

Currencies strength dashboard project

1/ INDICATOR AND SIGNALS

The indicator to code is a simple dashboard made of values taken from the attached indicator named : CS_NST.mq4

The dashboard to create should get informations of the variables calculated by the indicator, and returns these 3 conditions:



1. BLUE LINE ABOVE THE UPPER BAND
2. BLUE LINE BELOW THE LOWER BAND
3. BLUE LINE BETWEEN THE MID UPPER AND LOWER BANDS

Each of these « signals » will have a setting to choose the Wingdings and its color,

The dashboard will get symbols and timeframes to scan with variables, separated by commas, such as :

```
input string Symbols      = "CADCHF,CADJPY,CHEJPY,NZDCHF,EURJPY";  
input string TimeFrames  = "M5,M15,M30,H1";
```

Of course, these settings could be modified by the user to add or remove pairs or timeframes to be scanned.

To prevent getting the same values to calculate the currency strength multiple times and because of the heavy calculation made by the indicator, it is important to not call it as a Custom indicator for each pair/timeframe to scan, but preferably to implement it directly into the dashboard program and create a function to process the 5 lines calculations instead.

The « lightweight » of calculation of the dashboard is critical !

Default settings of the indicator :

```
extern int   MA_meanP = 200;  
extern double StdDev = 0.5;  
extern double StdDevE = 2;  
extern int   MA_signalP = 10;
```

Should also be left in the user settings, to change them manually if desired.

2/ DASHBOARD

This picture is an example of the dashboard I'd like to get for this project :



The screenshot shows a window titled "Dashboard SAR" with a grid of colored squares. The columns represent timeframes: M1, M5, M15, M30, H1, H4, D1, W1, MN, and a "Total" column. The rows represent instruments: EURUSD, AUDUSD, GBPUSD, EURGBP, USDCAD, USDCHF, NZDUSD, EURJPY, GBPJPY, and AUDSGD. The squares are colored red or blue, indicating signal status. Some squares contain letters 'S' or 'B'. The "Total" column contains empty input fields.

	M1	M5	M15	M30	H1	H4	D1	W1	MN	Total
EURUSD	Red	Red	Blue	Blue	Blue	Blue	Red	S	Blue	
AUDUSD	Blue	Red	Blue	Blue	Blue	Red	Red	Red	Blue	
GBPUSD	Red	Red	Blue	Blue	Blue	Red	Red	S	Blue	
EURGBP	Blue	Red	Blue							
USDCAD	Blue	B	Red	Red	Red	Blue	Blue	Blue	Red	
USDCHF	Blue	Blue	Red	Red	Red	Red	Blue	Red	Red	
NZDUSD	Red	Red	Blue	Blue	Blue	Blue	Red	Blue	Red	
EURJPY	Blue	Red	Blue	Red	Red	Red	Red	Red	S	
GBPJPY	Blue	Red	Blue	Red	Red	Red	Red	Red	Blue	
AUDSGD	Red	Red	Blue	Blue	Red	Red	Red	Red	Red	

Any idea or examples of what you have already coded are welcome !

The dashboard should be draggable in a separate window in the MT4 chart.
The red and blue squares are also « buttons » that open a new chart with the corresponding timeframe and instrument.

3/ ALERTS

When one of the 3 signals type is detected, alert could be send with these possibilities (with true/false switches in a settings) :

- email
- push
- sound
- message in a window (typical MT4 alert)

Obviously, the indicator will be delivered in .mql4 source format

Please, don't hesitate to ask questions if necessary. Thank you.