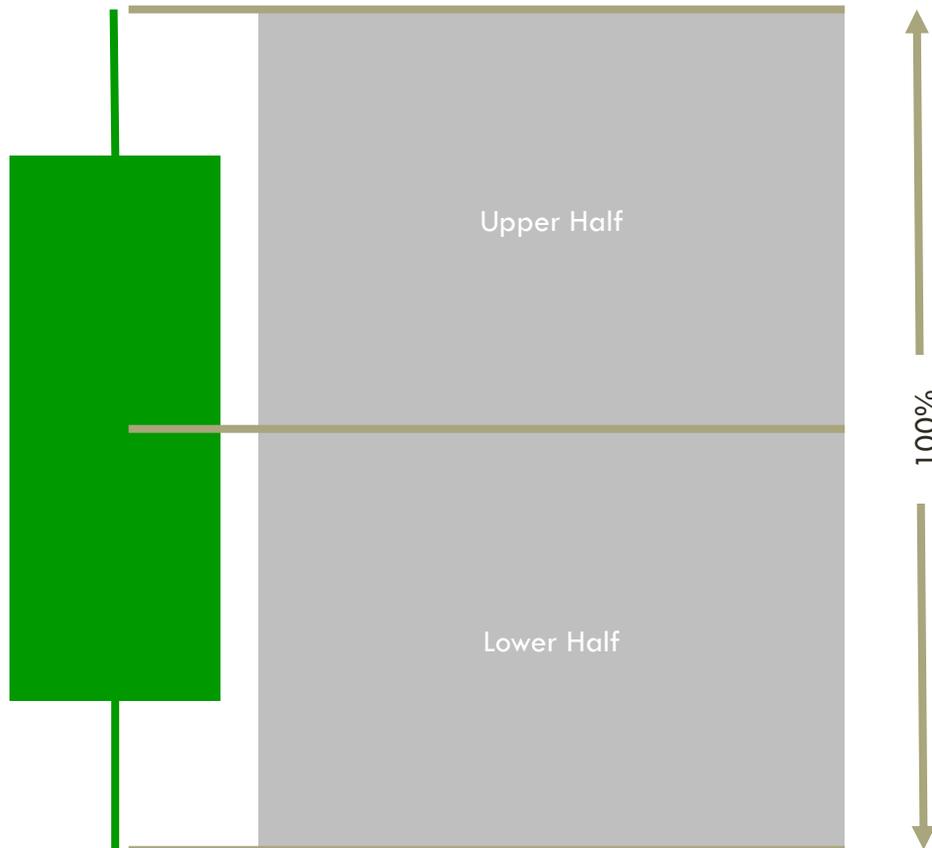


FIBO 50



FIBO 50 ANALYSIS CANDLE

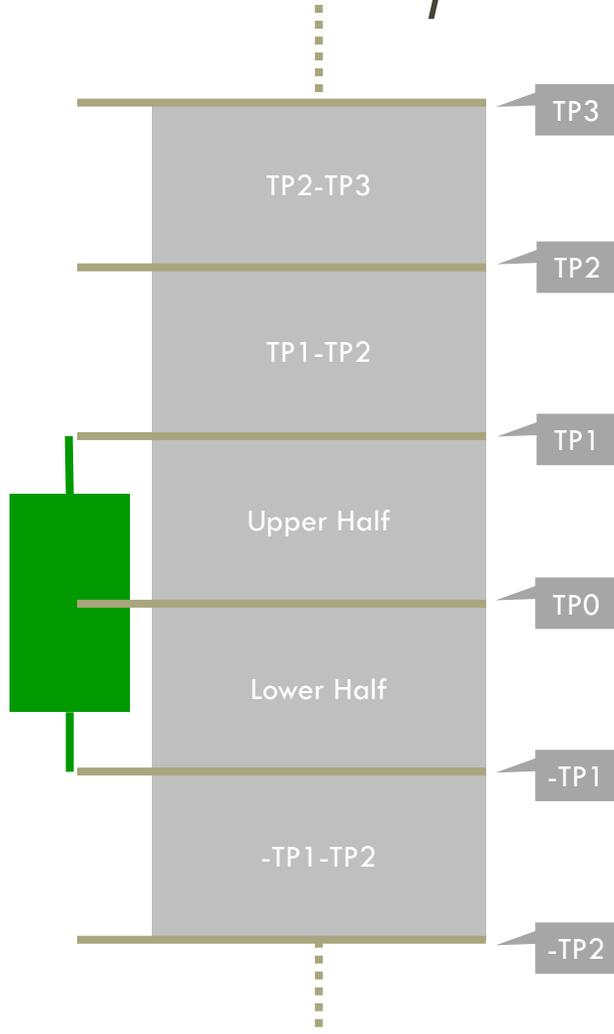


EA must have Inputs for

- **Analysis Timeframe: e.g. H1 or M30**
 - This timeframe will always be higher than the timeframe of the chart the EA works in
 - E.g. analysis timeframe H1, chart time frame M5
 - Therefore the High, the Low and the Middle of this candle must be calculated
 - Those are referenced as 100, independently the points of the candle
 - The High, the Low and the Middle must be drawn as lines into the chart
 - Configurable in style, thickness and color and on/off
 - Start in the middle of the timeframe
 - e.g. H1, horizontal lines start at xx:30
 - Optional: drawing that analysis candle into the chart
 - Long / Short in different color
 - Configurable in color, style and thickness
 - To be switched on and off
- **Number of Candles**
 - How many candles back should be drawn with horizontal lines



FIBO 50 START / END / STOP TRADE



EA must have Inputs for

- Extension: How many horizontal lines should be drawn above and below the High and the Low of the analysis candle
 - E.g. Input 2 means draw 2 additional lines

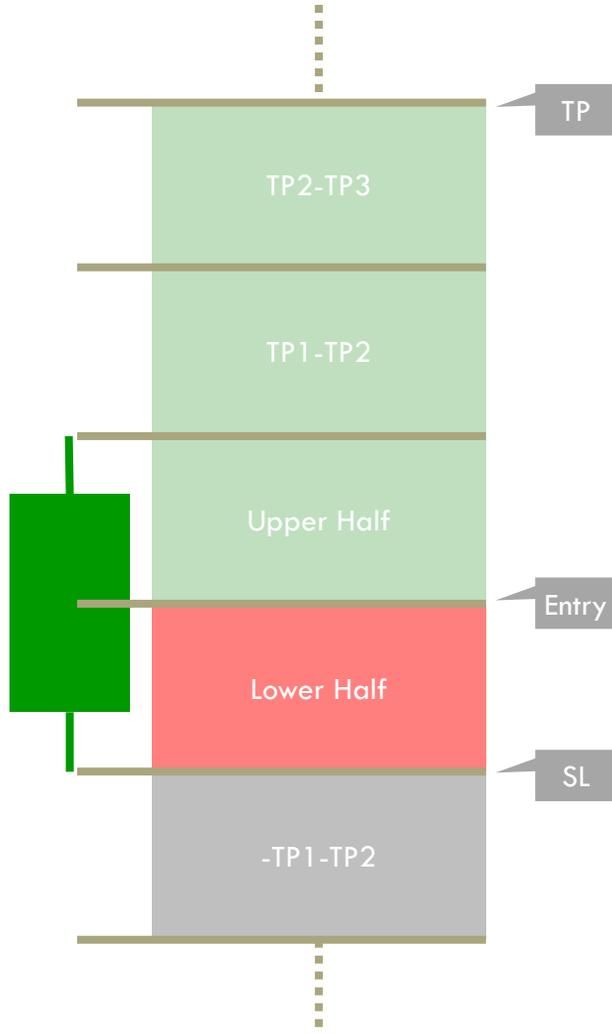
Left picture shows the names of the levels, i will reference only to those levels in the upcoming slides

- TP1 / TP2 and so on are just Labels and NOT different Take Profit Levels!

Additional Inputs

- Start Trade: hh:mm
 - Starting analysing / trading, means: The next completed analysis candle, starts the trade
 - E.g.: Chart M5, Analysis candle: M30, Start 09:05
 - Next completed M30 candle is at 10:00, trades will be placed
- Stop Trade: hh:mm
 - Stopping analysis and trading, means: No new analysis candles, no new tradesequence, open tradesequences will be finished
 - What a tradesequence is, will be explained later
- End Trade: hh:mm
 - All running trades and all pending orders are closed, no new trades
 - If End Trade < Stop Trade, then no new tradesequences (same as End Trade)

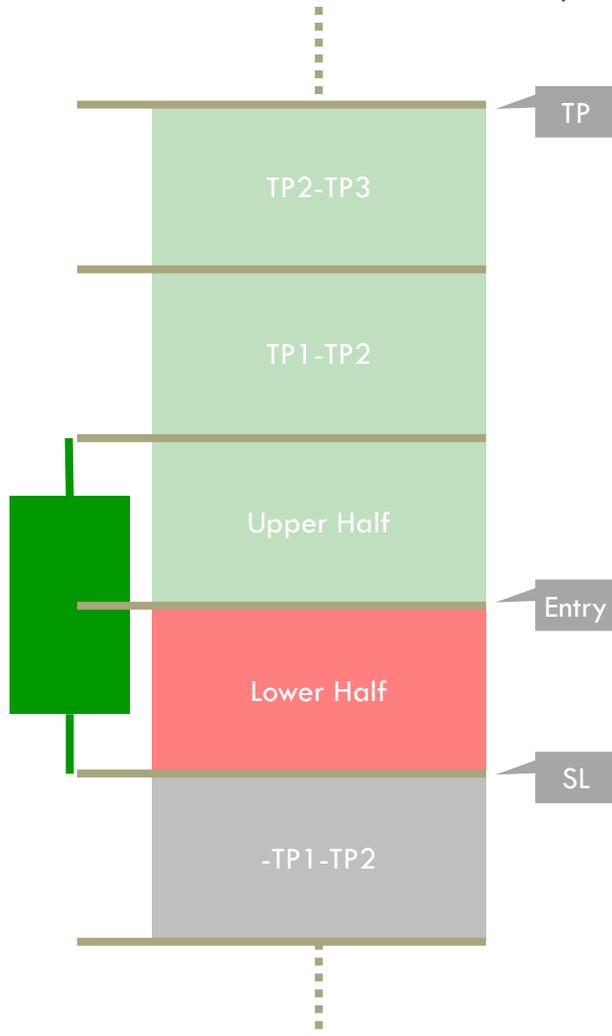
FIBO 50 STOP LOSS / TAKE PROFIT



EA must have Inputs for

- Stop Loss
 - Input not in Points,
 - EA calculates the points the stop loss must have
 - E.g. Candle High to Low 200 points, relative is every „point“ of the candle (1 to 100) = 2 points in reality
 - SL of 20 means 40 points in reality
- Take Profit
 - Same calculation as the Stop Loss
 - E.g. Candle is just 50 points, every relative point of the candle is 0,5point in reality
 - TP of 40 means 20 points in reality
- Number of SL
 - How many times may the SL be triggered, before the tradesequence is finished
 - E.g. Input 3: If the SL is triggered three times, the tradesequence is finished, no new pending orders, existing will be deleted
- Number of TP
 - What number TP must be achieved to finish the tradesequence
 - The TP will always be placed as multiple
 - E.g. Input 3 and TP is 40 (20 points), the TP will be placed 3x20 points = 60 points

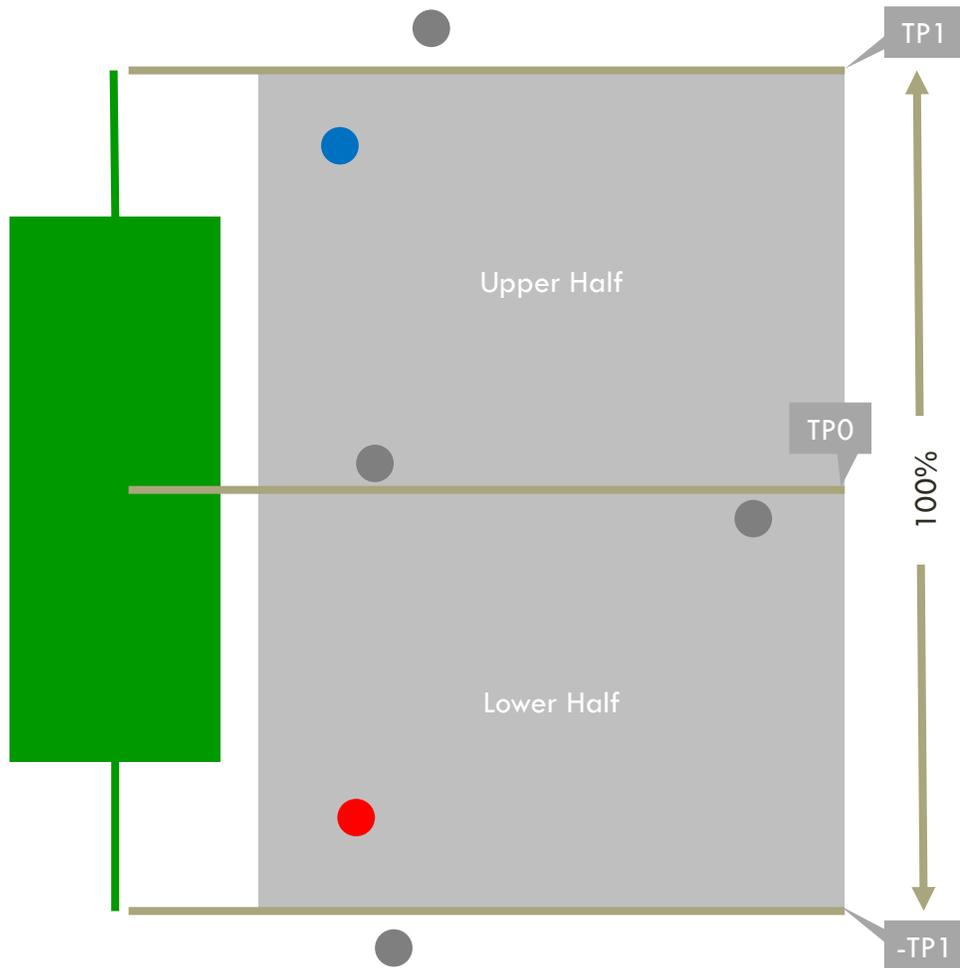
FIBO 50 TRADESEQUENCE



As a tradesequence i call a row of orders and trades for each analysis candle

- Later on i will show the conditions for this
- The number of SL and TP are important
 - Number of SL/TP explained on previuos slide
- A tradesequence is finished if one of both is zero
 - Target is to achieve the number of TP
 - E.g. number of SL is 2 and number of TP is 3
 - First trade is a SL, SL: 1, there could be only one more SL, TP is 4(!), because we must have now 4 TP to achieve the TP=3 goal
 - Second trade achieves 2xTP: SL:3 and TP:2 (Sum is always 5), we can afford three sl now and just need two TP
 - Remember: The SL is always placed at single SL level, TP as multiple
 - Exception by this input
 - Take Profit Limit
 - Limits the multiplier, e.g. if Limit is 2 then in above example the TP is set to 2xTP
 - Zero means, no Limit

FIBO 50 TRADE LOGIC



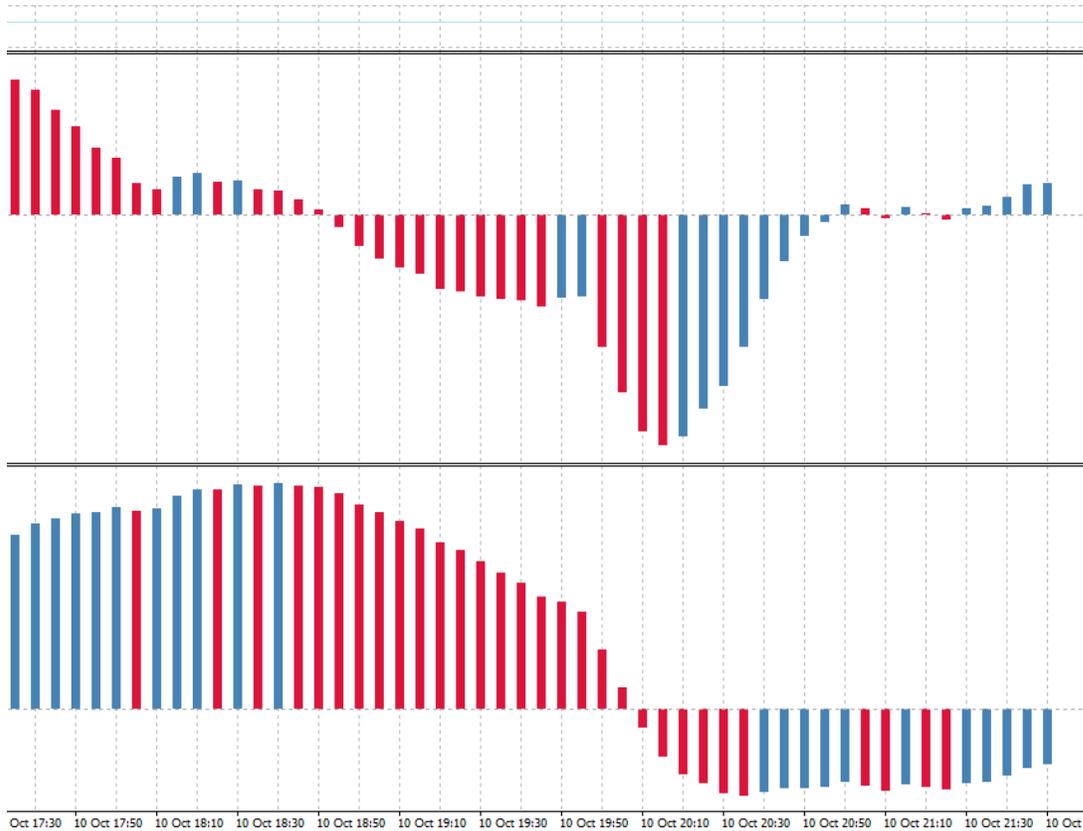
When Analysis Candle is finished, e.g. at 10:00

- The price could be in the upper half
- The price could be in the lower half
- Very rare, the price is above High (TP1) or below Low (-TP1)
- Very rare, the price closed in lower half and opens in upper half and vice versa

Relevant is the close(!) of the analysis candle

- Regarding to this and the two indicators, see next slides the pending orders will be placed

FIBO 50 INDICATORS



The EA uses two indicators, the histogram of these indicators

- OsMA
- MACD

Changes in the value of the histogram is a short or a long signal

- Long: red to blue
- Short: blue to red
- You must read the Data from the indicator

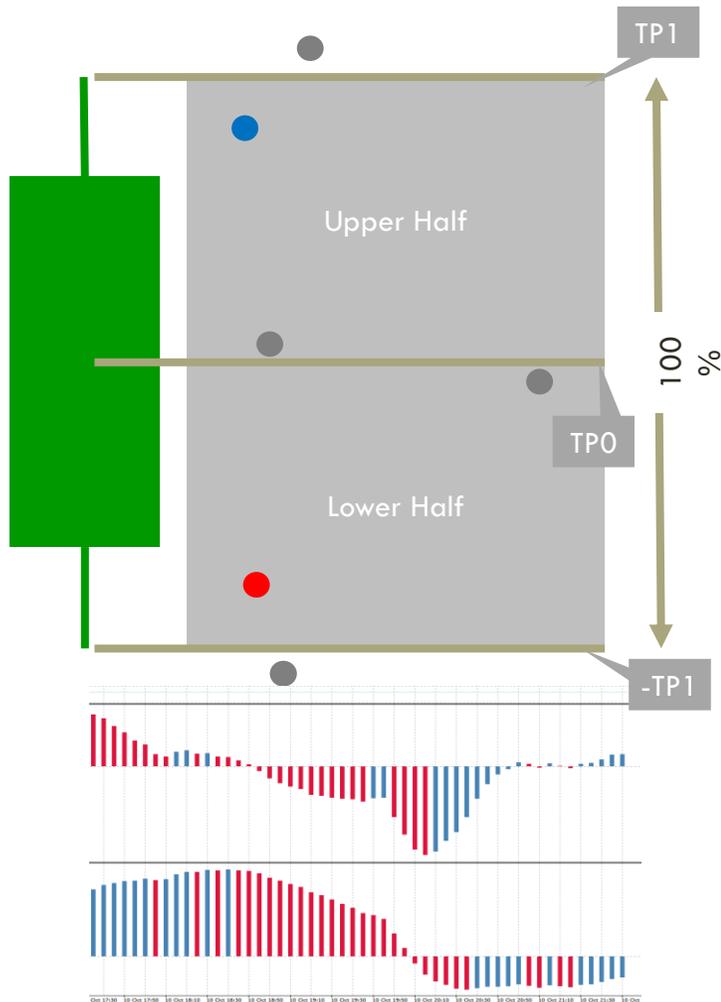
EA must have these indicators included or call them up

- Settings must not be configurable

EA Inputs:

- Indicators: OsMA, MACD, AND, OR
 - OsMa: Only OsMa signals
 - MACD: Only MACD signals
 - AND: Uses both indicator signals
 - OR: Uses MACD or OsMA signal

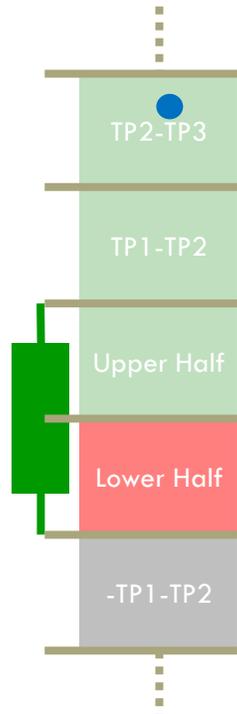
FIBO 50 TRADE LOGIC



Regarding the close of the Analysis Candle and the Indicators there could be following situations

Close	Indicator	TP1	TPO	-TP1
Upper	Long	Stop Buy	Limit Buy	-
Upper	Short	Limit Sell	Stop Sell	-
Lower	Long	-	Stop Buy	Limit Buy
Lower	Short	-	Limit Sell	Stop Sell
Above TP1	Long	Limit Buy	-	-
Above TP1	Short	Stop Sell	-	-
Below - TP1	Long	-	-	Stop Buy
Below - TP1	Short	-	-	Limit Sell

FIBO 50 TRADE LOGIC



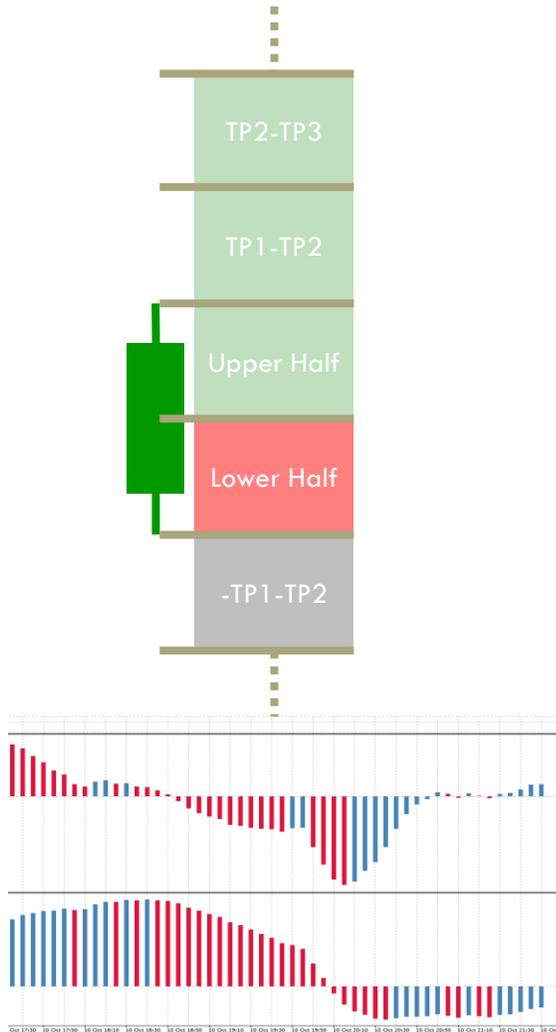
Important! The EA checks at the end of each chart candle if new conditions are met.

- If a trade runs into a SL, the EA waits till end of the candle and checks if there must be placed new pendings, if number of SL isnt zero
- Same if trade runs into TP and number of TP isnt zero
- New condition is when the Indicator changes direction
 - If so, the new pendings must be placed
 - Doesnt matter if the trade is between TP2 and TP3, or between -TP4 and -TP5

Trade	Indicator	TP above	TP below	SL Trade	TP Trade
Long	Short	Limit Sell	Stop Sell	TP Below	TP Above
Short	Long	Stop Buy	Limit Buy	TP Above	TP Below

- If the conditions changes again, then original SL and TP Level must be set!
 - E.g. Trade is long, Indicator chnges to short, pendings placed, indicotr long again, all short pendings are deleted, SL and TP back to the levels

FIBO 50 EA GENERALS



EA Input

- Break Even yes / no
 - If yes the SL moves to break even when 1xTP is achieved
- Magic Number
- Comment
- Fixed Lot
 - If zero then Risk in %
- Risk in % and Balance / Equity to choose
 - Depending on SL setting

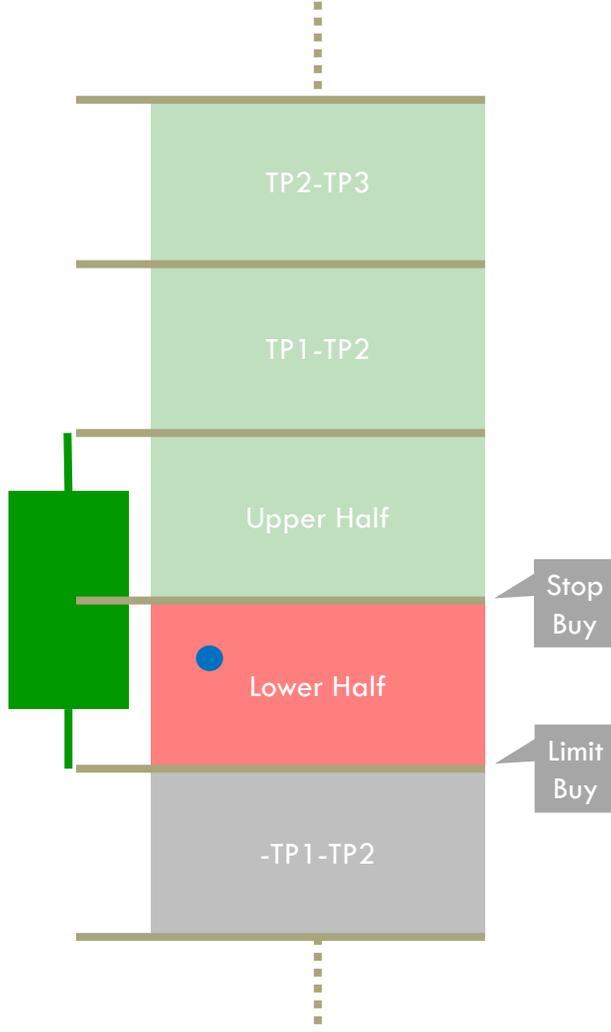
EA must be stable, fast and backtestable without adding indicators

EA must deal with all markets, every digit

If MT4 fails and i must restart, EA must find his orders and trade normally

Pending orders must include Spread

FIBO 50 EXAMPLE



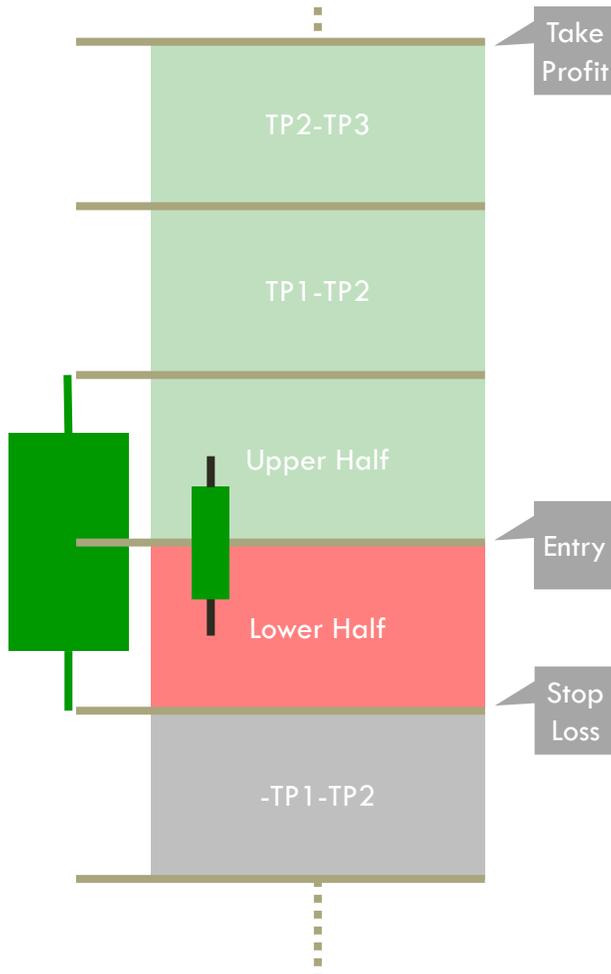
Following settings in EA, Chart M5

- Analysis candle M30,
- SL 50, Number of SL 2,
- TP 50, Number of TP 3

Close of analysis candle M30, or the last M5 candle, is in the lower half, indicator is long

EA places a stop buy at TPO and a Limit Buy at -TP1

FIBO 50 EXAMPLE



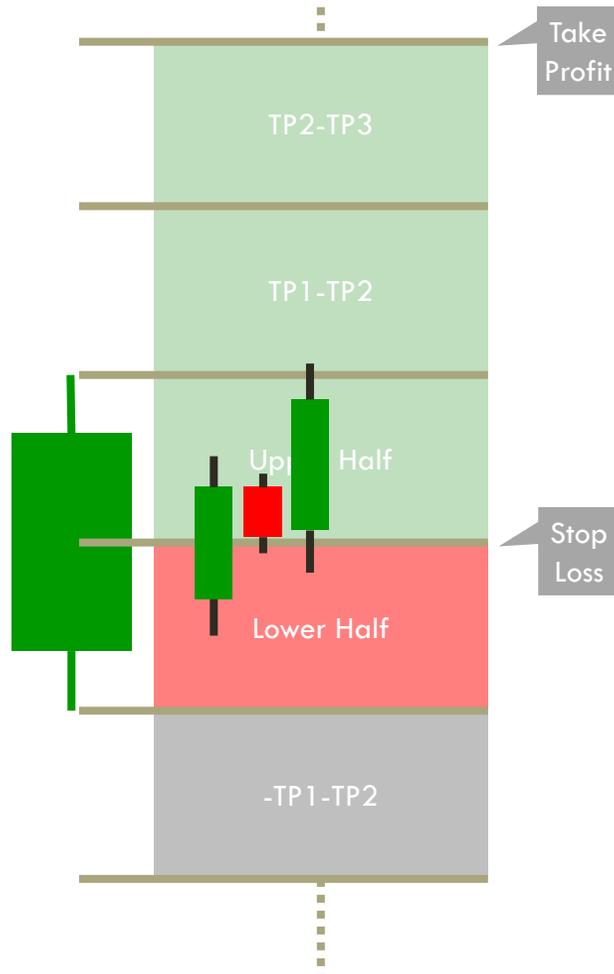
Price moves up and triggers the Stop Buy order at TP0

The Limit Buy order at -TP1 is deleted (OCO)

Take Profit is placed at TP3 (3xTP)

Take Profit Limit mios not configured

FIBO 50 EXAMPLE



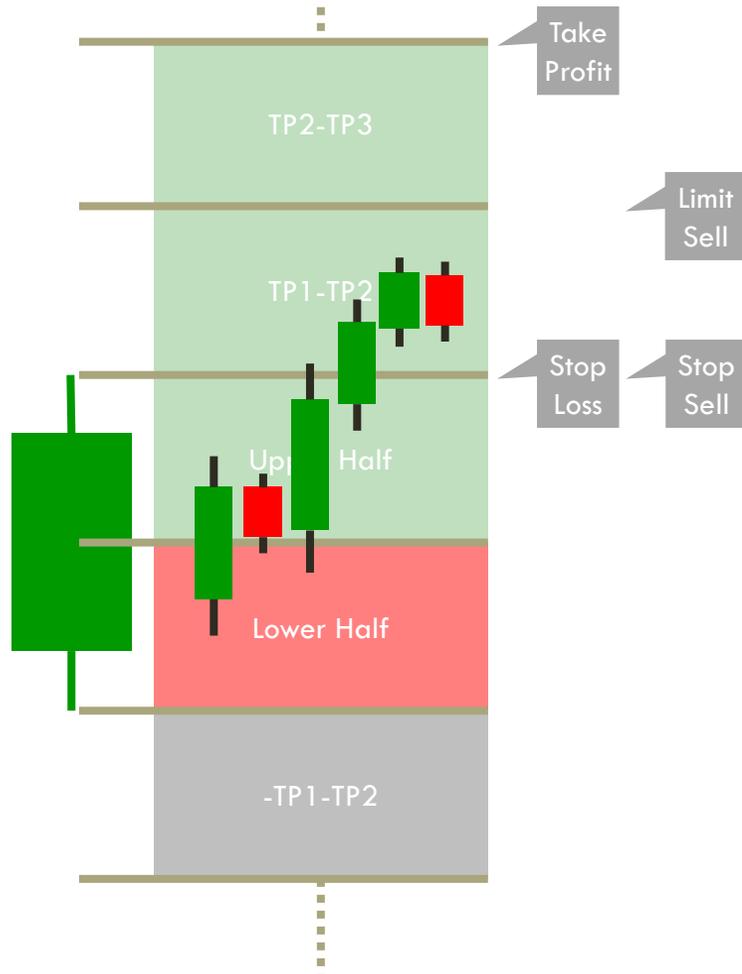
Price moves up and triggers TP1

If BreakEven is YES then the Stop Loss moves to TP0 (BreakEven)

If not, Stop Loss stays at -TP1

Indicators are still long

FIBO 50 EXAMPLE



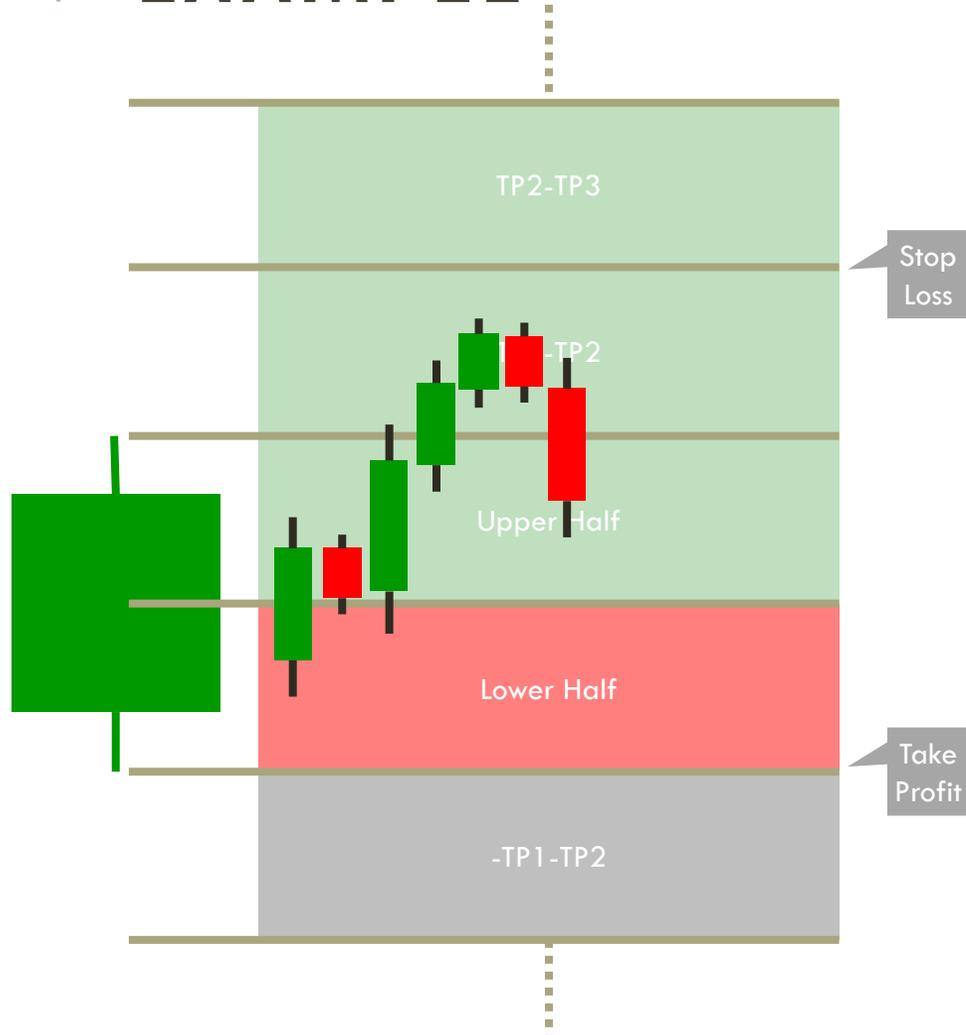
Price moves up and is between TP1 and TP2

Indicator changes from long to short

EA places Stop Sell at TP1 and a Limit Sell at TP2

Stop Loss of the actual long trade is moved to TP1

FIBO 50 EXAMPLE



Price moves down and triggers the Stop sell and Stop Loss

Limit Sell is deleted

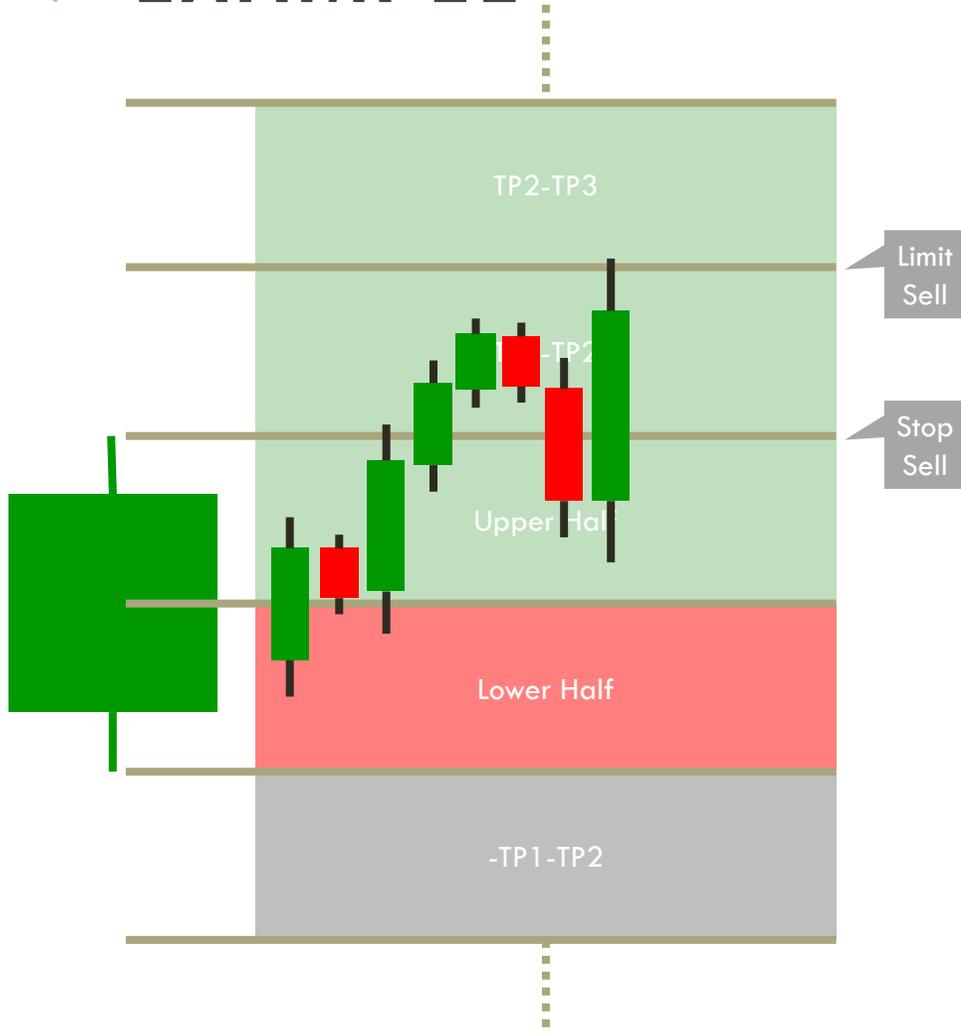
Indicator is short

Stop Loss at TP2

Take Profit at -TP1

- Because we have one TP achieved, the TP counter is 2 now
- The TP is placed $2 \times TP = -TP1$
- The SL counter is 3

FIBO 50 EXAMPLE



Price moves up and triggers the SL

SL counter is 2, Take Profit counter is 3

Indicators still short

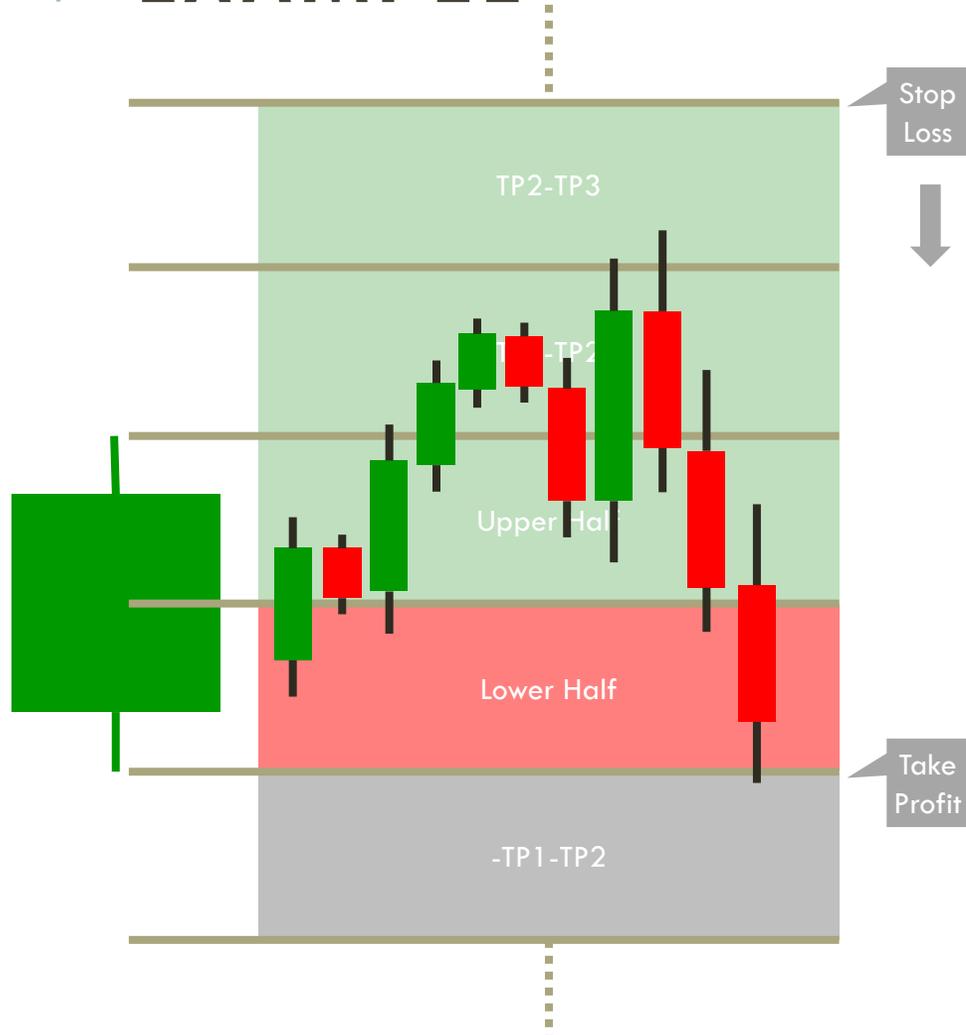
When the M5 candle ends the EA places new pendencies

- Limit Sell at TP2 and Stop Sell at TP1

Always the same

- Number of SL or TP = 0?
- Indicator changed? Yes/No
- If Yes, place pendencies

FIBO 50 EXAMPLE



Price moves up and triggers the Limit Sell at TP2

Stop Loss at TP3

Take Profit at -TP1

Price moves down, below TP1

- If BreakEven = Yes, then Stop Loss moves to TP2

Price moves further down below TP0

Price moves further down into TP

