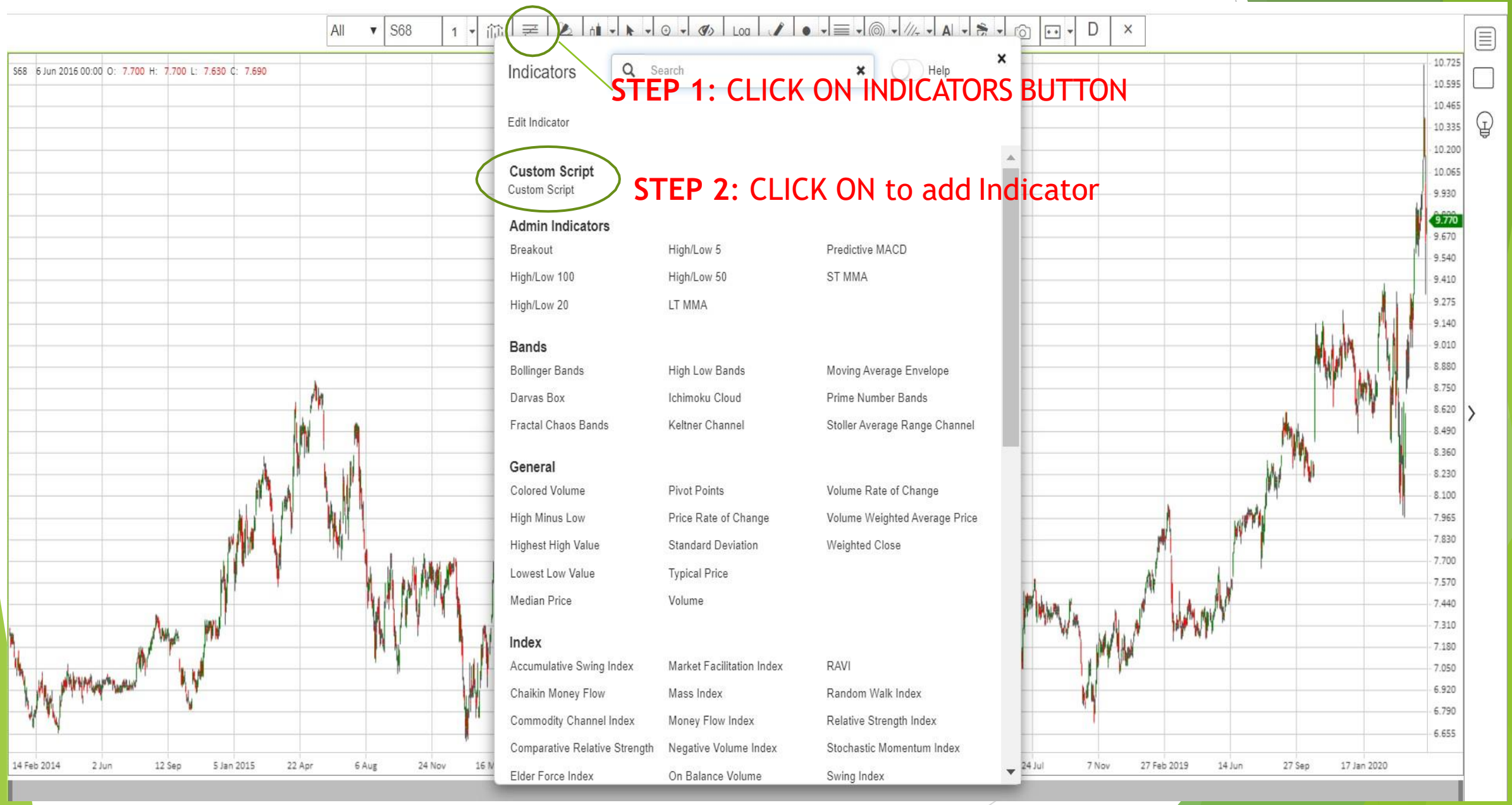
CUSTOM INDICATOR

LEARN TO WRITE YOUR OWN CUSTOM INDICATORS ON MINICHART WEB

HOW TO ADD INDICATORS



HOW TO ADD INDICATORS

Click to save indicator

Indicator will appear as separate panel
e.g. RSI, Stochastic, MACD

Indicator will overlay on chart like
e.g. SMA,EMA, Bollinger band

ADD INDICATORS Formula

write formula directly. Example 1:

SMA(close,10)

PLOT(SMA10,RED)

The above formula plot one line (10 day simple moving average) and format of plotting is as below. If there are more than 1 line, do not name the lines the same name, otherwise, it will not show all lines.
PLOT(name of line, colour of line)

To write more than 1 line on the chart, you can do the below. For example multi-moving averages:

SMA(close,10)

PLOT(SMA10,RED)

SMA(close,20)

PLOT(SMA20,BLUE)

SMA(close,30)

PLOT(SMA30,BLACK)

Customized Indicator Formula

Primitive: + , - , / , * , > , < , =, if, MAX, MAXOF, MIN, MINOF

Some basic indicators

Formula	Formula type
EMA(Close,14) **PLOT(EMA,RED)**	- Exponential moving average
SMA(Close,100) **PLOT(EMA,RED)**	- Simple moving average
WMA(CLOSE,14) **PLOT(WMA,RED)**	- Weighted moving average
AVG(Volume,20) **PLOT(VOL,RED)**	- 20 days average volume

Customized Indicator Formula

Some basic indicators

Formula	Formula type
WPR(14) **PLOT(WPR,RED)**	- Williams%R
CCI(20, SIMPLE) **PLOT(CCI,RED)**	- commodity Channel Index
PROC(Close,10) **PLOT(PROC,RED)**	- price rate of change
RSI(CLOSE,14) **PLOT(RSI,RED)** **SMA(RSI(CLOSE,14),20)** **PLOT(SMA RSI,Blue)**	- RSI with SMA of RSI
	-

Customized Indicator Formula

Some basic indicators

Formula	Formula type
BBT(CLOSE, 14, 1, SIMPLE) **PLOT(BBT,RED)** **BBM(CLOSE, 14, 1, SIMPLE)** **PLOT(BBM,BLACK)** **BBB(CLOSE, 14, 1, SIMPLE)** **PLOT(BBB,BLUE)**	- Bollinger Band Top band - Bollinger Band Middle band - Bollinger Band Bottom band
SOPK(14,3,3,Simple) **PLOT(SOPK,RED)** **SOPD(14,3,3,simple)** **PLOT(SOPD,BLUE)**	- Stochastic %K - Stochastic %D
Macd(13,26,9,simple) **PLOT(MACD,RED)** **Macdsignal(13,26,9,simple)** **PLOT(MACDSIGNAL,BLUE)**	- MACD - Macd signal

Customized indicator formula

Some basic indicators

Formula	Formula type
ADX(14) **PLOT(ADX,RED)** **DIP(14)** **PLOT(DIP,BLACK)** **DIN(14)** **PLOT(DIN,Blue)**	-ADX
EMA(TR(), 27) **PLOT(ATR,RED)**	- ATR 14
SDV(CLOSE,14, 2, SIMPLE) **PLOT(SDV,RED)**	- Standard Deviation

REMEMBER TO ADD

PLOT(LINE NAME,COLOR)

Behind every line

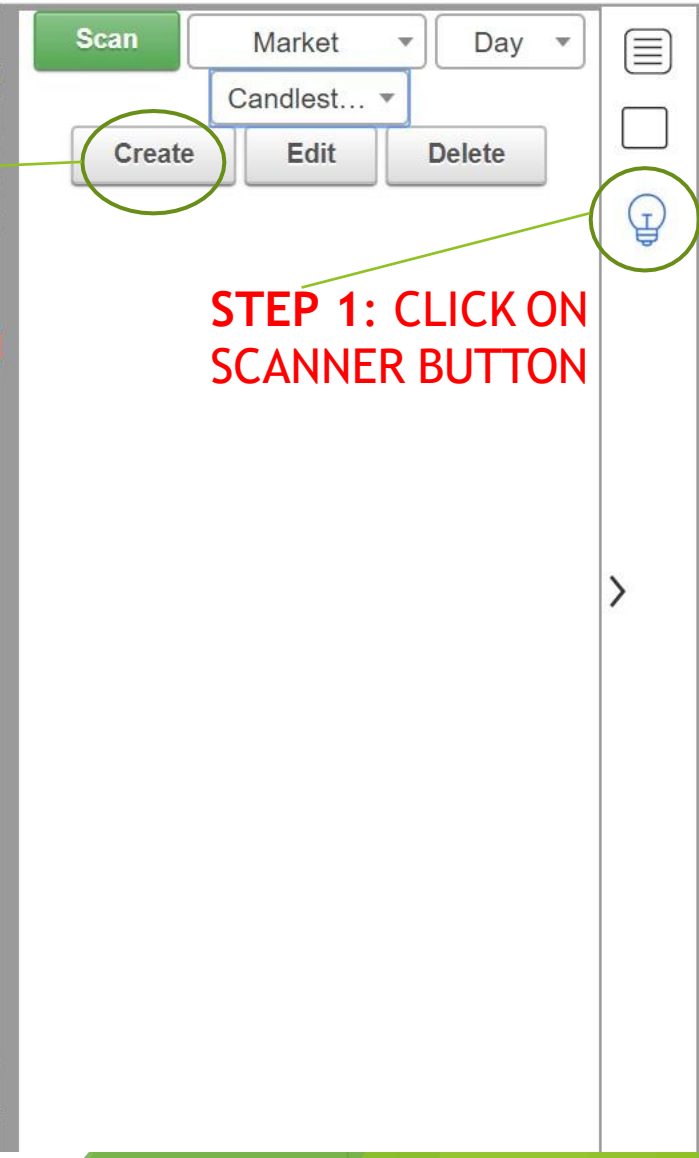
Example:

```
SOPK(14,3,3,Simple
PLOT(K,RED)
SOPD(14,3,3,simple)
PLOT(D,BLUE)
SET A = 80
PLOT(80,BLACK)
SET A = 50
PLOT(50,BLACK)
SET A = 20
PLOT(20,BLACK)
```

CUSTOM SCANNER SCRIPT

LEARN TO WRITE YOUR OWN CUSTOM SCANNER SCRIPT ON MINICHART WEB

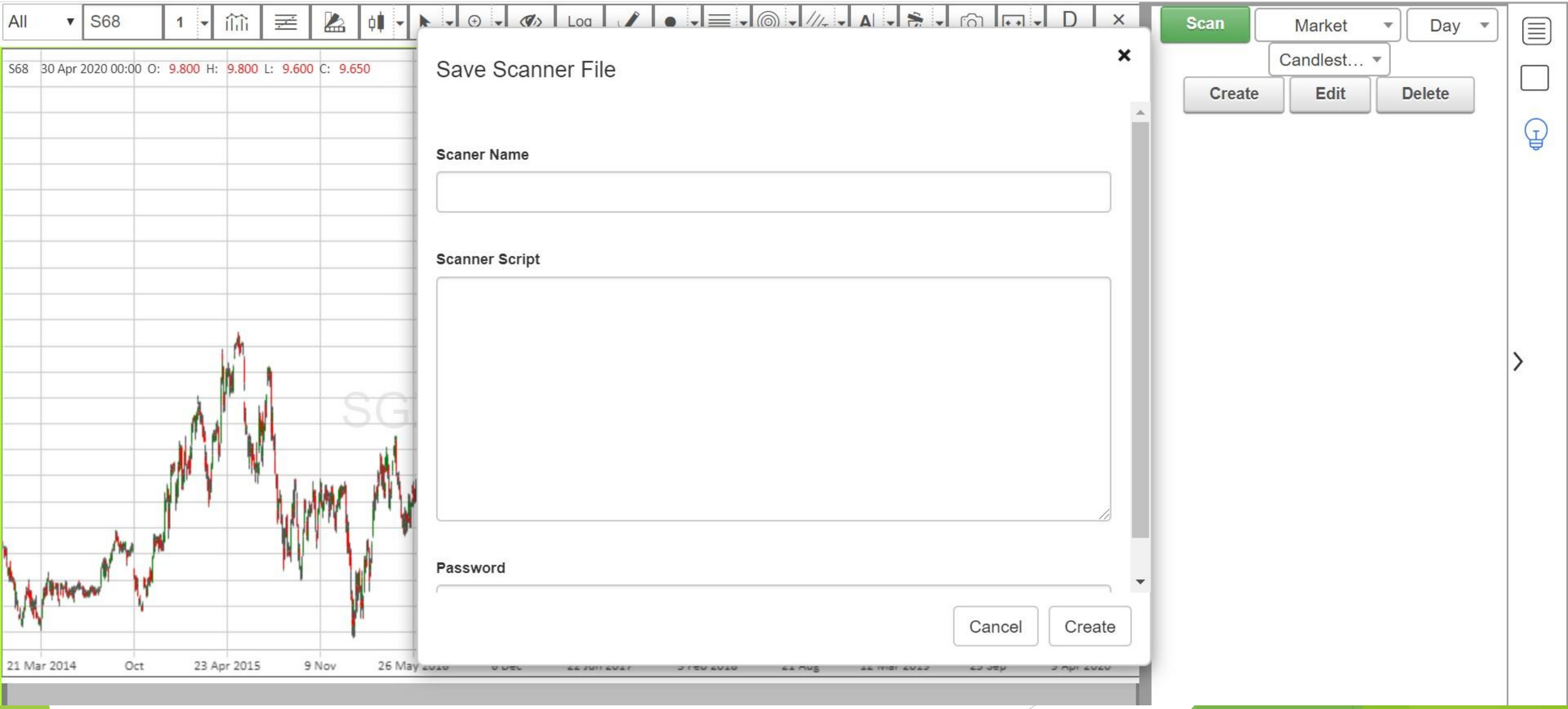
How to create custom scanner formula



STEP 2: CLICK ON CREATE BUTTON

STEP 1: CLICK ON SCANNER BUTTON

How to create custom scanner formula



SCANNER FORMULA FORMAT

- **<Add Column>{ COLUMN NAME, FORMULA } <add column>;**

- EXAMPLE:

<Add Column>{price crossover sma100,SET A = crossover(close, SMA(close,100))

SET B = IF(A=TRUE,1,0)**}<Add Column>;**

The above will scan for stocks with prices closing above the 100 day Simple Moving Average line

SCANNER FORMULA FORMAT

- EXAMPLE 2: MACD cross up its signal line

<Add Column>{MACD Crossover,

SET A= macd(13,26,9,simple)

SET B = macdsignal(13,26,9,simple)

SET C = CROSSOVER(A,B)

SET RESULT = IF(C=TRUE,1,0)**}<Add Column>;**

COMMON SYNTAX FOR SCANNER FORMULA

Primitive: + , - , / , * , > , < , =, if, MAX, MAXOF, MIN, MINOF, AVG

<Add Column>{VOLUME >200000, SET A = VOLUME >200000
SET RESULT = IF(A=TRUE,1,0)}<Add Column>;

Return true if volume is more than 200000

COMMON SYNTAX FOR SCANNER FORMULA

```
<Add Column>{Price break 5 days high,
SET A = CLOSE > REF(HHV(5),-1)
SET RESULT = IF(A=TRUE,1,0)}<Add
Column>;
```

```
<Add Column>{price break 5 days low, SET A = CLOSE < REF(LLV(5),-1)
SET RESULT = IF(A=TRUE,1,0)}<Add Column>;
```

COMMON SYNTAX FOR SCANNER FORMULA

```
<Add Column>{rsi > 70, SET A = rsi(close,14) > 70
SET RESULT = IF(A=TRUE,1,0)}<Add Column>;
```

COMMON SYNTAX FOR SCANNER FORMULA

```
<Add Column>{Williams %R < -80, SET A = WPR(14) < -80
SET RESULT = IF(A=TRUE,1,0)}<Add Column>;
```

```
<Add Column>{CCI > 0,
SET A = CCI(20,SIMPLE) > 0
SET RESULT = IF(A=TRUE,1,0)}<Add Column>;
```

```
<Add Column>{Volume > 20 DAYS AVG VOL,
SET A = VOLUME >AVG(VOLUME,20)
SET RESULT = IF(A=TRUE,1,0)}<Add Column>;
```

COMMON SYNTAX FOR SCANNER FORMULA

```
<Add Column>{RSI Cross Down 50 , SET A = Crossover(50,rsi(close,14))
SET RESULT = IF(A=TRUE,1,0)
}<Add Column>;
```

```
<Add Column>{CCI Cross Up 50 ,
SET A = CCI(20, SIMPLE)
SET B = CROSSOVER(A,50)
SET RESULT = IF(B=TRUE,1,0)
}<Add Column>;
```

COMMON SYNTAX FOR SCANNER FORMULA

```
<Add Column>{Stochastic Crossover signal line,
SET A = CROSSOVER(SOPK(14,3,3,Simple),SOPD(14,3,3,Simple))
SET RESULT = IF(A=TRUE,1,0)
}<Add Column>;
```

```
<Add Column>{MACD Crossover signal line,
SET A= macd(13,26,9,simple)
SET B = macdsignal(13,26,9,simple)
SET C = CROSSOVER(A,B)
SET RESULT = IF(C=TRUE,1,0)
}<Add Column>;
```

COMMON SYNTAX FOR SCANNER FORMULA

<Add Column>{Price breakout with high volume,
SET A =AVG(Volume,100)
SET B = Volume > (A*2)
SET E = CLOSE > REF(HHV(5),-1)
SET RESULT = MinOF(B,E)}<Add Column>;
Return true if the volume is more than 2 times of the average 100 days Volume and Price breaks above 5 days high

COMMON SYNTAX FOR SCANNER FORMULA

```
<Add Column>{Price Cross Down Bollinger Top Band,
SET A = BBT(CLOSE, 14, 1, SIMPLE)
SET B = CROSSOVER(A,CLOSE)
SET C = IF(B=TRUE,1,0)
}<Add Column>;

Return true if Price cross down the top band of Bollinger Band
```

COMMON SYNTAX FOR SCANNER FORMULA

Must satisfy either one of the condition

<Add Column>{maxof,
SET A = CROSSOVER(SOPK(14,3,3,Simple), 50)
SET B = CROSSOVER(RSI(close,14),50)
SET RESULT = MAXOF(A,B)
}<Add Column>;

Return true if Stochastic cross up 50 or RSI cross up 50

COMMON SYNTAX FOR SCANNER FORMULA

Must satisfy all conditions-Combine condition to scan

<Add Column>{minof, SET A= RSI(close,14)>50
SET E = CLOSE > 0.5
SET RESULT = MINOF(A,E)
}<Add Column>;

Return true if RSI is more than 50 and close price is more than $0.5

COMMON SYNTAX FOR SCANNER FORMULA

Combination of various conditions

```
<Add Column>{maxof minof,
SET A = CROSSOVER(SOPK(14,3,3,Simple),50)
SET B = CROSSOVER(SOPK(14,3,3,Simple),SOPD(14,3,3,Simple))
SET G = SOPK(14,3,3,Simple)<80
SET A1 = IF(A=TRUE,1,0)
SET B1 = IF(B=TRUE,1,0)
SET C = MAXOF(A1,B1)
SET C1 = IF(C>0,1,0)
SET G1 = IF(G=TRUE,1,0)
SET D = MINOF(G1,C1)
SET RESULT = IF(D>0,1,0)
}<Add Column>;
```

Return true if:
Stochastic less than 80 and Stochastic cross up signal or
Stochastic less than 80 and Stochastic cross up 50

COMMON SYNTAX FOR SCANNER FORMULA

```
<Add Column>{3 blackbar,
SET A = ref(open,-1) > ref(close,-1)
SET B = ref(open,-2) > ref(close,-2)
SET C = ref(open,-3) > ref(close,-3)
SET H= MINOF(A,B,C)
SET D = open > close
SET RESULT = MINOF(H,D)
}<Add Column>;
```

Return true if there are 3 consecutive black bars

COMMON SYNTAX FOR SCANNER FORMULA

```
<Add Column>{Price cross up MMA,
SET MA1 = SMA(CLOSE,30)
SET MA2 = SMA(CLOSE,10)
SET MA3 = SMA(CLOSE,11)
SET MA4 = SMA(CLOSE,12)
SET MA5 = SMA(CLOSE,13)
SET MA6 = SMA(CLOSE,14)
SET R1 = CROSSOVER(CLOSE,MAXOF(MA1,MA2,MA3,MA4,MA5,MA6))
SET RESULT = IF(R1=TRUE,1,0)
}<Add Column>;
```

Return true if price cross-up all the Moving Average lines

COMMON SYNTAX FOR SCANNER FORMULA

Return result (Show RSI Value) only If certain condition takes place

<Add Column>{IF,
SET A = RSI(close,14) > 50
SET RESULT = IF(A,CLOSE,0)
}<Add Column>;
Return the value of closing price if RSI is more than 20

Highest close price for the past 5 days

<Add Column>{MAX,
SET RESULT = MAX(CLOSE,5)
}<Add Column>;
Return the value of the maximum closing price for the past 5 days

COMMON SYNTAX FOR SCANNER FORMULA

Lowest price for the past 5 days

<Add Column>{MIN,
SET RESULT = MIN(CLOSE,5)
}<Add Column>;
Return the value of the minimum closing price for the past 5 days

Thank you.