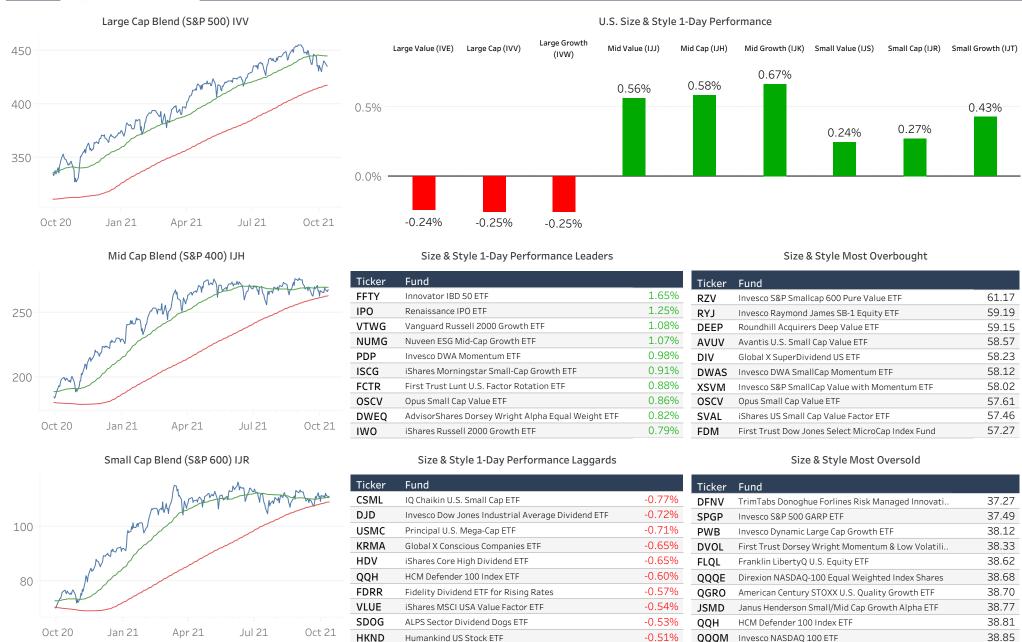


Closing Price

50 Day Moving Average

U.S. Size & Style Performance



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



U.S. Size & Style Landscape Flows

	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Large Cap, Beta Growth, Beta: Value	11	\$199B	\$0.56B	\$4.36B	\$11.90B	\$32.37B
Mid Cap, Beta, Beta	10	\$183B	\$0.44B	\$0.62B	\$2.41B	\$8.88B
Small Cap, Beta, Beta: Value	7	\$57B	\$0.28B	\$0.25B	\$0.89B	\$9.64B
Large Cap, Beta Growth, Beta	24	\$1,241B	\$0.22B	\$28.01B	\$52.11B	\$82.52B
Mid Cap, Beta, Beta: Value	6	\$41B	\$0.13B	\$0.18B	\$1.58B	\$4.40B
Mid Cap, Beta, Beta: Growth	6	\$39B	\$0.05B	(\$0.03B)	(\$1.01B)	(\$2.21B)
Small Cap, Beta, Beta: Growth	7	\$38B	(\$0.06B)	\$0.17B	(\$0.23B)	\$1.53B
Large Cap, Beta Growth, Beta: Growth	10	\$251B	(\$0.28B)	\$4.55B	\$8.05B	\$3.52B
Small Cap, Beta, Beta	12	\$216B	(\$0.39B)	\$4.48B	\$4.85B	\$24.74B

Mid-Cap 30-Day Rolling Flows



U.S. Size & Style Flow Leaders

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
QQQ	Invesco QQQ Trust	\$1.17B	\$5.21B	\$9.62B	\$8.68B	\$184.12B
NOBL	ProShares S&P 500 Dividend Aristocrats ETF	\$0.59B	\$0.83B	\$1.15B	\$1.65B	\$9.36B
IVV	iShares Core S&P 500 ETF	\$0.55B	(\$0.41B)	\$1.73B	\$10.75B	\$291.12B
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.43B	(\$0.88B)	(\$0.44B)	\$0.78B	\$29.47B
V00	Vanguard S&P 500 ETF	\$0.43B	\$13.12B	\$23.18B	\$39.84B	\$251.28B
VTI	Vanguard Total Stock Market ETF	\$0.27B	\$11.19B	\$20.56B	\$45.48B	\$266.85B
MDY	SPDR S&P Midcap 400 ETF Trust	\$0.26B	(\$0.85B)	(\$0.83B)	(\$0.32B)	\$20.35B
IWN	iShares Russell 2000 Value ETF	\$0.25B	(\$0.01B)	(\$0.41B)	\$2.81B	\$16.18B
IWD	iShares Russell 1000 Value ETF	\$0.22B	\$0.35B	\$0.42B	\$5.13B	\$54.26B
VTV	Vanguard Value ETF	\$0.17B	\$2.55B	\$7.65B	\$15.72B	\$84.62B

Small-Cap 30-Day Rolling Flows

\$20B- \$10B- \$0B-		Mmy		A MANA MA	~ Mr
	Oct 20	Jan 21	Apr 21	Jul 21	Oct 21

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IWM	iShares Russell 2000 ETF	(\$0.71B)	\$1.55B	(\$0.51B)	\$6.82B	\$67.42B
FTA	First Trust Large Cap Value AlphaDEX Fund	(\$0.21B)	(\$0.01B)	\$0.06B	\$0.17B	\$1.05B
VUG	Vanguard Growth ETF	(\$0.20B)	\$1.21B	\$3.01B	\$3.93B	\$81.99B
FDVV	Fidelity High Dividend ETF	(\$0.20B)	(\$0.08B)	\$0.08B	\$0.18B	\$0.92B
IWF	iShares Russell 1000 Growth ETF	(\$0.18B)	\$1.19B	\$0.16B	(\$2.02B)	\$71.75B
VIG	Vanguard Dividend Appreciation ETF	(\$0.16B)	\$1.25B	\$1.82B	\$3.80B	\$61.55B
SPYG	SPDR Portfolio S&P 500 Growth ETF	(\$0.05B)	\$0.14B	\$2.02B	\$1.48B	\$13.28B
FAD	First Trust Multi Cap Growth AlphaDEX Fund	(\$0.05B)	\$0.02B	\$0.02B	\$0.00B	\$0.24B
IWO	iShares Russell 2000 Growth ETF	(\$0.04B)	\$0.17B	(\$0.05B)	(\$0.24B)	\$11.76B
CDC	VictoryShares US EQ Income Enhanced Volatil	(\$0.04B)	\$0.02B	\$0.07B	\$0.15B	\$0.94B

^{*}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

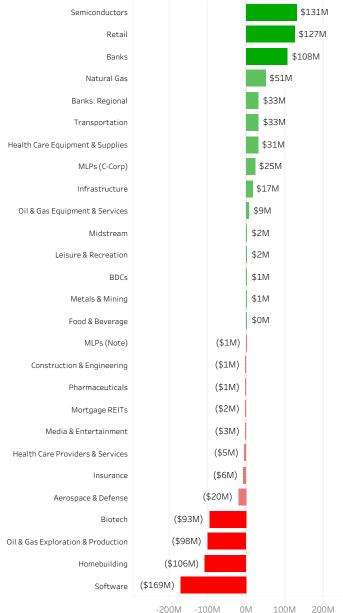
Select Sector SPDRs Technicals



^{*}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



1 Week (Custom SQL Query22)

U.S. Sector Landscape

	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Communication Services	9	\$21B	(\$84M)	\$1,567M	\$1,878M	\$2,264M
Consumer Discretionary	13	\$33B	\$166M	(\$386M)	(\$590M)	\$2,699M
Consumer Staples	12	\$20B	(\$80M)	\$598M	\$920M	(\$3,586M)
Energy	34	\$55B	(\$247M)	\$5M	\$409M	\$11,678M
Financials	28	\$81B	\$892M	\$1,481M	\$3,561M	\$23,397M
Health Care	25	\$85B	(\$8M)	\$1,095M	\$4,171M	\$2,455M
Industrial	14	\$34B	(\$477M)	(\$2,502M)	(\$4,164M)	\$2,588M
Materials	10	\$15B	(\$328M)	(\$2,714M)	\$293M	\$4,464M
Multi-Sector	16	\$24B	(\$83M)	\$267M	\$667M	\$2,848M
Real Estate	21	\$73B	(\$134M)	\$3,761M	\$6,348M	\$12,167M
Technology	24	\$139B	\$914M	\$3,387M	\$3,563M	\$3,894M
Utilities	10	\$19B	\$328M	\$788M	\$566M	\$289M

U.S. Sector & Industry Flow Leaders

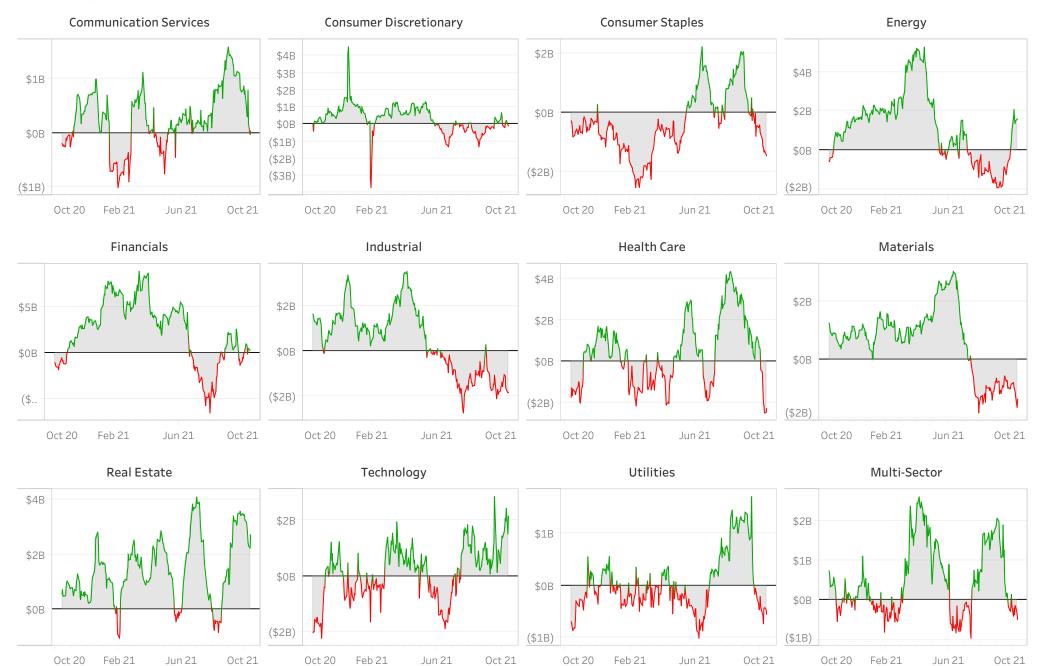
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VGT	Vanguard Information Technology ETF	\$815M	\$1,109M	\$2,307M	\$2,105M	\$49,517M
XLF	Financial Select Sector SPDR Fund	\$660M	\$575M	\$202M	\$11,877M	\$42,784M
XLU	Utilities Select Sector SPDR Fund	\$331M	\$535M	\$210M	(\$85M)	\$12,060M
XLK	Technology Select Sector SPDR Fund	\$192M	\$658M	\$243M	(\$76M)	\$44,063M
SOXX	iShares Semiconductor ETF	\$133M	\$397M	\$248M	\$2,001M	\$7,202M
XLV	Health Care Select Sector SPDR Fund	\$131M	(\$13M)	\$3,177M	\$1,592M	\$29,397M
IYR	iShares U.S. Real Estate ETF	\$130M	\$1,777M	\$707M	\$2,289M	\$7,314M
XRT	SPDR S&P Retail ETF	\$127M	(\$235M)	\$283M	\$236M	\$891M
KBWB	Invesco KBW Bank ETF	\$105M	\$912M	\$749M	\$1,785M	\$3,398M
FCG	First Trust Natural Gas ETF	\$51M	\$156M	\$232M	\$262M	\$507M

U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLI	Industrial Select Sector SPDR Fund	(\$482M)	(\$1,795M)	(\$3,190M)	\$446M	\$17,274M
XLE	Energy Select Sector SPDR Fund	(\$270M)	\$807M	\$1,060M	\$8,227M	\$26,960M
XLB	Materials Select Sector SPDR Fund	(\$261M)	(\$1,758M)	(\$370M)	\$1,850M	\$7,297M
VNQ	Vanguard Real Estate ETF	(\$164M)	\$297M	\$2,318M	\$5,334M	\$42,545M
IGV	iShares Expanded Tech-Software Sector ETF	(\$162M)	\$89M	(\$369M)	(\$1,329M)	\$5,341M
XLRE	Real Estate Select Sector SPDR Fund	(\$135M)	\$594M	\$1,332M	\$1,331M	\$4,188M
IBB	iShares Biotechnology ETF	(\$124M)	(\$161M)	(\$7M)	(\$441M)	\$10,057M
ITB	iShares U.S. Home Construction ETF	(\$111M)	\$22M	(\$302M)	(\$633M)	\$2,226M
XOP	SPDR S&P Oil & Gas Exploration & Production E	(\$106M)	(\$47M)	(\$465M)	\$105M	\$4,221M
XLP	Consumer Staples Select Sector SPDR Fund	(\$80M)	\$377M	\$761M	(\$2,967M)	\$11,643M

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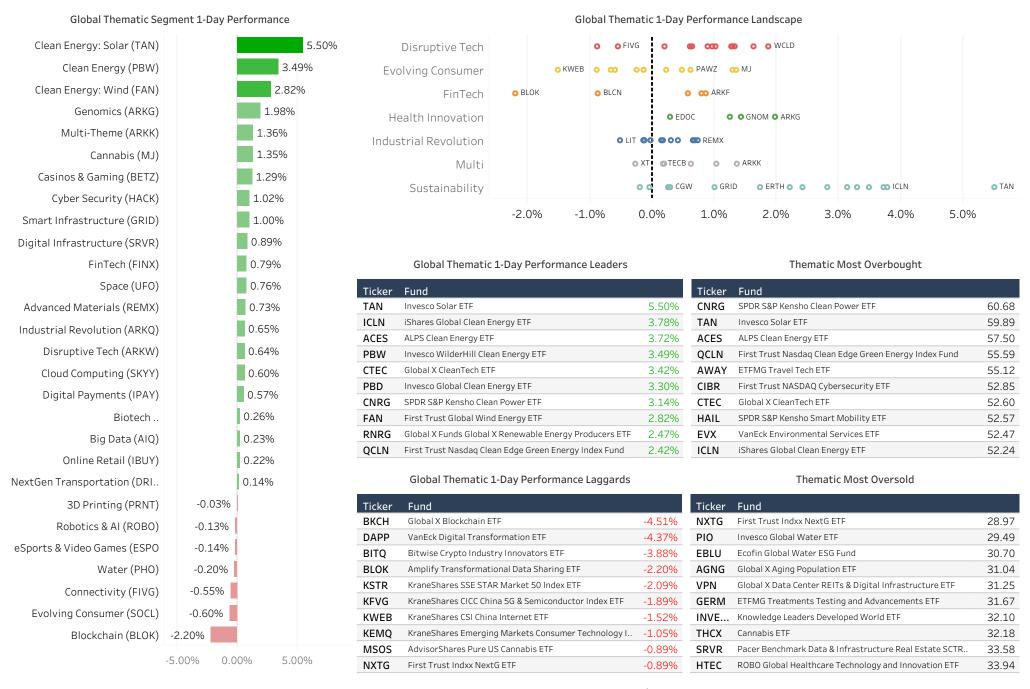




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Ticker Fund

KWEB AWAY

ARKG

CLOU

FIW BLOK

GRID

BUG

FIVG

BKCH

Global X Cybersecurity ETF Defiance Next Gen Connectivity ETF

Global X Blockchain ETF

Thematic 1 Week Flow Leaders

Fund	
KraneShares CSI China Internet ETF	\$231M
ETFMG Travel Tech ETF	\$29M
ARK Genomic Revolution ETF	\$17M
Global X Cloud Computing ETF	\$17M
First Trust Water ETF	\$13M
Amplify Transformational Data Sharing ETF	\$7M
First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$5M
Global X Cybersecurity ETF	\$4M

Thematic 1 Week Flow Laggards

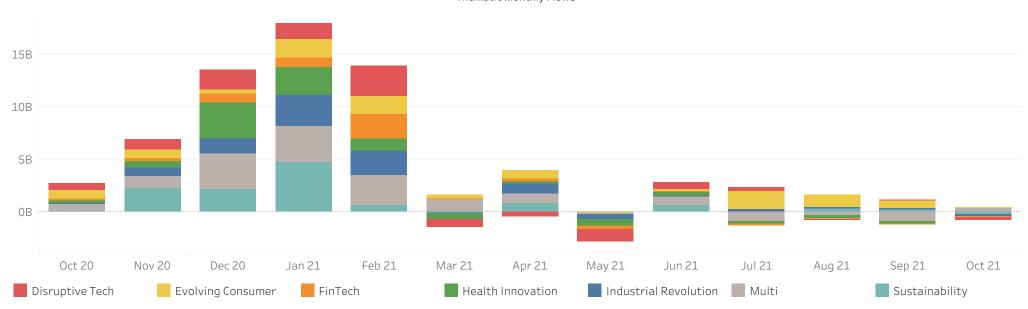
Ticker	Fund	
TAN	Invesco Solar ETF	(\$96M)
NXTG	First Trust Indxx NextG ETF	(\$80M)
ARKW	ARK Next Generation Internet ETF	(\$78M)
ARKF	ARK Fintech Innovation ETF	(\$65M)
KFVG	KraneShares CICC China 5G & Semiconductor Index ETF	(\$39M)
PBW	Invesco WilderHill Clean Energy ETF	(\$36M)
ACES	ALPS Clean Energy ETF	(\$36M)
BOTZ	Global X Robotics & Artificial Intelligence ETF	(\$31M)
PBD	Invesco Global Clean Energy ETF	(\$29M)
ICLN	iShares Global Clean Energy ETF	(\$23M)

Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	31	\$28B	(\$159M)	\$153M	(\$771M)	\$6,324M
Evolving Consumer	39	\$17B	\$210M	\$3,524M	\$4,348M	\$10,639M
FinTech	14	\$8B	(\$12M)	(\$365M)	(\$494M)	\$4,441M
Health Innovation	14	\$9B	\$13M	(\$833M)	(\$1,028M)	\$6,659M
Industrial Revolution	22	\$16B	(\$58M)	\$409M	\$126M	\$8,139M
Multi	28	\$28B	(\$120M)	(\$1,060M)	(\$1,479M)	\$12,457M
Sustainability	34	\$21B	(\$210M)	\$100M	\$1,320M	\$11,780M
Grand Total	182	\$127B	(\$338M)	\$1,927M	\$2,022M	\$60,439M

Thematic Monthly Flows

Global Thematic Flows



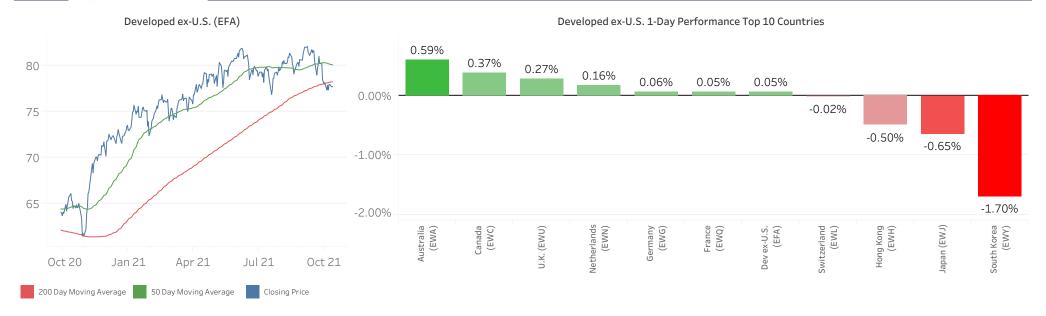
^{*} ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

\$4M

\$4M







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

0B Oct 20 Jan 21 Apr 21 Jul 21 Oct 21

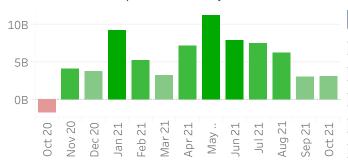
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	
EWD	iShares MSCI Sweden ETF	1.44%
ISRA	VanEck Israel ETF	1.35%
EIS	iShares MSCI Israel ETF	0.89%
EWP	iShares MSCI Spain ETF	0.87%
EDEN	iShares MSCI Denmark ETF	0.85%
FSZ	First Trust Switzerland AlphaDEX Fund	0.77%
IEUS	iShares MSCI Europe Small-Cap ETF	0.74%
EWI	iShares MSCI Italy ETF	0.72%
IMOM	Alpha Architect International Quantitative Momentum ETF	0.72%
PIZ	Invesco DWA Developed Markets Momentum ETF	0.72%

Developed ex-U.S. Most Overbought

Ticker	Fund	
EWC	iShares MSCI Canada ETF	59.44
BBCA	JPMorgan BetaBuilders Canada ETF	58.90
EWO	iShares MSCI Austria ETF	54.54
FIDI	Fidelity International High Dividend ETF	54.08
EWU	iShares MSCI United Kingdom ETF	54.00
EWA	iShares MSCI Australia ETF	53.55
ISRA	VanEck Israel ETF	53.43
EIS	iShares MSCI Israel ETF	53.16
EWP	iShares MSCI Spain ETF	51.50
EWS	iShares MSCI Singapore ETF	50.78

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	
FLKR	Franklin FTSE South Korea ETF	-1.81%
EWY	iShares MSCI South Korea ETF	-1.70%
AIA	iShares Asia 50 ETF	-1.28%
SCJ	iShares MSCI Japan Small-Cap ETF	-0.98%
DFJ	WisdomTree Japan SmallCap Dividend Fund	-0.83%
FLJP	Franklin FTSE Japan ETF	-0.77%
JPXN	iShares JPX-Nikkei 400 ETF	-0.68%
AAXJ	iShares MSCI All Country Asia ex Japan ETF	-0.67%
BBJP	JPMorgan BetaBuilders Japan ETF	-0.67%
EWJ	iShares MSCI Japan ETF	-0.65%

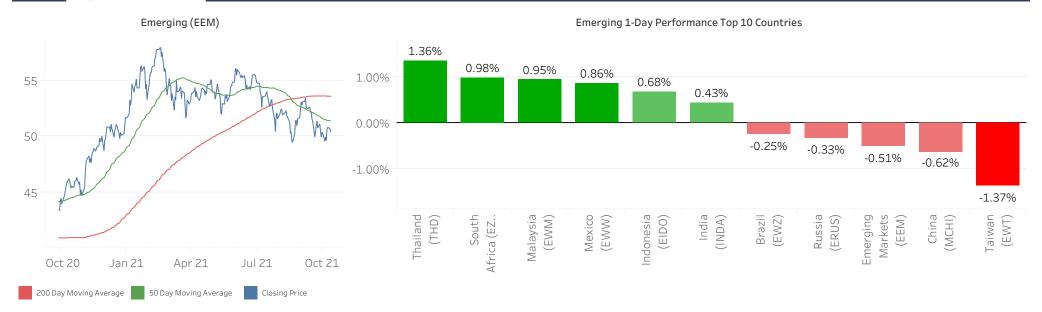
Developed ex-U.S. Most Oversold

Ticker	Fund	
EFAV	iShares MSCI EAFE Min Vol Factor ETF	26.36
EFAD	ProShares MSCI EAFE Dividend Growers ETF	28.78
EUDG	WisdomTree Europe Quality Dividend Growth Fund	29.65
SCJ	iShares MSCI Japan Small-Cap ETF	30.11
RBIN	Nationwide Risk-Based International Equity ETF	30.11
FLKR	Franklin FTSE South Korea ETF	30.34
EWY	iShares MSCI South Korea ETF	30.50
DFJ	WisdomTree Japan SmallCap Dividend Fund	30.58
PIZ	Invesco DWA Developed Markets Momentum ETF	30.63
RFDI	First Trust Riverfront Dynamic Developed Internatio	30.63

^{*}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 Markets Performance





Emerging 30-Day Rolling Flows



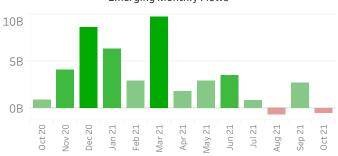
Emerging 1-Day Performance Leaders

Ticker	Fund	
EPU	iShares MSCI Peru ETF	1.75%
THD	iShares MSCI Thailand ETF	1.36%
AFK	VanEck Africa Index ETF	0.99%
EZA	iShares MSCI South Africa ETF	0.98%
EWM	iShares MSCI Malaysia ETF	0.95%
EPOL	iShares MSCI Poland ETF	0.94%
EWW	iShares MSCI Mexico ETF	0.86%
NFTY	First Trust India NIFTY 50 Equal Weight ETF	0.79%
EIDO	iShares MSCI Indonesia ETF	0.68%
FNI	First Trust Chindia ETF	0.60%

Emerging Most Overbought

Ticker	Fund	
EIDO	iShares MSCI Indonesia ETF	80.01
QAT	iShares MSCI Qatar ETF	74.10
ERUS	iShares MSCI Russia ETF	73.12
RSX	VanEck Russia ETF	71.93
EPU	iShares MSCI Peru ETF	69.16
EPHE	iShares MSCI Philippines ETF	67.86
EWM	iShares MSCI Malaysia ETF	67.54
EPOL	iShares MSCI Poland ETF	65.94
SMIN	iShares MSCI India Small Cap ETF	64.54
FM	iShares MSCI Frontier and Select EM ETF	63.44

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

Ticker	Fund	
EWT	iShares MSCI Taiwan ETF	-1.37%
KBA	KraneShares Bosera MSCI China A Share ETF	-1.09%
ECH	iShares MSCI Chile ETF	-1.02%
CNYA	iShares MSCI China A ETF	-1.01%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	-0.96%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	-0.92%
ADRE	Invesco BLDRS Emerging Markets 50 ADR Index Fund	-0.87%
XCEM	Columbia EM Core ex-China ETF	-0.84%
JEMA	JPMorgan ActiveBuilders Emerging Markets Equity ETF	-0.82%
EEMA	iShares MSCI Emerging Markets Asia ETF	-0.81%

Emerging Most Oversold

Ticker	Fund	
ECH	iShares MSCI Chile ETF	25.61
EWT	iShares MSCI Taiwan ETF	36.27
ILF	iShares Latin America 40 ETF	37.55
PIE	Invesco DWA Emerging Markets Momentum ETF	37.55
DGS	WisdomTree Emerging Markets SmallCap Dividend F	37.63
TUR	iShares MSCI Turkey ETF	38.53
DGRE	WisdomTree Emerging Markets Quality Dividend Gr	38.80
FRDM	Freedom 100 Emerging Markets ETF	38.82
FEMS	First Trust Emerging Markets Small Cap AlphaDEX F	39.62
EWZ	iShares MSCI Brazil ETF	39.70

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







Eivod	Incomo	Perform	anco
FIXEG	income	Pertorn	iance

Ticker	Name	1 Day	1 Month	YTD
AGG	U.S. Aggregate	0.37%	-1.14%	-1.91%
SHY	1-3 Year Treasury Bonds	0.05%	-0.20%	-0.24%
IEF	7-10 Year Treasury Bonds	0.46%	-1.77%	-3.84%
TLT	20+ Year Treasury Bonds	1.71%	-2.88%	-7.67%
TIP	TIPS Bonds	0.19%	-0.59%	3.75%
FLOT	Floating Rate Bonds	-0.04%	0.03%	0.45%
LQD	Investment Grade Corporate	0.64%	-1.93%	-2.49%
HYG	High Yield Corporate	0.19%	-1.02%	2.30%
BKLN	Senior Loan	0.00%	0.07%	1.76%
PFF	Preferred & Income Securities	0.36%	-1.48%	3.82%
MUB	Municipal Bonds	0.23%	-0.66%	0.28%
МВВ	MBS	0.12%	-0.65%	-1.05%
ЕМВ	Dollar Denominated EM Bonds	0.32%	-3.24%	-3.35%
LEMB	Local Currency EM Bond	0.26%	-2.97%	-6.92%

Commodities Performance

Name	1 Day	1 Month	YTD
Broad Commodities	-0.33%	6.42%	36.30%
Energy	-0.06%	14.03%	66.42%
WTI Crude Oil	-0.12%	14.98%	69.98%
Brent Crude Oil	-0.23%	15.57%	70.57%
Natural Gas	1.07%	8.70%	105.00%
Gasoline	0.19%	13.58%	71.70%
Precious Metals	0.11%	-2.55%	-10.46%
Gold	0.45%	-1.51%	-7.68%
Silver	0.24%	-4.82%	-14.81%
Platinum	0.32%	5.43%	-6.37%
Palladium	-2.70%	-3.45%	-16.51%
Base Metals	0.00%	2.18%	27.87%
Copper	-0.94%	-2.58%	21.48%
Lead	-0.79%	-4.14%	11.02%
Nickel	-1.73%	-7.09%	11.83%
Aluminum	1.38%	6.09%	53.02%
Tin	-0.87%	8.86%	101.77%
Agriculture	0.00%	4.09%	19.89%
Corn	-1.53%	2.52%	28.11%
Soybeans	-2.03%	-5.27%	8.83%
Wheat	0.42%	7.45%	16.48%
Sugar	-0.98%	2.51%	42.00%
Cotton	-3.25%	13.90%	30.13%
Cocoa	-0.47%	2.63%	1.51%
	Broad Commodities Energy WTI Crude Oil Brent Crude Oil Natural Gas Gasoline Precious Metals Gold Silver Platinum Palladium Base Metals Copper Lead Nickel Aluminum Tin Agriculture Corn Soybeans Wheat Sugar Cotton	Broad Commodities -0.33% Energy -0.06% WTI Crude Oil -0.12% Brent Crude Oil -0.23% Natural Gas 1.07% Gasoline 0.19% Precious Metals 0.11% Gold 0.45% Silver 0.24% Platinum -3.2% Palladium -2.70% Base Metals 0.00% Copper -0.94% Lead -0.79% Nickel -1.73% Aluminum 1.38% Tin -0.87% Agriculture 0.00% Corn -1.53% Soybeans -2.03% Wheat 0.42% Sugar -0.98% Cotton -3.25%	Broad Commodities -0.33% 6.42% Energy -0.06% 14.03% WTI Crude Oil -0.12% 14.98% Brent Crude Oil -0.23% 15.57% Natural Gas 1.07% 8.70% Gasoline 0.19% 13.58% Precious Metals 0.11% -2.55% Gold 0.45% -1.51% Silver 0.24% -4.82% Platinum 0.32% 5.43% Palladium -2.70% -3.45% Base Metals 0.00% 2.18% Copper -0.94% -2.58% Lead -0.79% -4.14% Nickel -1.73% -7.09% Aluminum 1.38% 6.09% Tin -0.87% 8.86% Agriculture 0.00% 4.09% Corn -1.53% 2.52% Soybeans -2.03% -5.27% Wheat 0.42% 7.45% Sugar -0.98% 2.51%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	0.12%	2.01%	4.66%
UDN	Short Dollar	-0.22%	-2.24%	-5.65%
FXE	Euro	-0.17%	-2.43%	-6.34%
FXB	British Pound Sterling	0.07%	-1.73%	-0.86%
FXF	Swiss Franc	-0.25%	-1.33%	-5.71%
FXY	Japanese Yen	-0.24%	-3.35%	-9.59%
FXC	Canadian Dollar	0.25%	1.76%	1.81%
FXA	Australian Dollar	0.05%	0.00%	-4.97%

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Coffee

4.78%

14.12%

57.38%

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