

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

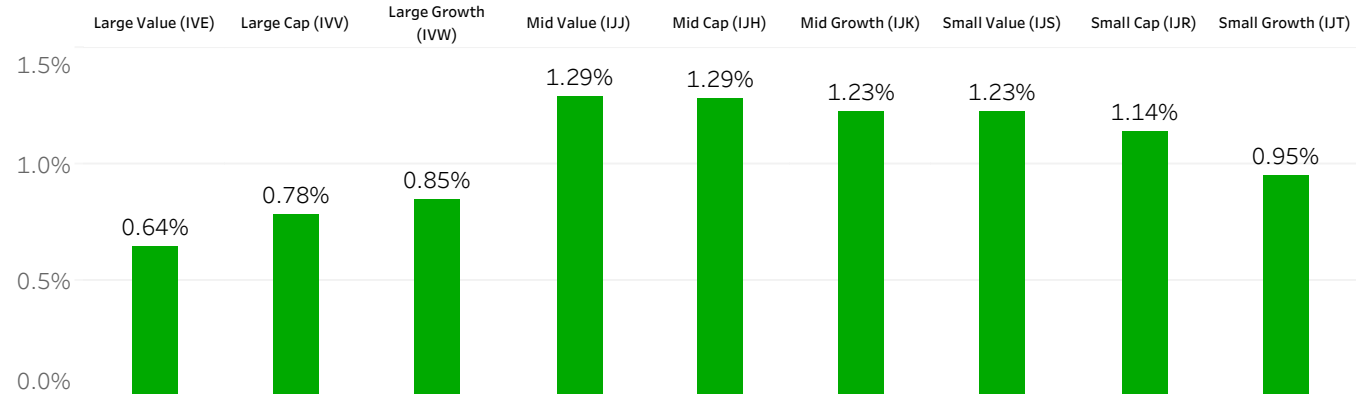


Small Cap Blend (S&P 600) IJR



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

U.S. Size & Style 1-Day Performance



Size & Style 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
XMVM	Invesco S&P MidCap Value with Momentum ETF	1.84%
XMHQ	Invesco S&P MidCap Quality ETF	1.83%
RWK	Invesco S&P MidCap 400 Revenue ETF	1.80%
SVAL	iShares US Small Cap Value Factor ETF	1.78%
RZV	Invesco S&P Smallcap 600 Pure Value ETF	1.73%
RFV	Invesco S&P Midcap 400 Pure Value ETF	1.66%
DFAT	Dimensional U.S. Targeted Value ETF	1.65%
RWJ	Invesco S&P SmallCap 600 Revenue ETF	1.64%
DGRS	WisdomTree US Smallcap Quality Dividend Growth Fund	1.63%
DFSV	Dimensional US Small Cap Value ETF	1.57%

Size & Style Most Overbought

Ticker	Fund	Value
PTLC	Pacer Trendpilot US Large Cap ETF	63.06
SPC	CrossingBridge Pre-Merger SPAC ETF	58.89
LSAT	Leadershares Alphafactor Tactical Focused ETF	51.24
ONOF	Global X Adaptive U.S. Risk Management ETF	49.26
REGL	ProShares S&P MidCap 400 Dividend Aristocrats ETF	47.68
SVAL	iShares US Small Cap Value Factor ETF	46.25
EQRR	ProShares Equities for Rising Rates ETF	46.20
FCTR	First Trust Lunt U.S. Factor Rotation ETF	46.16
SMDV	ProShares Russell 2000 Dividend Growers ETF	45.65
DON	WisdomTree U.S. MidCap Dividend Fund	45.41

Size & Style 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
GUSA	Goldman Sachs MarketBeta U.S. 1000 Equity ETF	-3.28%
NZUS	SPDR MSCI USA Climate Paris Aligned ETF	-1.21%
CLRG	IQ Chaikin U.S. Large Cap ETF	-1.15%
BKMC	BNY Mellon US Mid Cap Core Equity ETF	-0.53%
DEIF	Sterling Capital Diverse Multi-Manager Active ETF	-0.42%
IPO	Renaissance IPO ETF	-0.26%
LSAT	Leadershares Alphafactor Tactical Focused ETF	-0.13%
QVMS	Invesco S&P SmallCap 600 QVM Multi-factor ETF	-0.09%
PTLC	Pacer Trendpilot US Large Cap ETF	-0.03%
DFNV	TrimTabs Donoghue Forlines Risk Managed Innovation E..	-0.02%

Size & Style Most Oversold

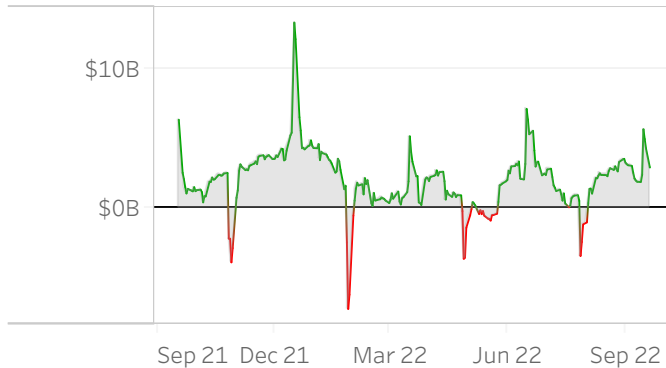
Ticker	Fund	Value
QVMS	Invesco S&P SmallCap 600 QVM Multi-factor ETF	14.34
PTMC	Pacer Trendpilot US Mid Cap ETF	20.13
GUSA	Goldman Sachs MarketBeta U.S. 1000 Equity ETF	20.40
USNZ	Xtrackers Net Zero Pathway Paris Aligned US Equity..	22.26
DJD	Invesco Dow Jones Industrial Average Dividend ETF	33.89
QVML	Invesco S&P 500 QVM Multi-factor ETF	34.18
SIXS	ETC 6 Meridian Small Cap Equity ETF	35.80
RZG	Invesco S&P Smallcap 600 Pure Growth ETF	36.42
LCG	Sterling Capital Focus Equity ETF	36.63
QDEF	FlexShares Quality Dividend Defensive Index Fund	36.94

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

### Large-Cap 30-Day Rolling Flows



### Mid-Cap 30-Day Rolling Flows



### Small-Cap 30-Day Rolling Flows



### U.S. Size & Style Landscape Flows

	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Large Cap, Beta Growth, Beta	25	\$1,180B	(\$3.33B)	\$9.98B	\$19.84B	\$96.10B
Large Cap, Beta Growth, Beta: Growth	10	\$220B	\$0.56B	\$6.31B	\$12.04B	\$14.72B
Large Cap, Beta Growth, Beta: Value	11	\$211B	\$0.81B	\$0.32B	\$3.87B	\$25.66B
Mid Cap, Beta, Beta	10	\$173B	\$0.55B	\$1.11B	\$4.50B	\$13.07B
Mid Cap, Beta, Beta: Growth	6	\$32B	\$0.20B	\$0.80B	\$0.92B	\$1.12B
Mid Cap, Beta, Beta: Value	6	\$39B	\$0.21B	\$0.06B	(\$0.04B)	\$1.44B
Small Cap, Beta, Beta	13	\$184B	(\$1.30B)	(\$3.87B)	(\$7.18B)	\$8.82B
Small Cap, Beta, Beta: Growth	7	\$30B	(\$0.07B)	(\$0.34B)	(\$0.03B)	\$0.82B
Small Cap, Beta, Beta: Value	7	\$48B	\$0.33B	(\$1.85B)	(\$3.85B)	(\$2.06B)

### U.S. Size & Style Flow Leaders

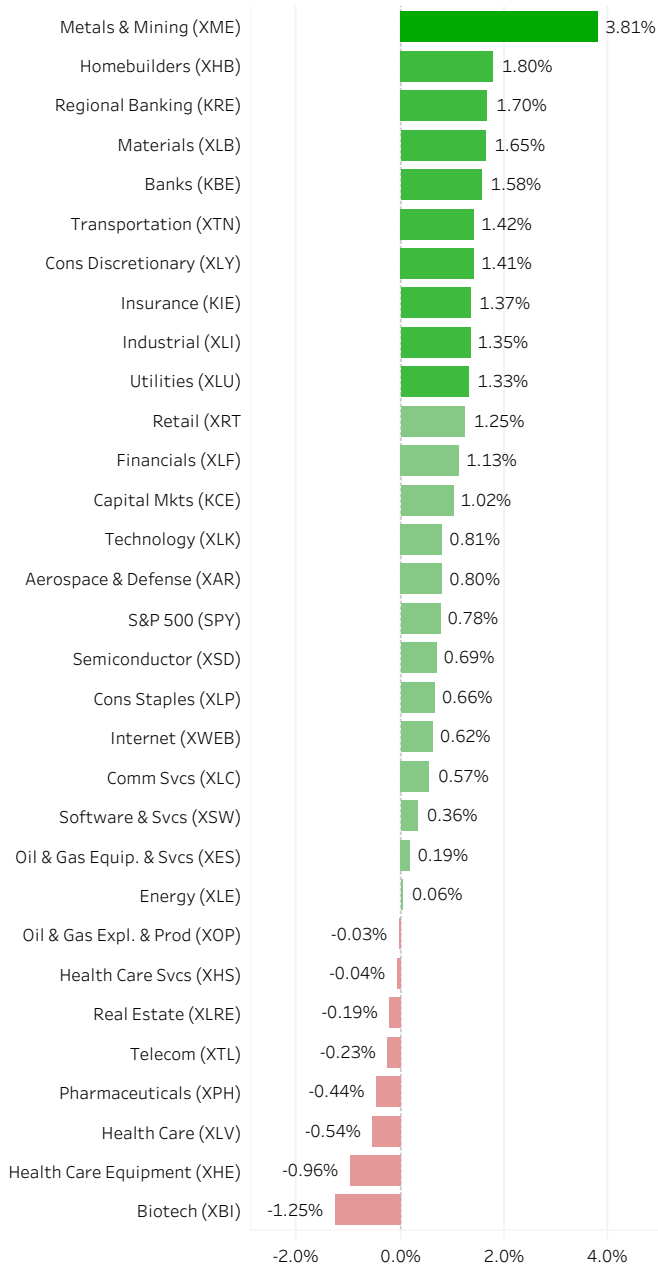
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VOO	Vanguard S&P 500 ETF	\$0.74B	\$10.02B	\$11.52B	\$43.83B	\$260.65B
VO	Vanguard Mid-Cap ETF	\$0.58B	(\$0.02B)	\$1.65B	\$5.45B	\$50.24B
VYM	Vanguard High Dividend Yield Index ETF	\$0.50B	\$3.03B	\$4.62B	\$9.28B	\$46.26B
VTV	Vanguard Value ETF	\$0.41B	\$1.32B	\$5.05B	\$18.11B	\$97.76B
VUG	Vanguard Growth ETF	\$0.33B	\$2.87B	\$6.00B	\$6.63B	\$72.55B
VBR	Vanguard Small Cap Value ETF	\$0.29B	(\$0.57B)	(\$1.47B)	\$0.65B	\$23.19B
IWD	iShares Russell 1000 Value ETF	\$0.25B	(\$0.83B)	(\$1.32B)	\$1.13B	\$51.19B
VB	Vanguard Small-Cap ETF	\$0.22B	(\$1.00B)	(\$1.45B)	\$1.63B	\$41.57B
SCHD	Schwab US Dividend Equity ETF	\$0.20B	\$3.41B	\$5.83B	\$11.99B	\$37.08B
IWF	iShares Russell 1000 Growth ETF	\$0.17B	\$0.28B	\$0.79B	\$0.20B	\$59.52B

### U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	(\$3.29B)	(\$6.47B)	(\$5.35B)	(\$3.44B)	\$347.28B
VTI	Vanguard Total Stock Market ETF	(\$1.91B)	\$5.62B	\$9.38B	\$32.48B	\$258.82B
IWM	iShares Russell 2000 ETF	(\$1.55B)	(\$5.41B)	(\$5.71B)	(\$0.59B)	\$50.34B
QQQ	Invesco QQQ Trust	(\$1.19B)	(\$0.08B)	\$3.40B	\$12.55B	\$158.86B
IWO	iShares Russell 2000 Growth ETF	(\$0.09B)	(\$0.54B)	(\$0.48B)	\$0.41B	\$9.14B
JHMM	John Hancock Multifactor Mid Cap ETF	(\$0.08B)	\$0.12B	\$0.24B	\$0.43B	\$2.47B
VLUE	iShares MSCI USA Value Factor ETF	(\$0.07B)	(\$1.02B)	(\$3.28B)	(\$6.76B)	\$8.06B
QUAL	iShares MSCI USA Quality Factor ETF	(\$0.06B)	(\$1.24B)	(\$1.12B)	(\$2.19B)	\$17.98B
RSP	Invesco S&P 500 Equal Weight ETF	(\$0.05B)	\$0.12B	(\$1.07B)	\$4.30B	\$30.53B
MDY	SPDR S&P Midcap 400 ETF Trust	(\$0.04B)	(\$0.39B)	(\$0.22B)	(\$0.80B)	\$17.44B

\* 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)
XLU	Utilities Select Sector SPDR Fund	-4.05%	17.35%	0.99%	4.64%	47.28
XLP	Consumer Staples Select Sector SPDR Fund	-11.46%	3.69%	-3.64%	-4.72%	35.97
XLV	Health Care Select Sector SPDR Fund	-11.60%	5.31%	-2.65%	-4.09%	43.06
XLE	Energy Select Sector SPDR Fund	-15.86%	46.46%	1.02%	5.25%	45.47
XLI	Industrial Select Sector SPDR Fund	-15.99%	5.25%	-4.09%	-7.17%	36.54
SPY	SPDR S&P 500 ETF Trust	-18.66%	6.20%	-3.72%	-8.10%	40.05
XLB	Materials Select Sector SPDR Fund	-18.67%	3.89%	-3.70%	-10.57%	40.15
XLF	Financial Select Sector SPDR Fund	-19.70%	8.20%	-0.80%	-7.52%	45.97
XLRE	Real Estate Select Sector SPDR Fund	-22.97%	2.73%	-6.78%	-11.63%	32.00
XLY	Consumer Discretionary Select Sector SPDR Fund	-24.40%	18.73%	0.26%	-5.30%	49.44
XLK	Technology Select Sector SPDR Fund	-26.73%	4.82%	-7.14%	-11.92%	35.96
XLC	Communication Services Select Sector SPDR Fund	-36.28%	0.36%	-6.40%	-17.57%	37.19

### Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
XME	SPDR S&P Metals & Mining ETF	3.81%
PYZ	Invesco DWA Basic Materials Momentum ETF	2.56%
FXZ	First Trust Materials AlphaDEX Fund	2.31%
ITB	iShares U.S. Home Construction ETF	2.25%
PAVE	Global X U.S. Infrastructure Development ETF	2.12%
PKB	Invesco Dynamic Building & Construction ETF	2.11%
RTM	Invesco S&P 500 Equal Weight Materials ETF	2.10%
KBWR	Invesco KBW Regional Banking ETF	1.93%
VAW	Vanguard Materials ETF	1.89%
FXR	First Trust Industrials/Producer Durables AlphaDE..	1.86%

### Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
QABA	First Trust NASDAQ ABA Community Bank Index Fund	55.03
KBWP	Invesco KBW Property & Casualty Insurance ETF	54.19
KBWR	Invesco KBW Regional Banking ETF	53.98
IAK	iShares U.S. Insurance ETF	52.66
FTXO	First Trust Nasdaq Bank ETF	51.82
KRE	SPDR S&P Regional Banking ETF	51.12
FXU	First Trust Utilities AlphaDEX Fund	50.96
AMLP	Alerian MLP ETF	50.75
MLPA	Global X MLP ETF	50.60
UTES	Virtus Reaves Utilities ETF	50.51

### Sector & Industry 1 Day Performance Laggards

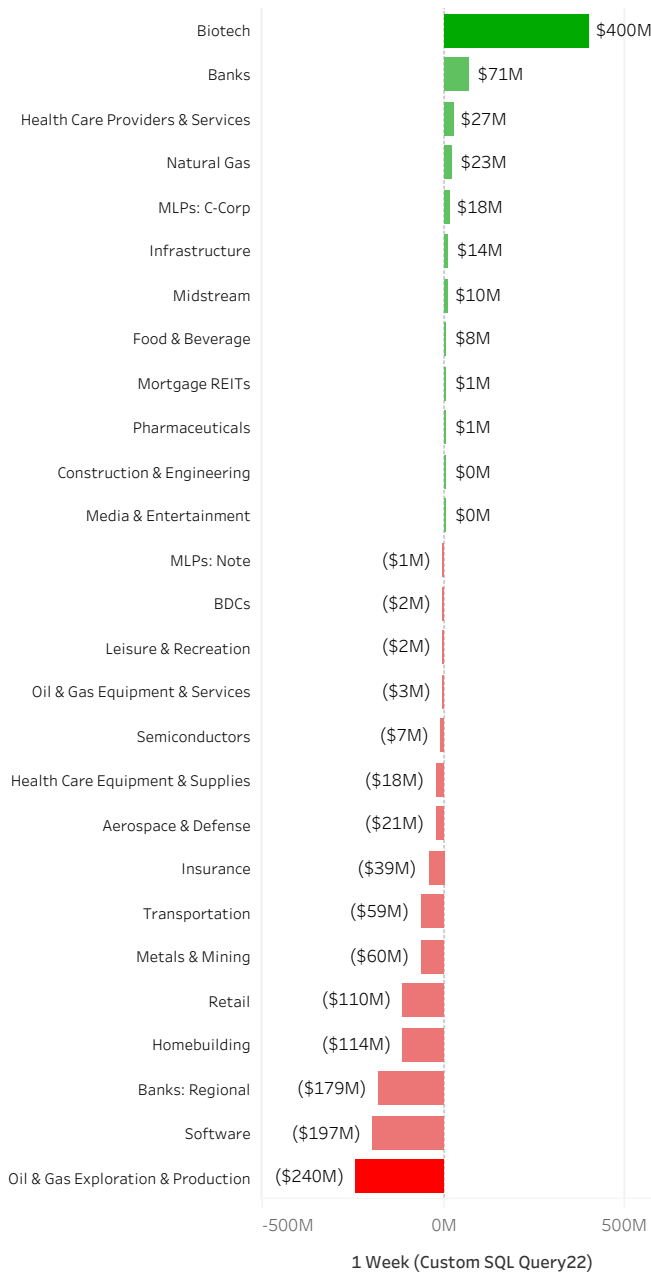
Ticker	Fund	1 Day Performance
PTH	Invesco DWA Healthcare Momentum ETF	-1.36%
XBI	SPDR S&P BIOTECH ETF	-1.25%
XHE	SPDR S&P Health Care Equipment ETF	-0.96%
IBB	iShares Biotechnology ETF	-0.94%
REZ	iShares Residential and Multisector Real Estate ETF	-0.81%
IHI	iShares U.S. Medical Devices ETF	-0.80%
IHE	iShares U.S. Pharmaceuticals ETF	-0.72%
IYH	iShares U.S. Healthcare ETF	-0.60%
VHT	Vanguard Health Care ETF	-0.60%
NURE	Nuveen Short-Term REIT ETF	-0.58%

### Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
RWR	SPDR Dow Jones REIT ETF	31.49
IYZ	iShares U.S. Telecommunications ETF	31.79
XLRE	Real Estate Select Sector SPDR Fund	32.00
FREL	Fidelity MSCI Real Estate Index ETF	32.35
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	32.42
REZ	iShares Residential and Multisector Real Estate ETF	32.68
ICF	iShares Cohen & Steers REIT ETF	33.20
JPRE	JPMorgan Realty Income ETF	33.48
EWRE	Invesco S&P 500 Equal Weight Real Estate ETF	33.66
PSR	Invesco Active U.S. Real Estate Fund	34.06

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## U.S. Sector & Industry 1-Week Flows



## U.S. Sector Landscape

	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Communication Services	8	\$12B	(\$85M)	(\$78M)	(\$872M)	(\$2,002M)
Consumer Discretionary	13	\$24B	\$172M	(\$411M)	(\$2,412M)	(\$4,334M)
Consumer Staples	11	\$28B	(\$187M)	\$1,648M	\$3,657M	\$7,027M
Energy	34	\$73B	(\$241M)	(\$4,473M)	(\$6,555M)	\$1,161M
Financials	27	\$58B	(\$2,127M)	(\$1,659M)	(\$15,076M)	(\$7,783M)
Health Care	24	\$90B	\$565M	\$1,940M	\$6,823M	\$12,045M
Industrial	14	\$27B	(\$94M)	(\$1,245M)	(\$3,473M)	(\$3,124M)
Materials	10	\$13B	(\$125M)	(\$2,769M)	(\$2,942M)	(\$1,380M)
Multi-Sector	19	\$14B	\$254M	(\$1,369M)	(\$2,583M)	(\$4,389M)
Real Estate	25	\$64B	\$249M	(\$1,575M)	(\$2,882M)	(\$1,140M)
Technology	24	\$106B	(\$241M)	(\$488M)	\$462M	\$515M
Utilities	10	\$29B	\$327M	\$1,930M	\$4,908M	\$5,697M

## U.S. Sector & Industry Flow Leaders

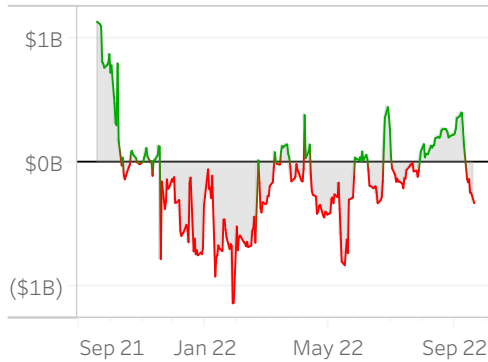
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
FDN	First Trust Dow Jones Internet Index Fund	\$357M	\$19M	(\$993M)	(\$2,332M)	\$4,378M
XBI	SPDR S&P BIOTECH ETF	\$333M	\$621M	\$1,361M	\$3,678M	\$7,843M
XLV	Consumer Discretionary Select Sector SPDR Fu..	\$295M	(\$31M)	(\$41M)	(\$678M)	\$16,342M
XLU	Utilities Select Sector SPDR Fund	\$267M	\$1,276M	\$3,401M	\$3,543M	\$18,042M
IYR	iShares U.S. Real Estate ETF	\$203M	(\$437M)	(\$775M)	(\$2,943M)	\$3,981M
KBWB	Invesco KBW Bank ETF	\$101M	\$130M	(\$300M)	(\$150M)	\$2,122M
XLV	Health Care Select Sector SPDR Fund	\$89M	\$311M	\$4,571M	\$7,320M	\$38,322M
IBB	iShares Biotechnology ETF	\$67M	\$171M	(\$80M)	\$67M	\$7,977M
RYT	Invesco S&P 500 Equal Weight Technology ETF	\$58M	\$8M	(\$131M)	(\$320M)	\$2,017M
VHT	Vanguard Health Care ETF	\$42M	\$386M	\$304M	\$1,019M	\$16,136M

## U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	(\$1,934M)	(\$984M)	(\$9,013M)	(\$4,302M)	\$30,190M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	(\$257M)	(\$428M)	(\$1,854M)	(\$1,039M)	\$4,092M
XLP	Consumer Staples Select Sector SPDR Fund	(\$204M)	\$859M	\$1,023M	\$3,340M	\$15,689M
IGV	iShares Expanded Tech-Software Sector ETF	(\$198M)	(\$623M)	(\$521M)	\$178M	\$3,612M
KRE	SPDR S&P Regional Banking ETF	(\$176M)	(\$75M)	(\$1,914M)	(\$986M)	\$3,147M
XRT	SPDR S&P Retail ETF	(\$110M)	(\$67M)	(\$359M)	(\$649M)	\$206M
XLC	Communication Services Select Sector SPDR Fu..	(\$85M)	(\$106M)	(\$539M)	(\$1,586M)	\$8,672M
KIE	SPDR S&P Insurance ETF	(\$75M)	(\$69M)	(\$48M)	(\$20M)	\$408M
ITB	iShares U.S. Home Construction ETF	(\$71M)	(\$272M)	(\$474M)	(\$718M)	\$1,139M
XME	SPDR S&P Metals & Mining ETF	(\$60M)	(\$727M)	(\$1,416M)	(\$100M)	\$1,617M

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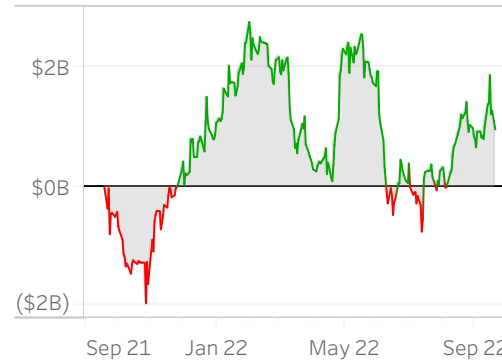
Communication Services



Consumer Discretionary



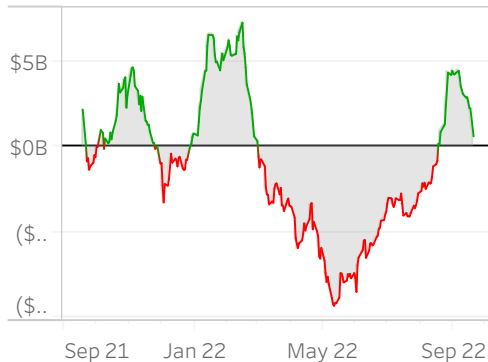
Consumer Staples



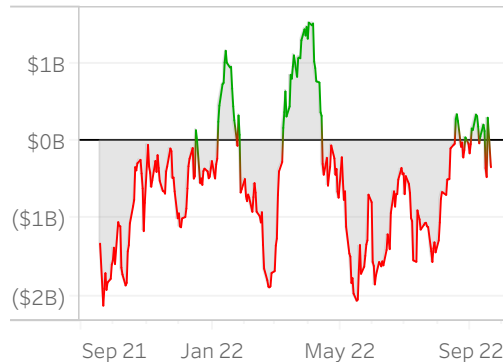
Energy



Financials



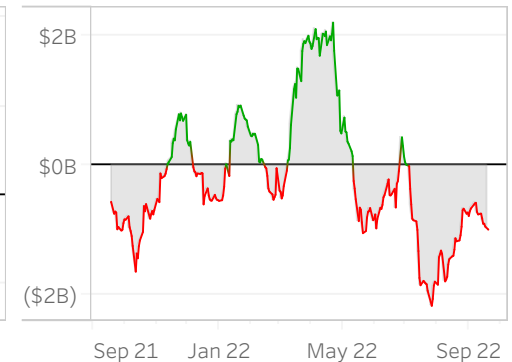
Industrial



Health Care



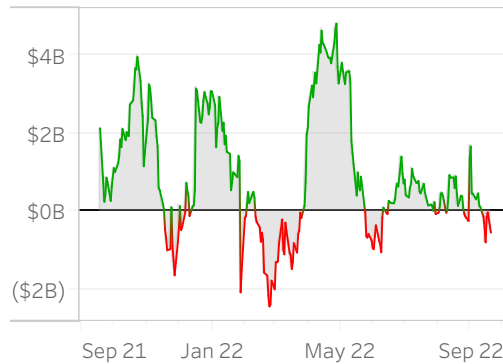
Materials



Real Estate



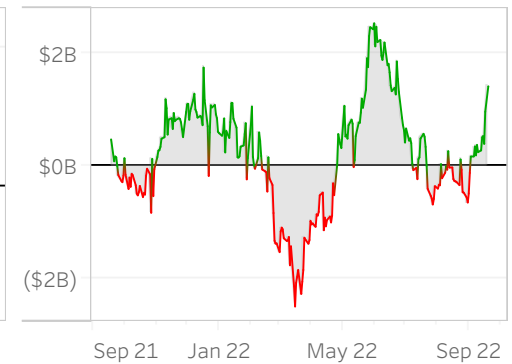
Technology



Utilities

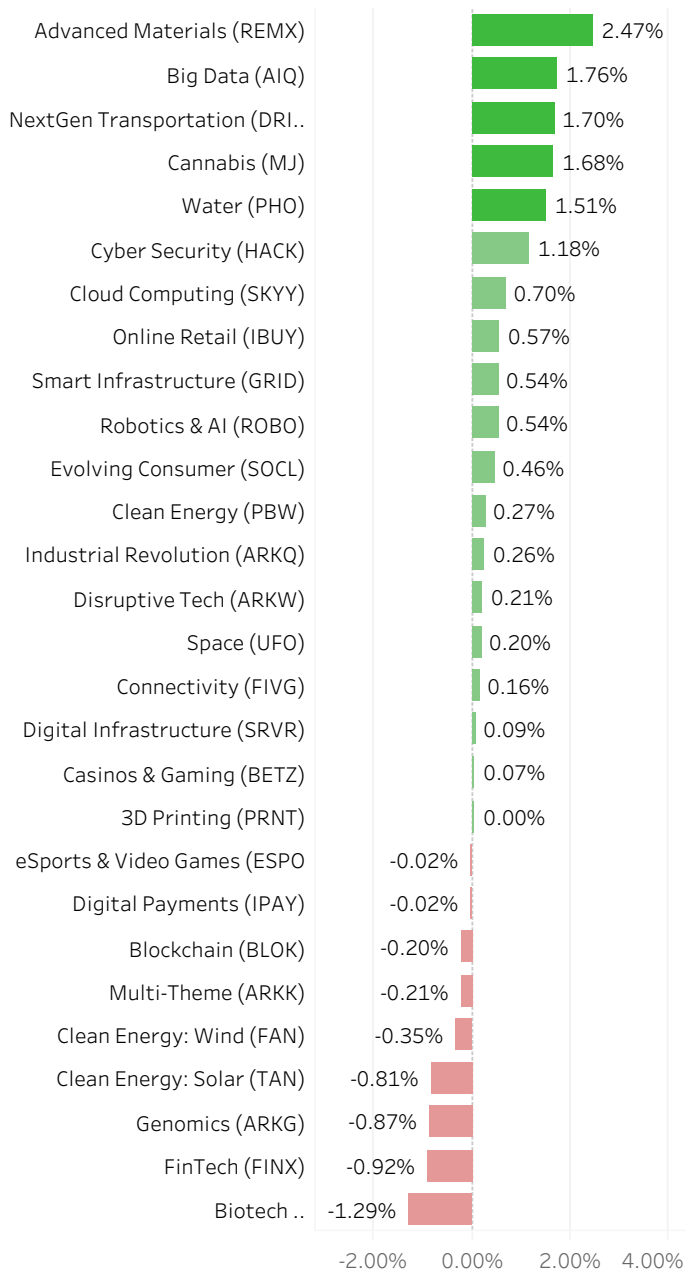


Multi-Sector

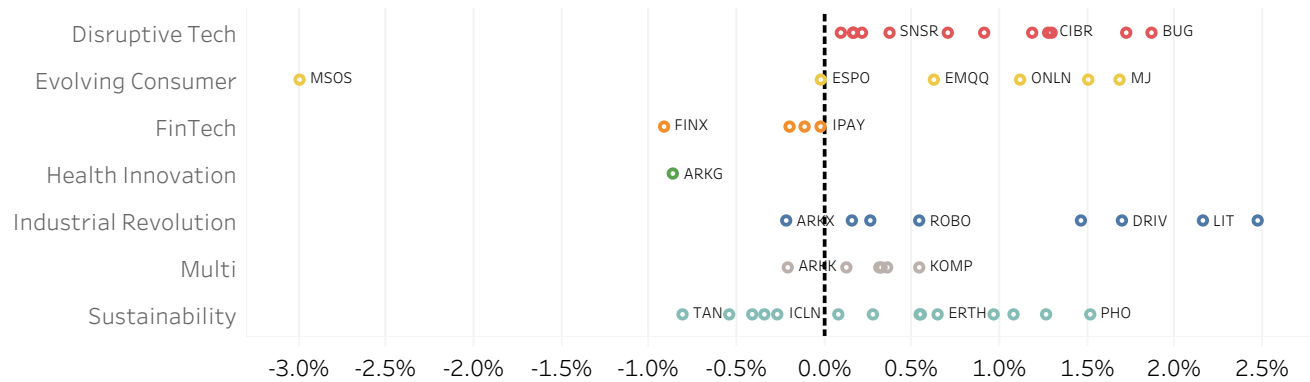


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### Global Thematic Segment 1-Day Performance



### Global Thematic 1-Day Performance Landscape



### Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
REMX	VanEck Rare Earth/Strategic Metals ETF	2.47%
LIT	Global X Lithium & Battery Tech ETF	2.16%
BUG	Global X Cybersecurity ETF	1.86%
AIQ	Global X Artificial Intelligence & Technology ETF	1.76%
CLOU	Global X Cloud Computing ETF	1.72%
DRIV	Global X Autonomous & Electric Vehicles ETF	1.70%
MJ	ETFMG Alternative Harvest ETF	1.68%
KARS	KraneShares Electric Vehicles & Future Mobility Index ETF	1.59%
PHO	Invesco Water Resources ETF	1.51%
KWEB	KraneShares CSI China Internet ETF	1.50%

### Thematic Most Overbought

Ticker	Fund	Price
ACES	ALPS Clean Energy ETF	55.71
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	54.51
CNRG	SPDR S&P Kensho Clean Power ETF	50.80
PBW	Invesco WilderHill Clean Energy ETF	49.13
TAN	Invesco Solar ETF	48.84
BJK	VanEck Gaming ETF	48.62
AWAY	ETFMG Travel Tech ETF	48.19
EVX	VanEck Environmental Services ETF	47.91
REMX	VanEck Rare Earth/Strategic Metals ETF	47.85
ICLN	iShares Global Clean Energy ETF	47.52

### Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
MSOS	AdvisorShares Pure US Cannabis ETF	-3.00%
BITQ	Bitwise Crypto Industry Innovators ETF	-2.82%
BKCH	Global X Blockchain ETF	-2.17%
IDNA	iShares Genomics Immunology and Healthcare ETF Ge..	-1.89%
GBUY	Goldman Sachs Future Consumer Equity ETF	-1.85%
SBIO	ALPS Medical Breakthroughs ETF	-1.29%
GNOM	Global X Genomics & Biotechnology ETF	-1.25%
YOLO	AdvisorShares Pure Cannabis ETF	-1.20%
FINX	Global X FinTech ETF	-0.92%
ARKG	ARK Genomic Revolution ETF	-0.87%

### Thematic Most Oversold

Ticker	Fund	Price
PAWZ	ProShares Pet Care ETF	30.85
HERO	Global X Video Games & Esports ETF	31.13
KGRN	KraneShares MSCI China Clean Technology Index ETF	31.78
YOLO	AdvisorShares Pure Cannabis ETF	32.45
ESPO	VanEck Video Gaming and eSports ETF	32.78
VPN	Global X Data Center REITs & Digital Infrastructure ETF	33.06
GAMR	Wedbush ETFMG Video Game Tech ETF	33.19
NXTG	First Trust Indxx NextG ETF	33.50
MSOS	AdvisorShares Pure US Cannabis ETF	33.81
BOTZ	Global X Robotics & Artificial Intelligence ETF	34.18

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### Thematic 1 Week Flow Leaders

Ticker	Fund	
PBW	Invesco WilderHill Clean Energy ETF	\$135M
TAN	Invesco Solar ETF	\$34M
ICLN	iShares Global Clean Energy ETF	\$13M
FIW	First Trust Water ETF	\$13M
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	\$7M
PHO	Invesco Water Resources ETF	\$7M
MJUS	ETFMG U.S. Alternative Harvest ETF	\$5M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$4M
CNRG	SPDR S&P Kensho Clean Power ETF	\$4M
ACES	ALPS Clean Energy ETF	\$3M

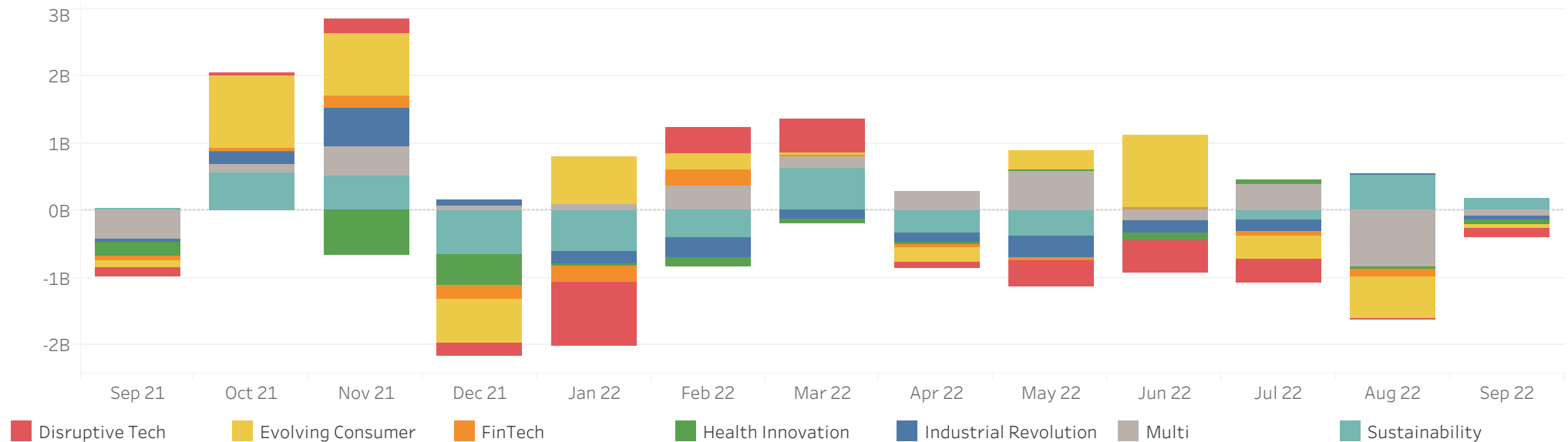
### Thematic 1 Week Flow Laggards

Ticker	Fund	
ARKK	ARK Innovation ETF	(\$255M)
SKYY	First Trust Cloud Computing ETF	(\$49M)
ARKG	ARK Genomic Revolution ETF	(\$19M)
KWEB	KraneShares CSI China Internet ETF	(\$18M)
ARKW	ARK Next Generation Internet ETF	(\$13M)
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	(\$11M)
CIBR	First Trust NASDAQ Cybersecurity ETF	(\$11M)
NXTG	First Trust Indxx NextG ETF	(\$6M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$5M)
TARK	AXS 2X Innovation ETF	(\$5M)

### Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	35	\$17B	(\$82M)	(\$610M)	(\$1,887M)	(\$1,576M)
Evolving Consumer	47	\$10B	(\$31M)	(\$545M)	\$489M	\$2,366M
FinTech	24	\$3B	(\$6M)	(\$200M)	(\$254M)	(\$343M)
Health Innovation	19	\$4B	(\$37M)	(\$140M)	(\$140M)	(\$1,727M)
Industrial Revolution	32	\$12B	(\$17M)	(\$307M)	(\$901M)	(\$676M)
Multi	41	\$15B	(\$287M)	(\$488M)	(\$542M)	\$1,054M
Sustainability	42	\$20B	\$195M	\$730M	(\$232M)	(\$70M)
Grand Total	240	\$81B	(\$266M)	(\$1,561M)	(\$3,468M)	(\$972M)

### Thematic Monthly Flows



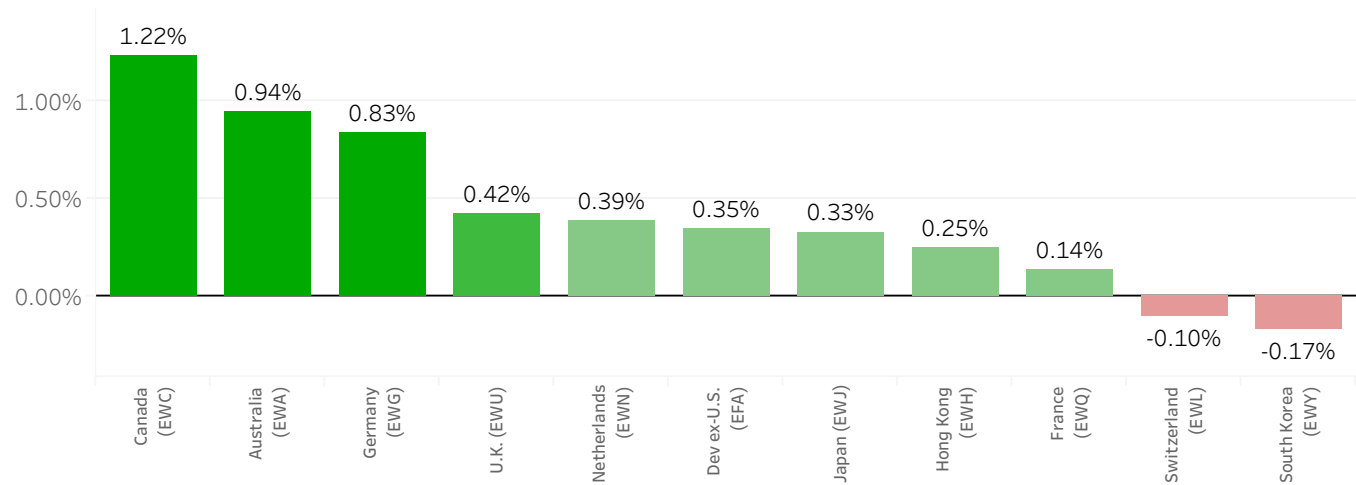
\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



Developed ex-U.S. (EFA)



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



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



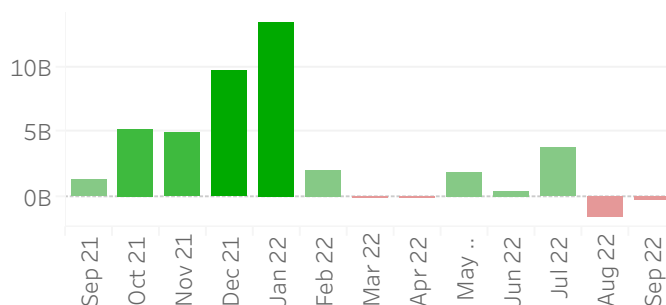
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
CIL	VictoryShares International Volatility Wtd ETF	1.29%
BBCA	JPMorgan BetaBuilders Canada ETF	1.26%
EWC	iShares MSCI Canada ETF	1.22%
FLCA	Franklin FTSE Canada ETF	1.11%
EWA	iShares MSCI Australia ETF	0.94%
EWG	iShares MSCI Germany ETF	0.83%
HDEF	Xtrackers MSCI EAFE High Dividend Yield Equity ETF	0.82%
EWO	iShares MSCI Austria ETF	0.72%
DTH	WisdomTree International High Dividend Fund	0.70%
EPP	iShares MSCI Pacific ex-Japan ETF	0.69%

Developed ex-U.S. Most Overbought

Ticker	Fund	Price
PTIN	Pacer Trendpilot International ETF	54.98
EWI	iShares MSCI Italy ETF	51.55
EWJ	iShares MSCI Japan ETF	49.83
GREK	Global X MSCI Greece ETF	48.95
DXJ	WisdomTree Japan Hedged Equity Fund	48.11
HEWJ	iShares Currency Hedged MSCI Japan ETF	47.85
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	47.31
EWO	iShares MSCI Austria ETF	47.07
EWC	iShares MSCI Canada ETF	46.04
FLCA	Franklin FTSE Canada ETF	45.99

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
EDEN	iShares MSCI Denmark ETF	-0.97%
EWD	iShares MSCI Sweden ETF	-0.85%
ENZL	iShares MSCI New Zealand ETF	-0.52%
NORW	Global X MSCI Norway ETF	-0.44%
FLSW	Franklin FTSE Switzerland ETF	-0.27%
IMOM	Alpha Architect International Quantitative Momentum ETF	-0.26%
EWY	iShares MSCI South Korea ETF	-0.17%
ISDX	Invesco RAFI Strategic Developed ex-US ETF	-0.15%
IVAL	Alpha Architect International Quantitative Value ETF	-0.14%
PDN	Invesco FTSE RAFI Developed Markets ex-US Small-Mid ETF	-0.12%

Developed ex-U.S. Most Oversold

Ticker	Fund	Price
IMFL	Invesco International Developed Dynamic Multifac...	27.47
QLVD	FlexShares Developed Markets ex-US Quality Low V..	32.38
IDHQ	Invesco S&P International Developed High Quality E..	32.67
EDEN	iShares MSCI Denmark ETF	32.99
NORW	Global X MSCI Norway ETF	33.48
IDLV	Invesco S&P International Developed Low Volatility ..	33.72
PBDM	Invesco PureBeta FTSE Developed ex-North America ..	34.60
PIZ	Invesco DWA Developed Markets Momentum ETF	35.10
DEEF	Xtrackers FTSE Developed ex US Multifactor ETF	35.17
EFAV	iShares MSCI EAFE Min Vol Factor ETF	35.35

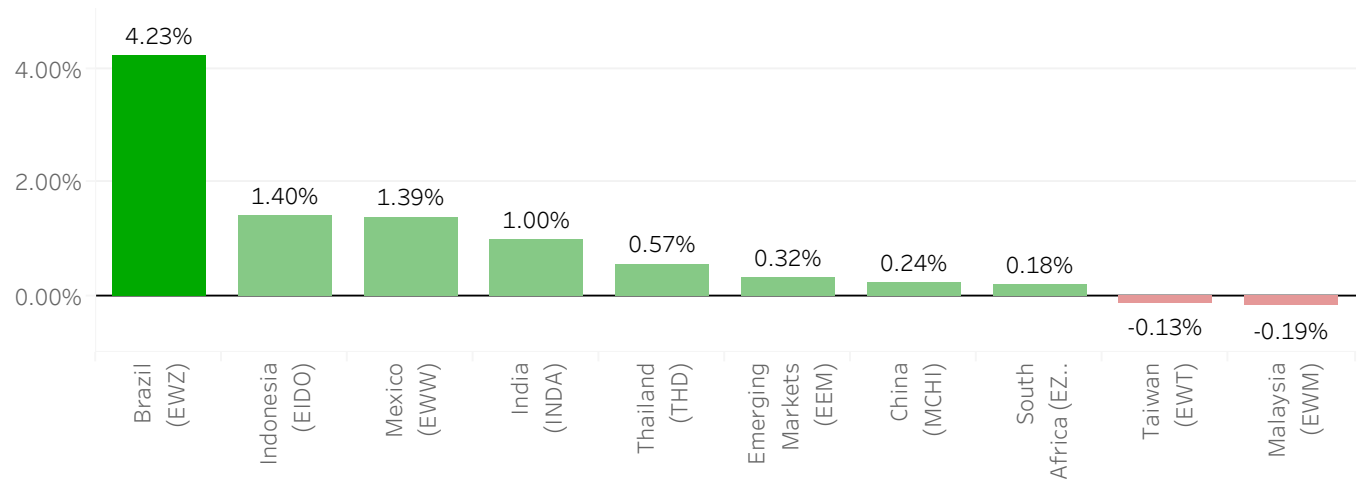
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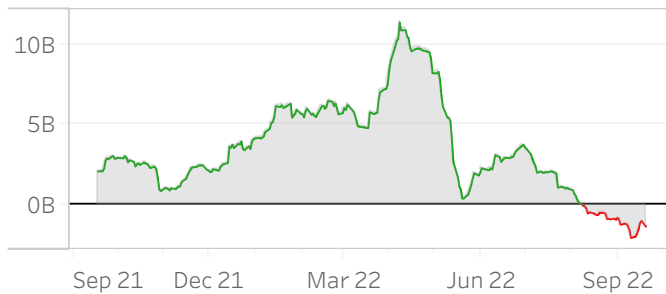
Emerging (EEM)



Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



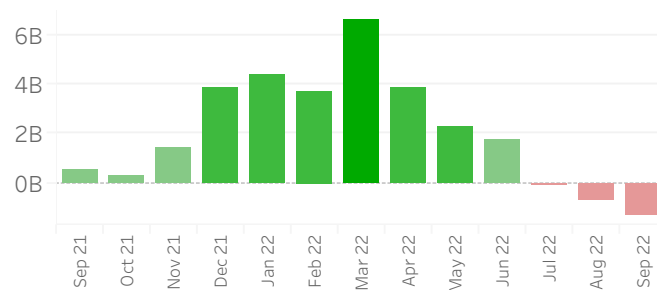
Emerging 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
EWZ	iShares MSCI Brazil ETF	4.23%
FLBR	Franklin FTSE Brazil ETF	4.12%
EWZS	iShares MSCI Brazil Small-Cap ETF	3.89%
FLLA	Franklin FTSE Latin America ETF	3.22%
ILF	iShares Latin America 40 ETF	3.20%
EPU	iShares MSCI Peru ETF	1.97%
EPOL	iShares MSCI Poland ETF	1.78%
ADRE	Invesco BLDRS Emerging Markets 50 ADR Index Fund	1.62%
PGJ	Invesco Golden Dragon China ETF	1.61%
PIN	Invesco India ETF	1.46%

Emerging Most Overbought

Ticker	Fund	Value
EIDO	iShares MSCI Indonesia ETF	61.25
SMIN	iShares MSCI India Small Cap ETF	55.97
ILF	iShares Latin America 40 ETF	54.16
EWZ	iShares MSCI Brazil ETF	53.89
FLBR	Franklin FTSE Brazil ETF	53.89
INDY	iShares India 50 ETF	53.48
EWZS	iShares MSCI Brazil Small-Cap ETF	53.36
EPI	WisdomTree India Earnings Fund	53.31
INDA	iShares MSCI India ETF	53.06
FLIN	Franklin FTSE India ETF	52.90

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
TUR	iShares MSCI Turkey ETF	-5.02%
KSA	iShares MSCI Saudi Arabia ETF	-2.60%
QAT	iShares MSCI Qatar ETF	-1.93%
ECNS	iShares MSCI China Small-Cap ETF	-1.56%
EPHE	iShares MSCI Philippines ETF	-1.44%
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fund	-1.34%
EWX	SPDR S&P Emerging Markets Small Cap ETF	-0.56%
PIE	Invesco DWA Emerging Markets Momentum ETF	-0.45%
AVES	Avantis Emerging Markets Value ETF	-0.27%
UEVM	VictoryShares USAA MSCI Emerging Markets Value Mo..	-0.23%

Emerging Most Oversold

Ticker	Fund	Value
EDIV	SPDR S&P Emerging Markets Dividend ETF	25.07
RAYC	Rayliant Quantamental China Equity ETF	28.54
KSA	iShares MSCI Saudi Arabia ETF	29.37
CNYA	iShares MSCI China A ETF	29.69
EELV	Invesco S&P Emerging Markets Low Volatility ETF	30.41
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	30.67
ECNS	iShares MSCI China Small-Cap ETF	30.93
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	33.20
KBA	KraneShares Bosera MSCI China A 50 Connect Index ..	33.23
VNM	VanEck Vietnam ETF	33.42

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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	-0.15%	-3.05%	-12.30%
SHY	1-3 Year Treasury Bonds	-0.11%	-1.03%	-4.10%
IEF	7-10 Year Treasury Bonds	-0.28%	-3.81%	-13.53%
TLT	20+ Year Treasury Bonds	0.23%	-4.86%	-26.59%
TIP	TIPS Bonds	-0.46%	-4.19%	-10.37%
FLOT	Floating Rate Bonds	0.12%	0.45%	0.02%
LQD	Investment Grade Corporate	0.17%	-3.60%	-17.53%
HYG	High Yield Corporate	0.38%	-2.73%	-11.58%
BKLN	Senior Loan	0.22%	-0.88%	-3.25%
PFF	Preferred & Income Securities	0.09%	-4.53%	-14.46%
MUB	Municipal Bonds	-0.10%	-2.01%	-8.94%
MBB	MBS	-0.43%	-4.09%	-11.36%
EMB	Dollar Denominated EM Bonds	0.35%	-2.30%	-20.12%
LEMB	Local Currency EM Bond	0.24%	-1.00%	-14.02%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	0.32%	-4.39%	21.29%
DBE	Energy	0.71%	-6.10%	40.63%
USO	WTI Crude Oil	0.21%	-5.41%	28.86%
BNO	Brent Crude Oil	0.24%	-3.69%	38.50%
UNG	Natural Gas	1.48%	-14.66%	118.98%
UGA	Gasoline	1.44%	-11.50%	30.96%
DBP	Precious Metals	0.07%	-3.10%	-11.41%
GLD	Gold	0.08%	-4.15%	-8.77%
SLV	Silver	0.00%	2.51%	-16.36%
PPLT	abrdn Physical Platin..	1.26%	2.78%	-5.04%
PALL	abrdn Physical Palla..	4.56%	4.29%	16.67%
DBB	Base Metals	-0.47%	-5.03%	-15.23%
CPER	Copper	-0.42%	-3.98%	-22.01%
LD	Lead	-4.33%	-8.43%	-19.62%
JJN	Nickel	0.93%	12.15%	19.73%
JJU	Aluminum	-1.16%	-5.69%	-19.73%
JJT	Tin	-1.66%	-15.21%	-44.69%
DBA	Agriculture	0.00%	2.09%	3.90%
CORN	Corn	-0.04%	7.89%	25.72%
SOYB	Soybeans	1.36%	3.93%	20.88%
WEAT	Wheat	-3.09%	7.09%	14.48%
CANE	Sugar	-1.70%	-2.92%	-5.98%
BAL	Cotton	-3.56%	-16.73%	3.40%
NIB	Cocoa	0.76%	0.32%	-13.83%
JO	Coffee	2.52%	3.96%	0.88%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.07%	1.56%	14.63%
UDN	Short Dollar	0.32%	-1.46%	-13.26%
FXE	Euro	0.10%	-0.23%	-12.52%
FXB	British Pound Sterling	0.18%	-3.20%	-15.42%
FXF	Swiss Franc	-0.01%	-0.75%	-6.22%
FXJ	Japanese Yen	-0.24%	-4.51%	-19.92%
FXC	Canadian Dollar	0.19%	-1.90%	-4.73%
FXA	Australian Dollar	0.07%	-2.22%	-7.62%

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