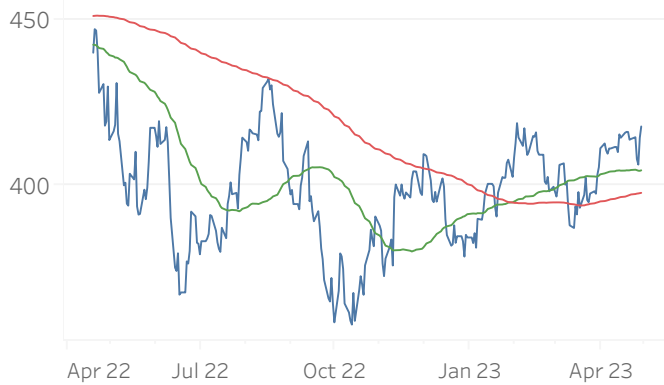


Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

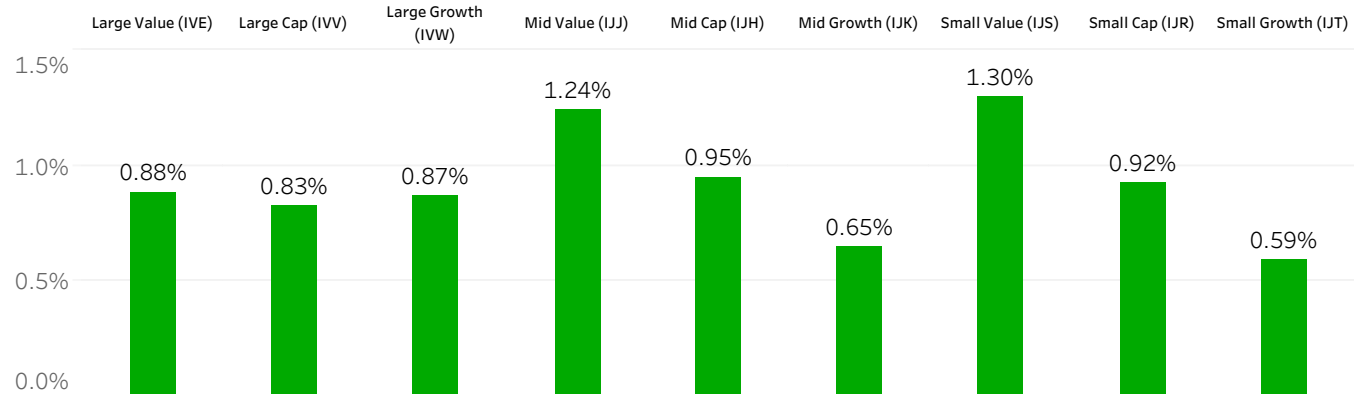


Small Cap Blend (S&P 600) IJR



■ 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 |
|--------|---|-------------------|
| RPV    | Invesco S&P 500 Pure Value ETF                | 1.71%             |
| SPHB   | Invesco S&P 500 High Beta ETF                 | 1.68%             |
| LSAT   | Leadershires Alphafactor Tactical Focused ETF | 1.62%             |
| ALTL   | Pacer Lunt Large Cap Alternator ETF           | 1.59%             |
| AVUV   | Avantis U.S. Small Cap Value ETF              | 1.57%             |
| RFV    | Invesco S&P Midcap 400 Pure Value ETF         | 1.56%             |
| CALF   | Pacer US Small Cap Cash Cows 100 ETF          | 1.51%             |
| VFVA   | Vanguard U.S. Value Factor ETF                | 1.48%             |
| QVAL   | Alpha Architect US Quantitative Value ETF     | 1.47%             |
| RZV    | Invesco S&P Smallcap 600 Pure Value ETF       | 1.46%             |

Size & Style Most Overbought

| Ticker | Fund  | Price |
|--------|---|-------|
| JEPQ   | J.P. Morgan Nasdaq Equity Premium Income ETF    | 66.85 |
| ABEQ   | Absolute Select Value ETF                       | 66.05 |
| XLG    | Invesco S&P 500 Top 50 ETF                      | 66.01 |
| FDLO   | Fidelity Low Volatility Factor ETF              | 65.21 |
| SPUS   | SP Funds S&P 500 Sharia Industry Exclusions ETF | 65.05 |
| MGK    | Vanguard Mega Cap Growth ETF                    | 64.15 |
| OEF    | iShares S&P 100 ETF                             | 64.10 |
| TMFC   | Motley Fool 100 Index ETF                       | 63.97 |
| IWY    | iShares Russell Top 200 Growth ETF              | 63.58 |
| EFIV   | SPDR S&P 500 ESG ETF                            | 63.51 |

Size & Style 1-Day Performance Laggards

| Ticker | Fund   | 1-Day Performance |
|--------|--|-------------------|
| FCTR   | First Trust Lunt U.S. Factor Rotation ETF              | -0.19%            |
| SPC    | CrossingBridge Pre-Merger SPAC ETF                     | -0.08%            |
| SIXS   | ETC 6 Meridian Small Cap Equity ETF                    | 0.01%             |
| ACSI   | American Customer Satisfaction ETF                     | 0.10%             |
| SIXL   | ETC 6 Meridian Low Beta Equity ETF                     | 0.14%             |
| CDC    | VictoryShares US EQ Income Enhanced Volatility Wtd ETF | 0.16%             |
| NUMG   | Nuveen ESG Mid-Cap Growth ETF                          | 0.16%             |
| XSMO   | Invesco S&P SmallCap Momentum ETF                      | 0.19%             |
| LCG    | Sterling Capital Focus Equity ETF                      | 0.26%             |
| SPLV   | Invesco S&P 500 Low Volatility ETF                     | 0.27%             |

Size & Style Most Oversold

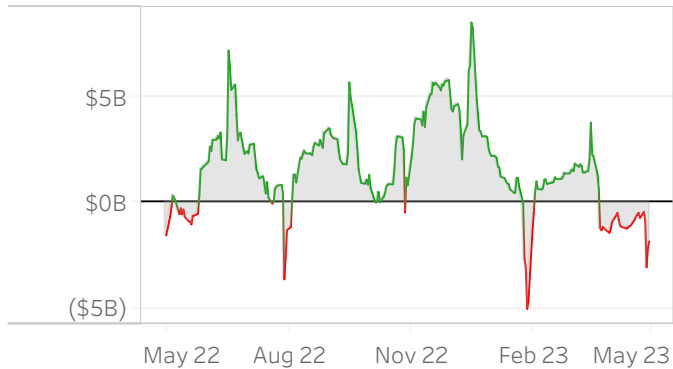
| Ticker | Fund  | Price |
|--------|---|-------|
| FCTR   | First Trust Lunt U.S. Factor Rotation ETF       | 37.03 |
| XSLV   | Invesco S&P SmallCap Low Volatility ETF         | 39.15 |
| AIEQ   | AI Powered Equity ETF                           | 39.19 |
| SIXS   | ETC 6 Meridian Small Cap Equity ETF             | 39.27 |
| FPX    | First Trust US Equity Opportunities ETF         | 41.34 |
| SMLV   | SPDR SSGA US Small Cap Low Volatility Index ETF | 41.40 |
| SVAL   | iShares US Small Cap Value Factor ETF           | 41.55 |
| XSMO   | Invesco S&P SmallCap Momentum ETF               | 41.69 |
| QMOM   | Momentumshares US Quantitative Momentum E..     | 41.92 |
| X SVM  | Invesco S&P SmallCap Value with Momentum ETF    | 41.95 |

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

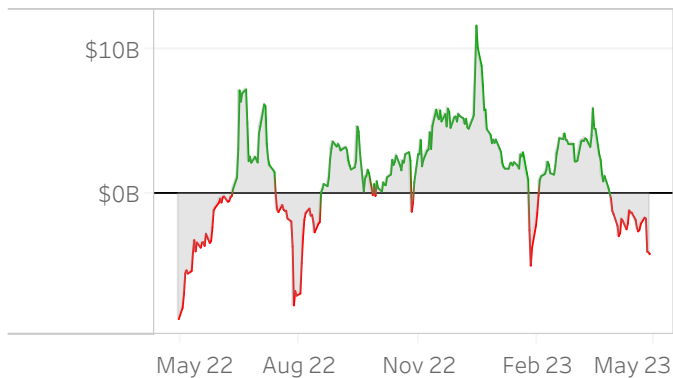
Large-Cap 30-Day Rolling Flows



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, Beta         | 25    | \$1,285B | (\$0.53B) | (\$0.46B) | (\$16.90B) | \$63.56B  |
| Large Cap, Beta, Beta: Growth | 10    | \$246B   | \$0.19B   | \$3.66B   | \$9.02B    | \$22.43B  |
| Large Cap, Beta, Beta: Value  | 11    | \$219B   | \$0.09B   | (\$3.95B) | (\$5.06B)  | \$3.41B   |
| Mid Cap, Beta, Beta           | 10    | \$182B   | (\$0.03B) | \$0.90B   | \$4.81B    | \$10.39B  |
| Mid Cap, Beta, Beta: Growth   | 6     | \$33B    | \$0.00B   | \$0.21B   | (\$0.04B)  | \$1.21B   |
| Mid Cap, Beta, Beta: Value    | 6     | \$39B    | (\$0.06B) | (\$0.71B) | (\$0.93B)  | \$0.84B   |
| Small Cap, Beta, Beta         | 13    | \$185B   | \$0.17B   | (\$0.18B) | \$2.63B    | \$2.94B   |
| Small Cap, Beta, Beta: Growth | 7     | \$31B    | (\$0.02B) | (\$0.13B) | \$0.39B    | \$1.46B   |
| Small Cap, Beta, Beta: Value  | 7     | \$47B    | (\$0.03B) | (\$0.77B) | \$0.33B    | (\$0.20B) |

U.S. Size & Style Flow Leaders

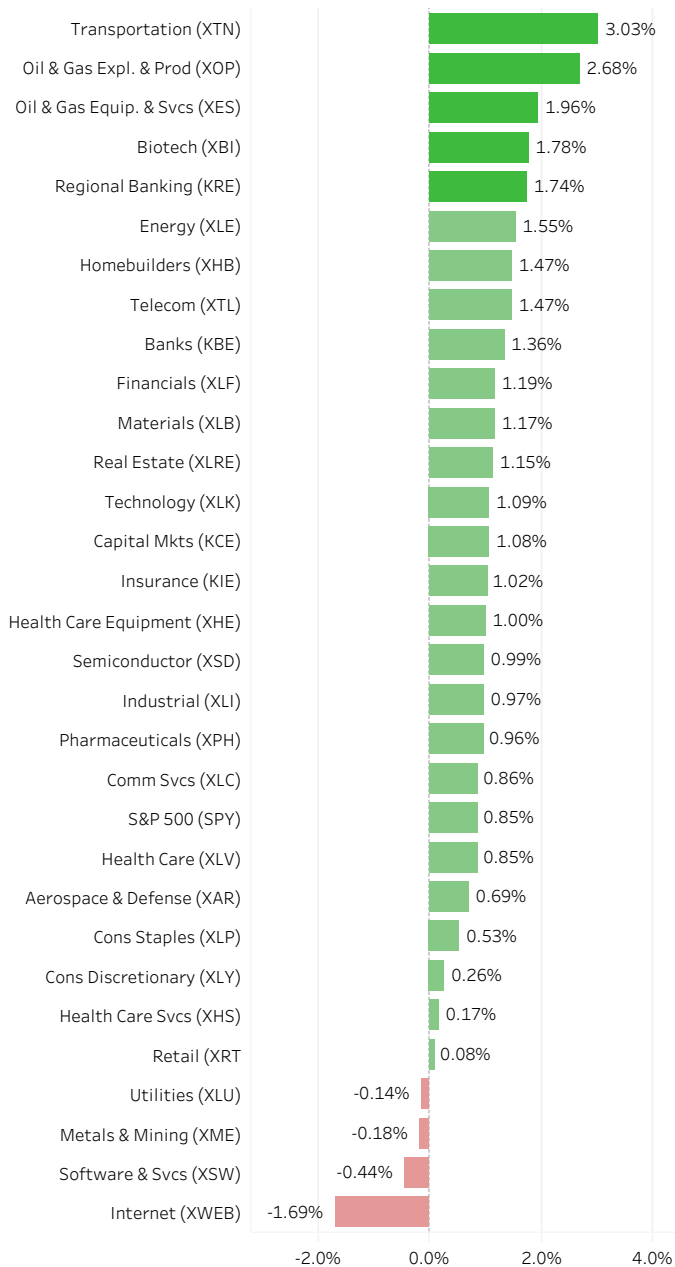
| Ticker | Fund   | 1 Week  | 3 Month   | 6 Month   | 1 Year    | AUM       |
|--------|--|---------|-----------|-----------|-----------|-----------|
| VOO    | Vanguard S&P 500 ETF                         | \$0.53B | \$6.76B   | \$6.90B   | \$33.12B  | \$290.53B |
| IWM    | iShares Russell 2000 ETF                     | \$0.25B | (\$1.55B) | (\$1.57B) | (\$2.62B) | \$48.75B  |
| OMFL   | Invesco Russell 1000 Dynamic Multifactor ETF | \$0.19B | \$0.79B   | \$0.94B   | \$1.18B   | \$3.29B   |
| SPYG   | SPDR Portfolio S&P 500 Growth ETF            | \$0.18B | \$1.07B   | \$2.62B   | \$4.21B   | \$16.31B  |
| XMHQ   | Invesco S&P MidCap Quality ETF               | \$0.15B | \$0.29B   | \$0.37B   | \$0.36B   | \$0.71B   |
| SPYV   | SPDR Portfolio S&P 500 Value ETF             | \$0.15B | (\$1.31B) | \$0.80B   | \$1.11B   | \$14.76B  |
| PABU   | iShares Paris-Aligned Climate MSCI USA ETF   | \$0.13B | \$0.32B   | \$0.39B   | \$0.66B   | \$1.25B   |
| QUAL   | iShares MSCI USA Quality Factor ETF          | \$0.12B | \$8.65B   | \$8.33B   | \$6.28B   | \$28.24B  |
| VYM    | Vanguard High Dividend Yield Index ETF       | \$0.12B | \$0.64B   | \$0.88B   | \$6.09B   | \$49.34B  |
| SCHD   | Schwab US Dividend Equity ETF                | \$0.11B | \$2.28B   | \$7.15B   | \$14.20B  | \$46.16B  |

U.S. Size & Style Flow Laggards

| Ticker | Fund                                 | 1 Week    | 3 Month   | 6 Month   | 1 Year    | AUM       |
|--------|--------------------------------------|-----------|-----------|-----------|-----------|-----------|
| RSP    | Invesco S&P 500 Equal Weight ETF     | (\$0.41B) | (\$1.08B) | \$1.59B   | \$1.90B   | \$33.26B  |
| IJR    | iShares Core S&P Small Cap ETF       | (\$0.12B) | \$0.41B   | \$1.33B   | \$2.74B   | \$64.33B  |
| MTUM   | iShares MSCI USA Momentum Factor ETF | (\$0.11B) | (\$2.15B) | (\$2.00B) | (\$0.70B) | \$9.67B   |
| IWF    | iShares Russell 1000 Growth ETF      | (\$0.11B) | (\$0.60B) | (\$1.92B) | \$1.12B   | \$63.02B  |
| VTI    | Vanguard Total Stock Market ETF      | (\$0.08B) | \$2.11B   | \$7.80B   | \$19.76B  | \$283.09B |
| IVV    | iShares Core S&P 500 ETF             | (\$0.07B) | (\$2.60B) | (\$5.17B) | \$16.05B  | \$309.13B |
| COWZ   | Pacer US Cash Cows 100 ETF           | (\$0.07B) | \$1.67B   | \$4.53B   | \$8.93B   | \$13.02B  |
| DVY    | iShares Select Dividend ETF          | (\$0.06B) | (\$0.72B) | (\$0.07B) | \$0.95B   | \$21.26B  |
| SCHX   | Schwab U.S. Large-Cap ETF            | (\$0.06B) | (\$0.61B) | (\$0.36B) | \$1.52B   | \$30.96B  |
| VTV    | Vanguard Value ETF                   | (\$0.06B) | \$0.33B   | (\$1.53B) | \$4.11B   | \$101.46B |

\* 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) |
|--------|--|-----------------|----------------|--------------------|---------------------|-----------|
| XLP    | Consumer Staples Select Sector SPDR Fund       | 0.00%           | 16.45%         | 4.73%              | 5.45%               | 70.91     |
| XLK    | Technology Select Sector SPDR Fund             | -0.48%          | 29.40%         | 4.75%              | 11.55%              | 60.44     |
| XLC    | Communication Services Select Sector SPDR Fund | -1.71%          | 31.91%         | 6.59%              | 12.92%              | 63.23     |
| SPY    | SPDR S&P 500 ETF Trust                         | -3.20%          | 16.65%         | 3.36%              | 5.09%               | 61.13     |
| XLI    | Industrial Select Sector SPDR Fund             | -3.54%          | 20.71%         | 0.26%              | 3.11%               | 51.86     |
| XLV    | Health Care Select Sector SPDR Fund            | -4.69%          | 11.38%         | 2.78%              | 1.84%               | 55.47     |
| XLB    | Materials Select Sector SPDR Fund              | -8.59%          | 19.65%         | 0.84%              | 2.87%               | 52.13     |
| XLE    | Energy Select Sector SPDR Fund                 | -9.51%          | 26.14%         | 1.79%              | 1.31%               | 51.87     |
| XLF    | Financial Select Sector SPDR Fund              | -10.35%         | 9.51%          | 0.16%              | -2.20%              | 55.22     |
| XLU    | Utilities Select Sector SPDR Fund              | -11.70%         | 12.13%         | 2.41%              | -1.04%              | 52.82     |
| XLY    | Consumer Discretionary Select Sector SPDR Fund | -14.52%         | 17.11%         | 2.20%              | 1.02%               | 55.63     |
| XLRE   | Real Estate Select Sector SPDR Fund            | -17.47%         | 11.79%         | 1.59%              | -2.50%              | 56.77     |

### Sector & Industry 1 Day Performance Leaders

| Ticker | Fund  | 1 Day Performance |
|--------|---|-------------------|
| XTN    | SPDR S&P Transportation ETF                         | 3.03%             |
| FCG    | First Trust Natural Gas ETF                         | 2.71%             |
| PXE    | Invesco Dynamic Energy Exploration & Production ..  | 2.69%             |
| XOP    | SPDR S&P Oil & Gas Exploration & Production ETF     | 2.68%             |
| FXN    | First Trust Energy AlphaDEX Fund                    | 2.37%             |
| IAT    | iShares U.S. Regional Banks ETF                     | 2.32%             |
| IEZ    | iShares U.S. Oil Equipment & Services ETF           | 2.13%             |
| IEO    | iShares U.S. Oil & Gas Exploration & Production ETF | 2.09%             |
| FTXL   | First Trust Nasdaq Semiconductor ETF                | 2.09%             |
| IYT    | iShares US Transportation ETF                       | 2.08%             |

### Sector & Industry Most Overbought

| Ticker | Fund  | RSI (14D) |
|--------|---|-----------|
| VDC    | Vanguard Consumer Staples ETF                     | 72.01     |
| IYK    | iShares U.S. Consumer Staples ETF                 | 71.79     |
| XLP    | Consumer Staples Select Sector SPDR Fund          | 70.91     |
| FSTA   | FIDELITY COVINGTON TRUST MSCI CONSUMER STAPLES..  | 70.81     |
| RHS    | Invesco S&P 500 Equal Weight Consumer Staples ETF | 70.50     |
| FTXG   | First Trust Nasdaq Food & Beverage ETF            | 70.03     |
| PSL    | Invesco DWA Consumer Staples Momentum ETF         | 69.98     |
| ITB    | iShares U.S. Home Construction ETF                | 69.64     |
| FXG    | First Trust Consumer Staples AlphaDEX Fund        | 65.99     |
| XHB    | SPDR S&P Homebuilders ETF                         | 65.46     |

### Sector & Industry 1 Day Performance Laggards

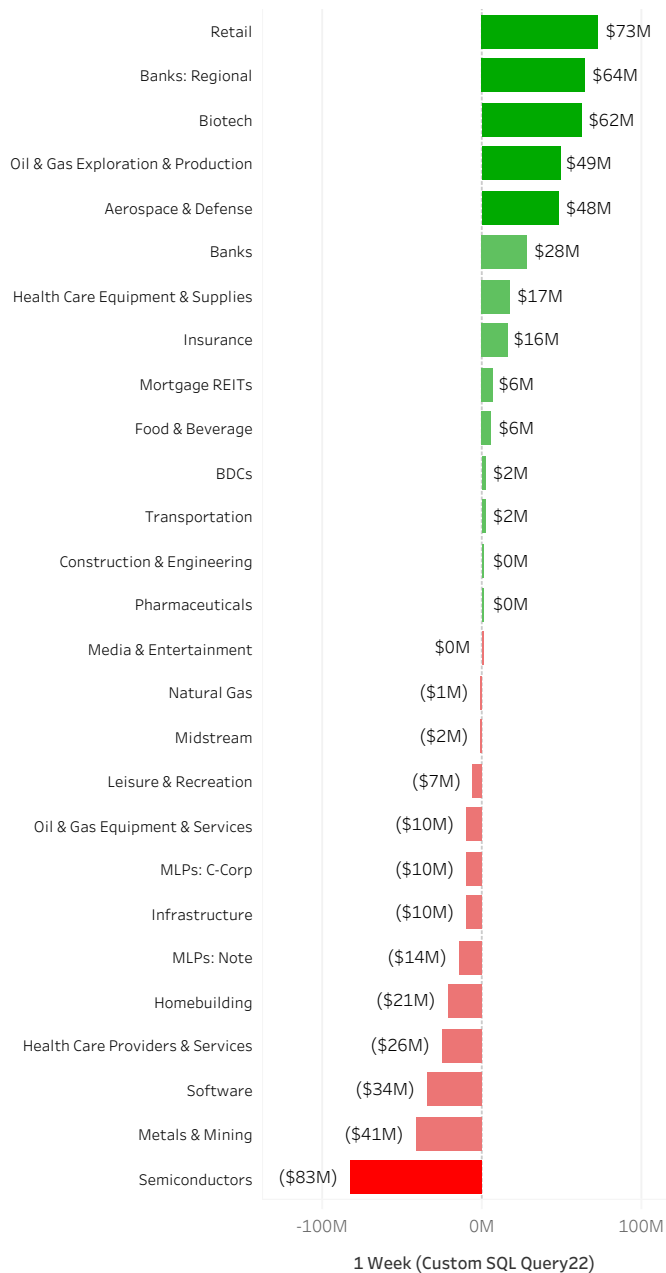
| Ticker | Fund                                       | 1 Day Performance |
|--------|--|-------------------|
| FDN    | First Trust Dow Jones Internet Index Fund  | -0.70%            |
| XSW    | SPDR S&P Software & Services ETF           | -0.44%            |
| PSCH   | Invesco S&P SmallCap Health Care ETF       | -0.36%            |
| RYU    | Invesco S&P 500 Equal Weight Utilities ETF | -0.26%            |
| XME    | SPDR S&P Metals & Mining ETF               | -0.18%            |
| FUTY   | Fidelity MSCI Utilities Index ETF          | -0.16%            |
| VPU    | Vanguard Utilities ETF                     | -0.15%            |
| XLU    | Utilities Select Sector SPDR Fund          | -0.14%            |
| FXU    | First Trust Utilities AlphaDEX Fund        | 0.00%             |
| PSJ    | Invesco Dynamic Software ETF               | 0.01%             |

### Sector & Industry Most Oversold

| Ticker | Fund  | RSI (14D) |
|--------|---|-----------|
| XSD    | SPDR S&P Semiconductor ETF                            | 30.59     |
| PSCT   | Invesco S&P SmallCap Information Technology ETF       | 33.22     |
| PSI    | Invesco Dynamic Semiconductors ETF                    | 37.01     |
| QABA   | First Trust NASDAQ ABA Community Bank Index Fund      | 37.26     |
| PTF    | Invesco DWA Technology Momentum ETF                   | 37.80     |
| IGN    | iShares North American Tech-Multimedia Networking ETF | 37.96     |
| XME    | SPDR S&P Metals & Mining ETF                          | 39.07     |
| XTL    | SPDR S&P Telecom ETF                                  | 40.10     |
| PSJ    | Invesco Dynamic Software ETF                          | 41.21     |
| FXL    | First Trust Technology AlphaDEX Fund                  | 42.15     |

\* 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 | 7     | \$15B  | (\$1M)   | \$1,182M   | \$1,226M   | \$876M      |
| Consumer Discretionary | 12    | \$23B  | (\$22M)  | \$917M     | \$226M     | (\$1,387M)  |
| Consumer Staples       | 10    | \$32B  | \$117M   | \$1,068M   | \$2,472M   | \$3,617M    |
| Energy                 | 32    | \$71B  | (\$462M) | (\$5,368M) | (\$6,507M) | (\$10,352M) |
| Financials             | 26    | \$56B  | (\$106M) | \$2,394M   | \$1,190M   | (\$7,189M)  |
| Health Care            | 23    | \$91B  | (\$141M) | (\$3,238M) | (\$2,236M) | \$1,043M    |
| Industrial             | 13    | \$31B  | (\$207M) | \$323M     | \$1,488M   | (\$1,467M)  |
| Materials              | 9     | \$14B  | \$20M    | (\$90M)    | \$603M     | (\$3,024M)  |
| Multi-Sector           | 19    | \$14B  | \$3M     | \$247M     | (\$340M)   | (\$1,850M)  |
| Real Estate            | 25    | \$55B  | (\$4M)   | (\$2,892M) | (\$2,732M) | (\$6,530M)  |
| Technology             | 23    | \$130B | (\$352M) | \$420M     | (\$1,110M) | \$189M      |
| Utilities              | 9     | \$26B  | \$555M   | \$401M     | \$330M     | \$2,638M    |

## U.S. Sector & Industry Flow Leaders

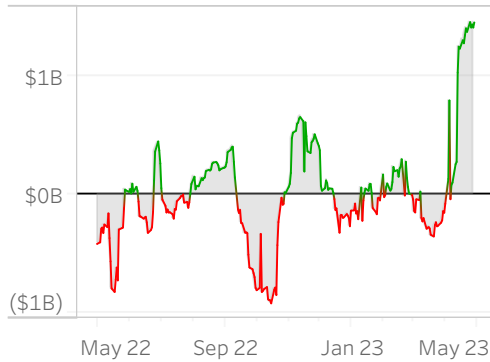
| Ticker | Fund  | 1 Week | 3 Month  | 6 Month  | 1 Year     | AUM       |
|--------|---|--------|----------|----------|------------|-----------|
| XLU    | Utilities Select Sector SPDR Fund               | \$559M | \$783M   | \$649M   | \$2,168M   | \$16,637M |
| XBI    | SPDR S&P BIOTECH ETF                            | \$141M | (\$983M) | (\$711M) | \$158M     | \$6,366M  |
| IYM    | iShares U.S. Basic Materials ETF                | \$92M  | \$146M   | \$4M     | (\$101M)   | \$907M    |
| XLP    | Consumer Staples Select Sector SPDR Fund        | \$85M  | \$901M   | \$1,734M | \$1,865M   | \$18,693M |
| XRT    | SPDR S&P Retail ETF                             | \$73M  | \$79M    | (\$6M)   | (\$134M)   | \$399M    |
| KRE    | SPDR S&P Regional Banking ETF                   | \$64M  | \$1,318M | \$454M   | (\$260M)   | \$2,870M  |
| XOP    | SPDR S&P Oil & Gas Exploration & Production E.. | \$58M  | (\$309M) | (\$961M) | (\$1,986M) | \$3,330M  |
| FDN    | First Trust Dow Jones Internet Index Fund       | \$49M  | (\$154M) | (\$558M) | (\$691M)   | \$3,956M  |
| ITA    | iShares U.S. Aerospace & Defense ETF            | \$45M  | \$702M   | \$1,596M | \$1,791M   | \$5,891M  |
| IYR    | iShares U.S. Real Estate ETF                    | \$37M  | (\$783M) | (\$679M) | (\$1,316M) | \$2,804M  |

## U.S. Sector & Industry Flow Laggards

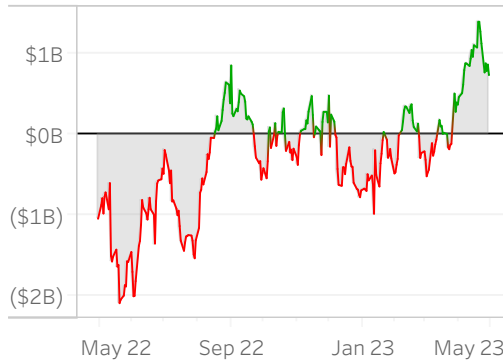
| Ticker | Fund   | 1 Week   | 3 Month    | 6 Month    | 1 Year     | AUM       |
|--------|--|----------|------------|------------|------------|-----------|
| XLE    | Energy Select Sector SPDR Fund                 | (\$427M) | (\$1,553M) | (\$1,915M) | (\$3,019M) | \$37,827M |
| XLI    | Industrial Select Sector SPDR Fund             | (\$252M) | (\$582M)   | (\$355M)   | (\$1,668M) | \$13,110M |
| XLV    | Health Care Select Sector SPDR Fund            | (\$170M) | (\$1,140M) | (\$531M)   | \$2,017M   | \$39,407M |
| XLF    | Financial Select Sector SPDR Fund              | (\$163M) | \$1,652M   | \$1,744M   | (\$3,660M) | \$31,782M |
| VGT    | Vanguard Information Technology ETF            | (\$158M) | (\$673M)   | (\$600M)   | (\$858M)   | \$45,616M |
| XLV    | Consumer Discretionary Select Sector SPDR Fu.. | (\$137M) | \$4M       | (\$469M)   | (\$903M)   | \$14,384M |
| SOXX   | iShares Semiconductor ETF                      | (\$82M)  | \$282M     | \$216M     | (\$318M)   | \$7,146M  |
| IBB    | iShares Biotechnology ETF                      | (\$71M)  | (\$685M)   | (\$258M)   | (\$406M)   | \$7,848M  |
| XLK    | Technology Select Sector SPDR Fund             | (\$66M)  | (\$1,706M) | (\$2,058M) | (\$1,909M) | \$42,831M |
| XLB    | Materials Select Sector SPDR Fund              | (\$51M)  | (\$119M)   | \$230M     | (\$1,266M) | \$5,791M  |

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

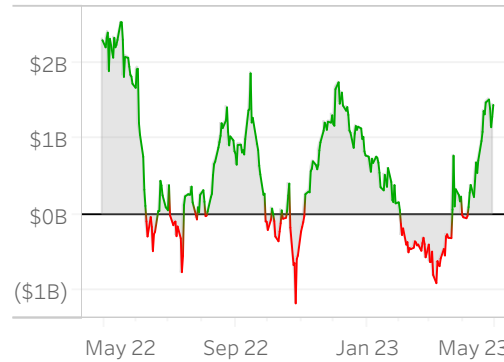
Communication Services



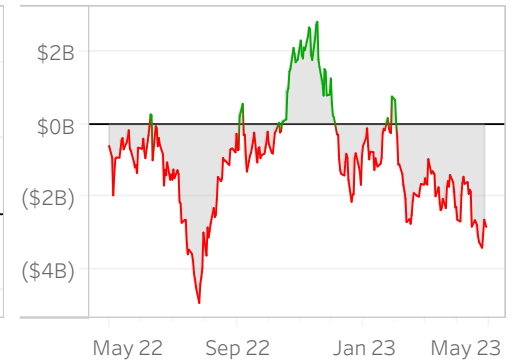
Consumer Discretionary



Consumer Staples



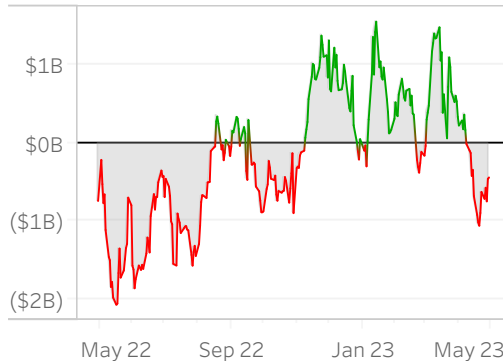
Energy



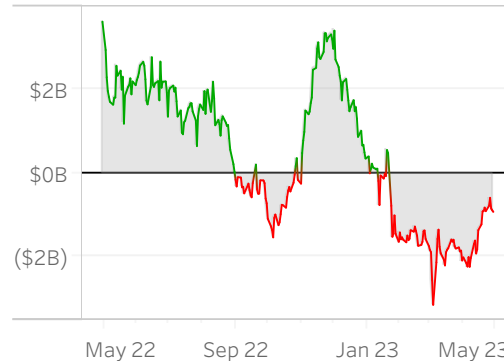
Financials



Industrial



Health Care



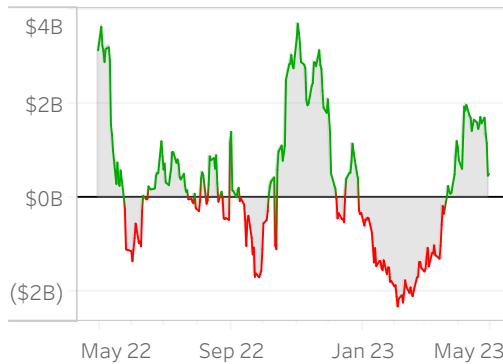
Materials



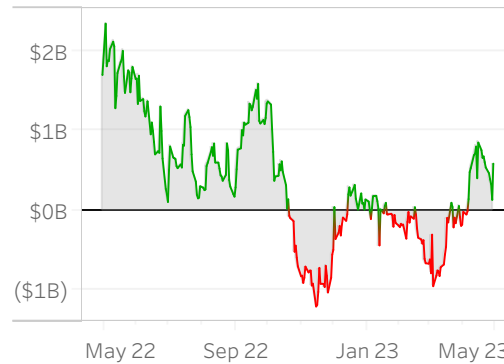
Real Estate



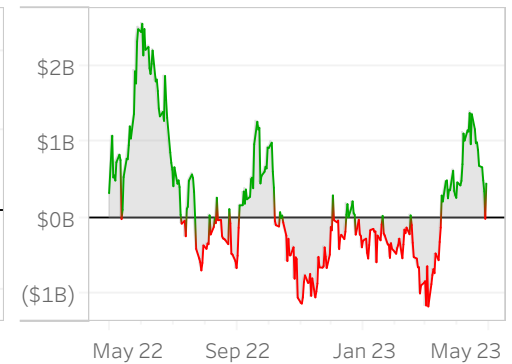
Technology



Utilities

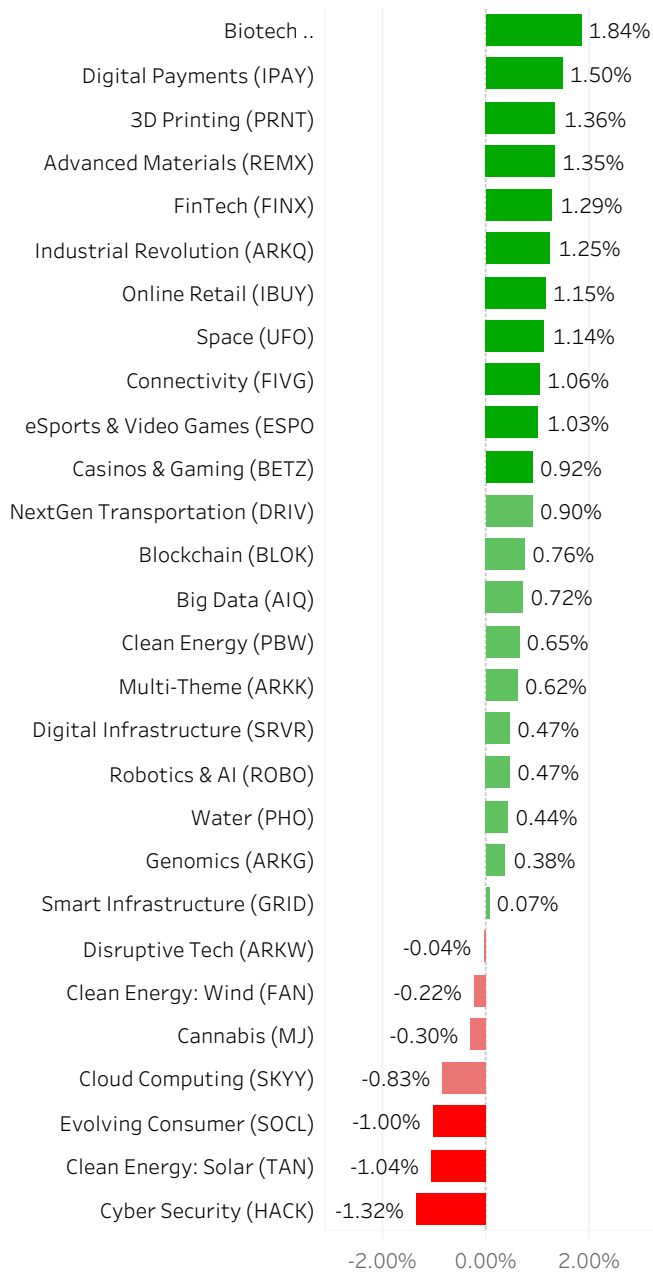


Multi-Sector

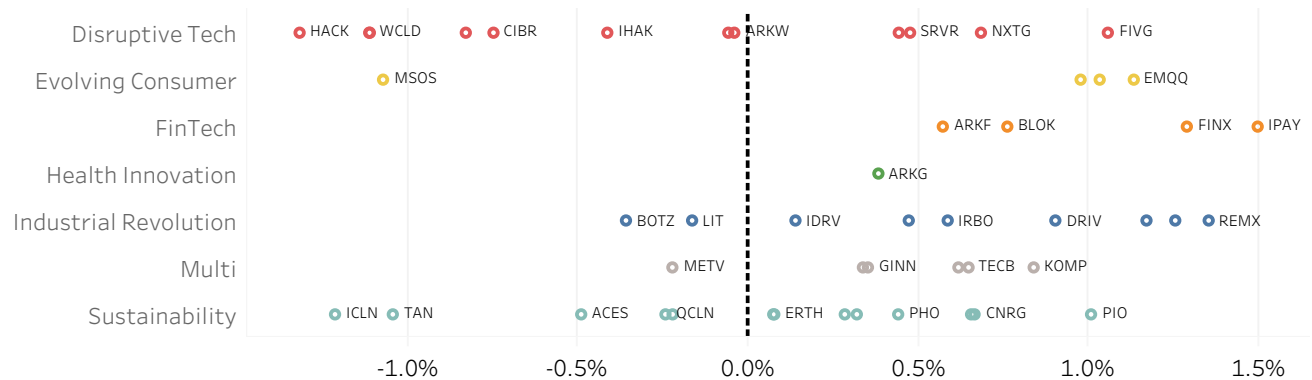


\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

### Global Thematic Segment 1-Day Performance



### Global Thematic 1-Day Performance Landscape



### Global Thematic 1-Day Performance Leaders

| Ticker | Fund   | 1-Day Performance |
|--------|--|-------------------|
| BJK    | VanEck Gaming ETF                                    | 2.44%             |
| EVX    | VanEck Environmental Services ETF                    | 2.29%             |
| SBIO   | ALPS Medical Breakthroughs ETF                       | 1.84%             |
| GNOM   | Global X Genomics & Biotechnology ETF                | 1.81%             |
| IPAY   | ETFMG Prime Mobile Payments ETFMG Prime Mobile Pay.. | 1.50%             |
| BTEC   | Principal Healthcare Innovators ETF                  | 1.37%             |
| PRNT   | 3D Printing ETF                                      | 1.36%             |
| REMX   | VanEck Rare Earth/Strategic Metals ETF               | 1.35%             |
| AWAY   | ETFMG Travel Tech ETF                                | 1.31%             |
| FINX   | Global X FinTech ETF                                 | 1.29%             |

### Thematic Most Overbought

| Ticker | Fund  | Price |
|--------|---|-------|
| AGNG   | Global X Aging Population ETF               | 66.54 |
| BJK    | VanEck Gaming ETF                           | 64.74 |
| BETZ   | Roundhill Sports Betting & iGaming ETF      | 63.33 |
| PAWZ   | ProShares Pet Care ETF                      | 61.01 |
| MILN   | Global X Millennial Consumer ETF            | 60.46 |
| SBIO   | ALPS Medical Breakthroughs ETF              | 59.97 |
| GBUY   | Goldman Sachs Future Consumer Equity ETF    | 57.95 |
| GDOC   | Goldman Sachs Future Health Care Equity ETF | 56.96 |
| KLDW   | Knowledge Leaders Developed World ETF       | 56.85 |
| PIO    | Invesco Global Water ETF                    | 56.70 |

### Global Thematic 1-Day Performance Laggards

| Ticker | Fund  | 1-Day Performance |
|--------|---|-------------------|
| HACK   | ETFMG Prime Cyber Security ETFMG Prime Cyber Secu.. | -1.32%            |
| CTEC   | Global X CleanTech ETF                              | -1.23%            |
| ICLN   | iShares Global Clean Energy ETF                     | -1.21%            |
| WCLD   | WisdomTree Cloud Computing Fund                     | -1.11%            |
| BUG    | Global X Cybersecurity ETF                          | -1.11%            |
| MSOS   | AdvisorShares Pure US Cannabis ETF                  | -1.07%            |
| TAN    | Invesco Solar ETF                                   | -1.04%            |
| SOCL   | Global X Social Media ETF                           | -1.00%            |
| SKYY   | First Trust Cloud Computing ETF                     | -0.83%            |
| CIBR   | First Trust NASDAQ Cybersecurity ETF                | -0.75%            |

### Thematic Most Oversold

| Ticker | Fund   | Price |
|--------|--|-------|
| QCLN   | First Trust Nasdaq Clean Edge Green Energy Index Fund  | 33.73 |
| BUG    | Global X Cybersecurity ETF                             | 33.91 |
| CIBR   | First Trust NASDAQ Cybersecurity ETF                   | 34.42 |
| SNSR   | Global X Internet of Things ETF                        | 34.77 |
| IHAK   | iShares Cybersecurity & Tech ETF                       | 34.97 |
| HACK   | ETFMG Prime Cyber Security ETFMG Prime Cyber Securit.. | 36.11 |
| IZRL   | ARK Israel Innovative Technology ETF                   | 37.48 |
| CTEC   | Global X CleanTech ETF                                 | 37.90 |
| ICLN   | iShares Global Clean Energy ETF                        | 38.63 |
| WCLD   | WisdomTree Cloud Computing Fund                        | 38.65 |

\* 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 |
|--------|---|------|
| GRID   | First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index | \$5M |
| TARK   | AXS 2X Innovation ETF   | \$5M |
| ROBT   | First Trust Nasdaq Artificial Intelligence & Robotics ETF     | \$4M |
| FIW    | First Trust Water ETF   | \$4M |
| BJK    | VanEck Gaming ETF   | \$3M |
| AIQ    | Global X Artificial Intelligence & Technology ETF             | \$2M |
| KSTR   | KraneShares SSE STAR Market 50 Index ETF                      | \$1M |
| WTAI   | WisdomTree Artificial Intelligence and Innovation Fund        | \$1M |
| TMAT   | Main Thematic Innovation ETF                                  | \$1M |
| GBUY   | Goldman Sachs Future Consumer Equity ETF                      | \$1M |

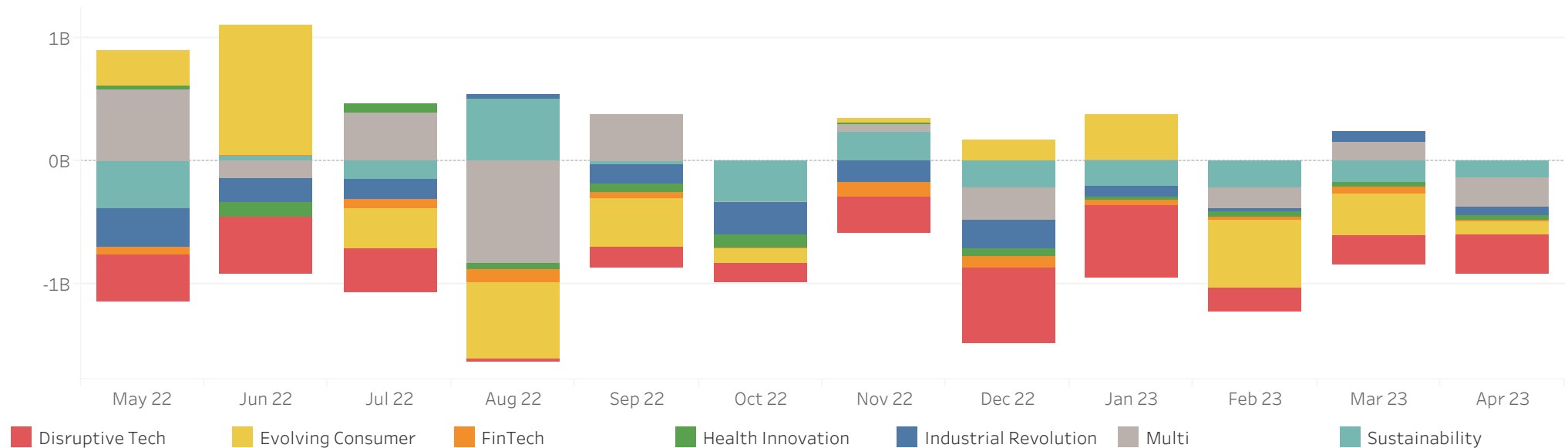
## Thematic 1 Week Flow Laggards

| Ticker | Fund                                  | Flow     |
|--------|---------------------------------------|----------|
| ARKK   | ARK Innovation ETF                    | (\$223M) |
| KWEB   | KraneShares CSI China Internet ETF    | (\$73M)  |
| CGW    | Invesco S&P Global Water Index ETF    | (\$52M)  |
| CIBR   | First Trust NASDAQ Cybersecurity ETF  | (\$50M)  |
| TAN    | Invesco Solar ETF                     | (\$41M)  |
| LIT    | Global X Lithium & Battery Tech ETF   | (\$37M)  |
| ARKG   | ARK Genomic Revolution ETF            | (\$29M)  |
| GNOM   | Global X Genomics & Biotechnology ETF | (\$14M)  |
| SKYY   | First Trust Cloud Computing ETF       | (\$13M)  |
| PBW    | Invesco WilderHill Clean Energy ETF   | (\$11M)  |

## Thematic Landscape Assets & Flows

| Segment               | Funds | AUM   | 1 Week   | 3 Month    | 6 Month    | 1 Year     |
|-----------------------|-------|-------|----------|------------|------------|------------|
| Disruptive Tech       | 34    | \$14B | (\$62M)  | (\$715M)   | (\$2,221M) | (\$3,774M) |
| Evolving Consumer     | 44    | \$8B  | (\$84M)  | (\$999M)   | (\$433M)   | (\$555M)   |
| FinTech               | 18    | \$3B  | (\$9M)   | (\$94M)    | (\$320M)   | (\$643M)   |
| Health Innovation     | 18    | \$3B  | (\$17M)  | (\$116M)   | (\$191M)   | (\$446M)   |
| Industrial Revolution | 31    | \$10B | (\$49M)  | (\$14M)    | (\$493M)   | (\$1,562M) |
| Multi                 | 41    | \$13B | (\$70M)  | (\$250M)   | (\$429M)   | (\$52M)    |
| Sustainability        | 40    | \$16B | (\$68M)  | (\$515M)   | (\$710M)   | (\$1,033M) |
| Grand Total           | 226   | \$68B | (\$359M) | (\$2,702M) | (\$4,797M) | (\$8,065M) |

## Thematic Monthly Flows

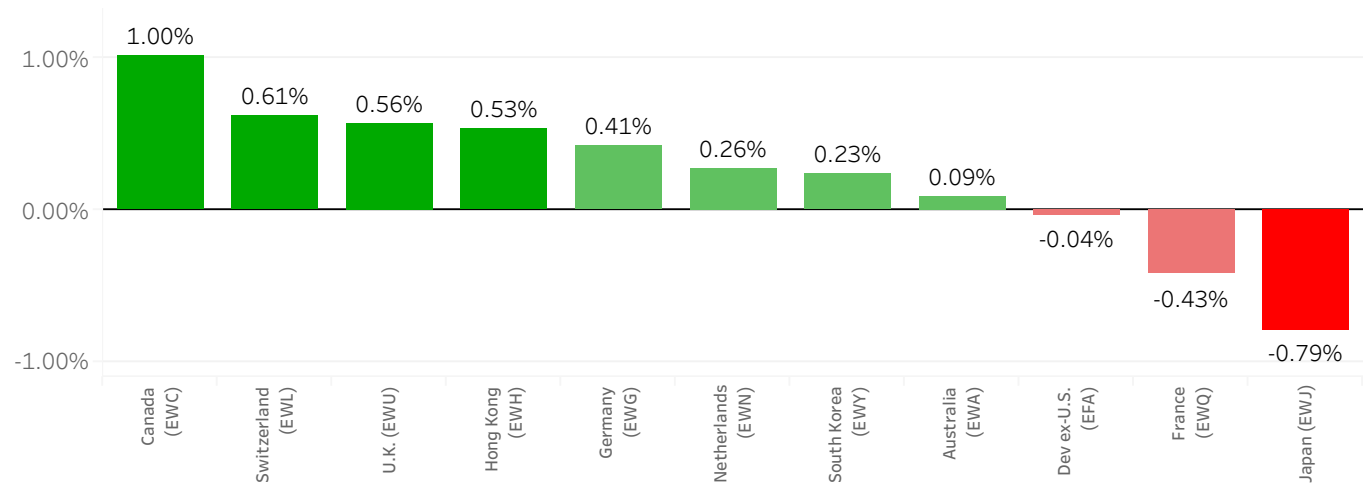


\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

Developed ex-U.S. (EFA)



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



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



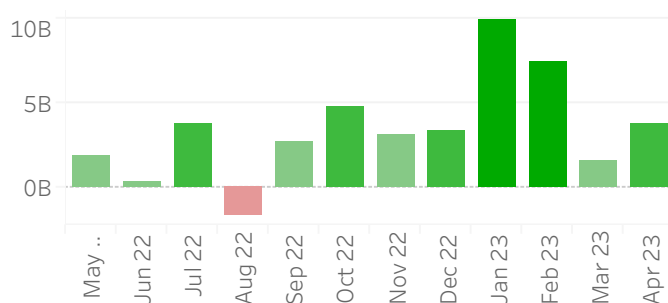
Developed ex-U.S. 1-Day Performance Leaders

| Ticker | Fund  | 1-Day Performance |
|--------|---|-------------------|
| ENZL   | iShares MSCI New Zealand ETF                    | 1.40%             |
| EWC    | iShares MSCI Canada ETF                         | 1.00%             |
| BBCA   | JPMorgan BetaBuilders Canada ETF                | 0.99%             |
| HEWJ   | iShares Currency Hedged MSCI Japan ETF          | 0.88%             |
| FLCA   | Franklin FTSE Canada ETF                        | 0.86%             |
| IEUS   | iShares MSCI Europe Small-Cap ETF               | 0.80%             |
| DBJP   | Xtrackers MSCI Japan Hedged Equity ETF          | 0.78%             |
| HSCZ   | iShares Currency Hedged MSCI EAFE Small-Cap ETF | 0.75%             |
| DXJ    | WisdomTree Japan Hedged Equity Fund             | 0.70%             |
| EIS    | iShares MSCI Israel ETF                         | 0.70%             |

Developed ex-U.S. Most Overbought

| Ticker | Fund   | Value |
|--------|--|-------|
| EWL    | iShares MSCI Switzerland ETF                                   | 70.32 |
| EFV    | iShares MSCI EAFE Min Vol Factor ETF                           | 69.90 |
| QLVD   | FlexShares Developed Markets ex-US Quality Low Volatility Fund | 69.18 |
| EUDG   | WisdomTree Europe Quality Dividend Growth Fund                 | 69.04 |
| FLSW   | Franklin FTSE Switzerland ETF                                  | 68.93 |
| HEWJ   | iShares Currency Hedged MSCI Japan ETF                         | 67.40 |
| FLGB   | Franklin FTSE United Kingdom ETF                               | 67.29 |
| IHDG   | WisdomTree International Hedged Quality Dividend Growth Fund   | 67.14 |
| IQDG   | WisdomTree International Quality Dividend Growth Fund          | 67.06 |
| IDLV   | Invesco S&P International Developed Low Volatility ETF         | 66.83 |

Developed ex-U.S. Monthly Flows



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

| Ticker | Fund  | 1-Day Performance |
|--------|---|-------------------|
| EWP    | iShares MSCI Spain ETF                                  | -1.28%            |
| GREK   | Global X MSCI Greece ETF                                | -1.14%            |
| JPXN   | iShares JPX-Nikkei 400 ETF                              | -0.80%            |
| EWJ    | iShares MSCI Japan ETF                                  | -0.79%            |
| EWJV   | iShares MSCI Japan Value ETF                            | -0.76%            |
| BBJP   | JPMorgan BetaBuilders Japan ETF                         | -0.76%            |
| FJP    | First Trust Japan AlphaDEX Fund                         | -0.75%            |
| FLJP   | Franklin FTSE Japan ETF                                 | -0.71%            |
| IMOM   | Alpha Architect International Quantitative Momentum ETF | -0.69%            |
| EWI    | iShares MSCI Italy ETF                                  | -0.66%            |

Developed ex-U.S. Most Oversold

| Ticker | Fund  | Value |
|--------|---|-------|
| MINV   | Matthews Asia Innovators Active ETF                     | 43.25 |
| AIA    | iShares Asia 50 ETF                                     | 43.67 |
| ISRA   | VanEck Israel ETF                                       | 46.37 |
| FLKR   | Franklin FTSE South Korea ETF                           | 47.45 |
| EWY    | iShares MSCI South Korea ETF                            | 48.02 |
| AAXJ   | iShares MSCI All Country Asia ex Japan ETF              | 48.06 |
| IVAL   | Alpha Architect International Quantitative Value ETF    | 49.15 |
| IMOM   | Alpha Architect International Quantitative Momentum ETF | 49.26 |
| GREK   | Global X MSCI Greece ETF                                | 50.16 |
| NORW   | Global X MSCI Norway ETF                                | 50.53 |

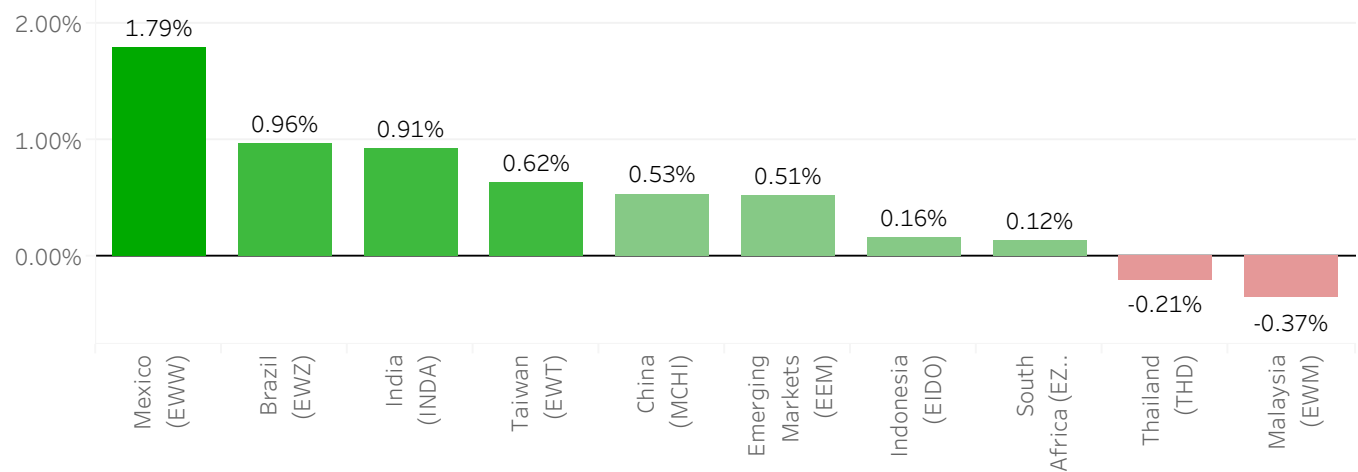
\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



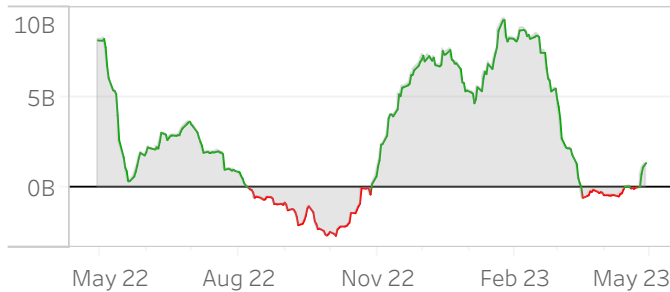
Emerging (EEM)



Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



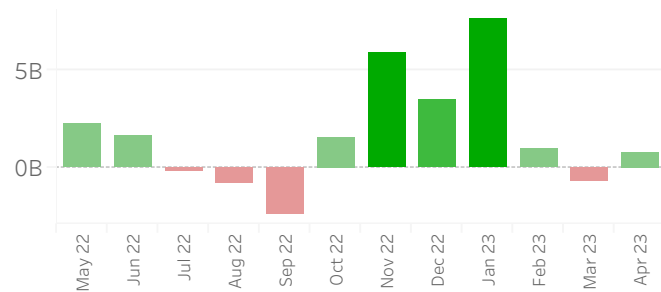
Emerging 1-Day Performance Leaders

| Ticker | Fund  | 1-Day Performance |
|--------|---|-------------------|
| EWZS   | iShares MSCI Brazil Small-Cap ETF           | 2.62%             |
| EWZ    | iShares MSCI Mexico ETF                     | 1.79%             |
| PGJ    | Invesco Golden Dragon China ETF             | 1.75%             |
| FLN    | First Trust Latin America AlphaDEX Fund     | 1.61%             |
| FLLA   | Franklin FTSE Latin America ETF             | 1.40%             |
| NFTY   | First Trust India NIFTY 50 Equal Weight ETF | 1.32%             |
| SMIN   | iShares MSCI India Small Cap ETF            | 1.30%             |
| ILF    | iShares Latin America 40 ETF                | 1.19%             |
| FLBR   | Franklin FTSE Brazil ETF                    | 1.07%             |
| PIN    | Invesco India ETF                           | 1.06%             |

Emerging Most Overbought

| Ticker | Fund  | Value |
|--------|---|-------|
| KSA    | iShares MSCI Saudi Arabia ETF               | 74.22 |
| FLIN   | Franklin FTSE India ETF                     | 72.43 |
| EPI    | WisdomTree India Earnings Fund              | 71.54 |
| INDA   | iShares MSCI India ETF                      | 71.27 |
| EIDO   | iShares MSCI Indonesia ETF                  | 71.10 |
| PIN    | Invesco India ETF                           | 70.51 |
| NFTY   | First Trust India NIFTY 50 Equal Weight ETF | 70.12 |
| INDY   | iShares India 50 ETF                        | 69.27 |
| SMIN   | iShares MSCI India Small Cap ETF            | 68.47 |
| EPOL   | iShares MSCI Poland ETF                     | 67.07 |

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

| Ticker | Fund   | 1-Day Performance |
|--------|--|-------------------|
| TUR    | iShares MSCI Turkey ETF                              | -3.58%            |
| EPOL   | iShares MSCI Poland ETF                              | -1.89%            |
| FEMS   | First Trust Emerging Markets Small Cap AlphaDEX Fund | -0.76%            |
| FRDM   | Freedom 100 Emerging Markets ETF                     | -0.40%            |
| EWM    | iShares MSCI Malaysia ETF                            | -0.37%            |
| ECH    | iShares MSCI Chile ETF                               | -0.28%            |
| THD    | iShares MSCI Thailand ETF                            | -0.21%            |
| RAYC   | Rayliant Quantamental China Equity ETF               | -0.06%            |
| PIE    | Invesco DWA Emerging Markets Momentum ETF            | 0.00%             |
| EZA    | iShares MSCI South Africa ETF                        | 0.12%             |

Emerging Most Oversold

| Ticker | Fund  | Value |
|--------|---|-------|
| TUR    | iShares MSCI Turkey ETF                             | 30.03 |
| EWM    | iShares MSCI Malaysia ETF                           | 39.33 |
| FEMS   | First Trust Emerging Markets Small Cap AlphaDEX F.. | 39.81 |
| THD    | iShares MSCI Thailand ETF                           | 41.24 |
| RAYC   | Rayliant Quantamental China Equity ETF              | 41.84 |
| PGJ    | Invesco Golden Dragon China ETF                     | 42.02 |
| ECNS   | iShares MSCI China Small-Cap ETF                    | 42.43 |
| CXSE   | WisdomTree China ex-State-Owned Enterprises Fund    | 42.80 |
| FLTW   | Franklin FTSE Taiwan ETF                            | 43.12 |
| KBA    | KraneShares Bosera MSCI China A 50 Connect Index .. | 43.87 |

\* 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                | 0.51%  | 1.30%   | 3.82% |
| SHY    | 1-3 Year Treasury Bonds       | 0.11%  | 0.34%   | 1.86% |
| IEF    | 7-10 Year Treasury Bonds      | 0.75%  | 1.35%   | 4.77% |
| TLT    | 20+ Year Treasury Bonds       | 1.61%  | 2.10%   | 7.74% |
| TIP    | TIPS Bonds                    | 0.12%  | 0.85%   | 3.63% |
| FLOT   | Floating Rate Bonds           | 0.00%  | 1.21%   | 1.88% |
| LQD    | Investment Grade Corporate    | 0.78%  | 2.12%   | 5.28% |
| HYG    | High Yield Corporate          | 0.43%  | 3.17%   | 3.94% |
| BKLN   | Senior Loan                   | -0.05% | 2.01%   | 4.34% |
| PFF    | Preferred & Income Securities | 0.61%  | 3.63%   | 4.54% |
| MUB    | Municipal Bonds               | 0.45%  | 0.31%   | 2.34% |
| MBB    | MBS                           | 0.49%  | 1.05%   | 3.11% |
| EMB    | Dollar Denominated EM Bonds   | 0.93%  | 2.10%   | 3.09% |
| LEMB   | Local Currency EM Bond        | 0.35%  | 1.26%   | 4.24% |

Commodities Performance

| Ticker | Name                    | 1 Day  | 1 Month | YTD     |
|--------|-------------------------|--------|---------|---------|
| DJP    | Broad Commodities       | 1.00%  | 0.29%   | -7.18%  |
| DBE    | Energy                  | 1.92%  | -0.34%  | -10.63% |
| USO    | WTI Crude Oil           | 2.57%  | 4.57%   | -3.72%  |
| BNO    | Brent Crude Oil         | 2.59%  | 3.26%   | -4.74%  |
| UNG    | Natural Gas             | 1.89%  | 2.64%   | -50.28% |
| UGA    | Gasoline                | 1.02%  | -3.81%  | -2.64%  |
| DBP    | Precious Metals         | 0.17%  | 2.33%   | 7.86%   |
| GLD    | Gold                    | 0.03%  | 0.74%   | 8.94%   |
| SLV    | Silver                  | 0.48%  | 7.33%   | 4.45%   |
| PPLT   | abrdn Physical Platin.. | -0.59% | 11.25%  | 0.13%   |
| PALL   | abrdn Physical Palla..  | 0.69%  | 5.63%   | -15.83% |
| DBB    | Base Metals             | 0.31%  | -4.53%  | -1.44%  |
| CPER   | Copper                  | 0.08%  | -4.10%  | 3.29%   |
| LD     | Lead                    | 1.99%  | 1.65%   | -6.38%  |
| JJN    | Nickel                  | 0.80%  | 1.21%   | -18.79% |
| JJU    | Aluminum                | 1.30%  | -1.00%  | -2.65%  |
| JJT    | Tin                     | 1.61%  | 1.83%   | 5.51%   |
| DBA    | Agriculture             | -0.14% | 3.51%   | 3.97%   |
| CORN   | Corn                    | -0.30% | -7.55%  | -13.18% |
| SOYB   | Soybeans                | 0.65%  | -2.10%  | -7.65%  |
| WEAT   | Wheat                   | 0.31%  | -10.39% | -20.05% |
| CANE   | Sugar                   | 0.00%  | 26.48%  | 45.33%  |
| BAL    | Cotton                  | 0.46%  | -1.92%  | -2.52%  |
| NIB    | Cocoa                   | 0.47%  | 4.69%   | 18.45%  |
| JO     | Coffee                  | -1.46% | 8.08%   | 13.70%  |

Currencies Performance

| Ticker | Name                   | 1 Day  | 1 Month | YTD    |
|--------|------------------------|--------|---------|--------|
| UUP    | Long Dollar            | 0.14%  | -0.32%  | -0.22% |
| UDN    | Short Dollar           | -0.11% | 0.96%   | 2.70%  |
| FXE    | Euro                   | -0.03% | 1.72%   | 3.29%  |
| FXB    | British Pound Sterling | 0.60%  | 1.94%   | 4.84%  |
| FXF    | Swiss Franc            | 0.03%  | 2.76%   | 3.27%  |
| FXJ    | Japanese Yen           | -1.73% | -4.02%  | -3.87% |
| FXC    | Canadian Dollar        | 0.33%  | 0.54%   | 0.59%  |
| FXA    | Australian Dollar      | -0.18% | -1.25%  | -2.59% |

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

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