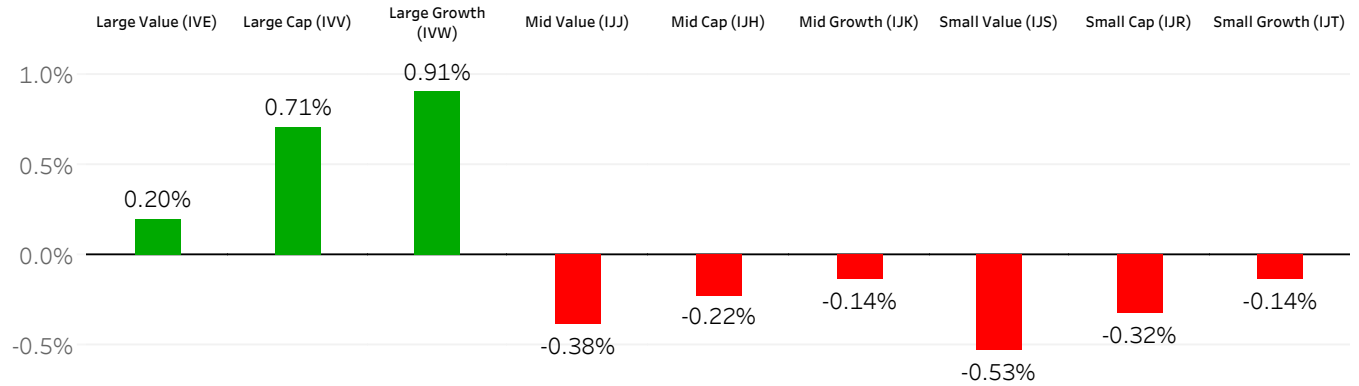


Large Cap Blend (S&P 500) IVV



U.S. Size & Style 1-Day Performance



Mid Cap Blend (S&P 400) IJH



Size & Style 1-Day Performance Leaders

| Ticker | Fund | Performance |
|--------|--|-------------|
| QQH | HCM Defender 100 Index ETF | 1.37% |
| WINN | Harbor Long-Term Growers ETF | 1.08% |
| LGH | HCM Defender 500 Index ETF | 1.03% |
| NULG | Nuveen ESG Large-Cap Growth ETF | 1.01% |
| VOOG | Vanguard S&P 500 Growth ETF | 0.98% |
| MGK | Vanguard Mega Cap Growth ETF | 0.98% |
| IPO | Renaissance IPO ETF | 0.98% |
| PWB | Invesco Large Cap Growth ETF | 0.97% |
| SUSL | iShares ESG MSCI USA Leaders ETF | 0.96% |
| DRUP | GraniteShares Nasdaq Select Disruptors ETF | 0.95% |

Size & Style Most Overbought

| Ticker | Fund | Price |
|--------|---|-------|
| COWZ | Pacer US Cash Cows 100 ETF | 75.25 |
| LSAT | Leadershares Alphafactor Tactical Focused ETF | 74.70 |
| MBOX | Freedom Day Dividend ETF | 71.63 |
| RDVY | First Trust Rising Dividend Achievers ETF | 71.10 |
| WTV | WisdomTree US Value Fund of Benef Interest | 70.91 |
| IWX | iShares Russell Top 200 Value ETF | 70.65 |
| TPHD | Timothy Plan High Dividend Stock ETF | 70.26 |
| PKW | Invesco Buyback Achievers ETF | 70.13 |
| AVLV | Avantis U.S. Large Cap Value ETF | 70.04 |
| LSAF | LeaderShares AlphaFactor US Core Equity ETF | 69.88 |

Small Cap Blend (S&P 600) IJR



Size & Style 1-Day Performance Laggards

| Ticker | Fund | Performance |
|--------|--|-------------|
| IWC | iShares Micro-Cap ETF | -1.16% |
| OMFS | Invesco Russell 2000 Dynamic Multifactor ETF | -0.93% |
| SMDV | ProShares Russell 2000 Dividend Growers ETF | -0.86% |
| DWAS | Invesco Dorsey Wright SmallCap Momentum ETF | -0.80% |
| VTWG | Vanguard Russell 2000 Growth ETF | -0.79% |
| FDM | First Trust Dow Jones Select MicroCap Index Fund | -0.75% |
| IWO | iShares Russell 2000 Growth ETF | -0.75% |
| XMLV | Invesco S&P MidCap Low Volatility ETF | -0.69% |
| SMLV | SPDR SSGA US Small Cap Low Volatility Index ETF | -0.69% |
| XMHQ | Invesco S&P MidCap Quality ETF | -0.67% |

Size & Style Most Oversold

| Ticker | Fund | Price |
|--------|---|-------|
| SMLV | SPDR SSGA US Small Cap Low Volatility Index ETF | 38.31 |
| FYT | First Trust Small Cap Value AlphaDEX Fund | 41.52 |
| OMFS | Invesco Russell 2000 Dynamic Multifactor ETF | 41.86 |
| SLYV | SPDR S&P 600 Small Cap Value ETF | 42.00 |
| XSLV | Invesco S&P SmallCap Low Volatility ETF | 42.02 |
| SMDV | ProShares Russell 2000 Dividend Growers ETF | 42.80 |
| RZV | Invesco S&P Smallcap 600 Pure Value ETF | 42.80 |
| SVAL | iShares US Small Cap Value Factor ETF | 43.60 |
| SPSM | SPDR Portfolio S&P 600 Small Cap ETF | 43.83 |
| FYX | First Trust Small Cap Core AlphaDEX Fund | 43.84 |

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

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

Large-Cap 30-Day Rolling Flows



Mid-Cap 30-Day Rolling Flows



Small-Cap 30-Day Rolling Flows



U.S. Size & Style Landscape Flows

| | Funds | AUM | 1 Week | 3 Month | 6 Month | 1 Year |
|-------------------------------|-------|----------|---------|-----------|-----------|-----------|
| Large Cap, Beta, Beta | 26 | \$1,830B | \$1.55B | \$46.65B | \$128.99B | \$198.04B |
| Large Cap, Beta, Beta: Growth | 10 | \$358B | \$3.46B | \$8.50B | \$20.17B | \$26.31B |
| Large Cap, Beta, Beta: Value | 11 | \$258B | \$0.90B | \$3.20B | \$8.55B | \$2.07B |
| Mid Cap, Beta, Beta | 10 | \$224B | \$0.71B | \$2.66B | \$2.34B | \$7.92B |
| Mid Cap, Beta, Beta: Growth | 6 | \$43B | \$0.25B | \$0.74B | \$1.60B | \$2.27B |
| Mid Cap, Beta, Beta: Value | 6 | \$41B | \$0.21B | (\$0.57B) | (\$1.22B) | (\$3.47B) |
| Small Cap, Beta, Beta | 11 | \$234B | \$1.09B | \$6.35B | \$15.14B | \$17.96B |
| Small Cap, Beta, Beta: Growth | 7 | \$40B | \$0.35B | \$1.58B | \$2.59B | \$2.86B |
| Small Cap, Beta, Beta: Value | 7 | \$54B | \$0.23B | (\$0.06B) | \$0.41B | (\$1.82B) |

U.S. Size & Style Flow Leaders

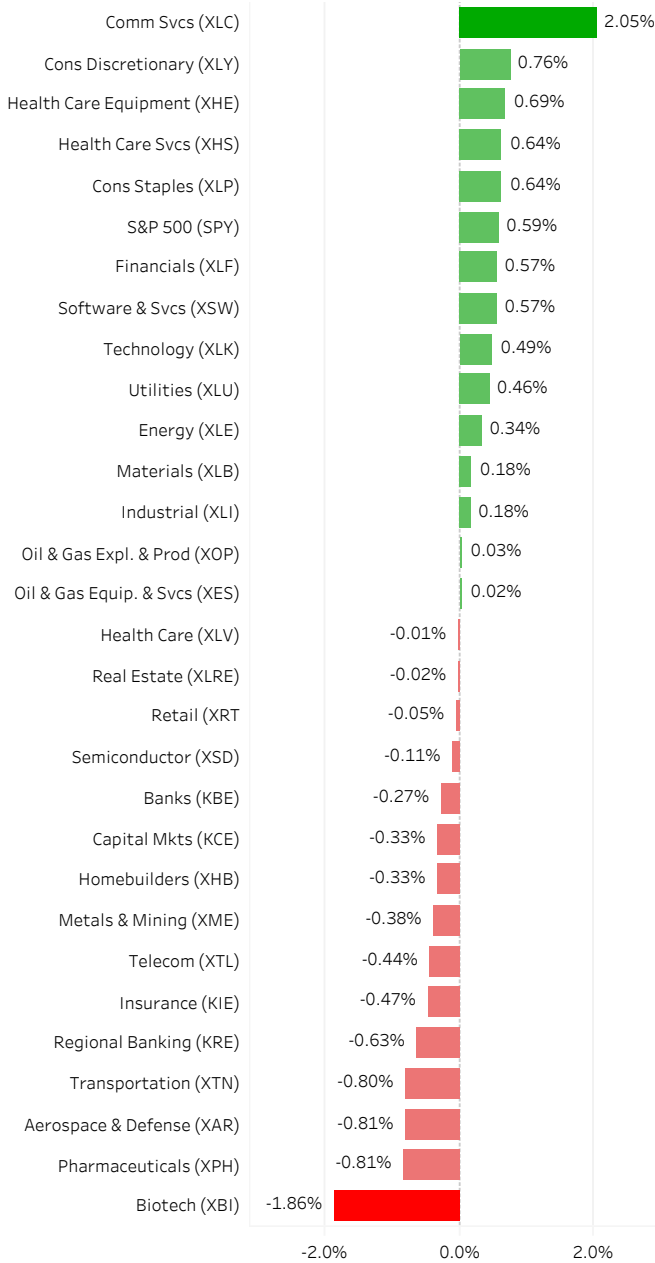
| Ticker | Fund | 1 Week | 3 Month | 6 Month | 1 Year | AUM |
|--------|---|---------|------------|----------|----------|-----------|
| SPY | SPDR S&P 500 ETF Trust | \$5.81B | (\$21.97B) | \$28.78B | \$35.50B | \$506.17B |
| IVW | iShares S&P 500 Growth ETF | \$4.46B | \$2.26B | \$2.10B | \$4.04B | \$42.74B |
| VOO | Vanguard S&P 500 ETF | \$3.08B | \$25.29B | \$36.86B | \$62.20B | \$424.79B |
| QUAL | iShares MSCI USA Quality Factor ETF | \$3.04B | \$1.74B | \$3.18B | \$13.03B | \$41.47B |
| DYNF | BlackRock U.S. Equity Factor Rotation ETF | \$2.26B | \$6.36B | \$6.37B | \$6.37B | \$6.58B |
| VIG | Vanguard Dividend Appreciation ETF | \$1.63B | \$1.32B | \$2.74B | \$0.57B | \$79.01B |
| VTI | Vanguard Total Stock Market ETF | \$1.59B | \$7.14B | \$16.06B | \$24.78B | \$380.27B |
| VB | Vanguard Small-Cap ETF | \$0.82B | \$3.65B | \$4.38B | \$4.63B | \$55.55B |
| DIA | SPDR Dow Jones Industrial Average ETF Trust | \$0.72B | \$0.41B | \$0.84B | \$0.65B | \$33.61B |
| VO | Vanguard Mid-Cap ETF | \$0.50B | \$1.11B | \$2.02B | \$2.34B | \$63.31B |

U.S. Size & Style Flow Laggards

| Ticker | Fund | 1 Week | 3 Month | 6 Month | 1 Year | AUM |
|--------|--------------------------------------|-----------|-----------|-----------|------------|-----------|
| ESGU | iShares ESG Aware MSCI USA ETF | (\$1.17B) | (\$1.82B) | (\$1.95B) | (\$10.08B) | \$12.43B |
| QQQ | Invesco QQQ Trust Series I | (\$1.11B) | \$8.88B | \$9.90B | \$18.25B | \$250.35B |
| VUG | Vanguard Growth ETF | (\$0.73B) | \$2.76B | \$5.47B | \$5.58B | \$117.07B |
| IWY | iShares Russell Top 200 Growth ETF | (\$0.64B) | \$0.72B | \$1.68B | \$1.60B | \$9.95B |
| SPLV | Invesco S&P 500 Low Volatility ETF | (\$0.47B) | (\$0.84B) | (\$1.51B) | (\$2.36B) | \$7.59B |
| SPLG | SPDR Portfolio S&P 500 ETF | (\$0.40B) | \$5.12B | \$8.78B | \$11.59B | \$32.57B |
| IWB | iShares Russell 1000 ETF | (\$0.30B) | (\$0.72B) | (\$0.62B) | (\$1.35B) | \$34.24B |
| QQQM | Invesco NASDAQ 100 ETF | (\$0.27B) | \$2.75B | \$4.61B | \$9.52B | \$22.06B |
| RPG | Invesco S&P 500 Pure Growth ETF | (\$0.23B) | (\$0.31B) | (\$0.42B) | (\$0.68B) | \$1.64B |
| JHMM | John Hancock Multifactor Mid Cap ETF | (\$0.14B) | (\$0.05B) | \$0.07B | \$0.29B | \$3.68B |

* 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) |
|--------|--|-----------------|----------------|--------------------|---------------------|-----------|
| XLC | Communication Services Select Sector SPDR Fund | 0.00% | 43.77% | 3.71% | 14.96% | 60.12 |
| XLI | Industrial Select Sector SPDR Fund | -0.56% | 26.38% | 4.14% | 11.89% | 63.50 |
| XLB | Materials Select Sector SPDR Fund | -0.66% | 21.73% | 6.43% | 10.21% | 70.37 |
| XLF | Financial Select Sector SPDR Fund | -0.70% | 29.95% | 4.04% | 14.35% | 67.32 |
| SPY | SPDR S&P 500 ETF Trust | -0.76% | 26.83% | 3.28% | 11.87% | 58.99 |
| XLV | Health Care Select Sector SPDR Fund | -2.06% | 17.61% | 0.96% | 7.52% | 48.06 |
| XLK | Technology Select Sector SPDR Fund | -2.24% | 43.29% | 1.81% | 13.35% | 51.09 |
| XLE | Energy Select Sector SPDR Fund | -2.38% | 19.00% | 7.43% | 6.56% | 73.01 |
| XLP | Consumer Staples Select Sector SPDR Fund | -2.63% | 13.95% | 2.30% | 4.65% | 59.80 |
| XLY | Consumer Discretionary Select Sector SPDR Fund | -3.24% | 24.72% | 0.78% | 5.18% | 47.85 |
| XLRE | Real Estate Select Sector SPDR Fund | -4.27% | 20.44% | -0.13% | 4.17% | 45.54 |
| XLU | Utilities Select Sector SPDR Fund | -9.63% | 12.53% | 2.11% | 0.58% | 55.69 |

Sector & Industry 1 Day Performance Leaders

| Ticker | Fund | 1 Day Performance |
|--------|--|-------------------|
| XLC | Communication Services Select Sector SPDR Fund | 2.05% |
| FCOM | Fidelity MSCI Communication Services Index ETF | 1.94% |
| VOX | Vanguard Communication Services ETF | 1.80% |
| FDN | First Trust Dow Jones Internet Index Fund | 1.37% |
| PNQI | Invesco NASDAQ Internet ETF | 1.18% |
| IGV | iShares Expanded Tech-Software Sector ETF | 1.14% |
| IGPT | Invesco AI and Next Gen Software ETF | 1.09% |
| IGM | iShares Expanded Tech Sector ETF | 1.09% |
| XNTK | SPDR NYSE Technology ETF | 0.90% |
| FTXG | First Trust Nasdaq Food & Beverage ETF | 0.87% |

Sector & Industry Most Overbought

| Ticker | Fund | RSI (14D) |
|--------|---|-----------|
| FTXN | First Trust Nasdaq Oil & Gas ETF | 78.58 |
| IEO | iShares U.S. Oil & Gas Exploration & Production ETF | 78.57 |
| RSPG | Invesco S&P 500 Equal Weight Energy ETF | 77.60 |
| VDE | Vanguard Energy ETF | 77.32 |
| IYE | iShares U.S. Energy ETF | 76.71 |
| FXN | First Trust Energy AlphaDEX Fund | 75.82 |
| FCG | First Trust Natural Gas ETF | 75.53 |
| IAK | iShares U.S. Insurance ETF | 75.38 |
| PXE | Invesco Energy Exploration & Production ETF | 75.16 |
| FXG | First Trust Consumer Staples AlphaDEX Fund | 74.33 |

Sector & Industry 1 Day Performance Laggards

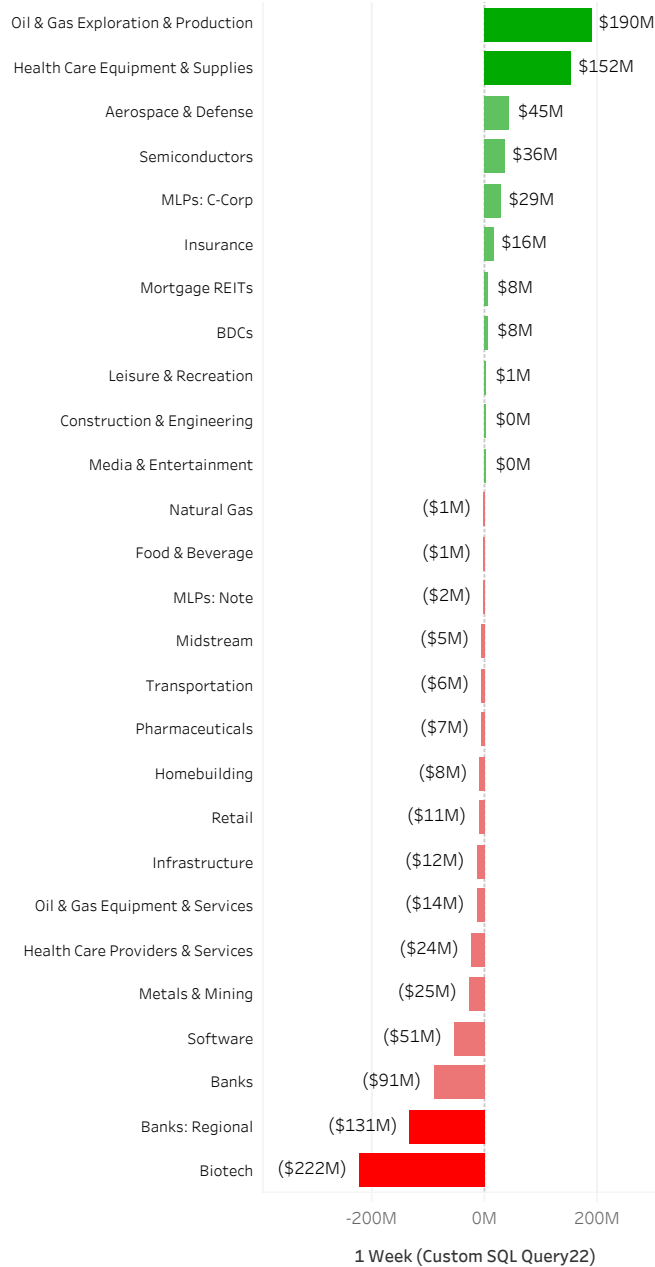
| Ticker | Fund | 1 Day Performance |
|--------|--|-------------------|
| XBI | SPDR S&P BIOTECH ETF | -1.86% |
| QABA | First Trust NASDAQ ABA Community Bank Index Fund | -1.10% |
| XPH | SPDR S&P Pharmaceuticals ETF | -0.81% |
| XAR | SPDR S&P Aerospace & Defense ETF | -0.81% |
| XTN | SPDR S&P Transportation ETF | -0.80% |
| PTH | Invesco Dorsey Wright Healthcare Momentum ETF | -0.75% |
| PSCI | Invesco S&P SmallCap Industrials ETF | -0.70% |
| KBWR | Invesco KBW Regional Banking ETF | -0.68% |
| KRE | SPDR S&P Regional Banking ETF | -0.63% |
| KBWD | Invesco KBW High Dividend Yield Financial ETF | -0.49% |

Sector & Industry Most Oversold

| Ticker | Fund | RSI (14D) |
|--------|--|-----------|
| XTL | SPDR S&P Telecom ETF | 32.50 |
| XPH | SPDR S&P Pharmaceuticals ETF | 35.62 |
| XTN | SPDR S&P Transportation ETF | 36.42 |
| QABA | First Trust NASDAQ ABA Community Bank Index Fund | 36.88 |
| PSCT | Invesco S&P SmallCap Information Technology ETF | 37.04 |
| KBWR | Invesco KBW Regional Banking ETF | 37.50 |
| PSCC | Invesco S&P SmallCap Consumer Staples ETF | 37.64 |
| KBWD | Invesco KBW High Dividend Yield Financial ETF | 39.55 |
| KRE | SPDR S&P Regional Banking ETF | 40.09 |
| KBWY | Invesco KBW Premium Yield Equity REIT ETF | 40.18 |

* 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 | \$23B | (\$42M) | \$13M | \$1,007M | \$3,862M |
| Consumer Discretionary | 12 | \$29B | (\$414M) | (\$88M) | (\$347M) | \$2,970M |
| Consumer Staples | 10 | \$26B | \$34M | (\$1,393M) | (\$3,870M) | (\$4,043M) |
| Energy | 30 | \$75B | \$119M | (\$2,036M) | (\$1,054M) | (\$6,369M) |
| Financials | 26 | \$64B | (\$666M) | (\$1,067M) | (\$2,202M) | (\$4,735M) |
| Health Care | 23 | \$93B | (\$434M) | \$53M | (\$3,700M) | (\$6,336M) |
| Industrial | 13 | \$40B | \$340M | \$764M | \$618M | \$1,609M |
| Materials | 9 | \$12B | \$152M | (\$96M) | (\$1,463M) | (\$3,263M) |
| Multi-Sector | 16 | \$23B | (\$62M) | \$939M | \$341M | \$3,082M |
| Real Estate | 25 | \$60B | \$207M | \$1,568M | \$3,219M | \$1,969M |
| Technology | 23 | \$193B | \$528M | \$4,350M | \$9,536M | \$11,388M |
| Utilities | 9 | \$20B | (\$172M) | (\$2,182M) | (\$3,284M) | (\$3,597M) |

U.S. Sector & Industry Flow Leaders

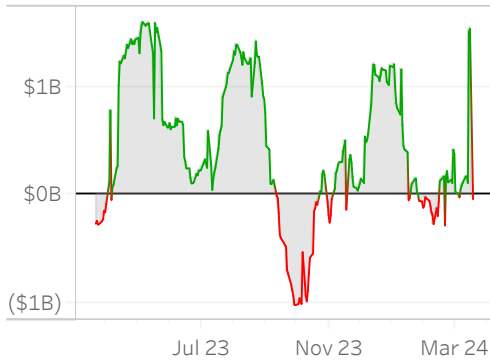
| Ticker | Fund | 1 Week | 3 Month | 6 Month | 1 Year | AUM |
|--------|---|--------|----------|----------|----------|-----------|
| IYW | iShares U.S. Technology ETF | \$301M | \$784M | \$2,187M | \$1,598M | \$16,001M |
| XLI | Industrial Select Sector SPDR Fund | \$256M | \$42M | (\$126M) | \$650M | \$17,246M |
| XLB | Materials Select Sector SPDR Fund | \$194M | \$218M | (\$483M) | (\$584M) | \$5,632M |
| XOP | SPDR S&P Oil & Gas Exploration & Production E.. | \$185M | \$289M | \$297M | \$101M | \$4,029M |
| IHI | iShares U.S. Medical Devices ETF | \$152M | (\$118M) | (\$376M) | (\$708M) | \$5,608M |
| IYR | iShares U.S. Real Estate ETF | \$125M | (\$37M) | \$1,308M | \$717M | \$4,183M |
| XLRE | Real Estate Select Sector SPDR Fund | \$112M | \$555M | \$1,231M | \$1,136M | \$6,023M |
| VGT | Vanguard Information Technology ETF | \$107M | \$1,359M | \$2,389M | \$1,401M | \$64,605M |
| IYK | iShares U.S. Consumer Staples ETF | \$46M | (\$43M) | (\$271M) | (\$407M) | \$1,319M |
| ITB | iShares U.S. Home Construction ETF | \$37M | \$459M | \$277M | \$620M | \$3,082M |

U.S. Sector & Industry Flow Laggards

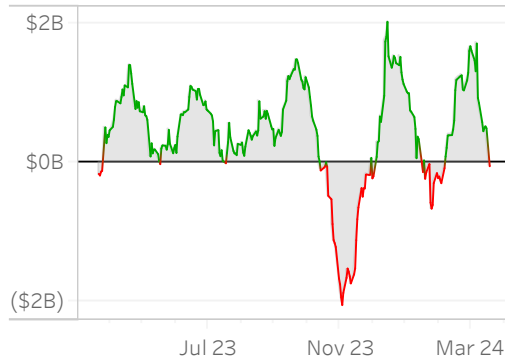
| Ticker | Fund | 1 Week | 3 Month | 6 Month | 1 Year | AUM |
|--------|--|----------|------------|------------|------------|-----------|
| XLF | Financial Select Sector SPDR Fund | (\$475M) | \$512M | (\$908M) | (\$884M) | \$36,823M |
| XLY | Consumer Discretionary Select Sector SPDR Fu.. | (\$428M) | (\$194M) | (\$330M) | \$1,916M | \$19,169M |
| XLV | Health Care Select Sector SPDR Fund | (\$304M) | \$132M | (\$2,246M) | (\$2,622M) | \$40,800M |
| XBI | SPDR S&P BIOTECH ETF | (\$203M) | (\$346M) | \$88M | (\$469M) | \$7,390M |
| XLU | Utilities Select Sector SPDR Fund | (\$185M) | (\$2,062M) | (\$2,415M) | (\$2,350M) | \$12,121M |
| KRE | SPDR S&P Regional Banking ETF | (\$129M) | (\$930M) | (\$535M) | (\$1,417M) | \$2,697M |
| KBE | SPDR S&P Bank ETF | (\$103M) | (\$224M) | \$224M | (\$29M) | \$1,600M |
| IGV | iShares Expanded Tech-Software Sector ETF | (\$60M) | (\$478M) | (\$537M) | (\$245M) | \$7,228M |
| XLE | Energy Select Sector SPDR Fund | (\$56M) | (\$2,006M) | (\$875M) | (\$3,524M) | \$37,807M |
| XLC | Communication Services Select Sector SPDR Fu.. | (\$52M) | (\$91M) | \$1,001M | \$3,467M | \$17,429M |

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

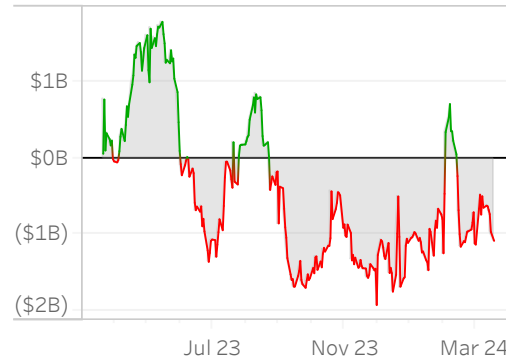
Communication Services



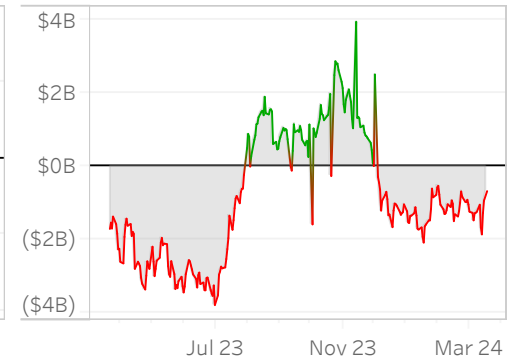
Consumer Discretionary



Consumer Staples



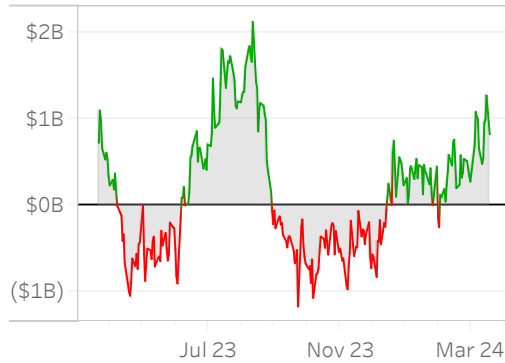
Energy



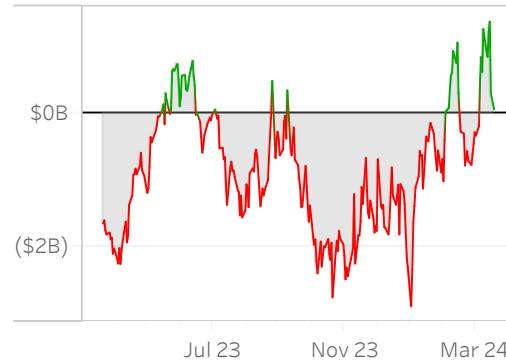
Financials



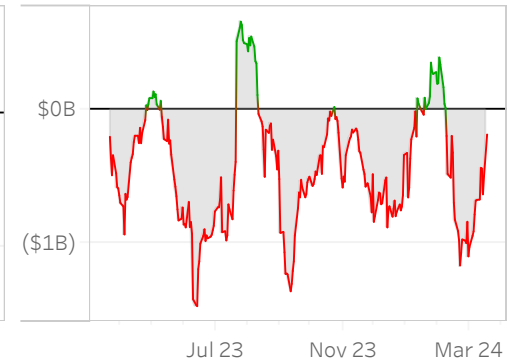
Industrial



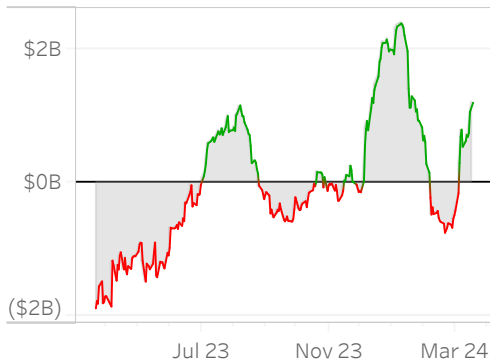
Health Care



Materials



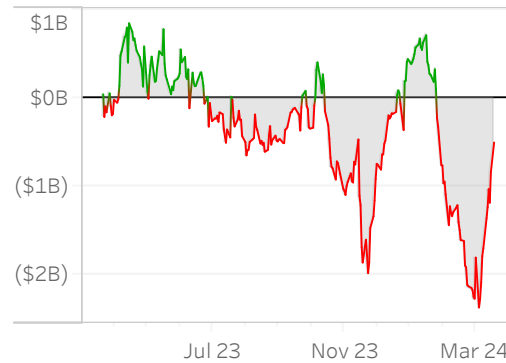
Real Estate



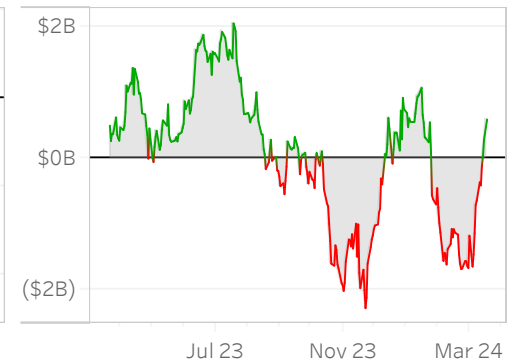
Technology



Utilities



Multi-Sector

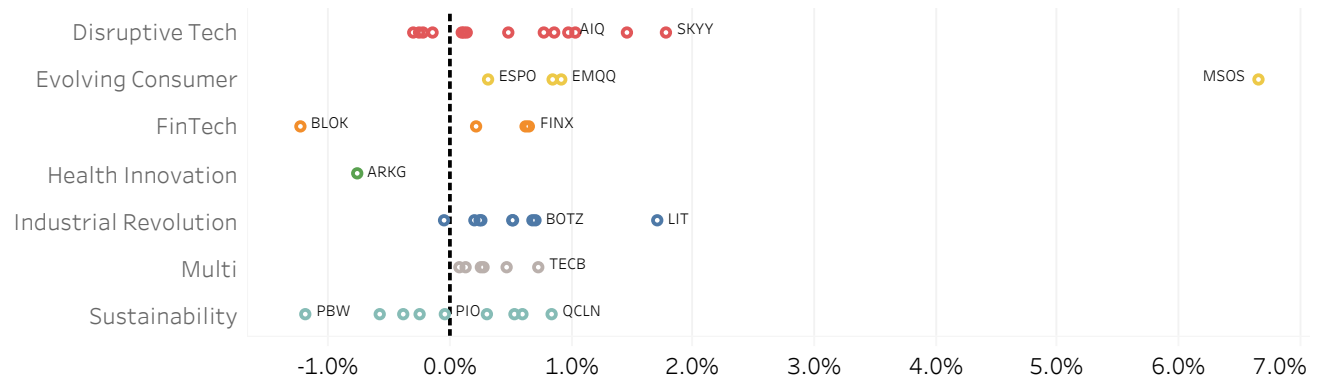


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

| Ticker | Fund | Performance |
|--------|---|-------------|
| MJUS | Amplify U.S. Alternative Harvest ETF | 7.14% |
| MSOS | AdvisorShares Pure US Cannabis ETF | 6.65% |
| MJ | Amplify Alternative Harvest ETF Alternative Harvest ETF | 6.45% |
| KARS | KraneShares Electric Vehicles & Future Mobility Index ETF | 1.95% |
| SKYY | First Trust Cloud Computing ETF | 1.77% |
| LIT | Global X Lithium & Battery Tech ETF | 1.70% |
| IZRL | ARK Israel Innovative Technology ETF | 1.54% |
| WCLD | WisdomTree Cloud Computing Fund | 1.45% |
| SPRX | Spear Alpha ETF | 1.39% |
| SOCL | Global X Social Media ETF | 1.36% |

Thematic Most Overbought

| Ticker | Fund | Price |
|--------|--|-------|
| EVX | VanEck Environmental Services ETF | 68.41 |
| GRID | First Trust Nasdaq Clean Edge Smart GRID Infrastructure .. | 67.68 |
| EBIZ | Global X E-Commerce ETF | 66.55 |
| IPAY | Amplify Mobile Payments ETF Mobile Payments ETF | 64.20 |
| ONLN | ProShares Online Retail ETF | 63.93 |
| KLDW | Knowledge Leaders Developed World ETF | 62.31 |
| GBUY | Goldman Sachs Future Consumer Equity ETF | 61.94 |
| PIO | Invesco Global Water ETF | 61.28 |
| KGRN | KraneShares MSCI China Clean Technology Index ETF | 61.21 |
| IBUY | Amplify Online Retail ETF | 61.02 |

Global Thematic 1-Day Performance Laggards

| Ticker | Fund | Performance |
|--------|---|-------------|
| CRPT | First Trust SkyBridge Crypto Industry & Digital Econo.. | -4.83% |
| BITQ | Bitwise Crypto Industry Innovators ETF | -3.37% |
| DAPP | VanEck Digital Transformation ETF | -3.06% |
| SBIO | ALPS Medical Breakthroughs ETF | -2.46% |
| BLCN | Siren ETF Trust Siren Nasdaq NexGen Economy ETF | -1.63% |
| BLOK | Amplify Transformational Data Sharing ETF | -1.24% |
| PBW | Invesco WilderHill Clean Energy ETF | -1.20% |
| GNOM | Global X Genomics & Biotechnology ETF | -1.05% |
| IDNA | iShares Genomics Immunology and Healthcare ETF | -1.04% |
| ARKG | ARK Genomic Revolution ETF | -0.77% |

Thematic Most Oversold

| Ticker | Fund | Price |
|--------|---|-------|
| PAWZ | ProShares Pet Care ETF | 31.84 |
| PBW | Invesco WilderHill Clean Energy ETF | 32.39 |
| ACES | ALPS Clean Energy ETF | 36.76 |
| ARKG | ARK Genomic Revolution ETF | 37.11 |
| QCLN | First Trust Nasdaq Clean Edge Green Energy Index Fund | 37.99 |
| CNRG | SPDR S&P Kensho Clean Power ETF | 38.10 |
| ICLN | iShares Global Clean Energy ETF | 39.44 |
| SBIO | ALPS Medical Breakthroughs ETF | 42.36 |
| ERTH | Invesco MSCI Sustainable Future ETF | 42.52 |
| ARKQ | ARK Autonomous Technology & Robotics ETF | 42.60 |

* 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 |
|--------|---|-------|
| AIQ | Global X Artificial Intelligence & Technology ETF | \$43M |
| BOTZ | Global X Robotics & Artificial Intelligence ETF | \$33M |
| GRID | First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index | \$17M |
| ROBT | First Trust Nasdaq Artificial Intelligence & Robotics ETF | \$12M |
| GNOM | Global X Genomics & Biotechnology ETF | \$7M |
| IRBO | iShares Robotics and Artificial Intelligence Multisector ETF | \$7M |
| ARKQ | ARK Autonomous Technology & Robotics ETF | \$5M |
| BLOK | Amplify Transformational Data Sharing ETF | \$5M |
| CNCR | Range Cancer Therapeutics ETF | \$5M |
| PBW | Invesco WilderHill Clean Energy ETF | \$4M |

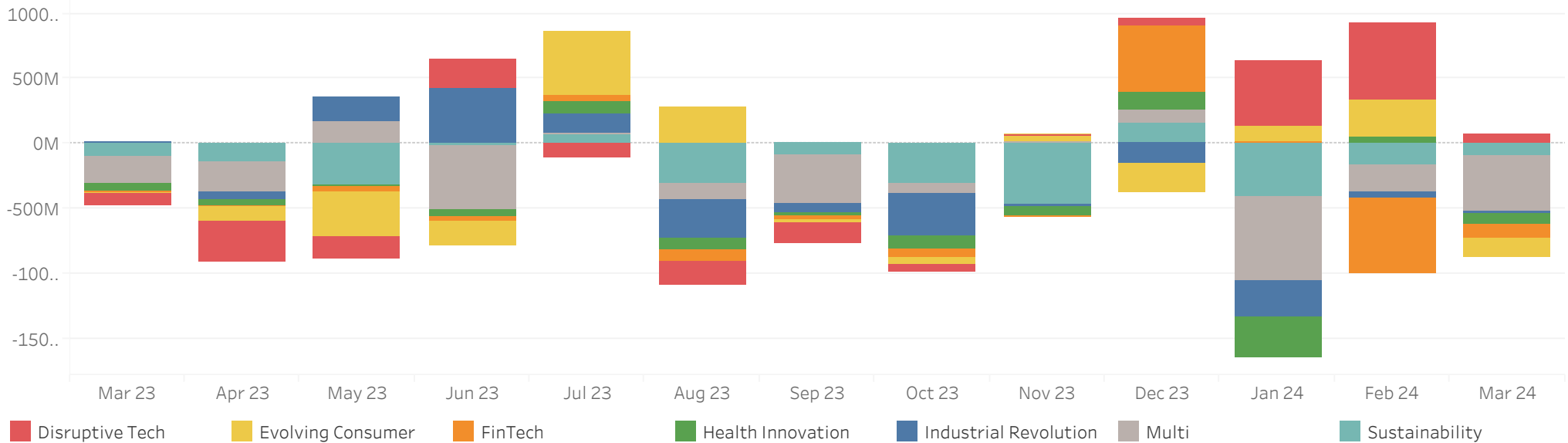
Thematic 1 Week Flow Laggards

| Ticker | Fund | Flow |
|--------|---|----------|
| ARKK | ARK Innovation ETF | (\$317M) |
| CIBR | First Trust NASDAQ Cybersecurity ETF | (\$62M) |
| KWEB | KraneShares CSI China Internet ETF | (\$48M) |
| LIT | Global X Lithium & Battery Tech ETF | (\$31M) |
| ARKG | ARK Genomic Revolution ETF | (\$18M) |
| QCLN | First Trust Nasdaq Clean Edge Green Energy Index Fund | (\$17M) |
| ROBO | ROBO Global Robotics & Automation Index ETF | (\$13M) |
| ARKW | ARK Next Generation Internet ETF | (\$12M) |
| WCLD | WisdomTree Cloud Computing Fund | (\$11M) |
| TAN | Invesco Solar ETF | (\$11M) |

Thematic Landscape Assets & Flows

| Segment | Funds | AUM | 1 Week | 3 Month | 6 Month | 1 Year |
|-----------------------|------------|--------------|-----------------|-------------------|-------------------|-------------------|
| Disruptive Tech | 33 | \$21B | (\$47M) | \$1,157M | \$1,073M | \$375M |
| Evolving Consumer | 34 | \$9B | (\$28M) | \$157M | \$20M | \$155M |
| FinTech | 17 | \$3B | (\$3M) | (\$453M) | (\$232M) | (\$436M) |
| Health Innovation | 17 | \$2B | (\$14M) | (\$135M) | (\$323M) | (\$553M) |
| Industrial Revolution | 30 | \$10B | (\$13M) | (\$396M) | (\$894M) | (\$505M) |
| Multi | 33 | \$15B | (\$271M) | (\$1,314M) | (\$1,382M) | (\$2,482M) |
| Sustainability | 39 | \$12B | (\$16M) | (\$608M) | (\$1,335M) | (\$2,189M) |
| Grand Total | 203 | \$72B | (\$393M) | (\$1,592M) | (\$3,073M) | (\$5,634M) |

Thematic Monthly Flows

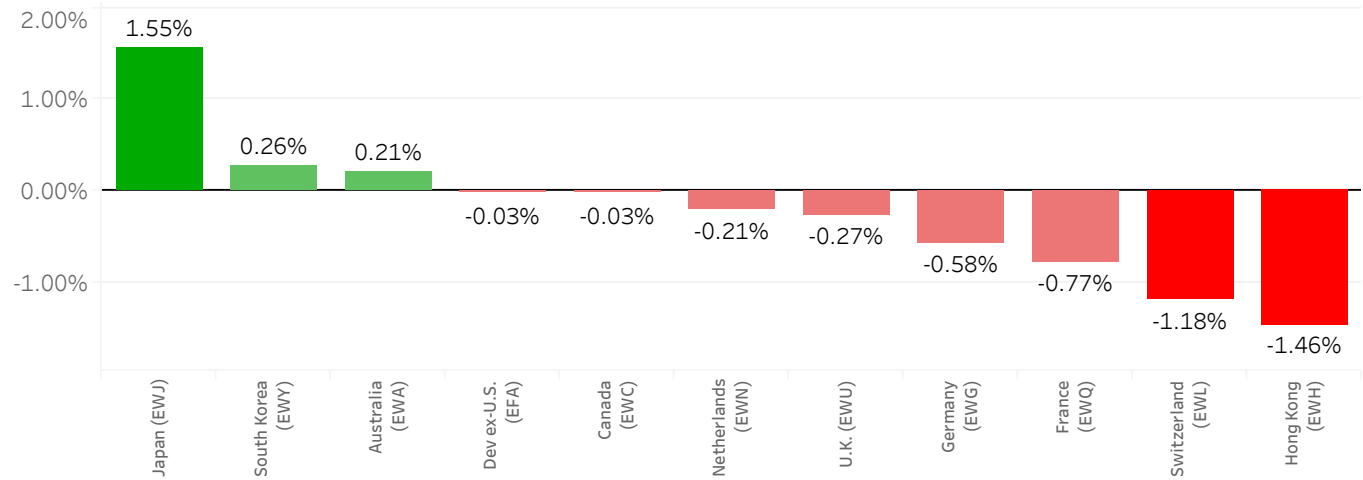


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

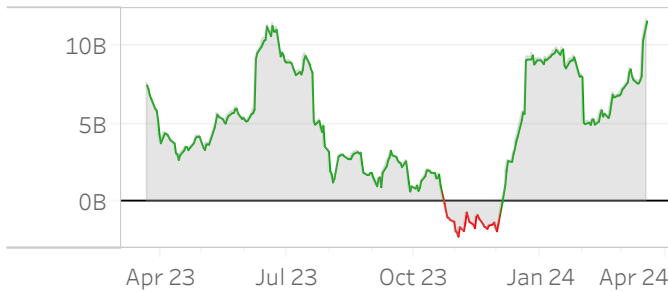
Developed ex-U.S. (EFA)



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



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



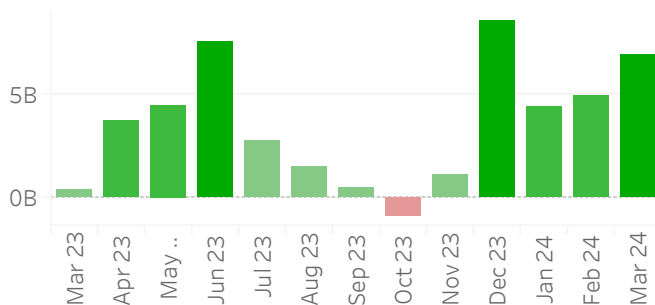
Developed ex-U.S. 1-Day Performance Leaders

| Ticker | Fund | 1-Day Performance |
|--------|--|-------------------|
| EIS | iShares MSCI Israel ETF | 2.29% |
| DBJP | Xtrackers MSCI Japan Hedged Equity ETF | 1.95% |
| ISRA | VanEck Israel ETF | 1.91% |
| HEWJ | iShares Currency Hedged MSCI Japan ETF | 1.74% |
| EWJ | iShares MSCI Japan ETF | 1.55% |
| JPXN | iShares JPX-Nikkei 400 ETF | 1.55% |
| DXJ | WisdomTree Japan Hedged Equity Fund | 1.51% |
| BBJP | JPMorgan BetaBuilders Japan ETF | 1.49% |
| FLJP | Franklin FTSE Japan ETF | 1.39% |
| EWJV | iShares MSCI Japan Value ETF | 1.08% |

Developed ex-U.S. Most Overbought

| Ticker | Fund | Value |
|--------|---|-------|
| EWI | iShares MSCI Italy ETF | 71.97 |
| IDMO | Invesco S&P International Developed Momentum ETF | 69.31 |
| FDT | First Trust Developed Markets ex-US AlphaDEX Fund | 69.27 |
| DFIV | Dimensional International Value ETF | 69.20 |
| IMTM | iShares MSCI Intl Momentum Factor ETF | 69.01 |
| HEFA | iShares Currency Hedged MSCI EAFE ETF | 68.62 |
| DISV | Dimensional International Small Cap Value ETF | 68.14 |
| DBEF | Xtrackers MSCI EAFE Hedged Equity ETF | 68.12 |
| EIRL | iShares MSCI Ireland ETF | 67.94 |
| HEZU | iShares Currency Hedged MSCI Eurozone ETF | 67.03 |

Developed ex-U.S. Monthly Flows



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

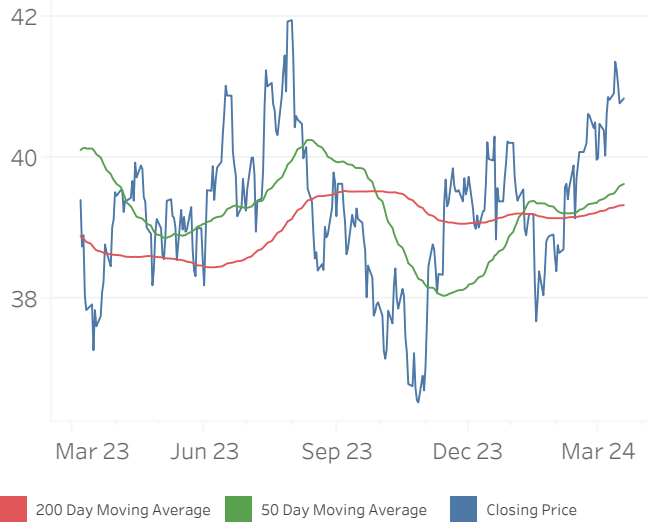
| Ticker | Fund | 1-Day Performance |
|--------|--|-------------------|
| EWD | iShares MSCI Sweden ETF | -1.98% |
| EWH | iShares MSCI Hong Kong ETF | -1.46% |
| EWL | iShares MSCI Switzerland ETF | -1.18% |
| FSZ | First Trust Switzerland AlphaDEX Fund | -1.16% |
| EWQ | iShares MSCI France ETF | -0.77% |
| FKU | First Trust United Kingdom AlphaDEX Fund | -0.71% |
| EUDG | WisdomTree Europe Quality Dividend Growth Fund | -0.71% |
| FEP | First Trust Europe AlphaDEX Fund | -0.70% |
| BBEU | JPMorgan BetaBuilders Europe ETF | -0.59% |
| VGK | Vanguard FTSE Europe ETF | -0.58% |

Developed ex-U.S. Most Oversold

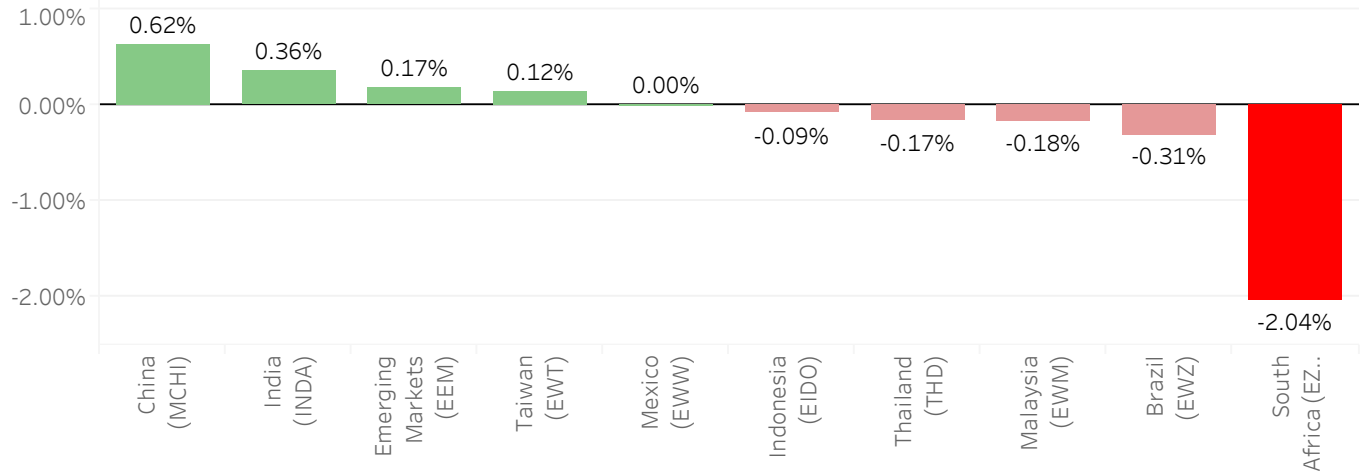
| Ticker | Fund | Value |
|--------|---|-------|
| ENZL | iShares MSCI New Zealand ETF | 41.99 |
| EWH | iShares MSCI Hong Kong ETF | 45.71 |
| IDLV | Invesco S&P International Developed Low Volatility .. | 47.19 |
| BBAX | JPMorgan BetaBuilders Developed Asia Pacific-ex Ja.. | 48.53 |
| ISRA | VanEck Israel ETF | 49.99 |
| EPP | iShares MSCI Pacific ex-Japan ETF | 50.13 |
| IDOG | ALPS International Sector Dividend Dogs ETF | 50.47 |
| GREK | Global X MSCI Greece ETF | 50.58 |
| EWA | iShares MSCI Australia ETF | 50.65 |
| FIDI | Fidelity International High Dividend ETF | 51.22 |

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

Emerging (EEM)



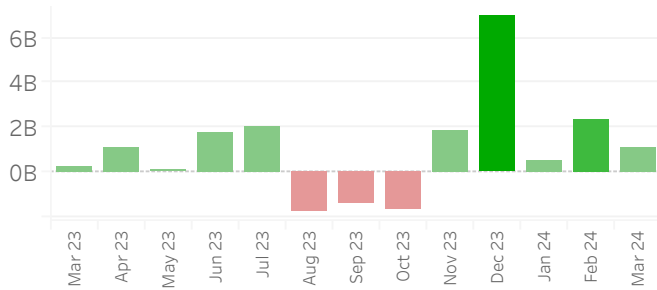
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

| Ticker | Fund | Performance |
|--------|---|-------------|
| ECNS | iShares MSCI China Small-Cap ETF | 1.03% |
| CXSE | WisdomTree China ex-State-Owned Enterprises Fund | 0.89% |
| CNYA | iShares MSCI China A ETF | 0.86% |
| KBA | KraneShares Boser MSCI China A 50 Connect Index ETF | 0.79% |
| EPHE | iShares MSCI Philippines ETF | 0.77% |
| ASHR | Xtrackers Harvest CSI 300 China A-Shares ETF | 0.73% |
| GXC | SPDR S&P China ETF | 0.72% |
| PIE | Invesco Dorsey Wright Emerging Markets Momentum E.. | 0.67% |
| QAT | iShares MSCI Qatar ETF | 0.66% |
| MCHI | iShares MSCI China ETF | 0.62% |

Emerging Most Overbought

| Ticker | Fund | Value |
|--------|---|-------|
| EPU | iShares MSCI Peru and Global Exposure ETF | 80.98 |
| FM | iShares Frontier and Select EM ETF | 71.83 |
| KBA | KraneShares Boser MSCI China A 50 Connect Index E.. | 68.15 |
| CNYA | iShares MSCI China A ETF | 65.60 |
| ASHR | Xtrackers Harvest CSI 300 China A-Shares ETF | 64.76 |
| EWM | iShares MSCI Malaysia ETF | 64.60 |
| DGS | WisdomTree Emerging Markets SmallCap Dividend F.. | 63.15 |
| FLTW | Franklin FTSE Taiwan ETF | 63.07 |
| ECNS | iShares MSCI China Small-Cap ETF | 61.88 |
| ARGT | Global X MSCI Argentina ETF | 61.20 |

Emerging 1-Day Performance Laggards

| Ticker | Fund | Performance |
|--------|---|-------------|
| EZA | iShares MSCI South Africa ETF | -2.04% |
| TUR | iShares MSCI Turkey ETF | -1.48% |
| ECH | iShares MSCI Chile ETF | -1.10% |
| EPOL | iShares MSCI Poland ETF | -0.87% |
| EELV | Invesco S&P Emerging Markets Low Volatility ETF | -0.76% |
| FLN | First Trust Latin America AlphaDEX Fund | -0.68% |
| PGJ | Invesco Golden Dragon China ETF | -0.67% |
| EPU | iShares MSCI Peru and Global Exposure ETF | -0.56% |
| EWZS | iShares MSCI Brazil Small-Cap ETF | -0.49% |
| FLLA | Franklin FTSE Latin America ETF | -0.47% |

Emerging Most Oversold

| Ticker | Fund | Value |
|--------|----------------------------------|-------|
| TUR | iShares MSCI Turkey ETF | 32.40 |
| SMIN | iShares MSCI India Small Cap ETF | 36.43 |
| EWZ | iShares MSCI Brazil ETF | 39.24 |
| FLBR | Franklin FTSE Brazil ETF | 39.94 |
| EPI | WisdomTree India Earnings Fund | 40.59 |
| GLIN | VanEck India Growth Leaders ETF | 41.48 |
| EZA | iShares MSCI South Africa ETF | 42.01 |
| FLLA | Franklin FTSE Latin America ETF | 42.78 |
| PIN | Invesco India ETF | 43.90 |
| INDA | iShares MSCI India ETF | 45.44 |

* 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 | -0.10% | 0.19% | -1.69% |
| SHY | 1-3 Year Treasury Bonds | 0.01% | 0.10% | -0.07% |
| IEF | 7-10 Year Treasury Bonds | -0.12% | 0.05% | -2.46% |
| TLT | 20+ Year Treasury Bonds | -0.30% | 0.20% | -5.70% |
| TIP | TIPS Bonds | -0.09% | 0.06% | -1.18% |
| FLOT | Floating Rate Bonds | 0.04% | 0.63% | 1.69% |
| LQD | Investment Grade Corporate | -0.17% | 0.50% | -2.04% |
| HYG | High Yield Corporate | 0.23% | 1.01% | 0.88% |
| BKLN | Senior Loan | 0.03% | 1.07% | 1.54% |
| PFF | Preferred & Income Securities | 0.12% | 1.70% | 4.16% |
| MUB | Municipal Bonds | 0.01% | 0.03% | -0.21% |
| MBB | MBS | -0.12% | 0.19% | -2.06% |
| EMB | Dollar Denominated EM Bonds | 0.06% | 1.78% | 0.06% |
| LEMB | Local Currency EM Bond | -0.52% | 0.64% | -1.77% |

Commodities Performance

| Ticker | Name | 1 Day | 1 Month | YTD |
|--------|--------------------------|--------|---------|---------|
| DJP | Broad Commodities | 0.58% | 4.73% | 2.63% |
| DBE | Energy | 1.62% | 4.60% | 8.96% |
| USO | WTI Crude Oil | 2.16% | 6.23% | 17.00% |
| BNO | Brent Crude Oil | 2.00% | 5.75% | 15.89% |
| UNG | Natural Gas | 1.39% | 2.33% | -24.36% |
| UGA | Gasoline | 1.33% | 7.28% | 17.56% |
| DBP | Precious Metals | 0.03% | 7.23% | 4.91% |
| GLD | Gold | 0.16% | 7.35% | 4.63% |
| SLV | Silver | -0.52% | 7.11% | 5.19% |
| PPLT | abrdrn Physical Platin.. | -2.37% | 1.21% | -7.51% |
| PALL | abrdrn Physical Palla.. | -4.21% | 8.68% | -6.00% |
| DBB | Base Metals | -0.44% | 5.35% | -1.04% |
| CPER | Copper | 0.19% | 8.05% | 6.71% |
| DBA | Agriculture | 0.55% | 9.36% | 14.37% |
| CORN | Corn | 0.00% | 2.57% | -7.51% |
| SOYB | Soybeans | -0.63% | 1.83% | -7.07% |
| WEAT | Wheat | 2.35% | -0.19% | -12.56% |
| CANE | Sugar | 0.23% | -2.31% | 7.22% |

Currencies Performance

| Ticker | Name | 1 Day | 1 Month | YTD |
|--------|------------------------|--------|---------|--------|
| UUP | Long Dollar | 0.21% | -0.18% | 3.51% |
| UDN | Short Dollar | -0.22% | 0.92% | -1.68% |
| FXE | Euro | -0.16% | 1.07% | -1.02% |
| FXB | British Pound Sterling | -0.05% | 1.28% | 0.55% |
| FXF | Swiss Franc | -0.56% | -0.83% | -5.29% |
| FXJ | Japanese Yen | -0.05% | 0.76% | -5.59% |
| FXC | Canadian Dollar | 0.06% | -0.09% | -1.58% |
| FXA | Australian Dollar | -0.05% | 0.53% | -3.43% |

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

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