

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

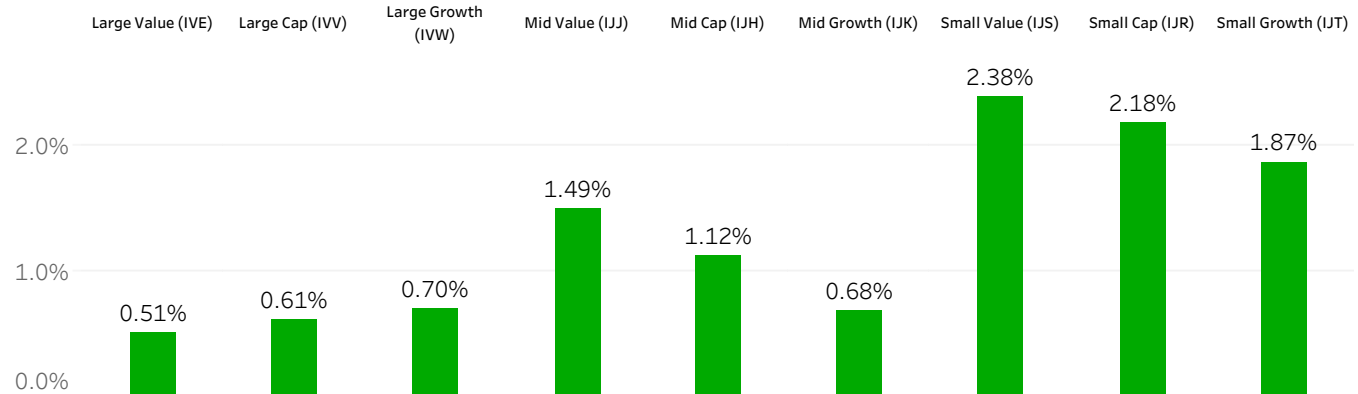


Small Cap Blend (S&P 600) IJR



■ 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 | Performance |
|--------|--|-------------|
| RZV | Invesco S&P Smallcap 600 Pure Value ETF | 3.81% |
| CALF | Pacer US Small Cap Cash Cows 100 ETF | 3.69% |
| XSVM | Invesco S&P SmallCap Value with Momentum ETF | 3.08% |
| RWJ | Invesco S&P SmallCap 600 Revenue ETF | 2.93% |
| XSMO | Invesco S&P SmallCap Momentum ETF | 2.69% |
| CSML | IQ Chaikin U.S. Small Cap ETF | 2.62% |
| FDM | First Trust Dow Jones Select MicroCap Index Fund | 2.59% |
| SYLD | Cambria Shareholder Yield ETF | 2.57% |
| PSC | Principal U.S. Small-Cap Multi-Factor ETF | 2.56% |
| QMOM | Alpha Architect U.S. Quantitative Momentum ETF | 2.53% |

Size & Style Most Overbought

| Ticker | Fund | Value |
|--------|---|-------|
| USSG | Xtrackers MSCI USA ESG Leaders Equity ETF | 80.84 |
| SUSL | iShares ESG MSCI USA Leaders ETF | 80.21 |
| DSI | iShares MSCI KLD 400 Social ETF | 80.14 |
| SPUS | SP Funds S&P 500 Sharia Industry Exclusions ETF | 79.44 |
| EFIV | SPDR S&P 500 ESG ETF | 77.94 |
| NULG | Nuveen ESG Large-Cap Growth ETF | 77.61 |
| MMTM | SPDR S&P 1500 Momentum Tilt ETF | 77.42 |
| SNPE | Xtrackers S&P 500 ESG ETF | 77.10 |
| RPG | Invesco S&P 500 Pure Growth ETF | 76.72 |
| IUSG | iShares Core S&P U.S. Growth ETF | 76.70 |

Size & Style 1-Day Performance Laggards

| Ticker | Fund | Performance |
|--------|---|-------------|
| PSET | Principal Quality ETF | -0.60% |
| DWEQ | AdvisorShares Dorsey Wright Alpha Equal Weight ETF | -0.43% |
| FFTY | Innovator IBD 50 ETF | -0.37% |
| PDP | Invesco DWA Momentum ETF | -0.35% |
| NUMG | Nuveen ESG Mid-Cap Growth ETF | -0.24% |
| DVOL | First Trust Dorsey Wright Momentum & Low Volatility E.. | -0.22% |
| USMC | Principal U.S. Mega-Cap ETF | -0.05% |
| LGLV | SPDR SSGA US Large Cap Low Volatility Index ETF | 0.00% |
| VSDA | VictoryShares Dividend Accelerator ETF | 0.04% |
| IMCG | iShares Morningstar Mid-Cap Growth ETF | 0.05% |

Size & Style Most Oversold

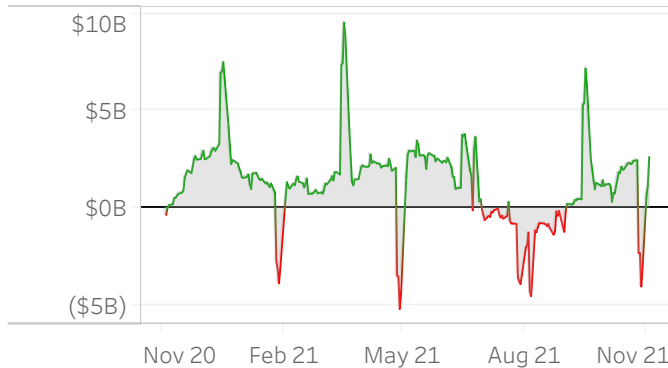
| Ticker | Fund | Value |
|--------|--|-------|
| RDIV | Invesco S&P Ultra Dividend Revenue ETF | 52.53 |
| WBIF | WBI BullBear Value 3000 ETF | 53.67 |
| SDOG | ALPS Sector Dividend Dogs ETF | 55.28 |
| SPHD | Invesco S&P 500 High Dividend Low Volatility ETF | 56.09 |
| DUSA | Davis Select U.S. Equity ETF | 56.16 |
| DVY | iShares Select Dividend ETF | 56.90 |
| PEY | Invesco High Yield Equity Dividend Achievers ETF | 57.44 |
| GURU | Global X Guru Index ETF | 57.68 |
| CATH | Global X S&P 500 Catholic Values Custom ETF | 57.89 |
| WBIY | WBI Power Factor High Dividend ETF | 57.94 |

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

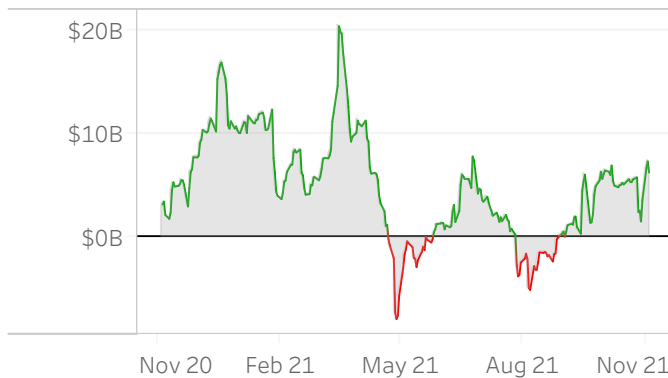
Large-Cap 30-Day Rolling Flows



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 | 24 | \$1,349B | \$4.10B | \$50.27B | \$69.78B | \$113.31B |
| Small Cap, Beta, Beta | 12 | \$230B | \$1.13B | \$7.11B | \$7.80B | \$26.50B |
| Large Cap, Beta Growth, Beta: Value | 11 | \$209B | \$0.55B | \$5.90B | \$11.49B | \$34.33B |
| Large Cap, Beta Growth, Beta: Growth | 10 | \$273B | \$0.55B | \$3.60B | \$9.79B | \$6.00B |
| Mid Cap, Beta, Beta: Growth | 6 | \$42B | \$0.33B | \$0.39B | (\$0.26B) | (\$2.07B) |
| Mid Cap, Beta, Beta | 10 | \$196B | \$0.31B | \$2.54B | \$2.61B | \$9.54B |
| Small Cap, Beta, Beta: Value | 7 | \$59B | \$0.03B | \$0.58B | \$0.36B | \$8.93B |
| Mid Cap, Beta, Beta: Value | 6 | \$43B | \$0.01B | \$0.72B | \$1.23B | \$4.85B |
| Small Cap, Beta, Beta: Growth | 7 | \$40B | (\$0.03B) | \$0.01B | (\$0.24B) | \$1.20B |

U.S. Size & Style Flow Leaders

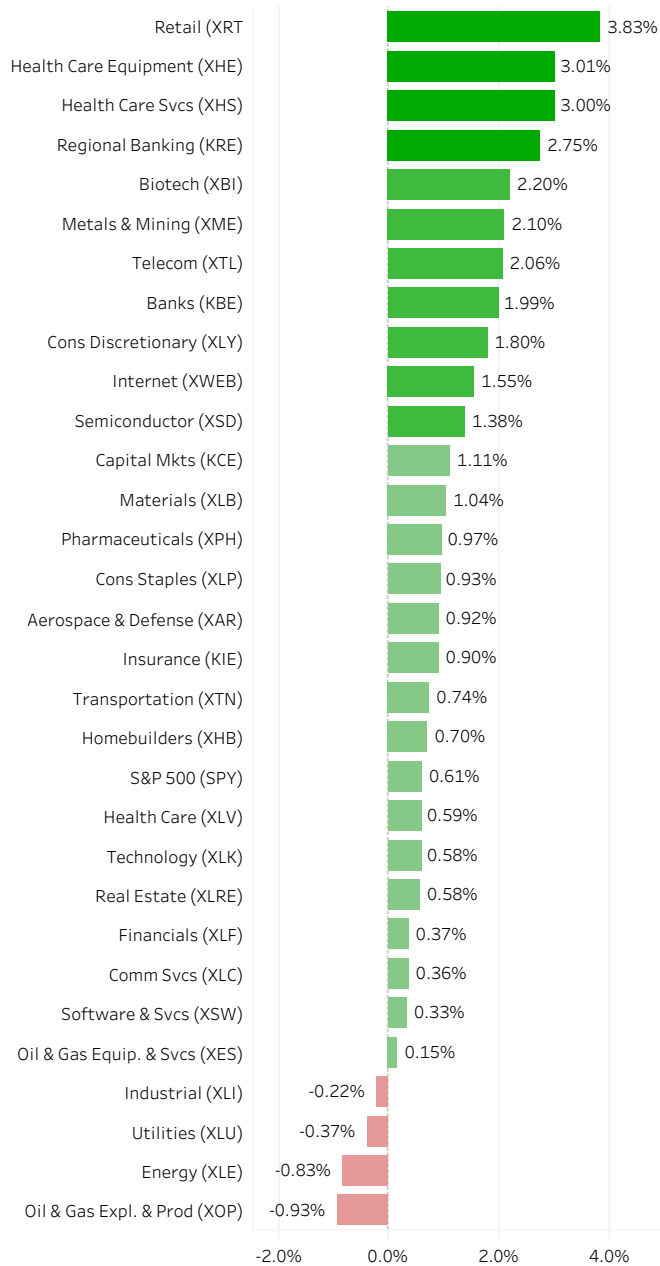
| Ticker | Fund | 1 Week | 3 Month | 6 Month | 1 Year | AUM |
|--------|---------------------------------|---------|----------|----------|-----------|-----------|
| SPY | SPDR S&P 500 ETF Trust | \$2.57B | \$18.33B | \$12.41B | \$20.32B | \$421.05B |
| IVV | iShares Core S&P 500 ETF | \$1.36B | \$8.53B | \$10.26B | \$20.40B | \$319.09B |
| VOO | Vanguard S&P 500 ETF | \$0.91B | \$12.30B | \$24.47B | \$42.12B | \$270.35B |
| IWM | iShares Russell 2000 ETF | \$0.85B | \$3.01B | \$1.72B | \$7.36B | \$72.73B |
| VTI | Vanguard Total Stock Market ETF | \$0.84B | \$11.04B | \$20.60B | \$45.42B | \$286.02B |
| IJR | iShares Core S&P Small Cap ETF | \$0.30B | \$1.69B | \$1.04B | \$5.27B | \$73.38B |
| MDYG | SPDR S&P 400 Mid Cap Growth ETF | \$0.30B | \$0.28B | \$0.31B | (\$0.20B) | \$2.08B |
| IWD | iShares Russell 1000 Value ETF | \$0.29B | \$1.19B | \$1.27B | \$5.96B | \$57.25B |
| VUG | Vanguard Growth ETF | \$0.21B | \$0.78B | \$2.91B | \$4.16B | \$88.79B |
| VTV | Vanguard Value ETF | \$0.20B | \$2.85B | \$6.59B | \$16.44B | \$89.10B |

U.S. Size & Style Flow Laggards

| Ticker | Fund | 1 Week | 3 Month | 6 Month | 1 Year | AUM |
|--------|---|-----------|-----------|-----------|-----------|-----------|
| SDY | SPDR S&P Dividend ETF | (\$1.04B) | \$0.14B | \$0.30B | \$0.19B | \$20.05B |
| IWB | iShares Russell 1000 ETF | (\$0.83B) | (\$0.86B) | (\$0.31B) | (\$0.57B) | \$31.27B |
| PKW | Invesco Buyback Achievers ETF | (\$0.27B) | \$0.31B | (\$0.38B) | \$0.44B | \$1.60B |
| FNDX | Schwab Fundamental US Large Co. Index ETF | (\$0.25B) | \$0.44B | \$0.76B | \$1.17B | \$7.98B |
| NOBL | ProShares S&P 500 Dividend Aristocrats ETF | (\$0.18B) | \$0.26B | \$0.56B | \$1.12B | \$9.33B |
| QQQ | Invesco QQQ Trust | (\$0.18B) | \$7.19B | \$14.73B | \$17.07B | \$202.88B |
| DIA | SPDR Dow Jones Industrial Average ETF Trust | (\$0.16B) | (\$1.10B) | (\$1.38B) | (\$0.11B) | \$30.21B |
| RDIV | Invesco S&P Ultra Dividend Revenue ETF | (\$0.15B) | (\$0.03B) | (\$0.02B) | (\$0.06B) | \$0.70B |
| VXF | Vanguard Extended Market ETF | (\$0.14B) | \$0.04B | \$0.75B | \$2.58B | \$18.40B |
| USMV | iShares MSCI USA Min Vol Factor ETF | (\$0.12B) | \$0.15B | (\$1.75B) | (\$9.79B) | \$29.18B |

* 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) |
|--------|--|-----------------|----------------|--------------------|---------------------|-----------|
| SPY | SPDR S&P 500 ETF Trust | 0.00% | 30.79% | 4.23% | 10.07% | 73.53 |
| XLK | Technology Select Sector SPDR Fund | 0.00% | 36.29% | 4.73% | 12.84% | 72.04 |
| XLY | Consumer Discretionary Select Sector SPDR Fund | 0.00% | 34.76% | 10.89% | 17.11% | 81.29 |
| XLRE | Real Estate Select Sector SPDR Fund | -0.14% | 38.79% | 4.08% | 12.02% | 68.09 |
| XLF | Financial Select Sector SPDR Fund | -0.22% | 49.12% | 4.80% | 11.54% | 63.45 |
| XLI | Industrial Select Sector SPDR Fund | -0.60% | 23.75% | 2.62% | 4.53% | 61.68 |
| XLP | Consumer Staples Select Sector SPDR Fund | -0.63% | 14.55% | 2.07% | 4.31% | 67.87 |
| XLV | Health Care Select Sector SPDR Fund | -1.14% | 24.76% | 2.99% | 8.38% | 68.59 |
| XLB | Materials Select Sector SPDR Fund | -1.68% | 25.40% | 4.65% | 6.51% | 68.55 |
| XLE | Energy Select Sector SPDR Fund | -2.89% | 62.14% | 8.40% | 12.98% | 57.33 |
| XLU | Utilities Select Sector SPDR Fund | -4.44% | 14.74% | 0.45% | 2.75% | 54.77 |
| XLC | Communication Services Select Sector SPDR Fund | -6.18% | 26.85% | -1.69% | 2.65% | 48.68 |

Sector & Industry 1 Day Performance Leaders

| Ticker | Fund | 1 Day Performance |
|--------|--|-------------------|
| PSCD | Invesco S&P SmallCap Consumer Discretionary ETF | 4.55% |
| XRT | SPDR S&P Retail ETF | 3.83% |
| PSCH | Invesco S&P SmallCap Health Care ETF | 3.30% |
| XHE | SPDR S&P Health Care Equipment ETF | 3.01% |
| XHS | SPDR S&P Health Care Services ETF | 3.00% |
| KRE | SPDR S&P Regional Banking ETF | 2.75% |
| KBWR | Invesco KBW Regional Banking ETF | 2.74% |
| PEZ | Invesco DWA Consumer Cyclical Momentum ETF | 2.48% |
| QABA | First Trust NASDAQ ABA Community Bank Index F.. | 2.45% |
| IGN | iShares North American Tech-Multimedia Network.. | 2.44% |

Sector & Industry Most Overbought

| Ticker | Fund | RSI (14D) |
|--------|---|-----------|
| XLY | Consumer Discretionary Select Sector SPDR Fund | 81.29 |
| XSD | SPDR S&P Semiconductor ETF | 80.30 |
| PRN | Invesco DWA Industrials Momentum ETF | 77.23 |
| IGN | iShares North American Tech-Multimedia Networking E.. | 77.01 |
| FDIS | Fidelity MSCI Consumer Discretionary Index ETF | 76.97 |
| VCR | Vanguard Consumer Discretionary ETF | 76.74 |
| KCE | SPDR S&P Capital Markets ETF | 76.65 |
| IYC | iShares U.S. Consumer Discretionary ETF | 75.99 |
| FTXR | First Trust Nasdaq Transportation ETF | 75.90 |
| IYT | iShares US Transportation ETF | 75.64 |

Sector & Industry 1 Day Performance Laggards

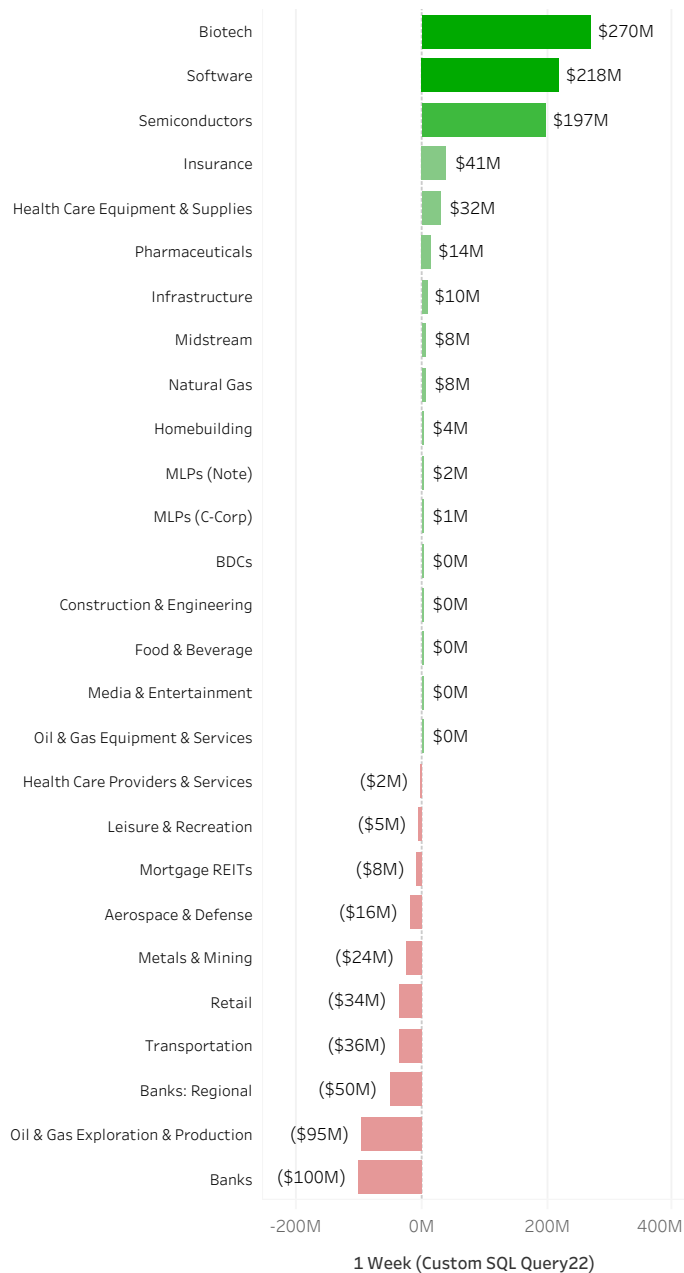
| Ticker | Fund | 1 Day Performance |
|--------|---|-------------------|
| PXE | Invesco Dynamic Energy Exploration & Production ETF | -0.95% |
| XOP | SPDR S&P Oil & Gas Exploration & Production ETF | -0.93% |
| PXI | Invesco DWA Energy Momentum ETF | -0.88% |
| IYE | iShares U.S. Energy ETF | -0.88% |
| FENY | Fidelity MSCI Energy Index ETF | -0.88% |
| FXN | First Trust Energy AlphaDEX Fund | -0.85% |
| FCG | First Trust Natural Gas ETF | -0.85% |
| VDE | Vanguard Energy ETF | -0.84% |
| AMLP | Alerian MLP ETF | -0.84% |
| AMZA | InfraCap MLP ETF | -0.83% |

Sector & Industry Most Oversold

| Ticker | Fund | RSI (14D) |
|--------|--|-----------|
| ITA | iShares U.S. Aerospace & Defense ETF | 46.42 |
| XLC | Communication Services Select Sector SPDR Fund | 48.68 |
| XAR | SPDR S&P Aerospace & Defense ETF | 49.30 |
| AMZA | InfraCap MLP ETF | 49.87 |
| PPA | Invesco Aerospace & Defense ETF | 50.43 |
| XES | SPDR S&P Oil & Gas Equipment & Services ETF | 51.23 |
| IYJ | iShares U.S. Industrials ETF | 51.39 |
| AMLP | Alerian MLP ETF | 51.51 |
| BIZD | VanEck BDC Income ETF | 51.66 |
| VOX | Vanguard Communication Services ETF | 51.68 |

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

U.S. Sector & Industry 1-Week Flows



U.S. Sector Landscape

| | Funds | AUM | 1 Week | 3 Month | 6 Month | 1 Year |
|------------------------|-------|--------|----------|------------|------------|------------|
| Communication Services | 9 | \$21B | \$32M | \$1,224M | \$2,148M | \$2,555M |
| Consumer Discretionary | 13 | \$37B | (\$86M) | \$99M | (\$997M) | \$2,814M |
| Consumer Staples | 12 | \$20B | (\$32M) | (\$1,475M) | \$947M | (\$3,947M) |
| Energy | 34 | \$57B | \$137M | \$763M | \$40M | \$11,417M |
| Financials | 28 | \$87B | \$714M | \$5,718M | \$2,872M | \$25,011M |
| Health Care | 26 | \$92B | \$1,057M | \$454M | \$4,238M | \$4,117M |
| Industrial | 14 | \$36B | (\$189M) | (\$2,408M) | (\$4,444M) | \$2,754M |
| Materials | 10 | \$16B | (\$3M) | (\$1,574M) | (\$229M) | \$4,704M |
| Multi-Sector | 17 | \$26B | (\$18M) | \$1,014M | \$1,153M | \$4,012M |
| Real Estate | 22 | \$79B | \$823M | \$4,504M | \$7,505M | \$13,324M |
| Technology | 24 | \$152B | \$663M | \$4,655M | \$5,940M | \$6,082M |
| Utilities | 10 | \$20B | (\$40M) | (\$124M) | \$26M | (\$73M) |

U.S. Sector & Industry Flow Leaders

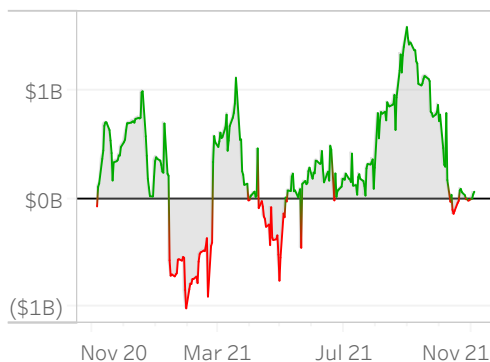
| Ticker | Fund | 1 Week | 3 Month | 6 Month | 1 Year | AUM |
|--------|---|--------|----------|----------|-----------|-----------|
| XLF | Financial Select Sector SPDR Fund | \$741M | \$2,688M | \$158M | \$12,821M | \$45,912M |
| XLV | Health Care Select Sector SPDR Fund | \$703M | (\$540M) | \$3,752M | \$3,022M | \$32,546M |
| VNQ | Vanguard Real Estate ETF | \$428M | \$1,162M | \$3,608M | \$6,275M | \$46,563M |
| XBI | SPDR S&P BIOTECH ETF | \$326M | \$356M | \$440M | \$1,211M | \$7,598M |
| XLK | Technology Select Sector SPDR Fund | \$266M | \$810M | \$1,394M | \$412M | \$48,168M |
| IYR | iShares U.S. Real Estate ETF | \$243M | \$1,646M | \$480M | \$1,771M | \$7,395M |
| IGV | iShares Expanded Tech-Software Sector ETF | \$218M | \$1,216M | \$488M | (\$303M) | \$6,709M |
| XLE | Energy Select Sector SPDR Fund | \$123M | \$778M | \$448M | \$7,706M | \$27,478M |
| SOXX | iShares Semiconductor ETF | \$120M | \$341M | \$635M | \$2,121M | \$8,204M |
| XLRE | Real Estate Select Sector SPDR Fund | \$103M | \$573M | \$1,468M | \$1,798M | \$4,786M |

U.S. Sector & Industry Flow Laggards

| Ticker | Fund | 1 Week | 3 Month | 6 Month | 1 Year | AUM |
|--------|---|----------|------------|------------|----------|-----------|
| XLI | Industrial Select Sector SPDR Fund | (\$172M) | (\$1,886M) | (\$3,439M) | \$430M | \$17,863M |
| XOP | SPDR S&P Oil & Gas Exploration & Production E.. | (\$101M) | (\$213M) | (\$824M) | (\$114M) | \$4,179M |
| KBE | SPDR S&P Bank ETF | (\$65M) | \$149M | (\$750M) | \$446M | \$3,514M |
| XLY | Consumer Discretionary Select Sector SPDR Fu.. | (\$61M) | \$704M | (\$650M) | \$504M | \$22,766M |
| IBB | iShares Biotechnology ETF | (\$57M) | (\$331M) | (\$414M) | (\$809M) | \$10,414M |
| KRE | SPDR S&P Regional Banking ETF | (\$50M) | \$1,025M | \$122M | \$2,919M | \$5,566M |
| ITB | iShares U.S. Home Construction ETF | (\$47M) | \$220M | (\$31M) | (\$72M) | \$2,705M |
| XLU | Utilities Select Sector SPDR Fund | (\$47M) | (\$277M) | (\$317M) | (\$289M) | \$12,234M |
| IYW | iShares U.S. Technology ETF | (\$39M) | \$322M | \$602M | \$454M | \$9,259M |
| KBWB | Invesco KBW Bank ETF | (\$38M) | \$787M | \$603M | \$1,811M | \$3,545M |

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

Communication Services



Consumer Discretionary



Consumer Staples



Energy



Financials



Industrial



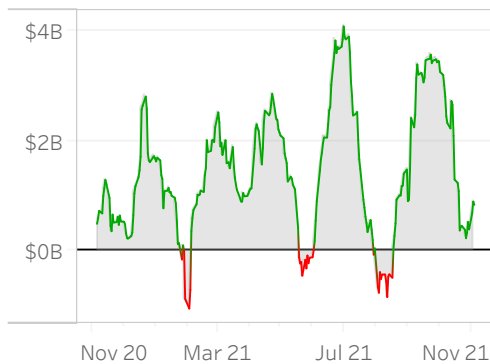
Health Care



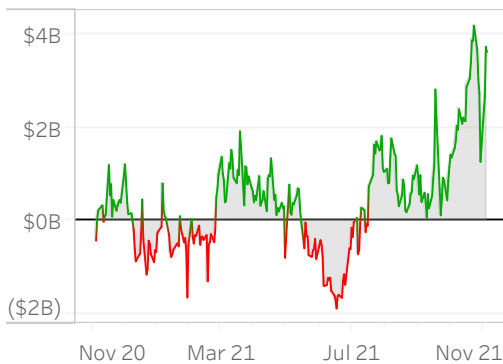
Materials



Real Estate



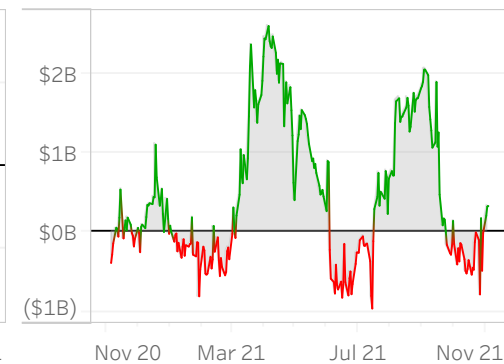
Technology



Utilities

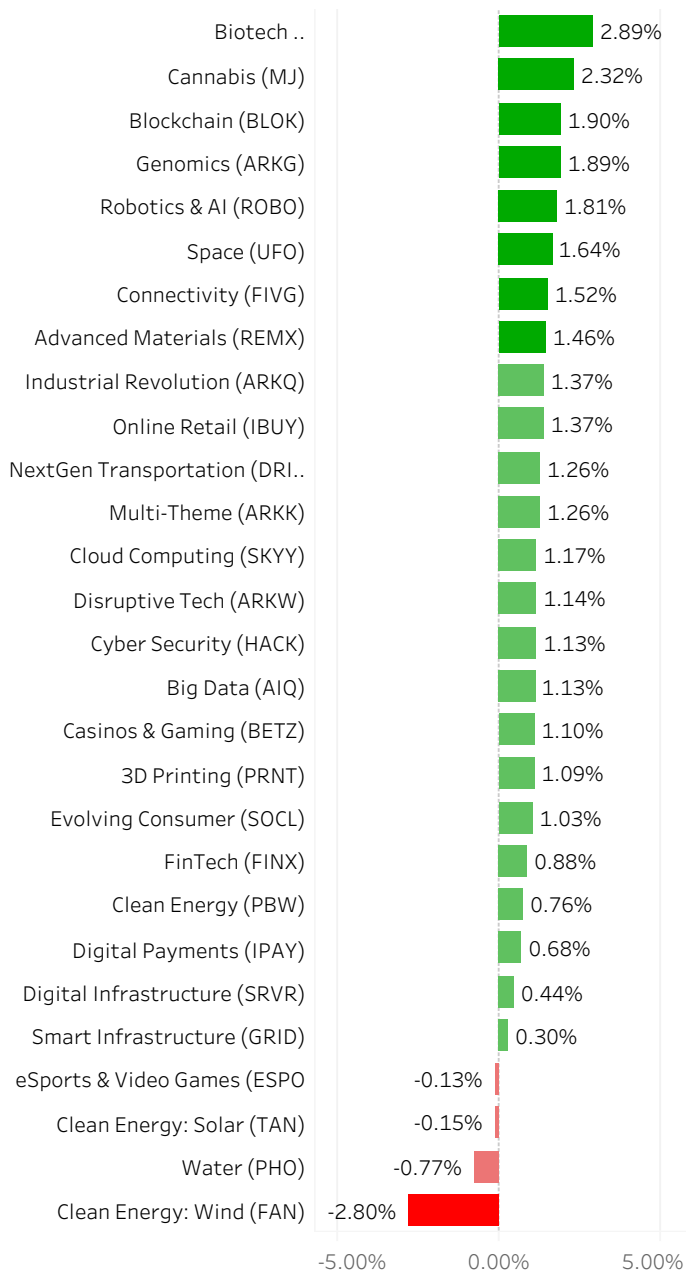


Multi-Sector

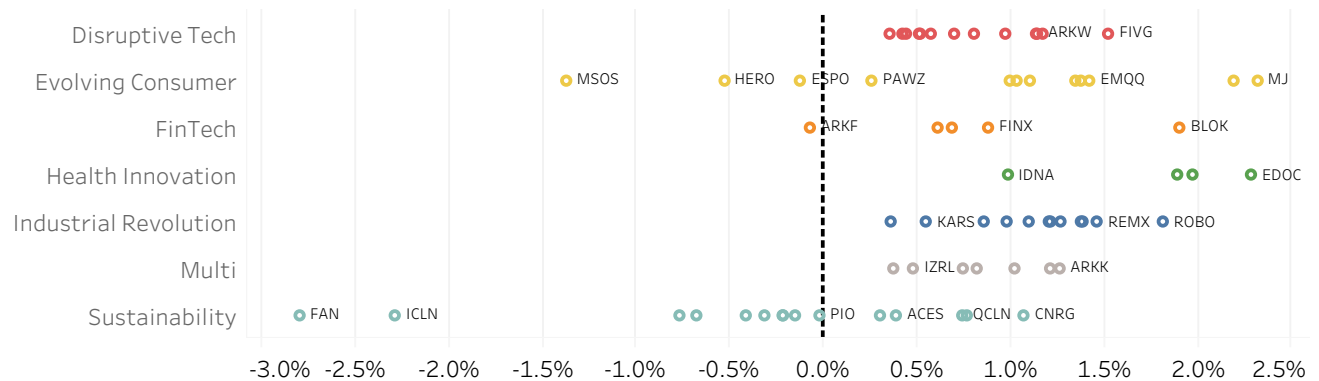


*ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

| Ticker | Fund | Performance |
|--------|---|-------------|
| SBIO | ALPS Medical Breakthroughs ETF | 2.89% |
| HTEC | ROBO Global Healthcare Technology and Innovation ETF | 2.55% |
| BITQ | Bitwise Crypto Industry Innovators ETF | 2.36% |
| MJ | ETFMG Alternative Harvest ETF | 2.32% |
| EDOC | Global X Telemedicine & Digital Health ETF | 2.28% |
| ONLN | ProShares Online Retail ETF | 2.19% |
| BTEC | Principal Exchange-Traded Funds Principal Healthcare In.. | 1.98% |
| GNOM | Global X Genomics & Biotechnology ETF | 1.97% |
| BLOK | Amplify Transformational Data Sharing ETF | 1.90% |
| ARKG | ARK Genomic Revolution ETF | 1.89% |

Thematic Most Overbought

| Ticker | Fund | Price |
|--------|--|-------|
| IDRV | iShares Self-driving EV & Tech ETF | 79.97 |
| QCLN | First Trust Nasdaq Clean Edge Green Energy Index Fund | 78.85 |
| DRIV | Global X Autonomous & Electric Vehicles ETF | 78.11 |
| GRID | First Trust Nasdaq Clean Edge Smart GRID Infrastructure .. | 76.94 |
| KARS | KraneShares Electric Vehicles & Future Mobility Index ETF | 75.44 |
| BITQ | Bitwise Crypto Industry Innovators ETF | 75.29 |
| ROBO | ROBO Global Robotics & Automation Index ETF | 75.21 |
| QTUM | Defiance Quantum ETF | 74.75 |
| BLOK | Amplify Transformational Data Sharing ETF | 74.51 |
| PBW | Invesco WilderHill Clean Energy ETF | 74.44 |

Global Thematic 1-Day Performance Laggards

| Ticker | Fund | Performance |
|--------|--|-------------|
| FAN | First Trust Global Wind Energy ETF | -2.80% |
| ICLN | iShares Global Clean Energy ETF | -2.29% |
| CTEC | Global X CleanTech ETF | -1.63% |
| KGRN | KraneShares MSCI China Clean Technology Index ETF | -1.49% |
| MSOS | AdvisorShares Pure US Cannabis ETF | -1.38% |
| HDRO | Defiance Next Gen H2 ETF | -0.83% |
| EVX | VanEck Environmental Services ETF | -0.81% |
| PHO | Invesco Water Resources ETF | -0.77% |
| SMOG | VanEck Low Carbon Energy ETF | -0.68% |
| RNRG | Global X Funds Global X Renewable Energy Producers ETF | -0.59% |

Thematic Most Oversold

| Ticker | Fund | Price |
|--------|------------------------------------|-------|
| MSOS | AdvisorShares Pure US Cannabis ETF | 30.85 |
| IPAY | ETFMG Prime Mobile Payments ETF | 35.26 |
| CNBS | Amplify Seymour Cannabis ETF | 36.96 |
| YOLO | AdvisorShares Pure Cannabis ETF | 37.66 |
| THCX | Cannabis ETF | 43.88 |
| POTX | Global X Cannabis ETF | 45.30 |
| AWAY | ETFMG Travel Tech ETF | 45.69 |
| FAN | First Trust Global Wind Energy ETF | 46.01 |
| SOCL | Global X Social Media ETF | 46.56 |
| MJ | ETFMG Alternative Harvest ETF | 46.98 |

* 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 | |
|--------|---|--------|
| TAN | Invesco Solar ETF | \$235M |
| ICLN | iShares Global Clean Energy ETF | \$96M |
| OCLN | First Trust Nasdaq Clean Edge Green Energy Index Fund | \$86M |
| LIT | Global X Lithium & Battery Tech ETF | \$76M |
| META | Roundhill Ball Metaverse ETF | \$75M |
| CIBR | First Trust NASDAQ Cybersecurity ETF | \$67M |
| ARKG | ARK Genomic Revolution ETF | \$27M |
| KEMQ | KraneShares Emerging Markets Consumer Technology Index ETF | \$27M |
| GRID | First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index | \$20M |
| BUG | Global X Cybersecurity ETF | \$20M |

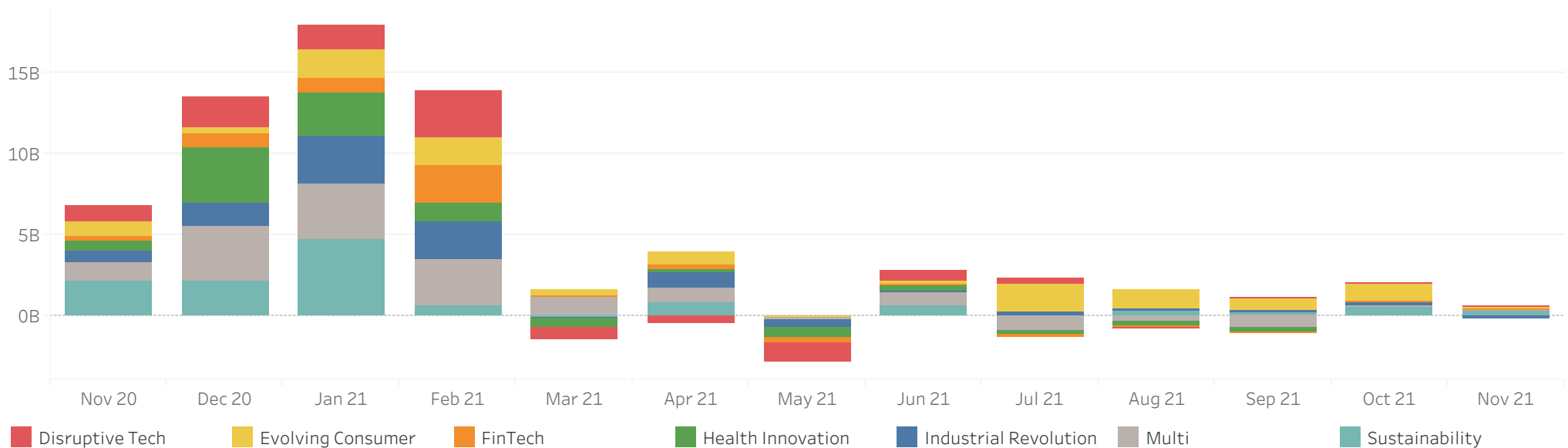
Thematic 1 Week Flow Laggards

| Ticker | Fund | |
|--------|--|----------|
| ARKK | ARK Innovation ETF | (\$235M) |
| PAWZ | ProShares Pet Care ETF | (\$102M) |
| KWEB | KraneShares CSI China Internet ETF | (\$52M) |
| ARKW | ARK Next Generation Internet ETF | (\$46M) |
| FIVG | Defiance Next Gen Connectivity ETF | (\$29M) |
| ARKQ | ARK Autonomous Technology & Robotics ETF | (\$17M) |
| HERO | Global X Video Games & Esports ETF | (\$15M) |
| PHO | Invesco Water Resources ETF | (\$9M) |
| ARKX | ARK Space Exploration & Innovation ETF | (\$9M) |
| ARKF | ARK Fintech Innovation ETF | (\$8M) |

Thematic Landscape Assets & Flows

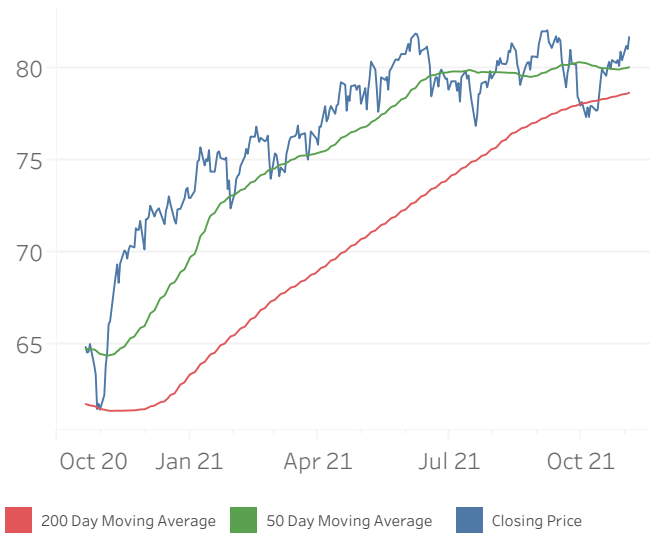
| Segment | Funds | AUM | 1 Week | 3 Month | 6 Month | 1 Year |
|-----------------------|-------|--------|----------|----------|----------|-----------|
| Disruptive Tech | 36 | \$31B | \$72M | \$143M | \$221M | \$6,062M |
| Evolving Consumer | 40 | \$18B | \$1M | \$3,035M | \$4,953M | \$10,777M |
| FinTech | 16 | \$8B | (\$127M) | (\$63M) | (\$452M) | \$4,462M |
| Health Innovation | 15 | \$10B | \$41M | (\$448M) | (\$901M) | \$6,531M |
| Industrial Revolution | 24 | \$19B | (\$158M) | \$438M | \$277M | \$8,291M |
| Multi | 28 | \$31B | \$51M | (\$641M) | (\$714M) | \$11,825M |
| Sustainability | 36 | \$26B | \$421M | \$1,299M | \$1,992M | \$12,684M |
| Grand Total | 195 | \$142B | \$301M | \$3,762M | \$5,375M | \$60,631M |

Thematic Monthly Flows

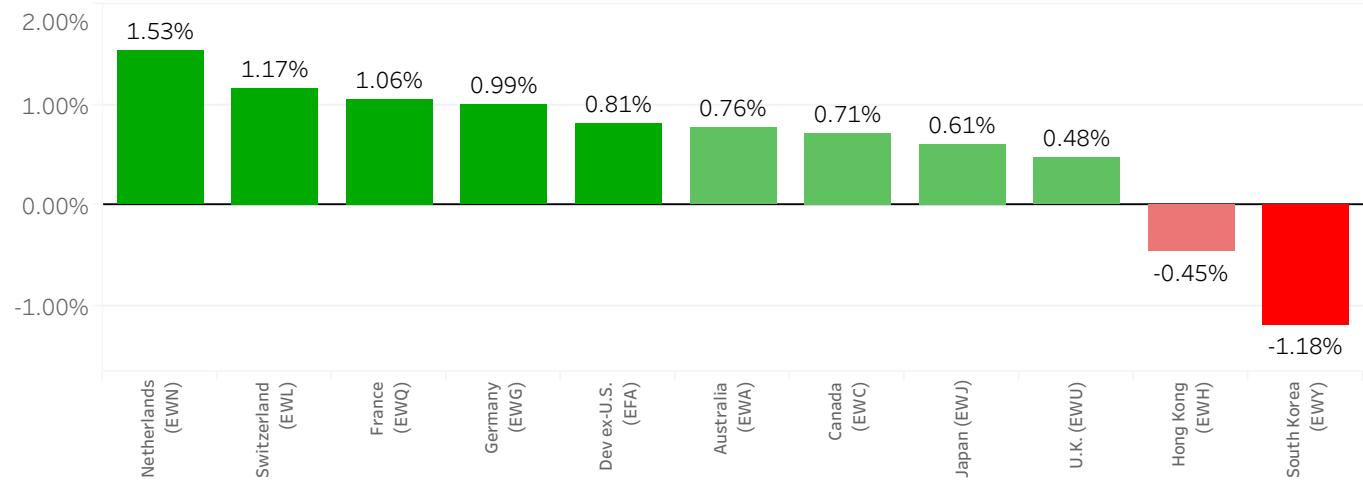


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

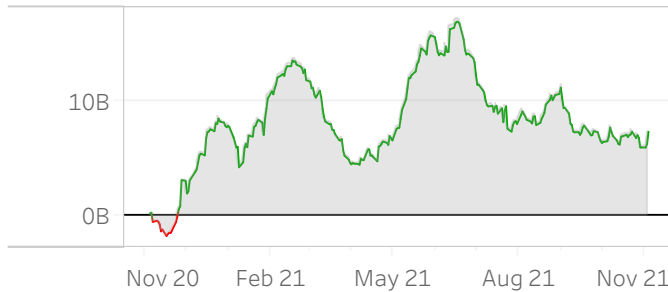
Developed ex-U.S. (EFA)



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



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



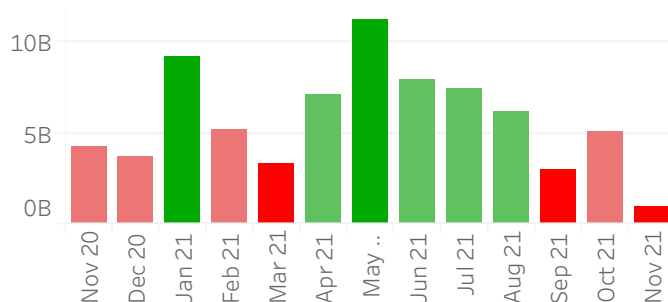
Developed ex-U.S. 1-Day Performance Leaders

| Ticker | Fund | 1-Day Performance |
|--------|--|-------------------|
| EWO | iShares MSCI Austria ETF | 1.78% |
| EWD | iShares MSCI Sweden ETF | 1.58% |
| EWN | iShares MSCI Netherlands ETF | 1.53% |
| PIZ | Invesco DWA Developed Markets Momentum ETF | 1.36% |
| DFE | WisdomTree Europe SmallCap Dividend Fund | 1.26% |
| IDHQ | Invesco S&P International Developed High Quality ETF | 1.24% |
| GREK | Global X MSCI Greece ETF | 1.24% |
| EWL | iShares MSCI Switzerland ETF | 1.17% |
| PTEU | Pacer Trendpilot European Index ETF | 1.16% |
| FDT | First Trust Developed Markets ex-US AlphaDEX Fund | 1.11% |

Developed ex-U.S. Most Overbought

| Ticker | Fund | Price |
|--------|--|-------|
| HEDJ | WisdomTree Europe Hedged Equity Fund | 73.99 |
| EIS | iShares MSCI Israel ETF | 73.83 |
| TOK | iShares MSCI Kokusai ETF | 73.42 |
| EWL | iShares MSCI Switzerland ETF | 72.69 |
| HEZU | iShares Currency Hedged MSCI Eurozone ETF | 72.55 |
| DBEU | Xtrackers MSCI Europe Hedged Equity ETF | 72.48 |
| HEWG | iShares Currency Hedged MSCI Germany ETF | 70.66 |
| EUSC | WisdomTree Europe Hedged SmallCap Equity Fund | 70.46 |
| IDHQ | Invesco S&P International Developed High Quality ETF | 70.09 |
| HEFA | iShares Currency Hedged MSCI EAFE ETF | 69.68 |

Developed ex-U.S. Monthly Flows



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

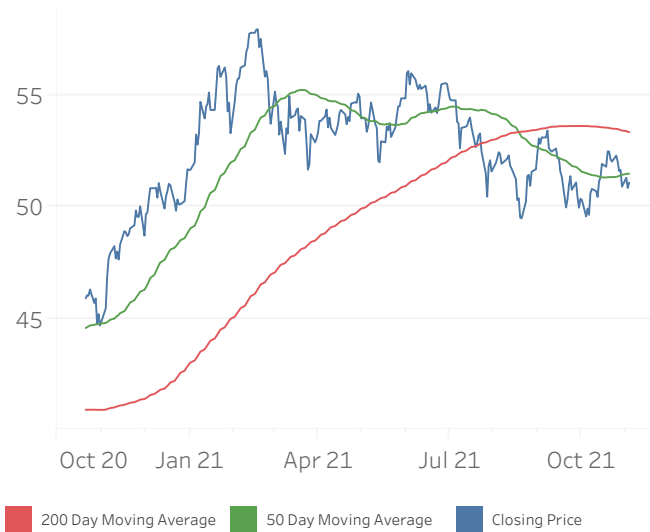
| Ticker | Fund | 1-Day Performance |
|--------|---|-------------------|
| FLKR | Franklin FTSE South Korea ETF | -1.19% |
| EWY | iShares MSCI South Korea ETF | -1.18% |
| ISRA | VanEck Israel ETF | -0.66% |
| FKU | First Trust United Kingdom AlphaDEX Fund | -0.55% |
| LVHI | Legg Mason International Low Volatility High Dividend ETF | -0.53% |
| EWH | iShares MSCI Hong Kong ETF | -0.45% |
| EWP | iShares MSCI Spain ETF | -0.21% |
| EIS | iShares MSCI Israel ETF | -0.06% |
| IDV | iShares International Select Dividend ETF | 0.13% |
| FLGB | Franklin FTSE United Kingdom ETF | 0.24% |

Developed ex-U.S. Most Oversold

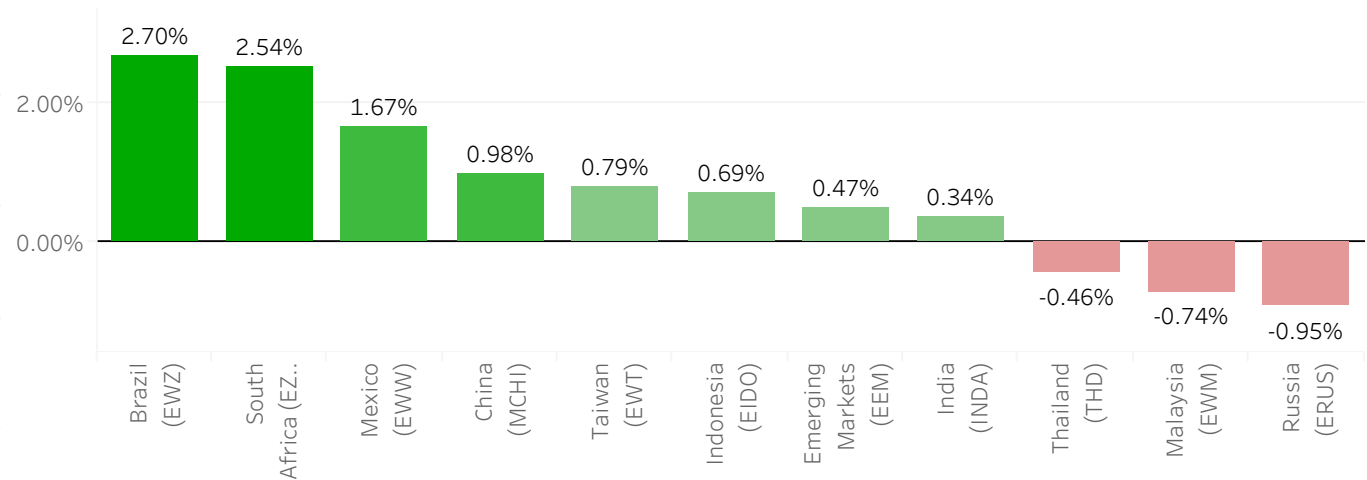
| Ticker | Fund | Price |
|--------|--|-------|
| EWY | iShares MSCI South Korea ETF | 44.88 |
| FLKR | Franklin FTSE South Korea ETF | 45.70 |
| EWH | iShares MSCI Hong Kong ETF | 46.16 |
| AAXJ | iShares MSCI All Country Asia ex Japan ETF | 47.20 |
| EWUS | iShares MSCI United Kingdom Small Cap ETF | 47.38 |
| FKU | First Trust United Kingdom AlphaDEX Fund | 47.84 |
| AIA | iShares Asia 50 ETF | 48.43 |
| DFJ | WisdomTree Japan SmallCap Dividend Fund | 48.70 |
| IDV | iShares International Select Dividend ETF | 48.78 |
| EIRL | iShares MSCI Ireland ETF | 49.85 |

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

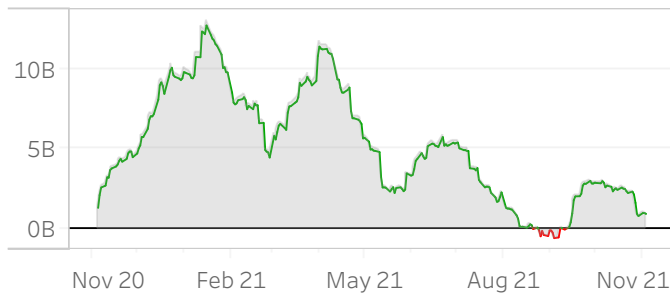
Emerging (EEM)



Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



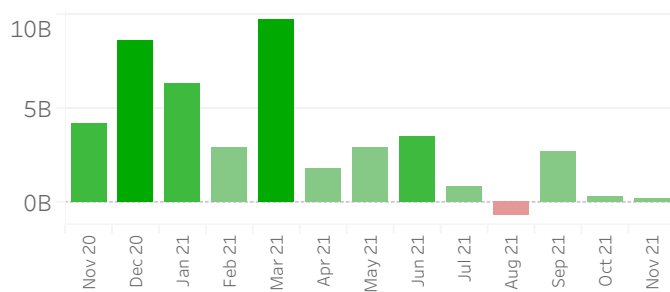
Emerging 1-Day Performance Leaders

| Ticker | Fund | Performance |
|--------|--|-------------|
| EWZS | iShares MSCI Brazil Small-Cap ETF | 6.38% |
| FLBR | Franklin FTSE Brazil ETF | 3.45% |
| EWZ | iShares MSCI Brazil ETF | 2.70% |
| EZA | iShares MSCI South Africa ETF | 2.54% |
| ECH | iShares MSCI Chile ETF | 2.50% |
| EWW | iShares MSCI Mexico ETF | 1.67% |
| FEMS | First Trust Emerging Markets Small Cap AlphaDEX Fund | 1.50% |
| ILF | iShares Latin America 40 ETF | 1.48% |
| TUR | iShares MSCI Turkey ETF | 1.30% |
| AFK | VanEck Africa Index ETF | 1.17% |

Emerging Most Overbought

| Ticker | Fund | Value |
|--------|---|-------|
| FM | iShares MSCI Frontier and Select EM ETF | 69.73 |
| VNM | VanEck Vietnam ETF | 62.38 |
| QAT | iShares MSCI Qatar ETF | 62.24 |
| EWT | iShares MSCI Taiwan ETF | 58.81 |
| EPHE | iShares MSCI Philippines ETF | 58.60 |
| ECH | iShares MSCI Chile ETF | 57.75 |
| TUR | iShares MSCI Turkey ETF | 57.21 |
| PIE | Invesco DWA Emerging Markets Momentum ETF | 56.61 |
| EEMS | iShares MSCI Emerging Markets Small Cap ETF | 56.10 |
| EPU | iShares MSCI Peru ETF | 55.08 |

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

| Ticker | Fund | Performance |
|--------|---|-------------|
| KSA | iShares MSCI Saudi Arabia ETF | -0.95% |
| ERUS | iShares MSCI Russia ETF | -0.95% |
| RSX | VanEck Russia ETF | -0.87% |
| EPU | iShares MSCI Peru ETF | -0.77% |
| EWM | iShares MSCI Malaysia ETF | -0.74% |
| THD | iShares MSCI Thailand ETF | -0.46% |
| NFTY | First Trust India NIFTY 50 Equal Weight ETF | -0.18% |
| EPOL | iShares MSCI Poland ETF | -0.17% |
| LDEM | iShares ESG MSCI EM Leaders ETF | 0.00% |
| INDY | iShares India 50 ETF | 0.00% |

Emerging Most Oversold

| Ticker | Fund | Value |
|--------|---|-------|
| SDEM | Global X MSCI SuperDividend Emerging Markets ETF | 36.16 |
| EWM | iShares MSCI Malaysia ETF | 37.32 |
| DEM | WisdomTree Emerging Markets High Dividend Fund | 37.37 |
| FEM | First Trust Emerging Markets AlphaDEX Fund | 38.89 |
| ILF | iShares Latin America 40 ETF | 39.46 |
| EWZ | iShares MSCI Brazil ETF | 40.78 |
| FEMS | First Trust Emerging Markets Small Cap AlphaDEX F.. | 41.20 |
| FLBR | Franklin FTSE Brazil ETF | 41.91 |
| LDEM | iShares ESG MSCI EM Leaders ETF | 42.81 |
| EWZS | iShares MSCI Brazil Small-Cap ETF | 43.65 |

*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 | -0.20% | -0.37% | -1.74% |
| SHY | 1-3 Year Treasury Bonds | -0.02% | -0.35% | -0.41% |
| IEF | 7-10 Year Treasury Bonds | -0.31% | -0.92% | -3.94% |
| TLT | 20+ Year Treasury Bonds | -1.03% | 0.28% | -6.51% |
| TIP | TIPS Bonds | -0.14% | 0.53% | 4.20% |
| FLOT | Floating Rate Bonds | 0.00% | 0.01% | 0.46% |
| LQD | Investment Grade Corporate | -0.25% | -0.24% | -1.74% |
| HYG | High Yield Corporate | 0.20% | -0.22% | 2.97% |
| BKLN | Senior Loan | 0.09% | 0.12% | 1.93% |
| PFF | Preferred & Income Securities | -0.18% | 1.98% | 6.01% |
| MUB | Municipal Bonds | 0.05% | -0.04% | 0.34% |
| MBB | MBS | -0.12% | -0.43% | -1.08% |
| EMB | Dollar Denominated EM Bonds | -0.16% | -0.12% | -2.76% |
| LEMB | Local Currency EM Bond | 0.12% | -1.88% | -7.58% |

Commodities Performance

| Ticker | Name | 1 Day | 1 Month | YTD |
|--------|-------------------|--------|---------|---------|
| DJP | Broad Commodities | -0.73% | 2.73% | 37.53% |
| DBE | Energy | -3.46% | 3.72% | 64.48% |
| USO | WTI Crude Oil | -3.81% | 3.91% | 67.65% |
| BNO | Brent Crude Oil | -3.96% | 3.30% | 67.55% |
| UNG | Natural Gas | 5.54% | 0.83% | 111.30% |
| UGA | Gasoline | -4.52% | 6.22% | 72.11% |
| DBP | Precious Metals | -0.65% | 1.44% | -9.00% |
| GLD | Gold | -0.83% | 0.72% | -7.06% |
| SLV | Silver | 0.05% | 4.70% | -11.23% |
| PPLT | Platinum | -0.59% | 5.58% | -4.63% |
| PALL | Palladium | -0.81% | 3.60% | -18.94% |
| DBB | Base Metals | 0.00% | 1.20% | 22.65% |
| CPER | Copper | -0.19% | 3.61% | 22.72% |
| LD | Lead | 0.93% | 12.63% | 22.33% |
| JJN | Nickel | -0.37% | 7.18% | 15.22% |
| JJU | Aluminum | -0.12% | -6.73% | 32.63% |
| JJT | Tin | 0.91% | 10.48% | 109.49% |
| DBA | Agriculture | -0.10% | 0.15% | 20.38% |
| CORN | Corn | -1.35% | 3.22% | 35.88% |
| SOYB | Soybeans | -0.87% | -0.82% | 11.45% |
| WEAT | Wheat | -0.91% | 4.23% | 23.42% |
| CANE | Sugar | -0.63% | -0.79% | 39.85% |
| BAL | Cotton | 1.20% | 13.68% | 45.53% |
| NIB | Cocoa | -1.57% | -11.70% | -9.26% |
| JO | Coffee | 1.10% | 2.98% | 55.31% |

Currencies Performance

| Ticker | Name | 1 Day | 1 Month | YTD |
|--------|------------------------|--------|---------|--------|
| UUP | Long Dollar | -0.24% | -0.36% | 3.84% |
| UDN | Short Dollar | 0.19% | 0.17% | -4.92% |
| FXE | Euro | 0.15% | -0.08% | -5.88% |
| FXB | British Pound Sterling | 0.46% | 0.87% | -0.34% |
| FXF | Swiss Franc | 0.33% | 1.98% | -3.86% |
| FXJ | Japanese Yen | -0.07% | -2.64% | -9.93% |
| FXC | Canadian Dollar | 0.21% | 2.12% | 2.48% |
| FXA | Australian Dollar | 0.25% | 2.60% | -3.64% |

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

Disclaimer of Warranties

Except for the express warranties set forth in the terms of service, all services, including all ETF Action materials, are provided on an “as is,” “where is” basis, and ETF Action and its licensors disclaim all representations or warranties, express or implied as to the services. ETF Action and its licensors specifically disclaim all implied warranties of merchantability, fitness for a particular purpose, title and non-infringement, and all warranties arising from course of dealing, usage or trade practice. Without limiting the foregoing, ETF Action and its licensors make no warranty of any kind that the services or ETF Action materials, or any products or results of the use thereof, will meet customer’s or any other person’s requirements, operate without interruption, achieve any intended result, be compatible or work with any software, system or other services, or be secure, accurate, complete, timely, free of harmful code or error free. All third-party materials are provided “as is” and any representation or warranty of or concerning any third-party materials is strictly between customer and the third-party owner or distributor of the third-party materials.

Additional Disclaimers

The services are not intended and should not be construed as financial or investment advice, a recommendation or promotion. Neither ETF Action nor its licensors shall be responsible for investment decisions, damages, or other losses *resulting from use of the services*. *Past performance* does not guarantee future performance. Neither ETF Action nor its licensors shall be considered an “expert” under the securities act of 1933. Neither ETF Action nor its licensors warrant that the services comply with the requirements of the NASD or any similar organization or with the securities laws of any jurisdiction. Any information contained in the services should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional.

Distribution prohibited without prior permission. Full terms of service, including terms of use, copyrights, and disclaimers are available at <https://www.etfaction.com/terms>.

© Copyright ETF Action, Inc. All Rights Reserved.

Data Reliability and Definitions

ETF Action, LLC believes the information herein to be accurate (at time of publication) and was obtained from reliable sources, but makes no guarantees with respect to its accuracy. Calculations of fundamental data are based on weighted averages of reported results and consensus estimates of current ETF constituents. Valuation data (price/earnings, price/sales, price/cash flow, price/book value) are calculated using per share data divided by current NAV of corresponding ETF. Performance, risk and technical data (moving averages, relative performance, RSI) calculated for specified periods using ETF market price which may differ from net asset value (NAV).

ETF Action Sector Beta Composites represent ETFs that meet stringent criteria surrounding index methodology, liquidity, assets under management, and management fee.

Source Data & ETF Issuer Information ..

ETF Action is an independent technology and research firm focused on helping advisors build better portfolios, create engaging experiences with their clients, and navigate the vast ETF landscape.

Contact us at:

team@etfaction.com

www.etfaction.com