U.S. Size & Style Performance



100

Nov 20

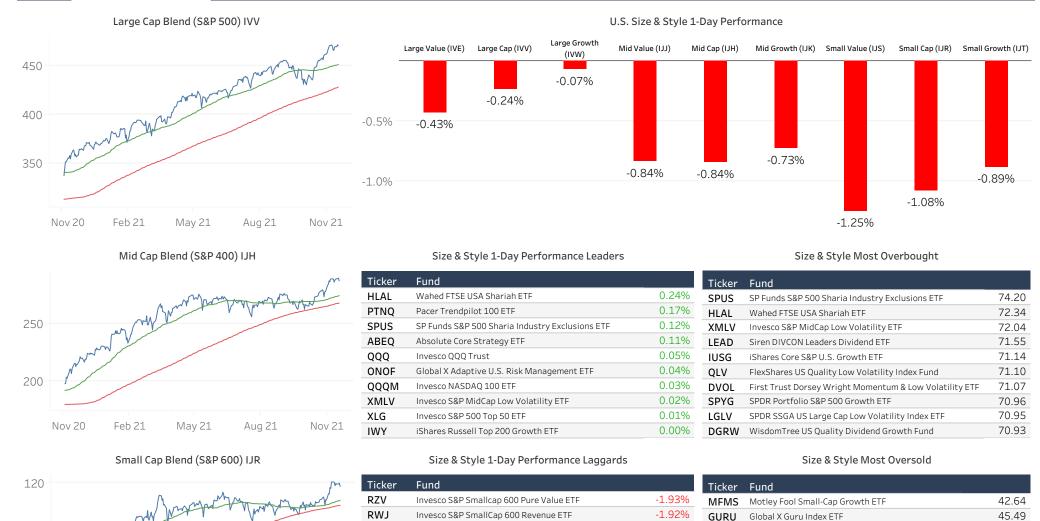
Closing Price

Feb 21

May 21

50 Day Moving Average

Aug 21



QVAL

OMFS

CALF

DWAS

GURU

AVUV

QQQN

SYLD

200 Day Moving Average

Nov 21

Alpha Architect U.S. Quantitative Value ETF

Pacer US Small Cap Cash Cows 100 ETF

Invesco DWA SmallCap Momentum ETF

Avantis U.S. Small Cap Value ETF

Cambria Shareholder Yield ETF

VictoryShares Nasdag Next 50 ETF

Global X Guru Index ETF

Invesco Russell 2000 Dynamic Multifactor ETF

-1.83%

-1.82%

-1.74%

-1.64%

-1.59%

-1.50%

-1.43%

-1.39%

DID

CSD

SPHD

DURA

MTUM

FUNL

FFTY

WBIY

Invesco Dow Jones Industrial Average Dividend ETF

Invesco S&P 500 High Dividend Low Volatility ETF

VanEck Morningstar Durable Dividend ETF

iShares MSCI USA Momentum Factor ETF

CornerCap Fundametrics Large-Cap ETF

WBI Power Factor High Dividend ETF

Invesco S&P Spin-Off ETF

Innovator IBD 50 ETF

48.86

49.55

49.92

51.45

51.57

51.85

51.90

51.92

^{*} 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



y Rolling Flows U.S. Size & Style Landscape Flows

	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Small Cap, Beta, Beta	12	\$238B	\$0.64B	\$8.37B	\$10.19B	\$26.72B
Large Cap, Beta Growth, Beta: Value	11	\$212B	\$0.29B	\$5.31B	\$9.93B	\$31.96B
Small Cap, Beta, Beta: Growth	7	\$41B	\$0.28B	\$0.38B	\$0.50B	\$1.17B
Mid Cap, Beta, Beta: Growth	6	\$43B	\$0.03B	\$0.51B	\$0.20B	(\$2.03B)
Mid Cap, Beta, Beta	10	\$201B	(\$0.01B)	\$3.19B	\$3.08B	\$9.28B
Mid Cap, Beta, Beta: Value	6	\$43B	(\$0.01B)	\$0.51B	\$0.08B	\$4.24B
Large Cap, Beta Growth, Beta: Growth	10	\$280B	(\$0.06B)	\$3.11B	\$9.50B	\$5.57B
Small Cap, Beta, Beta: Value	7	\$61B	(\$0.11B)	\$0.64B	\$0.12B	\$7.99B
Large Cap, Beta Growth, Beta	24	\$1,376B	(\$2.54B)	\$43.49B	\$82.92B	\$101.48B

Mid-Cap 30-Day Rolling Flows



U.S. Size & Style Flow Leaders

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VTI	Vanguard Total Stock Market ETF	\$1.37B	\$11.44B	\$21.82B	\$44.08B	\$293.32B
IVV	iShares Core S&P 500 ETF	\$0.89B	\$10.47B	\$12.79B	\$20.90B	\$326.10B
V00	Vanguard S&P 500 ETF	\$0.89B	\$13.39B	\$24.93B	\$43.78B	\$277.41B
VUG	Vanguard Growth ETF	\$0.35B	\$1.05B	\$3.07B	\$4.43B	\$91.41B
IJR	iShares Core S&P Small Cap ETF	\$0.30B	\$2.42B	\$1.58B	\$4.92B	\$76.84B
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.29B	(\$1.47B)	(\$1.72B)	(\$0.68B)	\$30.15B
VTV	Vanguard Value ETF	\$0.17B	\$2.83B	\$5.81B	\$15.62B	\$90.23B
VBK	Vanguard Small-Cap Growth ETF	\$0.15B	\$0.40B	\$0.67B	\$1.33B	\$17.35B
SUSA	iShares MSCI USA ESG Select ETF	\$0.15B	\$0.67B	\$0.98B	\$1.63B	\$4.59B
SCHD	Schwab US Dividend Equity ETF	\$0.15B	\$2.61B	\$5.00B	\$11.19B	\$30.90B

Small-Cap 30-Day Rolling Flows

\$20B \$10B \$0B		m		who have	JM1	4
	Nov 20	Feb 21	May 21	Aug 2	21 Nov	v 21

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
QQQ	Invesco QQQ Trust	(\$0.72B)	\$7.61B	\$16.18B	\$16.63B	\$207.97B
IWF	iShares Russell 1000 Growth ETF	(\$0.62B)	(\$0.70B)	\$0.04B	(\$2.65B)	\$78.71B
MDY	SPDR S&P Midcap 400 ETF Trust	(\$0.30B)	(\$0.46B)	(\$1.22B)	(\$0.37B)	\$22.02B
IWN	iShares Russell 2000 Value ETF	(\$0.20B)	(\$0.18B)	(\$1.14B)	\$1.41B	\$16.73B
VLUE	iShares MSCI USA Value Factor ETF	(\$0.11B)	(\$0.59B)	(\$0.85B)	\$4.68B	\$15.84B
FVD	First Trust Value Line Dividend Index Fund	(\$0.05B)	\$0.09B	\$0.22B	\$0.60B	\$12.55B
IJJ	iShares S&P Mid-Cap 400 Value ETF	(\$0.05B)	\$0.12B	\$0.05B	\$1.86B	\$9.39B
GSLC	Goldman Sachs ActiveBeta U.S. Large Cap Eq	(\$0.04B)	\$0.17B	\$0.48B	\$0.40B	\$14.56B
AVUV	Avantis U.S. Small Cap Value ETF	(\$0.03B)	\$0.39B	\$0.72B	\$1.24B	\$2.14B
DYNF	BlackRock U.S. Equity Factor Rotation ETF	(\$0.02B)	\$0.00B	\$0.01B	(\$0.01B)	\$0.11B

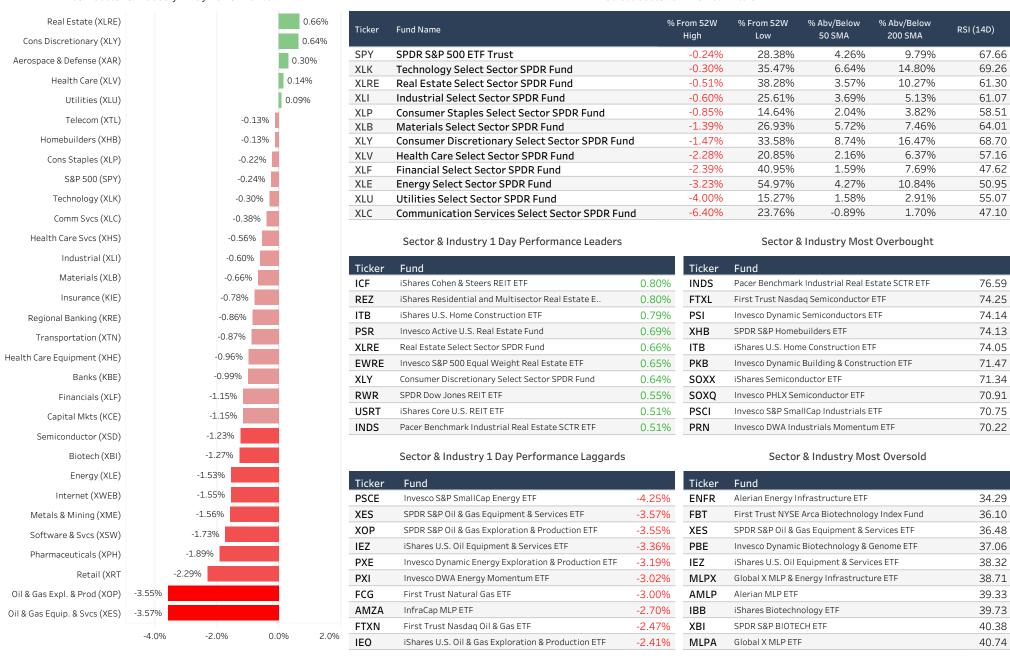
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U.S. Sectors & Industries Performance



S&P Sector & Industry 1 Day Performance

Select Sector SPDRs Technicals



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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	9	\$22B	\$20M	\$808M	\$2,111M	\$2,135M
Consumer Discretionary	13	\$39B	\$33M	\$1,688M	\$167M	\$3,539M
Consumer Staples	12	\$21B	\$203M	(\$739M)	\$715M	(\$3,092M)
Energy	34	\$56B	(\$117M)	\$460M	(\$296M)	\$9,925M
Financials	28	\$86B	(\$556M)	\$2,189M	(\$458M)	\$22,981M
Health Care	26	\$91B	(\$30M)	\$1,393M	\$3,735M	\$3,820M
Industrial	14	\$36B	(\$223M)	(\$1,983M)	(\$4,226M)	\$1,657M
Materials	10	\$17B	\$9M	(\$887M)	(\$1,099M)	\$4,558M
Multi-Sector	17	\$27B	(\$2M)	\$1,000M	\$783M	\$4,011M
Real Estate	22	\$79B	(\$168M)	\$4,301M	\$7,721M	\$12,751M
Technology	24	\$157B	(\$275M)	\$3,384M	\$5,640M	\$3,512M
Utilities	10	\$20B	\$39M	(\$788M)	\$725M	(\$154M)

U.S. Sector & Industry Flow Leaders

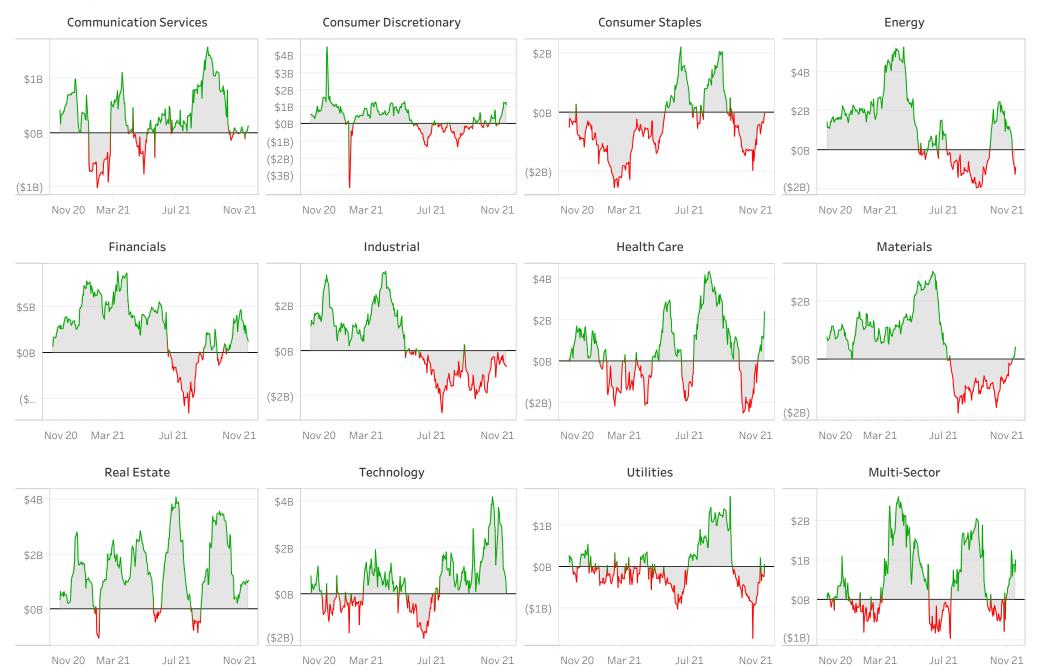
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLV	Health Care Select Sector SPDR Fund	\$273M	\$507M	\$3,348M	\$3,341M	\$33,049M
XLP	Consumer Staples Select Sector SPDR Fund	\$160M	(\$923M)	\$503M	(\$2,691M)	\$12,024M
IYW	iShares U.S. Technology ETF	\$109M	\$352M	\$820M	\$498M	\$9,684M
XRT	SPDR S&P Retail ETF	\$82M	\$356M	\$357M	\$283M	\$1,301M
PAVE	Global X U.S. Infrastructure Development ETF	\$73M	\$682M	\$1,373M	\$3,949M	\$5,395M
VGT	Vanguard Information Technology ETF	\$68M	\$1,531M	\$2,145M	\$2,287M	\$55,564M
KBE	SPDR S&P Bank ETF	\$46M	\$89M	(\$449M)	\$283M	\$3,567M
VDC	Vanguard Consumer Staples ETF	\$43M	\$236M	\$320M	(\$57M)	\$6,210M
XME	SPDR S&P Metals & Mining ETF	\$37M	(\$58M)	(\$236M)	\$737M	\$1,935M
VHT	Vanguard Health Care ETF	\$26M	\$338M	\$1,015M	\$1,991M	\$16,774M

U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
KBWB	Invesco KBW Bank ETF	(\$401M)	(\$347M)	\$22M	\$1,101M	\$3,057M
XBI	SPDR S&P BIOTECH ETF	(\$273M)	\$494M	\$195M	\$895M	\$7,262M
XLK	Technology Select Sector SPDR Fund	(\$252M)	(\$49M)	\$871M	(\$1,148M)	\$49,008M
XLI	Industrial Select Sector SPDR Fund	(\$230M)	(\$1,552M)	(\$2,919M)	(\$528M)	\$18,263M
IYR	iShares U.S. Real Estate ETF	(\$209M)	\$1,440M	\$1,483M	\$1,209M	\$7,088M
IGV	iShares Expanded Tech-Software Sector ETF	(\$177M)	\$360M	\$54M	(\$1,024M)	\$6,349M
KRE	SPDR S&P Regional Banking ETF	(\$131M)	\$126M	(\$469M)	\$2,350M	\$5,360M
XOP	SPDR S&P Oil & Gas Exploration & Production E	(\$113M)	(\$717M)	(\$896M)	(\$516M)	\$3,787M
XLF	Financial Select Sector SPDR Fund	(\$74M)	\$1,261M	(\$1,521M)	\$12,257M	\$45,537M
RCD	Invesco S&P 500 Equal Weight Consumer Discr	(\$51M)	(\$233M)	(\$495M)	\$49M	\$551M

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

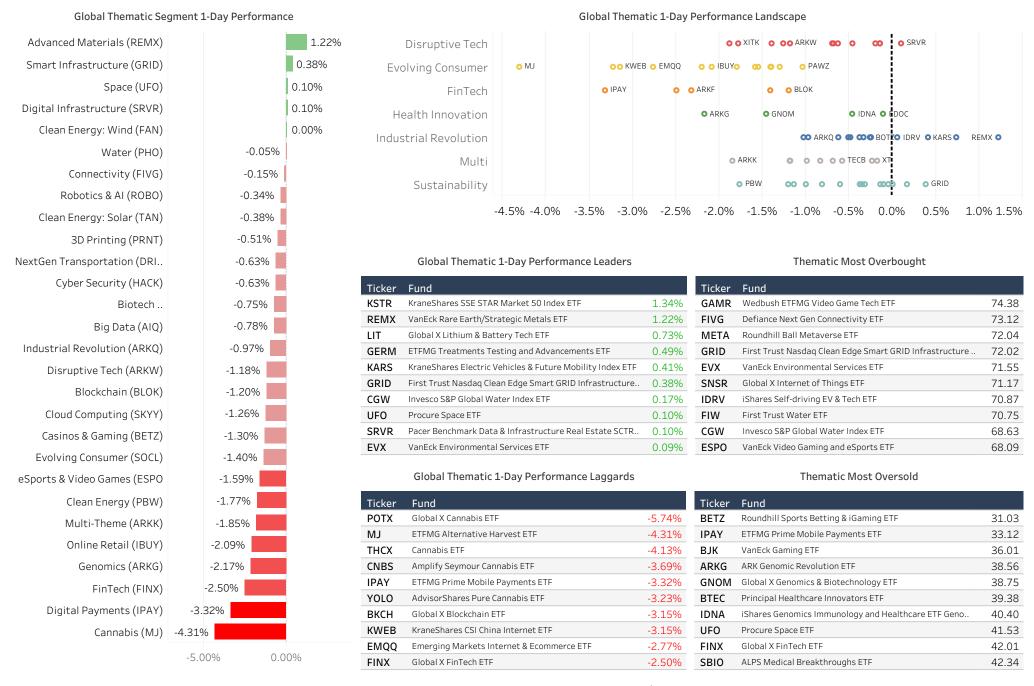




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♦ETF



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Global Thematic Flows



iShares Exponential Technologies ETF

iShares Self-driving EV & Tech ETF

Ticker Fund

KWEB

MSOS

ARKK

DRIV

BLOK

IDRV

XT

LIT

Thematic 1 Week Flow Leaders

THE HALLE I WEEK TOW LEAGE S	
Fund	
KraneShares CSI China Internet ETF	\$630M
Roundhill Ball Metaverse ETF	\$237M
AdvisorShares Pure US Cannabis ETF	\$233M
Global X Lithium & Battery Tech ETF	\$162M
ARK Innovation ETF	\$123M
First Trust NASDAQ Cybersecurity ETF	\$61M
Global X Autonomous & Electric Vehicles ETF	\$56M
Amplify Transformational Data Sharing ETF	\$48M

\$36M

\$27M

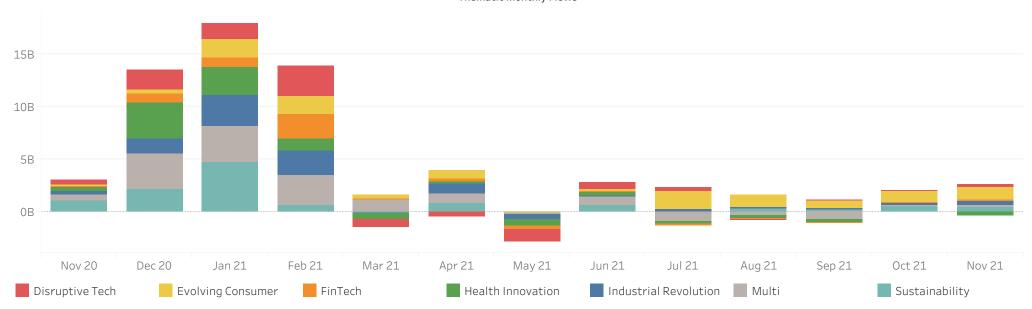
Thematic 1 Week Flow Laggards

Ticker	Fund	
ARKG	ARK Genomic Revolution ETF	(\$237M)
CLOU	Global X Cloud Computing ETF	(\$39M)
IBUY	Amplify Online Retail ETF	(\$33M)
ARKF	ARK Fintech Innovation ETF	(\$29M)
BATT	Amplify Lithium & Battery Technology ETF	(\$26M)
HACK	ETFMG Prime Cyber Security ETF	(\$23M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$22M)
WCLD	WisdomTree Cloud Computing Fund	(\$16M)
ARKW	ARK Next Generation Internet ETF	(\$15M)
SKYY	First Trust Cloud Computing ETF	(\$12M)

Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	36	\$31B	(\$447M)	\$417M	\$1,215M	\$5,730M
Evolving Consumer	41	\$20B	\$839M	\$4,147M	\$6,524M	\$11,186M
FinTech	16	\$9B	\$45M	\$71M	\$22M	\$4,450M
Health Innovation	16	\$9B	(\$267M)	(\$581M)	(\$674M)	\$5,864M
Industrial Revolution	24	\$19B	\$227M	\$736M	\$1,207M	\$8,466M
Multi	28	\$30B	\$292M	(\$56M)	(\$551M)	\$11,239M
Sustainability	36	\$26B	\$83M	\$1,357M	\$2,519M	\$11,751M
Grand Total	197	\$144B	\$772M	\$6,091M	\$10,263M	\$58,684M

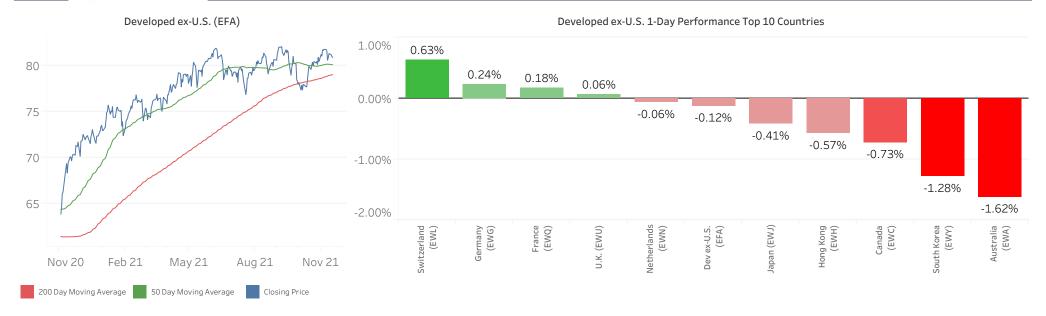
Thematic Monthly Flows



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

15B 10B 5B 0B Nov 20 Feb 21 May 21 Aug 21 Nov 21

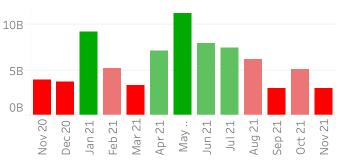
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	
FLEE	Franklin FTSE Europe ETF	0.84%
GREK	Global X MSCI Greece ETF	0.65%
EWL	iShares MSCI Switzerland ETF	0.63%
IDHQ	Invesco S&P International Developed High Quality ETF	0.51%
FSZ	First Trust Switzerland AlphaDEX Fund	0.44%
EUDG	WisdomTree Europe Quality Dividend Growth Fund	0.36%
FEP	First Trust Europe AlphaDEX Fund	0.32%
EWUS	iShares MSCI United Kingdom Small Cap ETF	0.30%
FGM	First Trust Germany AlphaDEX Fund	0.30%
HEDI	WisdomTree Europe Hedged Equity Fund	0.28%

Developed ex-U.S. Most Overbought

Ticker	Fund	
HEDJ	WisdomTree Europe Hedged Equity Fund	78.49
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	76.06
HEZU	iShares Currency Hedged MSCI Eurozone ETF	73.69
HEWG	iShares Currency Hedged MSCI Germany ETF	71.50
EIS	iShares MSCI Israel ETF	66.78
EUSC	WisdomTree Europe Hedged SmallCap Equity Fund	66.56
IHDG	WisdomTree International Hedged Quality Dividend Grow	66.07
HEFA	iShares Currency Hedged MSCI EAFE ETF	65.48
DBEF	Xtrackers MSCI EAFE Hedged Equity ETF	65.32
TOK	iShares MSCI Kokusai ETF	64.64

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	
EWA	iShares MSCI Australia ETF	-1.62%
FLKR	Franklin FTSE South Korea ETF	-1.31%
EWY	iShares MSCI South Korea ETF	-1.28%
EPP	iShares MSCI Pacific ex-Japan ETF	-1.26%
BBAX	JPMorgan BetaBuilders Developed Asia ex-Japan ETF	-1.15%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	-1.09%
HEWJ	iShares Currency Hedged MSCI Japan ETF	-1.08%
EIRL	iShares MSCI Ireland ETF	-1.06%
DXJ	WisdomTree Japan Hedged Equity Fund	-0.97%
EWJV	iShares MSCI Japan Value ETF	-0.97%

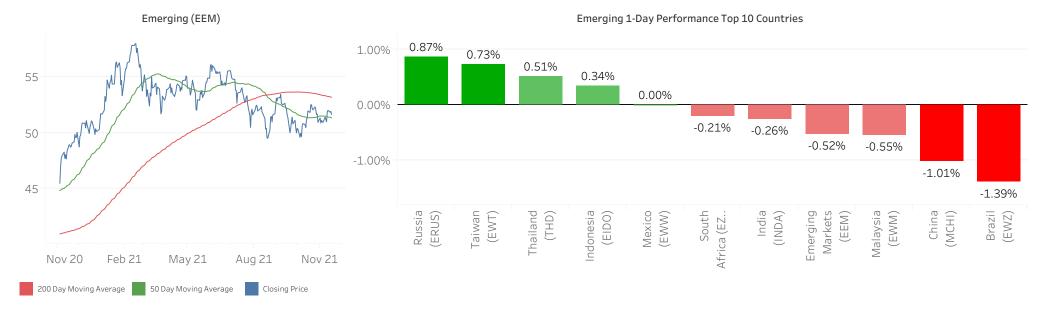
Developed ex-U.S. Most Oversold

Ticker	Fund	
EIRL	iShares MSCI Ireland ETF	31.45
ENZL	iShares MSCI New Zealand ETF	34.50
DFJ	WisdomTree Japan SmallCap Dividend Fund	34.89
DLS	WisdomTree International SmallCap Dividend Fund	38.19
SCJ	iShares MSCI Japan Small-Cap ETF	38.46
EWP	iShares MSCI Spain ETF	38.54
EWA	iShares MSCI Australia ETF	39.00
IDV	iShares International Select Dividend ETF	39.96
IVAL	Alpha Architect International Quantitative Value ETF	40.02
EPP	iShares MSCI Pacific ex-Japan ETF	40.14

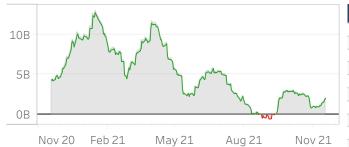
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Emerging 30-Day Rolling Flows



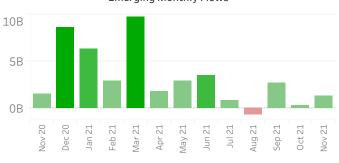
Emerging 1-Day Performance Leaders

Ticker	Fund	
ERUS	iShares MSCI Russia ETF	0.87%
RSX	VanEck Russia ETF	0.84%
EWT	iShares MSCI Taiwan ETF	0.73%
THD	iShares MSCI Thailand ETF	0.51%
DGRE	WisdomTree Emerging Markets Quality Dividend Growt	0.49%
KBA	KraneShares Bosera MSCI China A Share ETF	0.47%
CNYA	iShares MSCI China A ETF	0.44%
EIDO	iShares MSCI Indonesia ETF	0.34%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	0.31%
FWX	SPDR S&P Emerging Markets Small Cap ETF	0.26%

Emerging Most Overbought

	Ticker	Fund	
6	VNM	VanEck Vietnam ETF	73.51
6	EWT	iShares MSCI Taiwan ETF	69.26
6	THD	iShares MSCI Thailand ETF	67.39
6	PIE	Invesco DWA Emerging Markets Momentum ETF	62.69
6	EEMV	iShares MSCI Emerging Markets Min Vol Factor ETF	60.85
6	EWX	SPDR S&P Emerging Markets Small Cap ETF	59.72
6	QAT	iShares MSCI Qatar ETF	58.89
6	ECNS	iShares MSCI China Small-Cap ETF	58.65
6	EELV	Invesco S&P Emerging Markets Low Volatility ETF	58.54
6	GMF	SPDR S&P Emerging Asia Pacific ETF	57.53

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

Ticker	Fund	
PGJ	Invesco Golden Dragon China ETF	-3.21%
ECH	iShares MSCI Chile ETF	-3.21%
EWZS	iShares MSCI Brazil Small-Cap ETF	-2.54%
ILF	iShares Latin America 40 ETF	-2.11%
FNI	First Trust Chindia ETF	-1.97%
FLBR	Franklin FTSE Brazil ETF	-1.77%
EWZ	iShares MSCI Brazil ETF	-1.39%
TUR	iShares MSCI Turkey ETF	-1.39%
ADRE	Invesco BLDRS Emerging Markets 50 ADR Index Fund	-1.16%
FXI	iShares China Large-Cap ETF	-1.13%

Emerging Most Oversold

Ticker	Fund	
EPOL	iShares MSCI Poland ETF	26.68
ILF	iShares Latin America 40 ETF	35.99
EWM	iShares MSCI Malaysia ETF	36.27
SDEM	Global X MSCI SuperDividend Emerging Markets ETF	36.31
DVYE	iShares Emerging Markets Dividend ETF	39.05
EWW	iShares MSCI Mexico ETF	39.73
FEM	First Trust Emerging Markets AlphaDEX Fund	40.30
ECH	iShares MSCI Chile ETF	40.58
ERUS	iShares MSCI Russia ETF	41.05
FLBR	Franklin FTSE Brazil ETF	41.46

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		D (
FIXEG	Income	Performance

Ticker	Name	1 Day	1 Month	YTD
AGG	U.S. Aggregate	0.24%	-0.23%	-1.97%
SHY	1-3 Year Treasury Bonds	0.03%	-0.16%	-0.49%
IEF	7-10 Year Treasury Bonds	0.36%	-0.02%	-3.93%
TLT	20+ Year Treasury Bonds	0.79%	0.98%	-6.06%
TIP	TIPS Bonds	0.20%	1.61%	5.94%
FLOT	Floating Rate Bonds	-0.04%	-0.03%	0.48%
LQD	Investment Grade Corporate	0.40%	-0.51%	-2.39%
HYG	High Yield Corporate	-0.10%	-0.28%	2.69%
BKLN	Senior Loan	-0.14%	0.03%	1.84%
PFF	Preferred & Income Securities	-0.03%	-0.09%	4.72%
MUB	Municipal Bonds	0.03%	0.16%	0.41%
МВВ	MBS	0.11%	-0.35%	-1.33%
ЕМВ	Dollar Denominated EM Bonds	0.11%	-0.38%	-2.80%
LEMB	Local Currency EM Bond	-0.05%	-2.06%	-8.38%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-0.93%	-2.68%	35.94%
DBE	Energy	-2.22%	-4.55%	62.73%
USO	WTI Crude Oil	-2.14%	-3.76%	66.62%
BNO	Brent Crude Oil	-2.28%	-4.25%	66.15%
UNG	Natural Gas	-5.12%	-13.48%	77.17%
UGA	Gasoline	-2.25%	-4.97%	69.72%
DBP	Precious Metals	1.01%	5.91%	-3.98%
GLD	Gold	0.91%	5.55%	-2.16%
SLV	Silver	0.91%	7.37%	-5.70%
PPLT	Platinum	-0.04%	0.34%	-1.76%
PALL	Palladium	1.90%	5.70%	-10.84%
DBB	Base Metals	-1.01%	-13.89%	19.29%
CPER	Copper	-2.82%	-10.85%	18.76%
LD	Lead	-2.24%	-4.36%	13.66%
JJN	Nickel	-1.39%	-3.96%	14.73%
JJU	Aluminum	1.23%	-17.86%	29.07%
JJT	Tin	0.36%	3.40%	114.74%
DBA	Agriculture	1.21%	4.74%	24.60%
CORN	Corn	0.66%	7.34%	37.93%
SOYB	Soybeans	1.56%	3.45%	13.97%
WEAT	Wheat	1.91%	10.97%	29.08%
CANE	Sugar	1.97%	2.61%	45.63%
BAL	Cotton	2.10%	13.14%	48.18%
NIB	Cocoa	0.58%	-3.90%	-5.26%
JO	Coffee	3.49%	13.66%	70.20%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.19%	1.94%	5.98%
UDN	Short Dollar	0.20%	-2.13%	-6.98%
FXE	Euro	0.07%	-2.50%	-8.16%
FXB	British Pound Sterling	0.47%	-1.90%	-1.70%
FXF	Swiss Franc	0.27%	-0.74%	-5.64%
FXY	Japanese Yen	0.61%	-0.04%	-10.04%
FXC	Canadian Dollar	-0.38%	-1.94%	0.48%
FXA	Australian Dollar	-0.47%	-2.15%	-6.16%

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

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