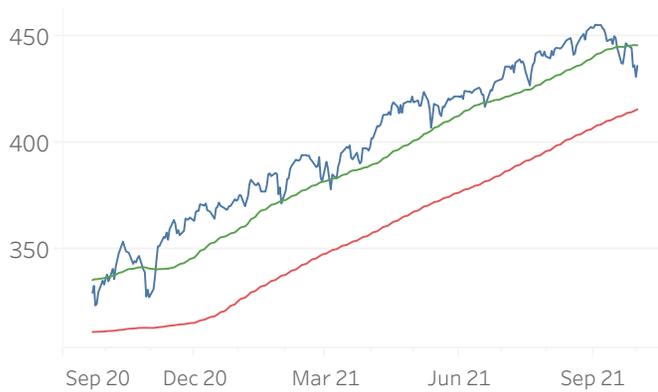
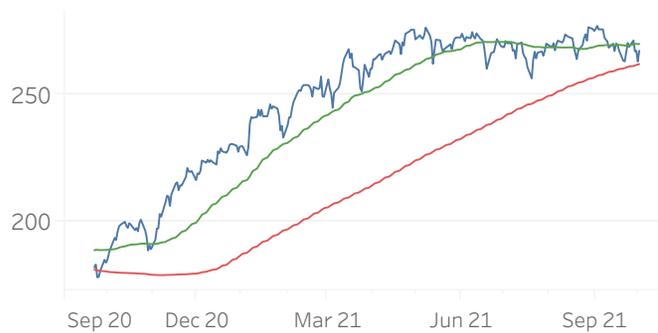


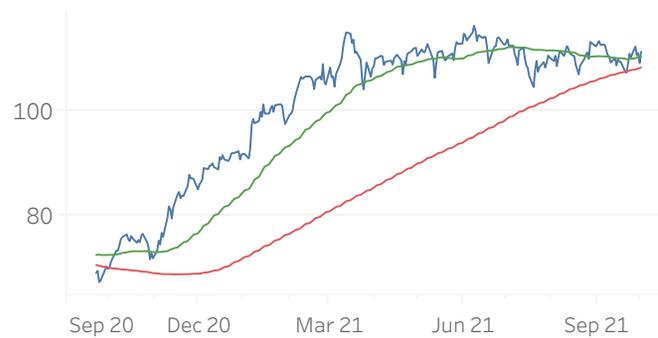
Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH



Small Cap Blend (S&P 600) IJR



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 | 2.65% |
| BBSC | JPMorgan BetaBuilders U.S. Small Cap Equity ETF | 2.54% |
| CSD | Invesco S&P Spin-Off ETF | 2.30% |
| SVAL | iShares US Small Cap Value Factor ETF | 2.23% |
| OMFS | Invesco Russell 2000 Dynamic Multifactor ETF | 2.23% |
| SPHB | Invesco S&P 500 High Beta ETF | 2.23% |
| SLYV | SPDR S&P 600 Small Cap Value ETF | 2.12% |
| DFAT | Dimensional U.S. Targeted Value ETF | 2.12% |
| RWJ | Invesco S&P SmallCap 600 Revenue ETF | 2.11% |
| DWAS | Invesco DWA SmallCap Momentum ETF | 2.11% |

Size & Style Most Overbought

| Ticker | Fund | Price |
|--------|--|-------|
| RZV | Invesco S&P Smallcap 600 Pure Value ETF | 59.29 |
| AVUV | Avantis U.S. Small Cap Value ETF | 58.39 |
| DWAS | Invesco DWA SmallCap Momentum ETF | 57.54 |
| SVAL | iShares US Small Cap Value Factor ETF | 57.48 |
| X SVM | Invesco S&P SmallCap Value with Momentum ETF | 57.33 |
| RWJ | Invesco S&P SmallCap 600 Revenue ETF | 57.17 |
| FDM | First Trust Dow Jones Select MicroCap Index Fund | 56.56 |
| RYJ | Invesco Raymond James SB-1 Equity ETF | 56.51 |
| SLYV | SPDR S&P 600 Small Cap Value ETF | 56.43 |
| VIOV | Vanguard S&P Small-Cap 600 Value ETF | 55.95 |

Size & Style 1-Day Performance Laggards

| Ticker | Fund | Performance |
|--------|--|-------------|
| FFTY | Innovator IBD 50 ETF | -0.53% |
| CSF | VictoryShares US Discovery Enhanced Volatility Wtd ETF | -0.50% |
| IPO | Renaissance IPO ETF | -0.34% |
| QQXT | First Trust Nasdaq-100 Ex-Technology Sector Index Fund | -0.13% |
| CLRG | IQ Chaikin U.S. Large Cap ETF | 0.00% |
| VSMV | VictoryShares US Multi-Factor Minimum Volatility ETF | 0.15% |
| QQQE | Direxion NASDAQ-100 Equal Weighted Index Shares | 0.19% |
| ALTL | Pacer Lunt Large Cap Alternator ETF | 0.19% |
| BUZZ | VanEck Social Sentiment ETF | 0.20% |
| FEVR | Inspire Faithward Large Cap Momentum ESG ETF | 0.24% |

Size & Style Most Oversold

| Ticker | Fund | Price |
|--------|--|-------|
| FCTR | First Trust Lunt U.S. Factor Rotation ETF | 32.34 |
| FLQL | Franklin LibertyQ U.S. Equity ETF | 32.40 |
| SPGP | Invesco S&P 500 GARP ETF | 32.41 |
| ALTL | Pacer Lunt Large Cap Alternator ETF | 32.78 |
| QQQE | Direxion NASDAQ-100 Equal Weighted Index Shares | 33.03 |
| UTRN | Vesper U.S. Large Cap Short-Term Reversal Strategy.. | 33.07 |
| DURA | VanEck Morningstar Durable Dividend ETF | 33.38 |
| QQEW | First Trust Nasdaq-100 Equal Weighted Index Fund | 33.76 |
| CLRG | IQ Chaikin U.S. Large Cap ETF | 33.87 |
| QLV | FlexShares US Quality Low Volatility Index Fund | 33.90 |

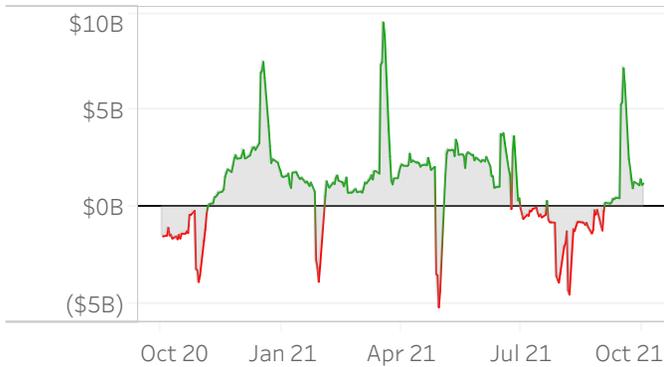
■ Closing Price
 ■ 50 Day Moving Average
 ■ 200 Day Moving Average

* 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 Growth, Beta: Value | 11 | \$195B | \$0.70B | \$3.52B | \$12.10B | \$32.12B |
| Small Cap, Beta, Beta: Growth | 7 | \$38B | \$0.26B | \$0.69B | \$0.31B | \$2.03B |
| Mid Cap, Beta, Beta | 10 | \$181B | \$0.21B | \$0.98B | \$2.79B | \$8.78B |
| Small Cap, Beta, Beta: Value | 7 | \$55B | \$0.17B | (\$1.06B) | \$0.50B | \$9.16B |
| Mid Cap, Beta, Beta: Value | 6 | \$40B | \$0.05B | (\$0.11B) | \$1.47B | \$4.02B |
| Mid Cap, Beta, Beta: Growth | 6 | \$39B | \$0.01B | \$0.05B | (\$1.20B) | (\$2.27B) |
| Large Cap, Beta Growth, Beta: Growth | 10 | \$249B | (\$0.02B) | \$6.03B | \$8.67B | \$3.85B |
| Small Cap, Beta, Beta | 12 | \$214B | (\$0.34B) | \$3.94B | \$3.39B | \$26.82B |
| Large Cap, Beta Growth, Beta | 24 | \$1,226B | (\$8.27B) | \$30.67B | \$50.79B | \$84.82B |

U.S. Size & Style Flow Leaders

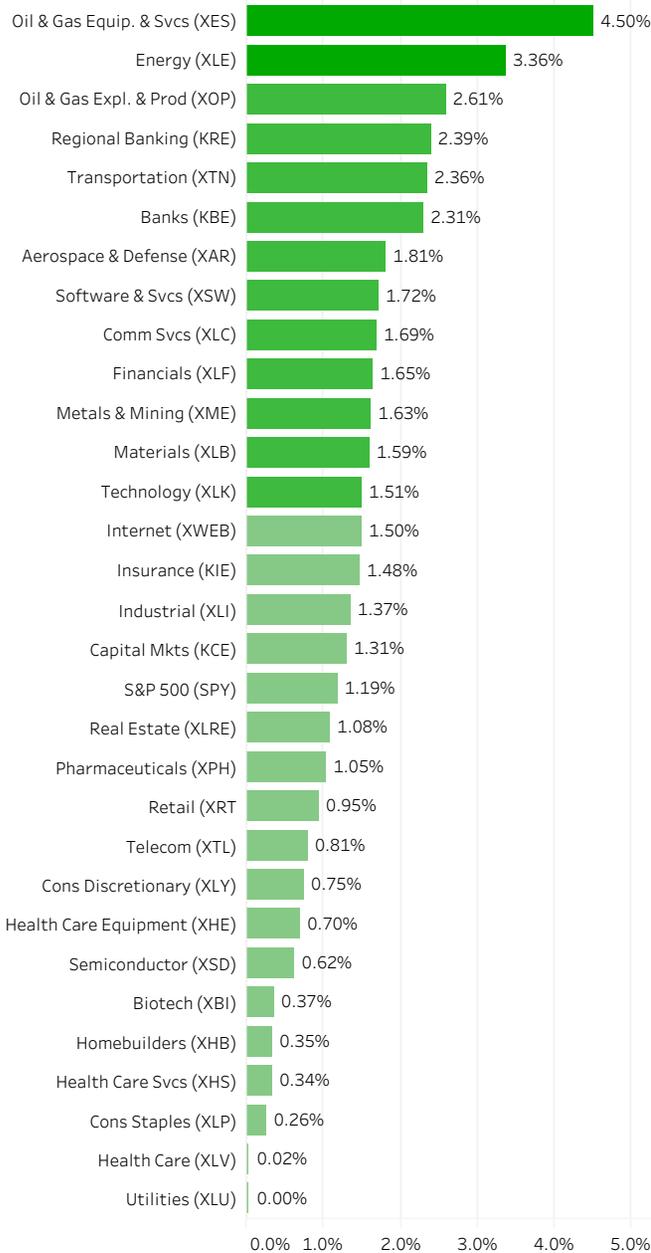
| Ticker | Fund | 1 Week | 3 Month | 6 Month | 1 Year | AUM |
|--------|---|---------|-----------|-----------|-----------|-----------|
| VTI | Vanguard Total Stock Market ETF | \$1.11B | \$11.35B | \$22.04B | \$46.16B | \$263.08B |
| IJR | iShares Core S&P Small Cap ETF | \$0.57B | (\$0.34B) | \$0.02B | \$4.05B | \$68.83B |
| IWF | iShares Russell 1000 Growth ETF | \$0.56B | \$1.55B | \$0.30B | (\$1.83B) | \$71.42B |
| SCHD | Schwab US Dividend Equity ETF | \$0.54B | \$2.42B | \$6.37B | \$10.61B | \$27.93B |
| MTUM | iShares MSCI USA Momentum Factor ETF | \$0.44B | (\$0.16B) | \$0.06B | \$0.80B | \$15.34B |
| VTV | Vanguard Value ETF | \$0.30B | \$2.30B | \$7.82B | \$15.59B | \$82.70B |
| VXF | Vanguard Extended Market ETF | \$0.23B | \$0.38B | \$1.25B | \$2.90B | \$17.29B |
| IWD | iShares Russell 1000 Value ETF | \$0.22B | \$0.10B | \$0.32B | \$4.89B | \$53.18B |
| DIA | SPDR Dow Jones Industrial Average ETF Trust | \$0.20B | (\$1.48B) | (\$0.64B) | \$0.54B | \$28.64B |
| VB | Vanguard Small-Cap ETF | \$0.20B | \$1.13B | \$2.57B | \$6.30B | \$46.90B |

U.S. Size & Style Flow Laggards

| Ticker | Fund | 1 Week | 3 Month | 6 Month | 1 Year | AUM |
|--------|--|-----------|-----------|-----------|-----------|-----------|
| IVV | iShares Core S&P 500 ETF | (\$4.75B) | (\$0.35B) | \$2.58B | \$11.01B | \$286.71B |
| IWM | iShares Russell 2000 ETF | (\$1.27B) | \$1.21B | (\$1.87B) | \$9.32B | \$66.90B |
| QQQ | Invesco QQQ Trust | (\$0.46B) | \$4.94B | \$8.85B | \$8.35B | \$182.46B |
| SPYG | SPDR Portfolio S&P 500 Growth ETF | (\$0.38B) | \$0.91B | \$2.48B | \$1.90B | \$13.49B |
| VOO | Vanguard S&P 500 ETF | (\$0.29B) | \$13.63B | \$24.00B | \$39.25B | \$246.96B |
| NOBL | ProShares S&P 500 Dividend Aristocrats ETF | (\$0.21B) | \$0.25B | \$0.63B | \$1.05B | \$8.63B |
| FLQL | Franklin LibertyQ U.S. Equity ETF | (\$0.12B) | (\$0.30B) | (\$0.52B) | (\$0.60B) | \$0.92B |
| DGRO | iShares Core Dividend Growth ETF | (\$0.11B) | \$0.59B | \$1.62B | \$4.53B | \$19.76B |
| IWW | iShares S&P 500 Growth ETF | (\$0.10B) | \$0.26B | (\$0.32B) | (\$2.81B) | \$35.04B |
| IWB | iShares Russell 1000 ETF | (\$0.10B) | (\$0.06B) | \$0.30B | (\$0.27B) | \$29.65B |

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

S&P Sector & Industry 1 Day Performance



Select Sector SPDRs Technicals

| Ticker | Fund Name | % From 52W High | % From 52W Low | % Abv/Below 50 SMA | % Abv/Below 200 SMA | RSI (14D) |
|--------|--|-----------------|----------------|--------------------|---------------------|-----------|
| XLF | Financial Select Sector SPDR Fund | -2.18% | 61.58% | 1.00% | 8.18% | 53.23 |
| XLY | Consumer Discretionary Select Sector SPDR Fund | -2.74% | 26.46% | -0.65% | 3.99% | 45.59 |
| SPY | SPDR S&P 500 ETF Trust | -4.18% | 32.98% | -2.11% | 4.86% | 41.44 |
| XLE | Energy Select Sector SPDR Fund | -4.18% | 94.30% | 9.51% | 9.91% | 66.75 |
| XLK | Technology Select Sector SPDR Fund | -5.09% | 36.72% | -2.45% | 6.72% | 40.99 |
| XLC | Communication Services Select Sector SPDR Fund | -5.33% | 38.68% | -2.09% | 5.65% | 43.04 |
| XLP | Consumer Staples Select Sector SPDR Fund | -5.41% | 10.86% | -3.53% | 0.02% | 33.17 |
| XLI | Industrial Select Sector SPDR Fund | -6.02% | 32.47% | -3.42% | 0.46% | 40.89 |
| XLV | Health Care Select Sector SPDR Fund | -6.96% | 25.25% | -4.45% | 3.31% | 29.95 |
| XLRE | Real Estate Select Sector SPDR Fund | -7.80% | 32.22% | -3.83% | 6.39% | 36.09 |
| XLU | Utilities Select Sector SPDR Fund | -8.83% | 9.46% | -5.32% | -1.34% | 29.25 |
| XLB | Materials Select Sector SPDR Fund | -9.37% | 29.75% | -3.82% | -0.51% | 40.93 |

Sector & Industry 1 Day Performance Leaders

| Ticker | Fund | Performance |
|--------|---|-------------|
| XES | SPDR S&P Oil & Gas Equipment & Services ETF | 4.50% |
| PEJ | Invesco Dynamic Leisure & Entertainment ETF | 3.44% |
| XLE | Energy Select Sector SPDR Fund | 3.36% |
| IEZ | iShares U.S. Oil Equipment & Services ETF | 3.29% |
| RYE | Invesco S&P 500 Equal Weight Energy ETF | 3.19% |
| FENY | Fidelity MSCI Energy Index ETF | 3.12% |
| VDE | Vanguard Energy ETF | 3.09% |
| IYE | iShares U.S. Energy ETF | 3.08% |
| IEO | iShares U.S. Oil & Gas Exploration & Production ETF | 3.06% |
| PXI | Invesco DWA Energy Momentum ETF | 3.04% |

Sector & Industry Most Overbought

| Ticker | Fund | RSI (14D) |
|--------|---|-----------|
| PXI | Invesco DWA Energy Momentum ETF | 73.05 |
| FCG | First Trust Natural Gas ETF | 72.12 |
| IEO | iShares U.S. Oil & Gas Exploration & Production ETF | 71.82 |
| PXE | Invesco Dynamic Energy Exploration & Production ETF | 71.18 |
| XOP | SPDR S&P Oil & Gas Exploration & Production ETF | 69.90 |
| PSCE | Invesco S&P SmallCap Energy ETF | 69.65 |
| RYE | Invesco S&P 500 Equal Weight Energy ETF | 69.11 |
| FXN | First Trust Energy AlphaDEX Fund | 68.19 |
| FENY | Fidelity MSCI Energy Index ETF | 67.64 |
| XLE | Energy Select Sector SPDR Fund | 66.75 |

Sector & Industry 1 Day Performance Laggards

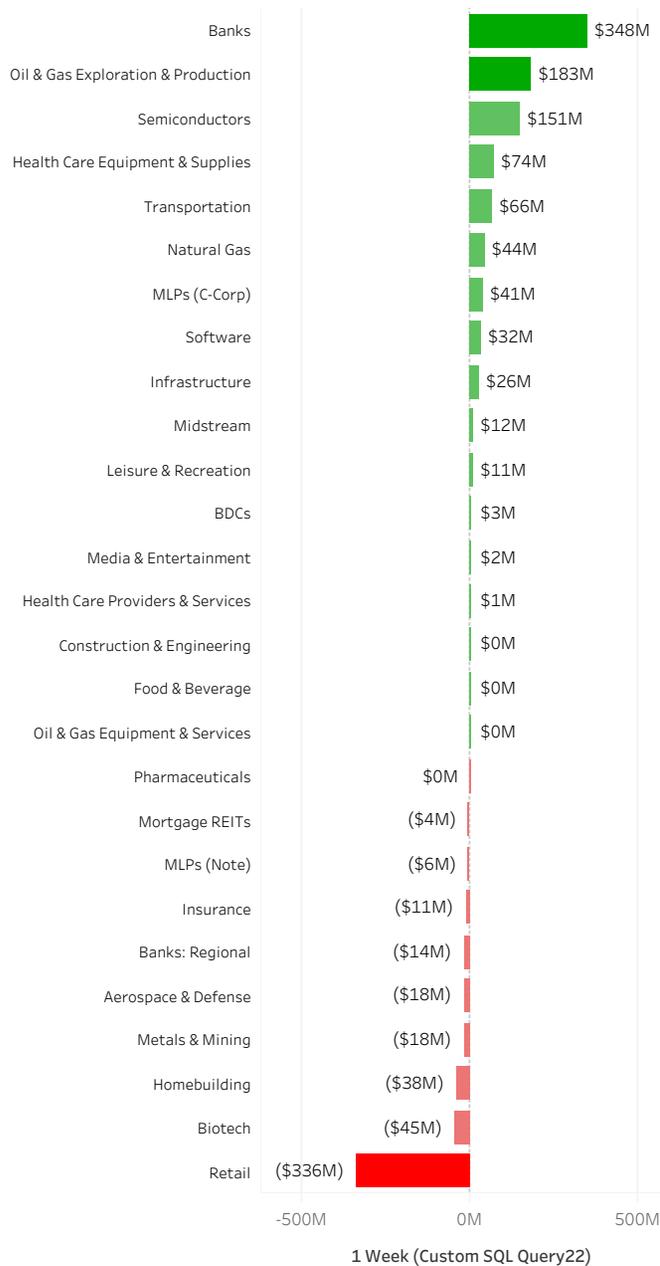
| Ticker | Fund | Performance |
|--------|--|-------------|
| IBB | iShares Biotechnology ETF | -1.70% |
| FXH | First Trust Health Care AlphaDEX Fund | -0.66% |
| FBT | First Trust NYSE Arca Biotechnology Index Fund | -0.30% |
| PBE | Invesco Dynamic Biotechnology & Genome ETF | -0.28% |
| JHMH | John Hancock Multifactor Healthcare ETF | -0.18% |
| RYU | Invesco S&P 500 Equal Weight Utilities ETF | -0.12% |
| IYH | iShares U.S. Healthcare ETF | -0.01% |
| XLU | Utilities Select Sector SPDR Fund | 0.00% |
| XLV | Health Care Select Sector SPDR Fund | 0.02% |
| PTH | Invesco DWA Healthcare Momentum ETF | 0.03% |

Sector & Industry Most Oversold

| Ticker | Fund | RSI (14D) |
|--------|--|-----------|
| VPU | Vanguard Utilities ETF | 24.63 |
| RYU | Invesco S&P 500 Equal Weight Utilities ETF | 27.78 |
| FXH | First Trust Health Care AlphaDEX Fund | 28.70 |
| XLU | Utilities Select Sector SPDR Fund | 29.25 |
| JHMH | John Hancock Multifactor Healthcare ETF | 29.37 |
| IDU | iShares U.S. Utilities ETF | 29.41 |
| IBB | iShares Biotechnology ETF | 29.62 |
| IYH | iShares U.S. Healthcare ETF | 29.81 |
| FUTY | Fidelity MSCI Utilities Index ETF | 29.93 |
| XLV | Health Care Select Sector SPDR Fund | 29.95 |

* 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 | \$101M | \$1,763M | \$2,186M | \$2,632M |
| Consumer Discretionary | 13 | \$33B | (\$433M) | (\$971M) | (\$504M) | \$2,887M |
| Consumer Staples | 12 | \$20B | (\$115M) | \$722M | \$1,037M | (\$3,279M) |
| Energy | 34 | \$51B | \$952M | (\$612M) | \$653M | \$11,662M |
| Financials | 28 | \$77B | \$329M | (\$1,097M) | \$1,499M | \$22,345M |
| Health Care | 25 | \$87B | (\$918M) | \$3,614M | \$4,552M | \$3,269M |
| Industrial | 14 | \$34B | \$205M | (\$2,643M) | (\$3,469M) | \$3,671M |
| Materials | 10 | \$15B | (\$22M) | (\$1,998M) | \$1,703M | \$5,580M |
| Multi-Sector | 16 | \$24B | (\$13M) | \$355M | \$1,164M | \$3,106M |
| Real Estate | 21 | \$72B | (\$10M) | \$3,016M | \$7,996M | \$13,207M |
| Technology | 24 | \$136B | \$394M | \$2,431M | \$3,156M | \$2,259M |
| Utilities | 10 | \$19B | (\$251M) | \$572M | \$367M | \$184M |

U.S. Sector & Industry Flow Leaders

| Ticker | Fund | 1 Week | 3 Month | 6 Month | 1 Year | AUM |
|--------|---|--------|------------|------------|------------|-----------|
| XLE | Energy Select Sector SPDR Fund | \$591M | \$455M | \$1,319M | \$8,589M | \$25,084M |
| XLK | Technology Select Sector SPDR Fund | \$264M | \$120M | \$49M | (\$248M) | \$43,023M |
| KBWB | Invesco KBW Bank ETF | \$244M | \$860M | \$844M | \$1,746M | \$3,270M |
| XOP | SPDR S&P Oil & Gas Exploration & Production E.. | \$177M | (\$77M) | (\$310M) | \$145M | \$3,955M |
| XLI | Industrial Select Sector SPDR Fund | \$167M | (\$1,202M) | (\$2,742M) | \$1,394M | \$17,367M |
| SOXX | iShares Semiconductor ETF | \$114M | \$511M | \$627M | \$1,732M | \$7,223M |
| XLC | Communication Services Select Sector SPDR Fu.. | \$101M | \$1,243M | \$1,360M | \$1,472M | \$15,176M |
| KBE | SPDR S&P Bank ETF | \$99M | (\$123M) | (\$570M) | \$822M | \$3,305M |
| VFH | Vanguard Financials ETF | \$84M | (\$213M) | \$545M | \$1,678M | \$10,827M |
| IHI | iShares U.S. Medical Devices ETF | \$74M | \$359M | (\$816M) | (\$1,694M) | \$8,413M |

U.S. Sector & Industry Flow Laggards

| Ticker | Fund | 1 Week | 3 Month | 6 Month | 1 Year | AUM |
|--------|--|----------|------------|------------|------------|-----------|
| XLV | Health Care Select Sector SPDR Fund | (\$963M) | \$2,057M | \$3,545M | \$1,782M | \$30,359M |
| XRT | SPDR S&P Retail ETF | (\$338M) | (\$329M) | \$194M | \$181M | \$759M |
| XLU | Utilities Select Sector SPDR Fund | (\$243M) | \$347M | \$24M | (\$176M) | \$11,957M |
| XLY | Consumer Discretionary Select Sector SPDR Fu.. | (\$136M) | (\$681M) | (\$1,061M) | \$285M | \$19,634M |
| XLF | Financial Select Sector SPDR Fund | (\$129M) | (\$1,261M) | (\$1,672M) | \$11,811M | \$40,413M |
| IYR | iShares U.S. Real Estate ETF | (\$118M) | \$462M | \$2,108M | \$2,593M | \$7,236M |
| XLP | Consumer Staples Select Sector SPDR Fund | (\$114M) | \$510M | \$958M | (\$2,701M) | \$11,758M |
| VGT | Vanguard Information Technology ETF | (\$90M) | \$469M | \$1,600M | \$1,123M | \$48,235M |
| XHB | SPDR S&P Homebuilders ETF | (\$76M) | (\$272M) | (\$162M) | (\$155M) | \$1,608M |
| IBB | iShares Biotechnology ETF | (\$54M) | (\$220M) | (\$78M) | (\$360M) | \$10,515M |

* 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



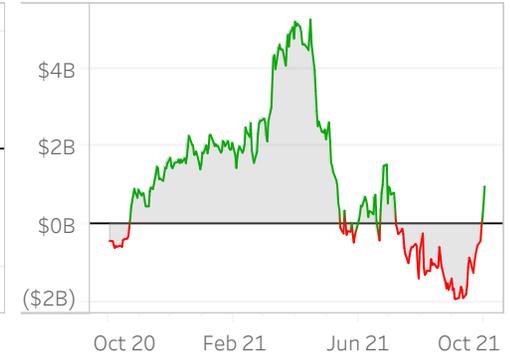
Consumer Discretionary



Consumer Staples



Energy



Financials



Industrial



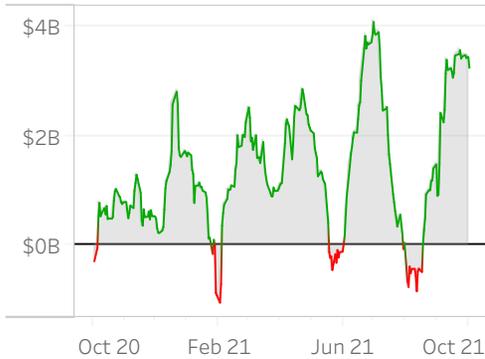
Health Care



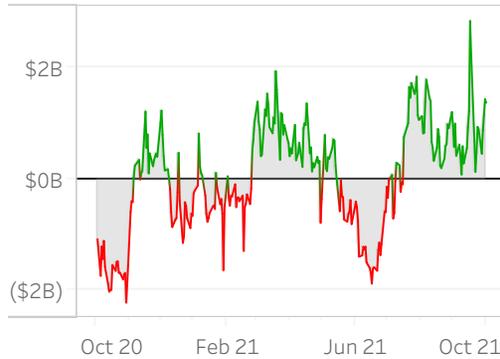
Materials



Real Estate



Technology



Utilities

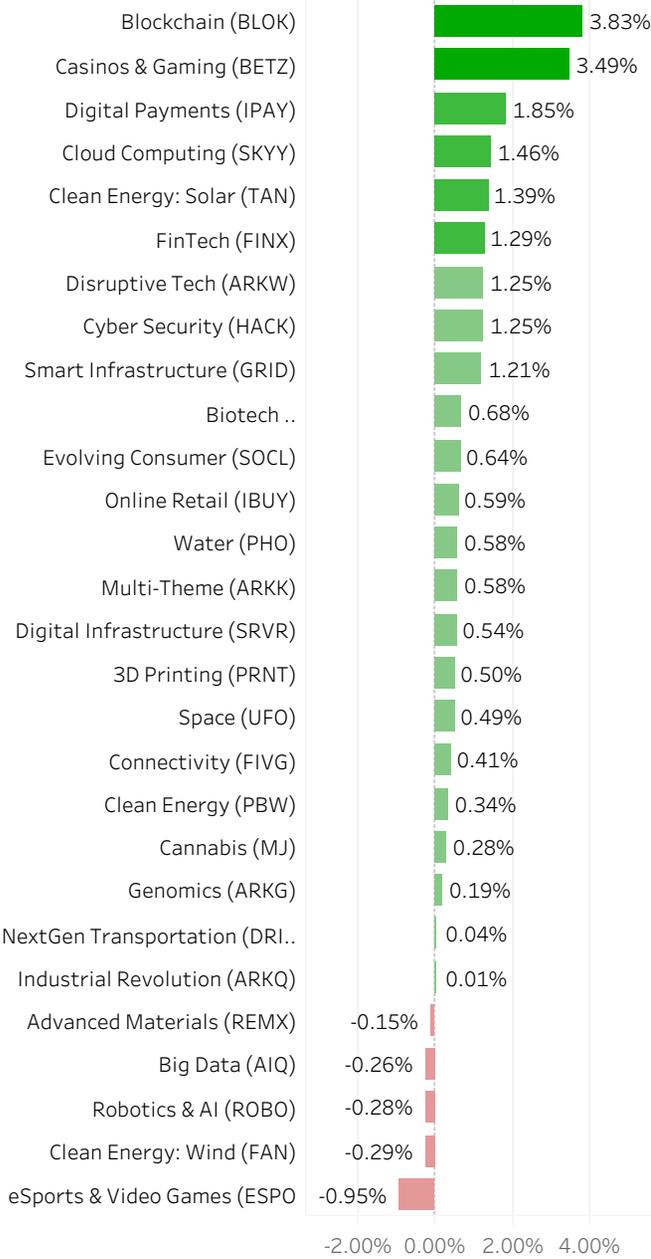


Multi-Sector

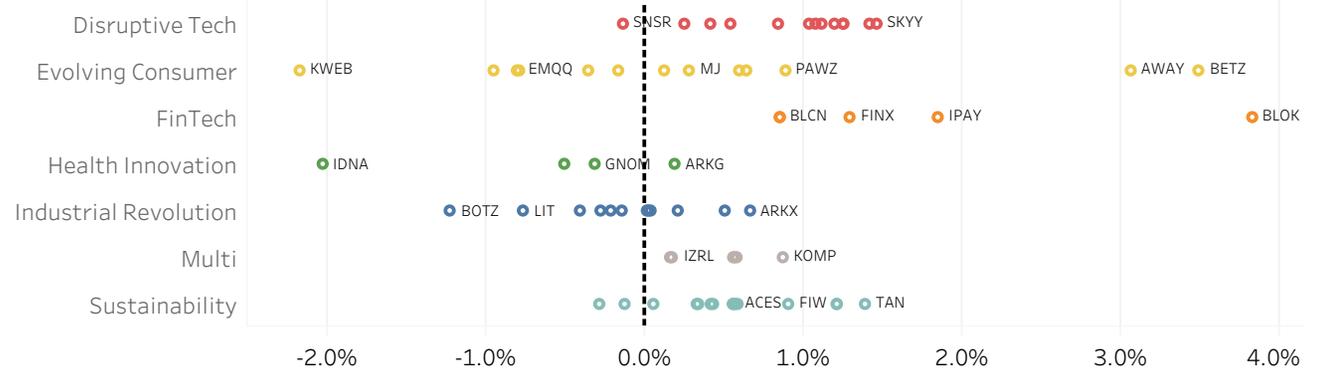


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

| Ticker | Fund | Performance |
|--------|--|-------------|
| BITQ | Bitwise Crypto Industry Innovators ETF | 4.25% |
| BLOK | Amplify Transformational Data Sharing ETF | 3.83% |
| BETZ | Roundhill Sports Betting & iGaming ETF | 3.49% |
| AWAY | ETFMG Travel Tech ETF | 3.06% |
| BJK | VanEck Gaming ETF | 2.63% |
| IPAY | ETFMG Prime Mobile Payments ETF | 1.85% |
| RNRG | Global X Funds Global X Renewable Energy Producers ETF | 1.47% |
| SKYY | First Trust Cloud Computing ETF | 1.46% |
| WFH | Direxion Work From Home ETF | 1.43% |
| CIBR | First Trust NASDAQ Cybersecurity ETF | 1.42% |

Thematic Most Overbought

| Ticker | Fund | Value |
|--------|---|-------|
| AWAY | ETFMG Travel Tech ETF | 66.71 |
| BETZ | Roundhill Sports Betting & iGaming ETF | 52.53 |
| UFO | Procore Space ETF | 50.74 |
| BJK | VanEck Gaming ETF | 48.97 |
| CNRG | SPDR S&P Kensho Clean Power ETF | 47.57 |
| SBIO | ALPS Medical Breakthroughs ETF | 47.48 |
| EVX | VanEck Environmental Services ETF | 47.13 |
| LIT | Global X Lithium & Battery Tech ETF | 46.21 |
| BLOK | Amplify Transformational Data Sharing ETF | 46.15 |
| TAN | Invesco Solar ETF | 45.98 |

Global Thematic 1-Day Performance Laggards

| Ticker | Fund | Performance |
|--------|--|-------------|
| GERM | ETFMG Treatments Testing and Advancements ETF | -4.69% |
| KWEB | KraneShares CSI China Internet ETF | -2.18% |
| IDNA | iShares Genomics Immunology and Healthcare ETF Geno.. | -2.03% |
| KFVG | KraneShares CICC China 5G & Semiconductor Index ETF | -1.64% |
| POTX | Global X Cannabis ETF | -1.34% |
| BOTZ | Global X Robotics & Artificial Intelligence ETF | -1.23% |
| THCX | Cannabis ETF | -1.17% |
| ESPO | VanEck Video Gaming and eSports ETF | -0.95% |
| NERD | Roundhill BITKRAFT Esports & Digital Entertainment ETF | -0.82% |
| EMQQ | Emerging Markets Internet & Ecommerce ETF | -0.81% |

Thematic Most Oversold

| Ticker | Fund | Value |
|---------|--|-------|
| PIO | Invesco Global Water ETF | 24.81 |
| EBLU | Ecofin Global Water ESG Fund | 28.17 |
| CGW | Invesco S&P Global Water Index ETF | 29.50 |
| GERM | ETFMG Treatments Testing and Advancements ETF | 30.74 |
| HTEC | ROBO Global Healthcare Technology and Innovation ETF | 30.96 |
| SRVR | Pacer Benchmark Data & Infrastructure Real Estate SCTR.. | 31.14 |
| INVE... | Knowledge Leaders Developed World ETF | 31.62 |
| HERO | Global X Video Games & Esports ETF | 31.62 |
| ROBO | ROBO Global Robotics & Automation Index ETF | 31.67 |
| EDOC | Global X Telemedicine & Digital Health ETF | 31.83 |

* 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 |
|--------|---|-------|
| PAWZ | ProShares Pet Care ETF | \$66M |
| KWEB | KraneShares CSI China Internet ETF | \$50M |
| AWAY | ETFMG Travel Tech ETF | \$30M |
| FIW | First Trust Water ETF | \$17M |
| CLOU | Global X Cloud Computing ETF | \$15M |
| ROBT | First Trust Nasdaq Artificial Intelligence & Robotics ETF | \$13M |
| CIBR | First Trust NASDAQ Cybersecurity ETF | \$13M |
| MSOS | AdvisorShares Pure US Cannabis ETF | \$13M |
| ANEW | ProShares MSCI Transformational Changes ETF | \$12M |
| GRID | First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index | \$10M |

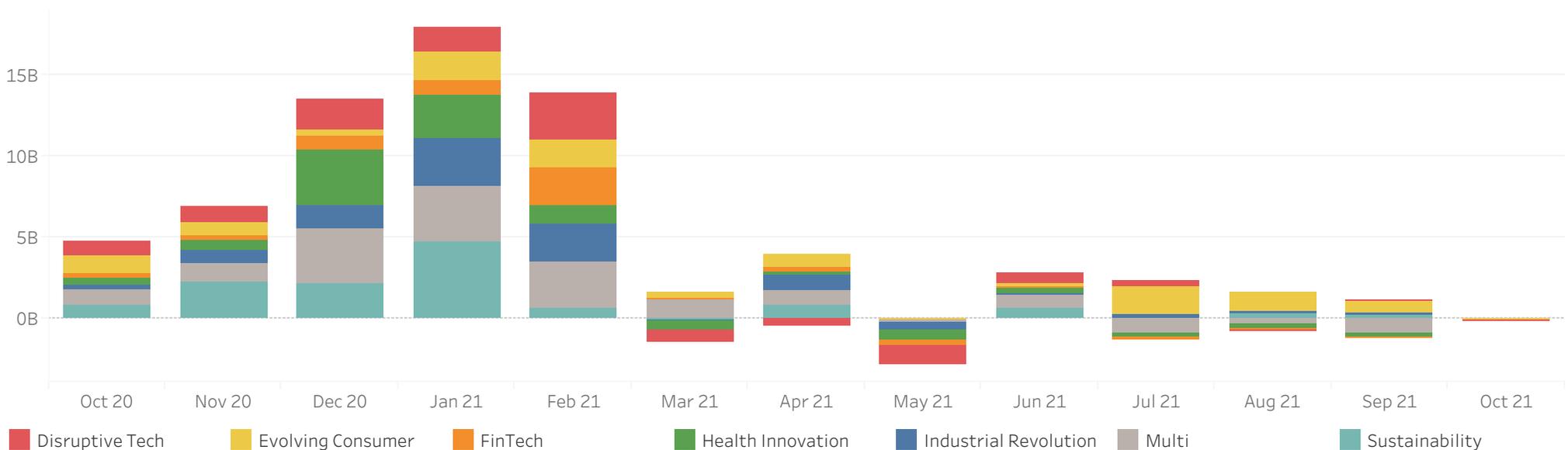
Thematic 1 Week Flow Laggards

| Ticker | Fund | Flow |
|--------|---|----------|
| ARKK | ARK Innovation ETF | (\$680M) |
| ARKG | ARK Genomic Revolution ETF | (\$173M) |
| ARKW | ARK Next Generation Internet ETF | (\$163M) |
| ARKF | ARK Fintech Innovation ETF | (\$63M) |
| PBW | Invesco WilderHill Clean Energy ETF | (\$51M) |
| ARKQ | ARK Autonomous Technology & Robotics ETF | (\$32M) |
| TAN | Invesco Solar ETF | (\$32M) |
| IBUY | Amplify Online Retail ETF | (\$29M) |
| WCLD | WisdomTree Cloud Computing Fund | (\$21M) |
| DRIV | Global X Autonomous & Electric Vehicles ETF | (\$15M) |

Thematic Landscape Assets & Flows

| Segment | Funds | AUM | 1 Week | 3 Month | 6 Month | 1 Year |
|-----------------------|------------|---------------|-----------------|-----------------|-----------------|------------------|
| Disruptive Tech | 29 | \$28B | (\$159M) | \$339M | (\$621M) | \$6,799M |
| Evolving Consumer | 39 | \$16B | \$77M | \$3,516M | \$4,667M | \$10,745M |
| FinTech | 14 | \$8B | (\$41M) | (\$301M) | (\$199M) | \$4,620M |
| Health Innovation | 14 | \$9B | (\$95M) | (\$813M) | (\$891M) | \$6,956M |
| Industrial Revolution | 22 | \$17B | (\$36M) | \$556M | \$801M | \$8,447M |
| Multi | 28 | \$28B | (\$554M) | (\$1,641M) | (\$1,268M) | \$12,405M |
| Sustainability | 33 | \$22B | (\$76M) | \$443M | \$1,808M | \$12,736M |
| Grand Total | 179 | \$127B | (\$885M) | \$2,098M | \$4,295M | \$62,707M |

Thematic Monthly Flows

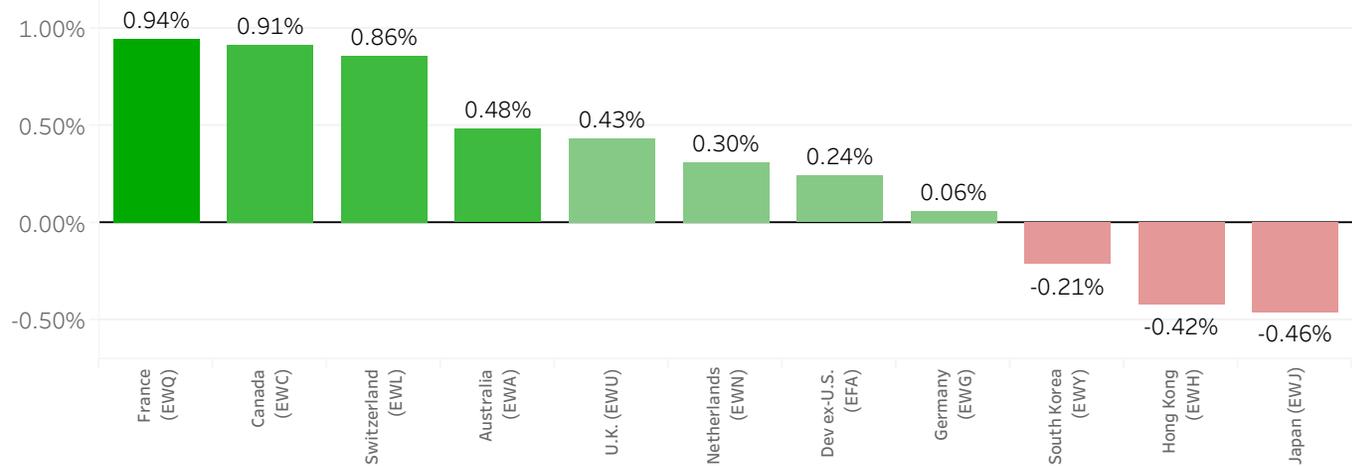


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

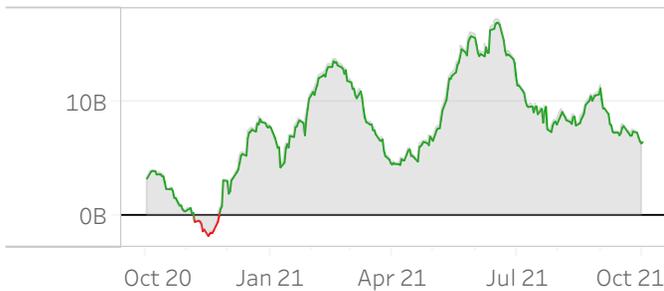
Developed ex-U.S. (EFA)



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



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



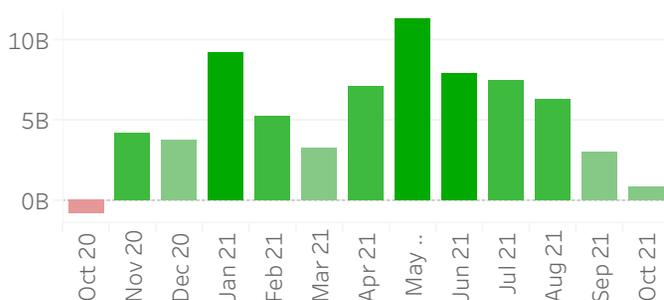
Developed ex-U.S. 1-Day Performance Leaders

| Ticker | Fund | 1-Day Performance |
|--------|---------------------------------------|-------------------|
| GREK | Global X MSCI Greece ETF | 1.92% |
| EIRL | iShares MSCI Ireland ETF | 1.54% |
| ENZL | iShares MSCI New Zealand ETF | 1.47% |
| EWO | iShares MSCI Austria ETF | 1.37% |
| EWD | iShares MSCI Sweden ETF | 1.00% |
| EWQ | iShares MSCI France ETF | 0.94% |
| EWC | iShares MSCI Canada ETF | 0.91% |
| EWL | iShares MSCI Switzerland ETF | 0.86% |
| IEUS | iShares MSCI Europe Small-Cap ETF | 0.85% |
| FSZ | First Trust Switzerland AlphaDEX Fund | 0.84% |

Developed ex-U.S. Most Overbought

| Ticker | Fund | Value |
|--------|--|-------|
| EWO | iShares MSCI Austria ETF | 50.98 |
| ENZL | iShares MSCI New Zealand ETF | 48.74 |
| EIS | iShares MSCI Israel ETF | 46.74 |
| EWC | iShares MSCI Canada ETF | 46.02 |
| EWU | iShares MSCI United Kingdom ETF | 45.64 |
| FNDF | Schwab Fundamental International Large Co. Index ETF | 45.56 |
| DXJ | WisdomTree Japan Hedged Equity Fund | 45.21 |
| EWS | iShares MSCI Singapore ETF | 45.04 |
| BBCA | JPMorgan BetaBuilders Canada ETF | 44.66 |
| FLGB | Franklin FTSE United Kingdom ETF | 44.61 |

Developed ex-U.S. Monthly Flows



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

| Ticker | Fund | 1-Day Performance |
|--------|---|-------------------|
| DBJP | Xtrackers MSCI Japan Hedged Equity ETF | -0.79% |
| HEWJ | iShares Currency Hedged MSCI Japan ETF | -0.77% |
| DFJ | WisdomTree Japan SmallCap Dividend Fund | -0.73% |
| DXJ | WisdomTree Japan Hedged Equity Fund | -0.63% |
| AIA | iShares Asia 50 ETF | -0.58% |
| SCJ | iShares MSCI Japan Small-Cap ETF | -0.56% |
| JPNX | iShares JPX-Nikkei 400 ETF | -0.54% |
| FLJP | Franklin FTSE Japan ETF | -0.51% |
| EWJ | iShares MSCI Japan ETF | -0.46% |
| EWH | iShares MSCI Hong Kong ETF | -0.42% |

Developed ex-U.S. Most Oversold

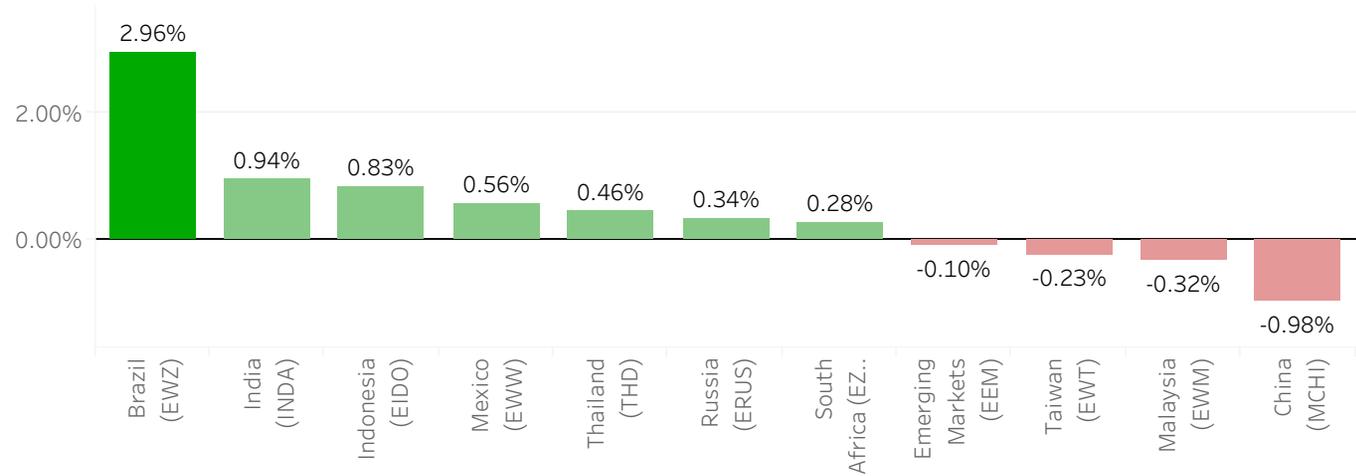
| Ticker | Fund | Value |
|--------|---|-------|
| RFDI | First Trust Riverfront Dynamic Developed Internatio.. | 24.14 |
| EFV | iShares MSCI EAFE Min Vol Factor ETF | 27.58 |
| PIZ | Invesco DWA Developed Markets Momentum ETF | 27.59 |
| EFAD | ProShares MSCI EAFE Dividend Growers ETF | 27.79 |
| EUDG | WisdomTree Europe Quality Dividend Growth Fund | 27.85 |
| QLVD | FlexShares Developed Markets ex-US Quality Low V.. | 28.14 |
| IQDG | WisdomTree International Quality Dividend Growth .. | 28.54 |
| IHDG | WisdomTree International Hedged Quality Dividend .. | 28.84 |
| FGM | First Trust Germany AlphaDEX Fund | 29.41 |
| HDEF | Xtrackers MSCI EAFE High Dividend Yield Equity ETF | 29.78 |

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

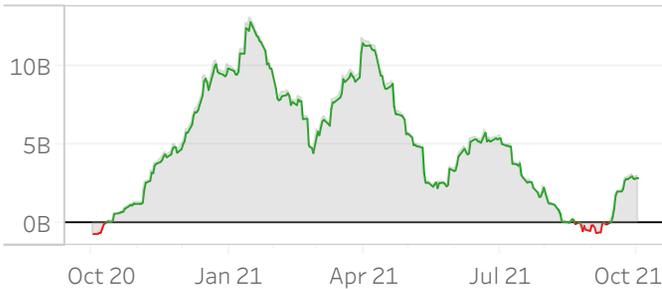
Emerging (EEM)



Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



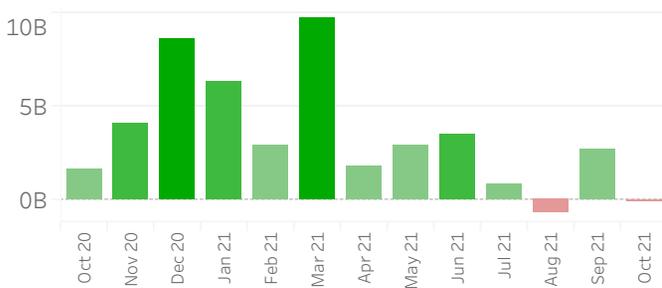
Emerging 1-Day Performance Leaders

| Ticker | Fund | Performance |
|--------|-----------------------------------|-------------|
| EWZS | iShares MSCI Brazil Small-Cap ETF | 3.76% |
| EWZ | iShares MSCI Brazil ETF | 2.96% |
| FLBR | Franklin FTSE Brazil ETF | 2.88% |
| EPOL | iShares MSCI Poland ETF | 2.65% |
| ILF | iShares Latin America 40 ETF | 2.15% |
| SMIN | iShares MSCI India Small Cap ETF | 1.86% |
| EPHE | iShares MSCI Philippines ETF | 1.55% |
| GLIN | VanEck India Growth Leaders ETF | 1.41% |
| EPI | WisdomTree India Earnings Fund | 1.23% |
| ECH | iShares MSCI Chile ETF | 1.15% |

Emerging Most Overbought

| Ticker | Fund | Value |
|--------|---|-------|
| QAT | iShares MSCI Qatar ETF | 74.68 |
| SMIN | iShares MSCI India Small Cap ETF | 62.95 |
| EIDO | iShares MSCI Indonesia ETF | 62.56 |
| ERUS | iShares MSCI Russia ETF | 62.08 |
| KSA | iShares MSCI Saudi Arabia ETF | 61.58 |
| EPI | WisdomTree India Earnings Fund | 61.35 |
| INDY | iShares India 50 ETF | 58.05 |
| RSX | VanEck Russia ETF | 57.17 |
| NFTY | First Trust India NIFTY 50 Equal Weight ETF | 56.45 |
| PIN | Invesco India ETF | 54.64 |

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

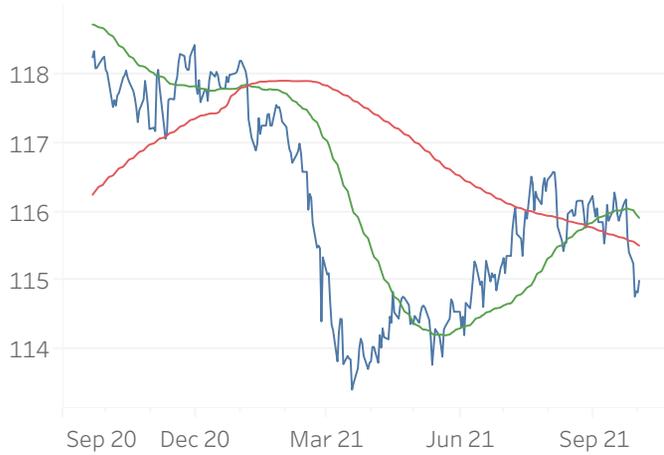
| Ticker | Fund | Performance |
|--------|--|-------------|
| PGJ | Invesco Golden Dragon China ETF | -1.37% |
| ECNS | iShares MSCI China Small-Cap ETF | -1.08% |
| CXSE | WisdomTree China ex-State-Owned Enterprises Fund | -1.05% |
| GXC | SPDR S&P China ETF | -1.00% |
| FLCH | Franklin FTSE China ETF | -0.99% |
| MCHI | iShares MSCI China ETF | -0.98% |
| KBA | KraneShares Boser MSCI China A Share ETF | -0.96% |
| CNYA | iShares MSCI China A ETF | -0.95% |
| PIE | Invesco DWA Emerging Markets Momentum ETF | -0.95% |
| ASHR | Xtrackers Harvest CSI 300 China A-Shares ETF | -0.92% |

Emerging Most Oversold

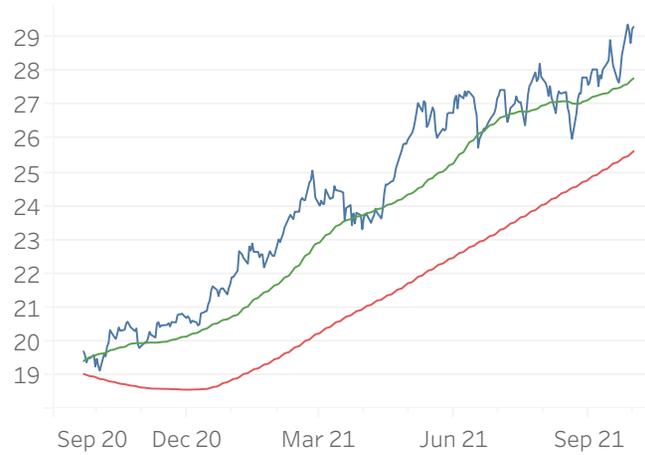
| Ticker | Fund | Value |
|--------|---|-------|
| ADRE | Invesco BLDRS Emerging Markets 50 ADR Index Fund | 33.99 |
| EYLD | Cambria Emerging Shareholder Yield ETF | 34.52 |
| MFEM | PIMCO RAFI Dynamic Multi-Factor Emerging Market.. | 36.50 |
| GEM | Goldman Sachs ActiveBeta Emerging Markets Equit.. | 37.08 |
| PIE | Invesco DWA Emerging Markets Momentum ETF | 37.57 |
| FNI | First Trust Chindia ETF | 37.62 |
| TUR | iShares MSCI Turkey ETF | 37.68 |
| DGRE | WisdomTree Emerging Markets Quality Dividend Gr.. | 37.74 |
| PGJ | Invesco Golden Dragon China ETF | 37.83 |
| FEMS | First Trust Emerging Markets Small Cap AlphaDEX F.. | 37.85 |

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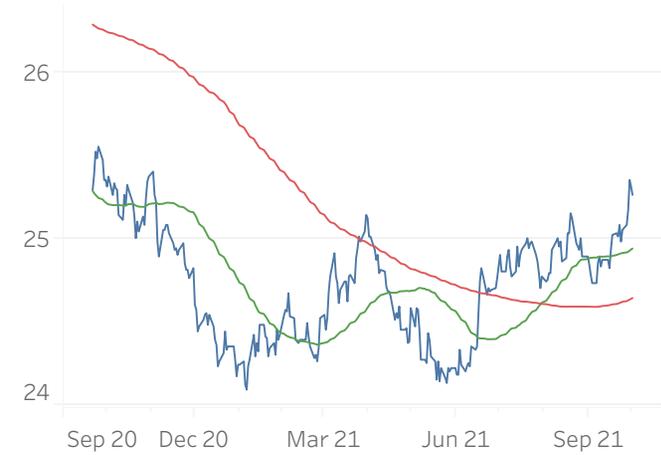
Fixed Income (AGG)



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 | 0.30% | -0.65% | -1.37% |
| SHY | 1-3 Year Treasury Bonds | 0.05% | -0.05% | -0.06% |
| IEF | 7-10 Year Treasury Bonds | 0.41% | -1.24% | -3.05% |
| TLT | 20+ Year Treasury Bonds | 0.84% | -2.25% | -6.77% |
| TIP | TIPS Bonds | 0.43% | -0.39% | 3.65% |
| FLOT | Floating Rate Bonds | -0.09% | 0.05% | 0.45% |
| LQD | Investment Grade Corporate | 0.73% | -0.92% | -1.50% |
| HYG | High Yield Corporate | 0.24% | -0.22% | 3.20% |
| BKLN | Senior Loan | 0.23% | 0.16% | 1.81% |
| PFF | Preferred & Income Securities | -0.06% | -1.48% | 3.95% |
| MUB | Municipal Bonds | 0.04% | -0.67% | 0.38% |
| MBB | MBS | 0.15% | -0.19% | -0.65% |
| EMB | Dollar Denominated EM Bonds | -0.02% | -2.83% | -2.65% |
| LEMB | Local Currency EM Bond | 0.61% | -2.58% | -5.81% |

Commodities Performance

| Ticker | Name | 1 Day | 1 Month | YTD |
|--------|-------------------|--------|---------|---------|
| DJP | Broad Commodities | 0.24% | 5.96% | 33.88% |
| DBE | Energy | 1.48% | 11.12% | 58.58% |
| USO | WTI Crude Oil | 1.33% | 11.12% | 61.35% |
| BNO | Brent Crude Oil | 1.21% | 12.19% | 62.19% |
| UNG | Natural Gas | -4.37% | 19.75% | 109.57% |
| UGA | Gasoline | 2.63% | 9.23% | 62.03% |
| DBP | Precious Metals | 0.62% | -3.82% | -10.29% |
| GLD | Gold | 0.23% | -3.01% | -7.72% |
| SLV | Silver | 1.51% | -6.88% | -15.22% |
| PPLT | Platinum | 0.88% | -2.71% | -9.66% |
| PALL | Palladium | 0.71% | -21.33% | -21.76% |
| DBB | Base Metals | 1.06% | 1.31% | 21.21% |
| CPER | Copper | 2.75% | -1.68% | 18.44% |
| LD | Lead | 2.69% | -5.54% | 8.62% |
| JJN | Nickel | 0.73% | -6.07% | 7.50% |
| JJU | Aluminum | 0.40% | 6.52% | 42.20% |
| JJT | Tin | 1.07% | 3.47% | 89.62% |
| DBA | Agriculture | 1.46% | 1.78% | 20.20% |
| CORN | Corn | 1.69% | 4.06% | 31.64% |
| SOYB | Soybeans | -0.64% | -1.88% | 12.38% |
| WEAT | Wheat | 3.53% | 5.01% | 18.42% |
| CANE | Sugar | -0.37% | -1.30% | 40.96% |
| BAL | Cotton | -1.28% | 13.28% | 28.01% |
| NIB | Cocoa | 2.92% | 7.95% | 2.76% |
| JO | Coffee | 5.55% | 4.65% | 50.81% |

Currencies Performance

| Ticker | Name | 1 Day | 1 Month | YTD |
|--------|------------------------|--------|---------|--------|
| UUP | Long Dollar | -0.20% | 1.69% | 4.21% |
| UDN | Short Dollar | 0.22% | -1.69% | -5.08% |
| FXE | Euro | 0.10% | -2.16% | -5.80% |
| FXB | British Pound Sterling | 0.56% | -1.62% | -1.20% |
| FXF | Swiss Franc | 0.18% | -1.64% | -5.72% |
| FXJ | Japanese Yen | 0.18% | -1.06% | -7.49% |
| FXC | Canadian Dollar | 0.21% | -0.14% | 0.35% |
| FXA | Australian Dollar | 0.52% | -1.34% | -6.08% |

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