

Simple Trend Reversal EA

This EA is written for the simple trend reversal strategy by mrdfx.

Please read the 1st post which explains this strategy:
<https://www.forexfactory.com/showthread.php?t=713593>

The EA can be used for manual or automated trading

Manual trading

Manual trading is enabled by setting *allowTrading=false*

In manual trading:

- The EA will give you alerts when valid buy/sell signals appear.
- Alerts can be popups, e-mail and/or via push notifications to your mobile phone.
- The EA wont do any trading and wont manage any open orders
- The EA will only show a dashboard with pairs indicating which are valid and pairs which are in the progress of becoming valid
- You open trades yourself and you manage your open orders

Automated trading

Automated trading is enabled by setting *allowtrading=true*

In automated trading:

- The EA will/can give you alerts when valid buy/sell signals appear
- Alerts can be popups, e-mail and/or via push notifications to your mobile phone.
- The EA will open orders based on these signals and manage those orders
- The EA will show a dashboard, a panel with trade statistics and a list of open orders
- You don't need to open / manage trades yourself

EA Dashboard

The dashboard is shown in both automated & manual mode. It refreshes every minute and It will show all the pairs which have at least 1 indicator valid. Pairs with the most indicators valid appear on top. The pairs with the least indicators valid are placed on the bottom.

If you click on the Pairs name (like EURJPY) then the EA will open a new chart showing you that pair

Time: Last time pair was updated

Pair: the name of the currency pair

ZigZag: Indicates if the zigzag arrow indicator is valid (red/green = yes, grey =no)

MBFX: Indicates if the MBFX indicator is valid (red/green = yes, grey =no)

TrendLine: Indicates if the Trendline indicator is valid (red/green = yes, grey =no)

MA15: Indicates if the MA15 indicator is valid (red/green = yes, grey =no)

News: Indicates if important news just happened or is about to happen (red / green = no, grey = yes)

Time: Indicates if EA is allowed to trade according to the time filter (red/green=yes, grey=no)

Valid: Indicates if all signals are valid for this pair. Red/green = yes, grey = no.

It will also tell you if this is a buy signal (green) or sell signal(red)

When all signals are valid for a pair an alert will be send (if sendAlerts=true)

v1.18 H4 Last update: 2018.01.03 21:27

Time	Pair	ZigZag	MBFX	Trend	MA15	News	Time	Valid
21:27	EURJPY							sell
21:27	GBPJPY							sell
21:27	CHFJPY							sell
21:27	USDCHF							
21:27	GBPUSD							
21:27	EURUSD							
21:27	USDJPY							
21:27	USDCAD							
21:27	AUDUSD							
21:27	EURGBP							
21:27	AUDNZD							
21:27	AUDJPY							
21:27	NZDJPY							
21:27	NZDUSD							

EA Open trades statistics

The open trades will only be shown in automated mode and will show you the statistics of all the trades the EA is managing.

The EA will move S/L when needed and close trades when needed. Off course you are free to close trades manually if you would like to do so.

Opened : time & date when trade was opened

Symbol : name of the currency pair

Type : green arrow = buy, red arrow = sell

Lots : lot size used on this trade

Entry : price at which the trade was opened

S/L (pips): the virtual stoploss in pips

Profit : The total profit made so far. This is in your account currency. So if your account is in \$ then profit is in \$, if your account is in EUR then this is in EUR etc..

Pips : The total profit made so far in pips

R:R : The risk reward ratio reached so far

Opened	Symbol	Type	Lots	Entry	S/L (pips)	Profit	Pips	R:R
2018.01.03 16:17	AUDCAD	↑	0.1700	0.98203	-49.50	-6.06	-5.40	-0.11:1
2018.01.03 16:17	CHFJPY	↓	0.1500	114.96200	-88.00	-36.67	-33.30	-0.38:1
2018.01.03 16:17	EURJPY	↓	0.1500	135.00600	-62.50	-53.74	-48.30	-0.77:1
2018.01.03 20:01	EURUSD	↓	0.2200	1.20264	-54.80	-3.42	-3.20	-0.06:1
2018.01.03 16:17	GBPJPY	↓	0.1500	152.14400	-67.80	-37.67	-32.30	-0.48:1
2018.01.03 20:01	GBPUSD	↓	0.1300	1.35236	-89.10	-13.54	-13.10	-0.15:1
2018.01.03 16:17	USDCHE	↑	0.1300	0.97630	-63.60	8.10	5.90	0.09:1
2018.01.04 08:00	USDJPY	↑	0.2200	112.66800	-61.30	-7.96	-4.90	-0.08:1

EA Trade statistics

This panel is only shown when the EA is in automated mode, and it will show various statistics on how the EA has done so far

SimpleDaily		
--- Trend Reversal EA v1.18 ---		
Balance	50199.24 EUR	
Equity	49841.20 EUR	
Free margin	46744.67 EUR	
Margin	3096.53 EUR	
Global Open Orders	16	
Global Profit/Loss	-358.04 EUR	
Open Orders	8	
buy/sell	buy:3 / sell: 5	
P/L buy/sell	-5.92 EUR / -145.04 EUR	
Profit/Loss	-150.96 EUR	
Trades	0	
Won/Lost	0 / 0 (0.00 % winrate)	
Profit today	0.00 EUR	(0.00 pips)
Profit yesterday	0.00 EUR	(0.00 pips)
All time profit	0.00 EUR	(0.00 pips)
Profit factor	0.00	
Expected payoff	0.00 EUR / trade	
Total lots traded	0.000 lots	
Average lots/trade	0.000 lots	

EA Settings:

allowTrading

Specifies if EA is allowed to open & manage trades or not

- false = manual trading. EA wont open any trades
- true = automated trading. EA will open and manage trades

sendAlerts

Specifies if the EA will send buy/sell alerts

- false = do not send alerts
- true = EA will send buy/sell alerts

Note: if you want the alerts to be send to your mobile phone then you need to set this up in MT4
Please read here on how todo this:

<http://www.cmapllc.com/how-to-set-up-push-notifications-in-mt4-mobile-android-and-iphone.html>

emailAlerts

Specifies if alerts are e-mailed as well. Note this setting is only used when *sendAlerts=true*.

- false = do not send emails
- true = EA will send emails

Note: you will need to setup your emails settings in MT4 if you want to use this.

Please read here on how todo this : <https://www.forexboat.com/mt4-email-alert/>

stopLossAtZigZagArrow

- true: The virtual stoploss at the tip of the zigzag arrow which is the default
- false: The virtual stoploss will be set at the *OrderHiddenSL* setting

See section about trailing stops for more info about this

allowReEntries

true: The EA is allowed to take re-entries on the same signal & pair after
minsBetween2TradesOnSamePair has passed

false: The EA is not allowed to take re-entries on the same signal & pair

minsBetween2TradesOnSamePair

This setting specifies how many minutes should pass after an order is closed before the EA is allowed to open a new. Note this is per pair

Example:

Order #1 EURUSD gets closed at 13:45

Order #2 GBPJPY gets closed at 14:15

minsBetween2TradesOnSamePair=120

Then the EA is not allowed to open new orders on EURUSD until 15:45
and it is not allowed top open new orders on GBPJPY until 16:15

TradePairs

A list of all pairs the EA is allowed to trade & give signals for. Pairs are separated by a space

Chart Template

When you click on the name of a pair on the dashboard the EA will open a new chart for that pair. This makes it very easy to quickly inspect the chart. In this setting you can specify which MT4 chart template should be used for the newly opened chart,
Note.. this needs to be the exact filename +.tpl of the chart template.

ShowValidSignalsFilter

This setting controls how many pairs which will be shown on the dashboard

1 = Show only pairs with at least 1 valid indicator

2 = Show only pairs with at least 2 valid indicators

3 = Show only pairs with at least 3 valid indicators

...

7 = Show only pairs where all indicators are valid

MoneyManagement

Specify the way the EA calculates the lot size for each trade (See below)

FixedLotSize

Used when *MoneyManagement=UseFixedLotsSize*.

Specifies the lotsize to use.

FixedAmount

Used when *MoneyManagement=UseFixedAmount*

Specifies the amount of money you want to risk on each trade. Using this the EA will calculate the lotsize based on the SL needed and the currency of the pair for each trade

RiskPercentage

Used when *MoneyManagement=UsePercentageOfAccountBalance*

Specifies the risk (1% - 100%) of your account balance you want to risk on each trade. Using this the EA will calculate the lotsize based on the SL needed and the currency of the pair for each trade

MagicNumberBuy & MagicNumberSell

These are just 2 unique numbers. You can use anything you want as long as these numbers are not used by EAs on other charts

BuyComment & SellComment

The comment for buy/sell trades as shown in the trade history

MaxSpreadInPips

The max. number of spread. The ea will only open & close trades when the current spread of a pair is smaller than MaxSpreadInPips

MaxOpenTrades

The max. number of open trades for all pairs. The ea will never open more than MaxOpenTrades simultaneously

TrailingMethod

Specifies which trailing method to use. The EA supports 2 methods : trailing stop and risk reward ratio which will be explained below.

TakeProfitAt

Used only when *TrailingMethod=UseRiskRewardRatios*

Specifies the Risk reward ratio. When reached the order will be closed and profit will be taken.

OrderHiddenSL

The initial stoploss in pips. Used when *stopLossAtZigZagArrow=false*;

OrderTS1 - OrderTS4 & OrderTS1Trigger - OrderTS4Trigger

Used when *TrailingMethod=UseTrailingStops*.

Uses a trailing stop loss based on this thread : <https://www.forexfactory.com/printthread.php?t=446353>

It uses a hidden / virtual stoploss. This allows us to put the stop loss anywhere without the broker knowing and without any broker restrictions

So.. When the EA places a new order then the initial hidden/virtual stoploss is placed at:

- the zigzag arrow when *stopLossAtZigZagArrow=true*
- or at *OrderHiddenSL* pips when *stopLossAtZigZagArrow=false*

then when trade gets into profit we trail the hidden / virtual stoploss like this:

- when profit reaches Order TS1 Trigger pips, the virtual stoploss is moved to Order TS1 pips
- when profit reaches Order TS2 Trigger pips, the virtual stoploss is moved to Order TS2 pips
- when profit reaches Order TS3 Trigger pips, the virtual stoploss is moved to Order TS3 pips
- when profit reaches Order TS4 Trigger pips, the virtual stoploss is moved to Order TS4 pips
- when profit goes above Order TS4 Trigger pips then the rest gets trailed with a Trailing Step

StartHour / StartMinute / FinishHour / FinishMonth

Specifies the start- end times which the EA is allowed to trade.

TradeOnMonday - TradeOnSunday

Specifies which days the EA is allowed to trade

UseNewsFilter

true : news filter = on

false: news filter = off

MinsBeforeNews & MinsAfterNews

Only used when news filter is on

Number of minutes before news and after news appeared.

During the period the EA wont open any new trades

IncludeHigh & IncludeLow

Specifies to include only high impact news, low impact news or both

Only used when news filter is on

OffsetHoursGMT

If your broker is not using GMT based times then you can specify your offset in hours here.
normally this is not needed and you can leave it to 0

CloseProfitableTradesBeforeNews

Specifies if the EA should close all trades which are in profit when news is arriving

true: close trades in profit when news arrives

false: don't close trades

UseSMA200Trendfilter

true: sma 200 trendfilter enabled

false: sma 200 trendfilter disabled

When enabled the EA will only take trades in line with the SMA 200 trend filter

ZigZagCandles

The number of candles to look back for a zigzag arrow

MBFXCandles

The number of candles to look back for a valid MBFX signal

Zigzag settings

The settings for the zigzag arrow. You should never have to change those.

MBFX settings

The settings for the MBFX timer. You should never have to change those.

trendline settings.

The settings for the trendline. You should never have to change those.

moving average settings

The settings for the moving average. You should never have to change those.

Support & Resistance Filter

You can enable the S&R filter. When the S&R filter is enabled the EA will only open trades when the zigzag arrow is close to a S&R level

UseSupportResistanceFilter

true = enable the S&R filter

false = disable the S&R filter

MaxPipsFromSR

The max. allowed pips between the zigzag arrow and the S&R level.

So if *MaxPipsFromSR* is 30 then the zigzag arrow should appear max. 30 pips away from the S&R level. If its further away (e.g. 50 pips) then the signal is not valid and the trade will not be opened

This setting is only used when *UseSupportResistanceFilter=true*

BarsHistory

The total number of bars used to look for the S&R levels. You should never have to change this.

This setting is only used when *UseSupportResistanceFilter=true*

SR_Detail

The sensitivity of the S&R filter. The higher the sensitivity the more S&R levels will be found & used

SR_1Hours

When enabled S&R levels from the H1 timeframe will be used

SR_4Hours

When enabled S&R levels from the H4 timeframe will be used

SR_Daily

When enabled S&R levels from the D1 timeframe will be used

SR_Weekly

When enabled S&R levels from the W1 timeframe will be used