |
| DFE    | WisdomTree Europe SmallCap Dividend Fund       | 1.48%             |
| EWU    | iShares MSCI United Kingdom ETF                | 1.42%             |
| EWI    | iShares MSCI Italy ETF                         | 1.39%             |
| BBCA   | JPMorgan BetaBuilders Canada ETF               | 1.38%             |
| DTH    | WisdomTree International High Dividend Fund    | 1.38%             |
| EWC    | iShares MSCI Canada ETF                        | 1.36%             |

Developed ex-U.S. Most Overbought

| Ticker | Fund  | Price |
|--------|---|-------|
| DBJP   | Xtrackers MSCI Japan Hedged Equity ETF                  | 63.40 |
| DFJ    | WisdomTree Japan SmallCap Dividend Fund                 | 63.20 |
| SCJ    | iShares MSCI Japan Small-Cap ETF                        | 61.88 |
| EFG    | iShares MSCI EAFE Growth ETF                            | 61.54 |
| HEWJ   | iShares Currency Hedged MSCI Japan ETF                  | 61.27 |
| EWN    | iShares MSCI Netherlands ETF                            | 60.94 |
| BBJP   | JPMorgan BetaBuilders Japan ETF                         | 60.41 |
| EFAD   | ProShares MSCI EAFE Dividend Growers ETF                | 60.32 |
| IHDG   | WisdomTree International Hedged Quality Dividend Grow.. | 60.15 |
| DXJ    | WisdomTree Japan Hedged Equity Fund                     | 60.07 |

Developed ex-U.S. Monthly Flows



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

| Ticker | Fund   | 1-Day Performance |
|--------|--|-------------------|
| EIS    | iShares MSCI Israel ETF                      | -0.88%            |
| ISRA   | VanEck Israel ETF                            | -0.30%            |
| ENZL   | iShares MSCI New Zealand ETF                 | -0.15%            |
| PTIN   | Pacer Trendpilot International ETF           | -0.14%            |
| EWS    | iShares MSCI Singapore ETF                   | -0.11%            |
| EWJ    | iShares MSCI Japan ETF                       | -0.02%            |
| JPXN   | iShares JPX-Nikkei 400 ETF                   | 0.02%             |
| WPS    | iShares International Developed Property ETF | 0.07%             |
| FLJP   | Franklin FTSE Japan ETF                      | 0.08%             |
| BBJP   | JPMorgan BetaBuilders Japan ETF              | 0.09%             |

Developed ex-U.S. Most Oversold

| Ticker | Fund  | Price |
|--------|---|-------|
| EWK    | iShares MSCI Hong Kong ETF                            | 45.04 |
| EWI    | iShares MSCI Italy ETF                                | 45.66 |
| FIDI   | Fidelity International High Dividend ETF              | 46.10 |
| AIA    | iShares Asia 50 ETF                                   | 46.11 |
| EWQ    | iShares MSCI Spain ETF                                | 46.56 |
| DTH    | WisdomTree International High Dividend Fund           | 47.11 |
| HDEF   | Xtrackers MSCI EAFE High Dividend Yield Equity ETF    | 47.27 |
| FDD    | First Trust Stoxx European Select Dividend Index Fu.. | 47.62 |
| AAXJ   | iShares MSCI All Country Asia ex Japan ETF            | 47.68 |
| IDOG   | ALPS International Sector Dividend Dogs ETF           | 48.24 |

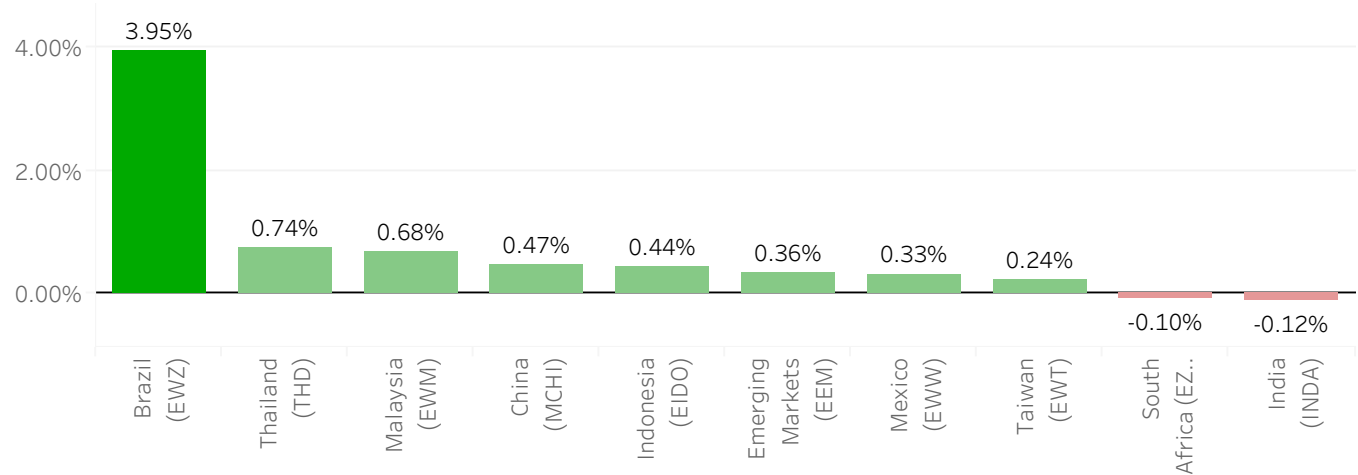
\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



Emerging (EEM)



Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



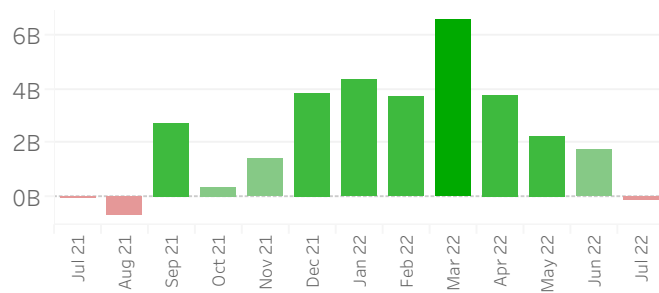
Emerging 1-Day Performance Leaders

| Ticker | Fund   | Performance |
|--------|--|-------------|
| EWZ    | iShares MSCI Brazil ETF                        | 3.95%       |
| FLBR   | Franklin FTSE Brazil ETF                       | 3.72%       |
| ILF    | iShares Latin America 40 ETF                   | 2.85%       |
| EWZS   | iShares MSCI Brazil Small-Cap ETF              | 2.70%       |
| FLLA   | Franklin FTSE Latin America ETF                | 2.59%       |
| ECH    | iShares MSCI Chile ETF                         | 2.35%       |
| DEM    | WisdomTree Emerging Markets High Dividend Fund | 1.55%       |
| DVYE   | iShares Emerging Markets Dividend ETF          | 1.39%       |
| PGJ    | Invesco Golden Dragon China ETF                | 1.34%       |
| QAT    | iShares MSCI Qatar ETF                         | 1.30%       |

Emerging Most Overbought

| Ticker | Fund                             | Price |
|--------|----------------------------------|-------|
| QAT    | iShares MSCI Qatar ETF           | 61.36 |
| PIN    | Invesco India ETF                | 59.11 |
| FLIN   | Franklin FTSE India ETF          | 59.10 |
| INDA   | iShares MSCI India ETF           | 58.69 |
| SMIN   | iShares MSCI India Small Cap ETF | 58.55 |
| INDY   | iShares India 50 ETF             | 58.39 |
| EWM    | iShares MSCI Malaysia ETF        | 56.42 |
| EIDO   | iShares MSCI Indonesia ETF       | 54.92 |
| ECH    | iShares MSCI Chile ETF           | 53.75 |
| KSA    | iShares MSCI Saudi Arabia ETF    | 53.54 |

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

| Ticker | Fund   | Performance |
|--------|--|-------------|
| KSA    | iShares MSCI Saudi Arabia ETF                            | -0.75%      |
| EPH    | iShares MSCI Peru ETF                                    | -0.74%      |
| ECNS   | iShares MSCI China Small-Cap ETF                         | -0.55%      |
| DGRE   | WisdomTree Emerging Markets Quality Dividend Growth Fund | -0.46%      |
| PIN    | Invesco India ETF  | -0.29%      |
| EPHE   | iShares MSCI Philippines ETF                             | -0.20%      |
| LDEM   | iShares ESG MSCI EM Leaders ETF                          | -0.15%      |
| INDY   | iShares India 50 ETF                                     | -0.15%      |
| INDA   | iShares MSCI India ETF                                   | -0.12%      |
| EZA    | iShares MSCI South Africa ETF                            | -0.10%      |

Emerging Most Oversold

| Ticker | Fund   | Price |
|--------|--|-------|
| ECNS   | iShares MSCI China Small-Cap ETF                 | 37.70 |
| EPHE   | iShares MSCI Philippines ETF                     | 37.74 |
| SDEM   | Global X MSCI SuperDividend Emerging Markets ETF | 37.84 |
| RAYC   | Rayliant Quantamental China Equity ETF           | 37.97 |
| CXSE   | WisdomTree China ex-State-Owned Enterprises Fund | 41.11 |
| DVYE   | iShares Emerging Markets Dividend ETF            | 41.20 |
| ASHR   | Xtrackers Harvest CSI 300 China A-Shares ETF     | 41.38 |
| THD    | iShares MSCI Thailand ETF                        | 41.54 |
| GXC    | SPDR S&P China ETF                               | 41.58 |
| CNYA   | iShares MSCI China A ETF                         | 41.67 |

\* 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                | -0.37% | 2.09%   | -8.84%  |
| SHY    | 1-3 Year Treasury Bonds       | -0.08% | 0.28%   | -2.90%  |
| IEF    | 7-10 Year Treasury Bonds      | -0.36% | 2.82%   | -9.06%  |
| TLT    | 20+ Year Treasury Bonds       | -0.98% | 4.50%   | -20.01% |
| TIP    | TIPS Bonds                    | -0.19% | 0.73%   | -7.15%  |
| FLOT   | Floating Rate Bonds           | -0.22% | -0.04%  | -0.96%  |
| LQD    | Investment Grade Corporate    | -0.84% | 2.62%   | -13.83% |
| HYG    | High Yield Corporate          | -0.03% | 2.89%   | -9.55%  |
| BKLN   | Senior Loan                   | 0.29%  | 2.40%   | -3.18%  |
| PFF    | Preferred & Income Securities | 0.00%  | 3.32%   | -11.98% |
| MUB    | Municipal Bonds               | -0.34% | 1.75%   | -6.60%  |
| MBB    | MBS                           | -0.12% | 2.71%   | -7.12%  |
| EMB    | Dollar Denominated EM Bonds   | 0.07%  | -0.07%  | -19.24% |
| LEMB   | Local Currency EM Bond        | 0.43%  | -1.96%  | -14.35% |

Commodities Performance

| Ticker | Name                    | 1 Day  | 1 Month | YTD     |
|--------|-------------------------|--------|---------|---------|
| DJP    | Broad Commodities       | 2.07%  | -2.45%  | 22.06%  |
| DBE    | Energy                  | 2.07%  | -8.11%  | 47.19%  |
| USO    | WTI Crude Oil           | 2.27%  | -6.21%  | 40.21%  |
| BNO    | Brent Crude Oil         | 1.99%  | -4.10%  | 49.74%  |
| UNG    | Natural Gas             | 4.98%  | 39.55%  | 137.87% |
| UGA    | Gasoline                | 3.27%  | -13.28% | 53.22%  |
| DBP    | Precious Metals         | -0.46% | -7.45%  | -10.28% |
| GLD    | Gold                    | -0.27% | -5.80%  | -6.28%  |
| SLV    | Silver                  | -0.93% | -12.97% | -21.06% |
| PPLT   | abrdn Physical Platin.. | 0.98%  | -3.07%  | -9.07%  |
| PALL   | abrdn Physical Palla..  | -1.09% | 6.63%   | 5.70%   |
| DBB    | Base Metals             | -0.22% | -8.61%  | -17.48% |
| CPER   | Copper                  | 1.60%  | -9.82%  | -25.10% |
| LD     | Lead                    | -0.30% | 1.02%   | -13.44% |
| JJN    | Nickel                  | -0.68% | -0.09%  | 7.05%   |
| JJU    | Aluminum                | -2.70% | -0.43%  | -14.41% |
| JJT    | Tin                     | -4.83% | 1.40%   | -35.96% |
| DBA    | Agriculture             | 1.35%  | -5.64%  | -0.96%  |
| CORN   | Corn                    | 2.80%  | -12.23% | 9.24%   |
| SOYB   | Soybeans                | 2.39%  | -4.90%  | 10.99%  |
| WEAT   | Wheat                   | 2.43%  | -15.76% | 8.53%   |
| CANE   | Sugar                   | -1.69% | -5.21%  | -5.11%  |
| BAL    | Cotton                  | -1.51% | -6.79%  | -2.48%  |
| NIB    | Cocoa                   | 4.01%  | -3.16%  | -12.75% |
| JO     | Coffee                  | 2.30%  | -6.06%  | -6.84%  |

Currencies Performance

| Ticker | Name                   | 1 Day  | 1 Month | YTD     |
|--------|------------------------|--------|---------|---------|
| UUP    | Long Dollar            | -0.14% | 2.38%   | 10.96%  |
| UDN    | Short Dollar           | 0.22%  | -2.34%  | -10.57% |
| FXE    | Euro                   | 0.11%  | -3.21%  | -10.65% |
| FXB    | British Pound Sterling | 0.47%  | -1.87%  | -11.02% |
| FXF    | Swiss Franc            | -0.26% | -0.73%  | -6.06%  |
| FXJ    | Japanese Yen           | -0.52% | -1.06%  | -15.97% |
| FXC    | Canadian Dollar        | 0.62%  | 0.46%   | -1.73%  |
| FXA    | Australian Dollar      | 0.66%  | 0.23%   | -4.44%  |

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

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