Daily Note Markets through the lens of ETFs™

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U.S. Size & Style

S&P 500

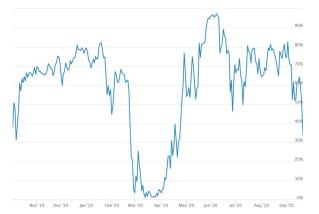


Nov'19 Dec'19 Jan'20 Feb'20 Mar'20 Apr'20 May'20 Jun'20 Jul'20 Aug'20 — SPY — BB (50, 1) — BB (50, 2)

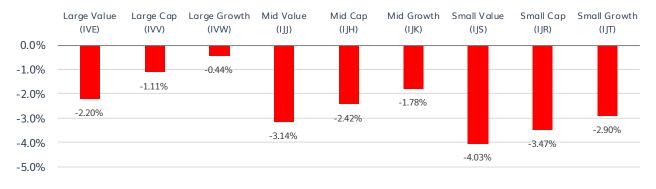
14 Day RSI (SPY)



Holdings Above/Below 50 DMA (SPY)



U.S. Size & Style 1-Day Performance



1-Day Leaders

Ticker	Name	Return
ENTR	ERShares Entrepreneur 30 ETF	1.62%
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	0.54%
AIEQ	AI Powered Equity ETF	0.49%
QQQ	Invesco QQQ Trust	0.39%
MTUM	iShares Edge MSCI USA Momentum Factor ETF	0.36%
QYLD	Global X NASDAQ 100 Covered Call ETF	0.34%
FPX	First Trust US Equity Opportunities ETF	0.33%
ЈКН	iShares Morningstar Mid-Cap Growth ETF	0.26%
SCHG	Schwab U.S. Large-Cap Growth ETF	0.21%
MGK	Vanguard Mega Cap Growth ETF	0.20%
QGRO	American Century STOXX U.S. Quality Growth ETF	0.17%

1-Day Laggards

Ticker	Name	Return
FDM	First Trust Dow Jones Select MicroCap Index Fund	-5.64%
OMFS	Invesco Russell 2000 Dynamic Multifactor ETF	-5.22%
FYT	First Trust Small Cap Value AlphaDEX Fund	-5.09%
DIVC	C-Tracks ETN Miller/Howard Strategic Dividend Reinvestor	-4.82%
XSVM	Invesco S&P SmallCap Value with Momentum ETF	-4.74%
RZV	Invesco S&P Smallcap 600 Pure Value ETF	-4.73%
SPHB	Invesco S&P 500 High Beta ETF	-4.52%
CSB	VictoryShares US Small Cap High Div Volatility Wtd ETF	-4.39%
RWJ	Invesco S&P SmallCap 600 Revenue ETF	-4.36%
EES	WisdomTree U.S. SmallCap Fund	-4.30%
IWN	iShares Russell 2000 Value ETF	-4.28%

Most Overbought (14-Day RSI)

Ticker	Name	RSI
PUTW	WisdomTree CBOE S&P 500 PutWrite Strategy Fund	52.30
FPX	First Trust US Equity Opportunities ETF	51.34
ENTR	ERShares Entrepreneur 30 ETF	51.01
CLRG	IQ Chaikin U.S. Large Cap ETF	50.55
GVIP	Goldman Sachs Hedge Industry VIP ETF	48.44
DWAS	Invesco DWA SmallCap Momentum ETF	48.37
FNY	First Trust Mid Cap Growth AlphaDEX Fund	48.32
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	47.52
KOMP	SPDR S&P Kensho New Economies Composite ETF	47.44
MTUM	iShares Edge MSCI USA Momentum Factor ETF	47.15
RBUS	Nationwide Risk-Based U.S. Equity ETF	46.73

Most Oversold (14-Day RSI)

Ticker	Name	RSI
FTHI	First Trust BuyWrite Income ETF	27.75
XSLV	Invesco S&P SmallCap Low Volatility ETF	29.55
XMLV	Invesco S&P MidCap Low Volatility ETF	29.80
VRAI	Virtus Real Asset Income ETF	31.35
SMDV	ProShares Russell 2000 Dividend Growers ETF	31.97
REGL	ProShares S&P MidCap 400 Dividend Aristocrats ETF	33.29
SMMV	iShares Edge MSCI Min Vol USA Small-Cap ETF	33.66
VIOG	Vanguard S&P Small-Cap 600 Growth ETF	33.90
DES	WisdomTree U.S. SmallCap Dividend Fund	33.97
SMLV	SPDR SSGA US Small Cap Low Volatility Index ETF	34.09
SLY	SPDR S&P 600 Small Cap ETF	34.18

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U.S. Sectors & Industries

S&P Sector & Industry 1-Day Performance

Technology (XLK)	— 0.83%
Internet (XWEB)	-0.02%
Software & Svcs (XSW)	-0.22%
Utilities (XLU)	-0.62%
Cons Staples (XLP)	-0.76%
S&P 500 (SPY)	-1.11%
Comm Svcs (XLC)	-1.17%
Semiconductor (XSD)	-1.19%
Telecom (XTL)	-1.39%
Cons Discretionary (XLY)	-1.44%
Health Care Equipment (XHE)	-1.56%
Health Care (XLV)	-1.84%
Homebuilders (XHB)	-1.86%
Retail (XRT)	-1.96%
Insurance (KIE)	-2.40%
Financials (XLF)	-2.49%
Health Care Svcs (XHS)	-2.50%
Capital Mkts (KCE)	-2.60%
Real Estate (XLRE)	-2.66%
Pharmaceuticals (XPH)	-2.75%
Aerospace & Defense (XAR)	-3.03%
Energy (XLE)	-3.26%
Industrial (XLI)	-3.31%
Materials (XLB)	-3.35%
Biotech (XBI)	-3.55%
Transportation (XTN)	-3.79%
Oil & Gas Expl. & Prod (XOP)	-3.83%
Banks (KBE)	-4.44%
Regional Banking (KRE)	-4.66%
Metals & Minging (XME)	-7.17%
Oil & Gas Equip. & Svcs (XES)	-7.29%
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Select Sector SPDRs Technicals

Ticker	Fund Name	% From 52W	% From 52W	% Abv/Below 50	% Abv/Below	RSI(14D)	
		High	Low	SMA	200 SMA	101(112)	
XLB	Materials Select Sector SPDR Fund	-5.47%	64.82%	0.66%	11.51%	45.81	
XLV	Health Care Select Sector SPDR Fund	-5.72%	38.27%	-2.81%	2.69%	38.58	
XLP	Consumer Staples Select Sector SPDR Fund	-6.00%	29.20%	-1.48%	3.31%	37.80	
XLY	Consumer Discretionary Select Sector SPDR Fund	-7.97%	61.82%	-0.95%	12.94%	39.51	
XLI	Industrial Select Sector SPDR Fund	-10.98%	55.57%	0.33%	5.15%	43.89	
XLC	Communication Services Select Sector SPDR Fund	-11.07%	44.03%	-3.14%	7.32%	37.15	
XLK	Technology Select Sector SPDR Fund	-11.49%	59.72%	-1.34%	14.05%	43.09	
XLRE	Real Estate Select Sector SPDR Fund	-17.86%	35.27%	-3.94%	-3.84%	37.28	
XLU	Utilities Select Sector SPDR Fund	-18.77%	28.33%	-3.55%	-4.94%	38.21	
XLF	Financial Select Sector SPDR Fund	-23.23%	35.50%	-2.82%	-5.29%	38.93	
XLE	Energy Select Sector SPDR Fund	-48.43%	35.64%	-11.42%	-23.30%	31.66	

1-Day Leaders

Ticker	Name	Return
PTF	Invesco DWA Technology Momentum ETF	2.97%
XITK	SPDR FactSet Innovative Technology ETF	1.72%
PSJ	Invesco Dynamic Software ETF	1.54%
FXL	First Trust Technology AlphaDEX Fund	1.34%
IYW	iShares U.S. Technology ETF	1.14%
VGT	Vanguard Information Technology ETF	0.92%
FTEC	Fidelity MSCI Information Technology Index ETF	0.91%
FDN	First Trust Dow Jones Internet Index Fund	0.89%
XLK	Technology Select Sector SPDR Fund	0.83%
XNTK	SPDR NYSE Technology ETF	0.80%
PNQI	Invesco NASDAQ Internet ETF	0.79%

1-Day Laggards

Ticker	Name	Return
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-7.29%
IEZ	iShares U.S. Oil Equipment & Services ETF	-7.26%
XME	SPDR S&P Metals & Mining ETF	-7.17%
QABA	First Trust NASDAQ ABA Community Bank Index Fund	-5.22%
KBWR	Invesco KBW Regional Banking ETF	-5.00%
KBWY	Invesco KBW Premium Yield Equity REIT ETF	-4.93%
PYZ	Invesco DWA Basic Materials Momentum ETF	-4.90%
RDOG	ALPS REIT Dividend Dogs ETF	-4.78%
NETL	NETLease Corporate Real Estate ETF	-4.71%
KRE	SPDR S&P Regional Banking ETF	-4.66%
AIRR	First Trust RBA American Industrial Renaissance ETF	-4.55%

Most Overbought (14-Day RSI)

Ticker	Name	RSI
BTEC	Principal Healthcare Innovators Index ETF	55.60
PTH	Invesco DWA Healthcare Momentum ETF	55.36
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	53.02
XBI	SPDR S&P BIOTECH ETF	52.48
XITK	SPDR FactSet Innovative Technology ETF	52.00
IYT	iShares Transportation Average ETF	51.29
PTF	Invesco DWA Technology Momentum ETF	51.18
SBIO	ALPS Medical Breakthroughs ETF	50.31
XNTK	SPDR NYSE Technology ETF	49.76
PSJ	Invesco Dynamic Software ETF	49.60
XPH	SPDR S&P Pharmaceuticals ETF	49.44

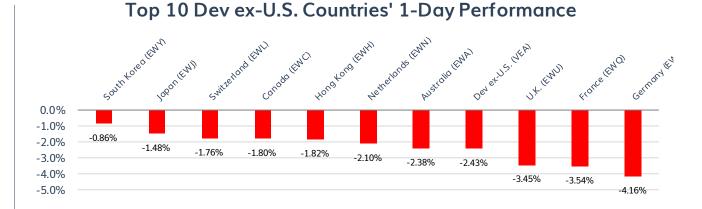
Most Oversold (14-Day RSI)

Ticker	Name	RSI
PSCF	Invesco S&P SmallCap Financials ETF	28.70
AMZA	InfraCap MLP ETF	29.46
AMU	ETRACS Alerian MLP Index ETN	30.28
AMJ	J.P. Morgan Alerian MLP Index ETN	30.84
MLPA	Global X MLP ETF	30.97
AMLP	Alerian MLP ETF	31.23
QABA	First Trust NASDAQ ABA Community Bank Index Fund	31.25
EMLP	First Trust North American Energy Infrastructure Fund	31.39
PBJ	Invesco Dynamic Food & Beverage ETF	31.53
AMUB	ETRACS Alerian MLP Index ETN Class B	31.55
XLE	Energy Select Sector SPDR Fund	31.85

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Developed ex-U.S. Equity Markets



1-Day Leaders

Ticker	Name	Return
EWS	iShares MSCI Singapore ETF	-0.85%
EWY	iShares MSCI South Korea ETF	-0.86%
ISRA	VanEck Vectors Israel ETF	-0.98%
DXJS	WisdomTree Japan Hedged SmallCap Equity Fund	-1.05%
EIS	iShares MSCI Israel ETF	-1.29%
IDLV	Invesco S&P International Developed Low Volatility ETF	-1.34%
JPXN	iShares JPX-Nikkei 400 ETF	-1.36%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	-1.38%
IHDG	WisdomTree International Hedged Quality Dividend Growth F	-1.45%
HEWJ	iShares Currency Hedged MSCI Japan ETF	-1.46%
PIZ	Invesco DWA Developed Markets Momentum ETF	-1.46%

1-Day Laggards

Ticker	Name	Return
FGM	First Trust Germany AlphaDEX Fund	-5.21%
GREK	Global X MSCI Greece ETF	-4.47%
EWUS	iShares MSCI United Kingdom Small Cap ETF	-4.22%
EIRL	iShares MSCI Ireland ETF	-4.17%
EWG	iShares MSCI Germany ETF	-4.16%
FDD	First Trust Stoxx European Select Dividend Index Fund	-3.93%
EWD	iShares MSCI Sweden ETF	-3.58%
FEZ	SPDR EURO STOXX 50 ETF	-3.57%
EWQ	iShares MSCI France ETF	-3.54%
FLGB	Franklin FTSE United Kingdom ETF	-3.51%
EWO	iShares MSCI Austria ETF	-3.45%

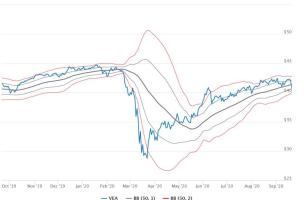
Most Overbought (14-Day RSI)

Ticker	Name	RSI
SCJ	iShares MSCI Japan Small-Cap ETF	64.56
DFJ	WisdomTree Japan SmallCap Dividend Fund	63.31
DXJS	WisdomTree Japan Hedged SmallCap Equity Fund	61.70
EWY	iShares MSCI South Korea ETF	55.89
JPXN	iShares JPX-Nikkei 400 ETF	53.71
FLJP	Franklin FTSE Japan ETF	53.54
BBJP	JPMorgan BetaBuilders Japan ETF	52.63
FJP	First Trust Japan AlphaDEX Fund	52.56
GWX	SPDR S&P International Small Cap ETF	52.55
IMOM	Alpha Architect International Quantitative Momentum ETF	52.38
EWJ	iShares MSCI Japan ETF	52.28

Most Oversold (14-Day RSI)

Ticker	Name	RSI
IDOG	ALPS International Sector Dividend Dogs ETF	30.77
FDD	First Trust Stoxx European Select Dividend Index Fund	31.11
EWO	iShares MSCI Austria ETF	33.66
EWUS	iShares MSCI United Kingdom Small Cap ETF	33.79
HDEF	Xtrackers MSCI EAFE High Dividend Yield Equity ETF	35.22
EWP	iShares MSCI Spain ETF	35.30
FLGB	Franklin FTSE United Kingdom ETF	36.16
EWI	iShares MSCI Italy ETF	36.53
EWU	iShares MSCI United Kingdom ETF	36.58
LVHI	Legg Mason International Low Volatility High Dividend ETF	36.60
EFV	iShares MSCI EAFE Value ETF	36.70



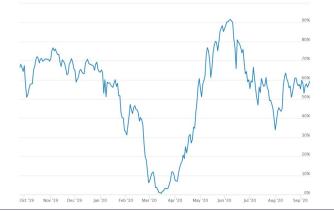








Holdings Above/Below 50 DMA (VEA)



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EM & Frontier Equity Markets

Emerging (VWO)

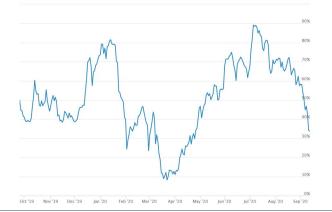


- VWO - BB (50, 1) - BB (50, 2)

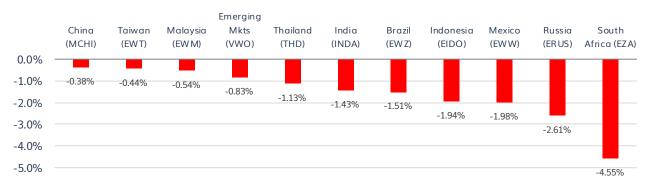




Holdings Above/Below 50 DMA (VWO)



Top 10 EM Countries' 1-Day Performance



1-Day Leaders

Ticker	Name	Return
KSA	iShares MSCI Saudi Arabia ETF	-0.17%
CNYA	iShares MSCI China A ETF	-0.19%
FM	iShares MSCI Frontier 100 ETF	-0.27%
EPHE	iShares MSCI Philippines ETF	-0.30%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	-0.31%
MCHI	iShares MSCI China ETF	-0.38%
GLCN	VanEck Vectors ChinaAMC CSI 300 ETF USD	-0.42%
EWT	iShares MSCI Taiwan ETF	-0.44%
PIE	Invesco DWA Emerging Markets Momentum ETF	-0.47%
KBA	KraneShares Bosera MSCI China A Share ETF	-0.50%
DBEM	Xtrackers MSCI Emerging Markets Hedged Equity ETF	-0.51%

1-Day Laggards

Ticker	Name	Return
EZA	iShares MSCI South Africa ETF	-4.55%
EPOL	iShares MSCI Poland ETF	-3.10%
LDEM	iShares ESG MSCI EM Leaders ETF	-2.86%
RSX	VanEck Vectors Russia ETF	-2.83%
EWZS	iShares MSCI Brazil Small-Cap ETF	-2.80%
FLN	First Trust Latin America AlphaDEX Fund	-2.80%
QAT	iShares MSCI Qatar ETF	-2.62%
ERUS	iShares MSCI Russia ETF	-2.61%
TUR	iShares MSCI Turkey ETF	-2.51%
SMIN	iShares MSCI India Small Cap ETF	-2.26%
ECNS	iShares MSCI China Small-Cap ETF	-2.21%

Most Overbought (14-Day RSI)

Ticker	Name	RSI
KSA	iShares MSCI Saudi Arabia ETF	76.01
PAK	Global X MSCI Pakistan ETF	58.04
FM	iShares MSCI Frontier 100 ETF	56.74
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	55.33
PIN	Invesco India ETF	54.82
SMIN	iShares MSCI India Small Cap ETF	54.57
EWT	iShares MSCI Taiwan ETF	54.23
EPI	WisdomTree India Earnings Fund	54.06
GLCN	VanEck Vectors China Growth Le	53.34
CNYA	iShares MSCI China A ETF	52.93
KBA	KraneShares Bosera MSCI China A Share ETF	52.69

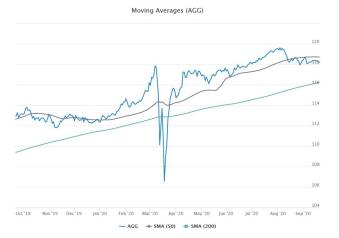
Most Oversold (14-Day RSI)

Ticker	Name	RSI
ARGT	Global X MSCI Argentina ETF	29.17
TUR	iShares MSCI Turkey ETF	35.25
EPOL	iShares MSCI Poland ETF	35.39
ERUS	iShares MSCI Russia ETF	35.50
EIDO	iShares MSCI Indonesia ETF	35.79
ECH	iShares MSCI Chile ETF	36.25
EPU	iShares MSCI Peru ETF	36.71
RSX	VanEck Vectors Russia ETF	37.35
EDIV	SPDR S&P Emerging Markets Dividend ETF	37.44
THD	iShares MSCI Thailand ETF	37.71
PXH	Invesco FTSE RAFI Emerging Markets ETF	38.02

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Fixed Income



Ticker	Name	1-Day	1-M	YTD
AGG	U.S. Aggregate	0.02%	-0.21%	6.86%
SHY	1-3 Year Treasury Bonds	-0.01%	0.02%	2.98%
IEF	7-10 Year Treasury Bonds	0.18%	-0.09%	11.53%
TLT	20+ Year Treasury Bonds	0.51%	-0.97%	22.63%
TIP	TIPS Bonds	-0.18%	0.15%	8.84%
FLOT	Floating Rate Bonds	0.00%	0.19%	0.71%
LQD	Investment Grade Corporate	-0.10%	-0.41%	8.04%
HYG	High Yield Corporate	-0.81%	-0.94%	-1.59%
BKLN	Senior Loan	-0.51%	0.78%	-1.56%
PFF	Preferred & Income Securities	-0.71%	-0.52%	-0.03%
MUB	Municipal Bonds	-0.04%	-0.11%	3.27%
MBB	MBS	-0.06%	-0.23%	3.61%
EMB	Dollar Denominated EM Bonds	-0.98%	-1.89%	-0.25%
LEMB	Local Currency EM Bonds	-1.27%	0.21%	-4.28%





Ticker	Name	1-Day	1-M	YTD
DJP	Broad Commodities	-2.48%	0.00%	-13.75%
DBE	Energy	-2.76%	-4.89%	-34.79%
USO	WTI Crude Oil	-2.65%	-6.26%	-72.39%
BNO	Brent Crude Oil	-2.91%	-7.04%	-48.73%
UNG	Natural Gas	2.70%	-11.48%	-27.76%
UGA	Gasoline	-3.43%	-2.04%	-39.06%
DBP	Precious Metals	-3.23%	-3.05%	26.96%
GLD	Gold	-2.01%	-1.38%	25.63%
SLV	Silver	-7.62%	-7.51%	38.07%
PPLT	Platinum	-4.35%	-4.01%	-8.29%
PALL	Palladium	-3.53%	4.70%	16.33%
DBB	Base Metals	-2.04%	1.58%	3.08%
CPER	Copper	-2.53%	2.18%	6.73%
LD	Lead	-0.96%	-4.41%	-5.74%
JJN	Nickel	-2.78%	-1.73%	1.55%
JJU	Aluminum	-1.01%	-0.42%	-6.64%
JJT	Tin	-0.35%	2.34%	6.50%
DBA	Agriculture	-1.74%	3.01%	-11.11%
CORN	Corn	-1.82%	6.58%	-12.50%
SOYB	Soybeans	-2.10%	9.85%	0.00%
WEAT	Wheat	-3.48%	3.74%	-5.13%
CANE	Sugar	-1.31%	-0.34%	-14.39%
BAL	Cotton	-1.13%	1.24%	-6.22%
NIB	Cocoa	-2.64%	9.29%	8.09%
JO	Coffee	-1.08%	-5.63%	-18.45%





Ticker	Name	1-Day	1-M	YTD
UUP	Long Dollar	0.72%	0.44%	-2.62%
UDN	Short Dollar	-0.71%	-0.57%	2.22%
FXE	Euro	-0.71%	-0.31%	4.21%
FXB	British Pound Sterling	-0.83%	-2.15%	-3.48%
FXF	Swiss Franc	-0.48%	-0.46%	4.99%
FXY	Japanese Yen	-0.14%	0.98%	3.27%
FXC	Canadian Dollar	-0.88%	-0.97%	-2.49%
FXA	Australian Dollar	-1.03%	0.70%	2.64%

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Size & Style, Top 10 dev ex-U.S. countries, and Top 10 EM countries are represented by (VEA,EWJ,EWC,EWU,EWG,EWA,EWH,EWL,EWQ,EWN) and (VWO,EWZ,INDA,MCHI,EWT,EWW,ERUS,THD,EWM,EIDO,EZA). Top countries based on largest exposures in VEA and VWO, respectively. Size & Style 1-day performance ETFs represented by (IVE,IVV,IVW,IJK,IJH,IJJ,IJR,IJS,IJT).

Source Data

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