```
// This work is licensed under a Attribution 4.0 International (CC BY 4.0)
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// © gu5tavo71 (Gustavo Cardelle)
//@version=5
VERSION
                     = 'v1 0 6'// 2024.06.04
strategy(
 'CCI + T3 + RedK + VWAP',
 shorttitle
                  = 'CCI + T3 + RedK + VWAP' + VERSION,
 overlay
                  = false,
 explicit_plot_zorder = true,
 initial_capital
                   = 10000,
 default_qty_type
                      = strategy.percent_of_equity,
 default_qty_value
                      = 1)
// Project #860
// Original code: "CCI" framework by Bullit-in script library
// and "T3 Volatility Quality Index (VQI) w/ DSL & Pips Filtering" by loxx
// and "Directional Volume EStimate from Price Action" by RedKTrader aka D VESPA
// and "VWAP" framework by Bullit-in script library
// Actual version: @gu5tavo71 for Tradingfy (@Tradingfy by Twitter)
// This script reuses open source code from another authors:
// @PineCoders, Built-in Library, and Community Scripts
// Disclaimer: I am not a financial advisor.
         For purpose educate only. Use at your own risk.
G_SCRIPT01 = '■ ' + 'CCI'
i script01 = input.bool
                        (true,
                                    G_SCRIPT01 + On/Off', group = G_SCRIPT01
//#region ——— < _ _ _ G SCRIPT01 _ _ _ > {
//@version=5
// indicator(title="Commodity Channel Index", shorttitle="CCI", format=format.price, precision=2,
timeframe="", timeframe gaps=true)
cciLen = input.int(20, minval=1)
src = input(hlc3, title="Source")
ma = ta.sma(src, cciLen)
cci = (src - ma) / (0.015 * ta.dev(src, cciLen))
// plot(cci, "CCI", color=#2962FF)
// band1 = hline(100, "Upper Band", color=#787B86, linestyle=hline.style_dashed)
// hline(0, "Middle Band", color=color.new(#787B86, 50))
// band0 = hline(-100, "Lower Band", color=#787B86, linestyle=hline.style dashed)
// fill(band1, band0, color=color.rgb(33, 150, 243, 90), title="Background")
```

```
ma(source, cciLen, type) =>
  switch type
    "SMA" => ta.sma(source, cciLen)
    "EMA" => ta.ema(source, cciLen)
    "SMMA (RMA)" => ta.rma(source, cciLen)
    "WMA" => ta.wma(source, cciLen)
    "VWMA" => ta.vwma(source, cciLen)
typeMA = input.string(title = "Method", defval = "SMA", options=["SMA", "EMA", "SMMA (RMA)",
"WMA", "VWMA"], group="Smoothing")
smoothingLength = input.int(title = "Length", defval = 5, minval = 1, maxval = 100,
group="Smoothing")
smoothingLine = ma(cci, smoothingLength, typeMA)
// plot(smoothingLine, title="Smoothing Line", color=#f37f20, display=display.none)
// plot (
// cci,
// title
        = 'cci',
// linewidth = 2,
// color = cciCol,
// style
         = plot.style_line)
//#endregion }
                   G SCRIPT02 = '■ ' + 'T3'
i_script02 = input.bool (true,
                                  G_SCRIPT02 + 'On/Off', group = G_SCRIPT02)
//#region \longrightarrow <\\\ G_SCRIPT02 \\\\\ \\ \\ \\ \
// This source code is subject to the terms of the Mozilla Public License 2.0 at
https://mozilla.org/MPL/2.0/
// © loxx
// //@version=5
// indicator("T3 Volatility Quality Index (VQI) w/ DSL & Pips Filtering [Loxx]",
  // shorttitle="T3VQIDSLPF [Loxx]",
  // overlay = false,
  // timeframe="",
  // timeframe_gaps = true)
import loxx/loxxmas/1
greencolor = #2DD204
```

```
redcolor = #D2042D
darkGreenColor = #1B7E02
darkRedColor = #93021F
_iT3(src, per, hot, clean)=>
  a = hot
  _c1 = -a * a * a
  _c2 = 3 * a * a + 3 * a * a * a
  _c3 = -6 * a * a - 3 * a - 3 * a * a * a
  c4 = 1 + 3 * a + a * a * a + 3 * a * a
  alpha = 0.
  if (clean == "T3 New")
     alpha := 2.0 / (2.0 + (per - 1.0) / 2.0)
  else
     alpha := 2.0 / (1.0 + per)
  _t30 = src, _t31 = src
  _{t32} = src, _{t33} = src
  _{t34} = src, _{t35} = src
  _{t30} := nz(_{t30[1]}) + alpha * (src - nz(_{t30[1]}))
  _{t31} := nz(_{t31[1]}) + alpha * (_{t30} - nz(_{t31[1]}))
  _{t32} := nz(_{t32[1]}) + alpha * (_{t31} - nz(_{t32[1]}))
  _{t33} := nz(_{t33[1]}) + alpha * (_{t32} - nz(_{t33[1]}))
  _{t34} := nz(_{t34[1]}) + alpha * (_{t33} - nz(_{t34[1]}))
  _{t35} := nz(_{t35[1]}) + alpha * (_{t34} - nz(_{t35[1]}))
  out =
      _c1 * _t35 + _c2 * _t34 +
      _c3 * _t33 + _c4 * _t32
  out
_declen()=>
  mtckstr = str.tostring(syminfo.mintick)
  da = str.split(mtckstr, ".")
  temp = array.size(da)
  dlen = 0.
  if syminfo.mintick < 1
     dstr = array.get(da, 1)
     dlen := str.length(dstr)
  dlen
```

```
variant(type, src, len) =>
  sig = 0.0
  trig = 0.0
  special = false
  if type == "Exponential Moving Average - EMA"
     [t, s, b] = loxxmas.ema(src, len)
    sig := s
    trig := t
     special := b
  else if type == "Fast Exponential Moving Average - FEMA"
     [t, s, b] = loxxmas.fema(src, len)
     sig := s
    trig := t
     special := b
  trig
PriceSmoothing = input.int(5, "Source Smoothing Period", group= "Basic Settings")
t3hot = input.float(.5, "T3 Hot", group= "Basic Settings")
t3swt = input.string("T3 New", "T3 Type", options = ["T3 New", "T3 Original"], group = "Basic
Settings")
FilterInPips = input.float(1.9, "Filter in Pips", group= "Basic Settings")
sigmatype = input.string("Exponential Moving Average - EMA", "Signal/DSL Smoothing", options
= ["Exponential Moving Average - EMA", "Fast Exponential Moving Average - FEMA"], group =
"Signal/DSL Settings")
Ma1Period = input.int(9, "DSL Period", group= "Signal/DSL Settings")
colorbars = input.bool(true, "Color bars?", group = "UI Options")
showSigs = input.bool(true, "Show signals?", group = "UI Options")
pipMultiplier = math.pow(10, _declen() % 2)
cHigh = _iT3(high, PriceSmoothing, t3hot, t3swt)
cLow = iT3(low, PriceSmoothing, t3hot, t3swt)
cOpen = iT3(open, PriceSmoothing, t3hot, t3swt)
cClose = _iT3(close, PriceSmoothing, t3hot, t3swt)
pClose = _iT3(nz(close[1]), PriceSmoothing, t3hot, t3swt)
val = 0., valc = 0.
truerng = math.max(cHigh, pClose) - math.min(cLow, pClose)
rng = cHigh - cLow
```

```
vqi = (rng!= 0 and truerng!= 0)? ((cClose - pClose) / truerng + (cClose - cOpen) / rng) * 0.5:
val[1]
val := nz(val[1]) + math.abs(vgi) * (cClose - pClose + cClose - cOpen) * 0.5
if (FilterInPips > 0)
  if (math.abs(val - val[1]) < FilterInPips * pipMultiplier * syminfo.mintick)</pre>
     val := nz(val[1])
sig = nz(val[1])
temp = variant(sigmatype, val, Ma1Period)
levelu = 0., leveld = 0., mid = 0.
levelu := (val > sig) ? temp : nz(levelu[1])
leveld := (val < sig) ? temp : nz(leveld[1])</pre>
// colorout = val > levelu ? greencolor : val < leveld ? redcolor : color.gray
// plot(val, "VQI", color = colorout, linewidth = 3)
// plot(levelu, "Level Up", color = darkGreenColor)
// plot(leveld, "Level Down", color = darkRedColor)
goLong = ta.crossover(val, levelu)
goShort = ta.crossunder(val, leveld)
// plotshape(showSigs and goLong, title = "Long", color = color.yellow, textcolor = color.yellow,
text = "L", style = shape.triangleup, location = location.bottom, size = size.auto)
// plotshape(showSigs and goShort, title = "Short", color = color.fuchsia, textcolor =
color.fuchsia, text = "S", style = shape.triangledown, location = location.top, size = size.auto)
// alertcondition(goLong, title = "High Volatility", message = "T3 Volatility Quality Index (VQI) w/
DSL & Pips Filtering [Loxx]: Uptrend\nSymbol: {{ticker}}\nPrice: {{close}}")
// alertcondition(goShort, title = "Low Volatility", message = "T3 Volatility Quality Index (VQI) w/
DSL & Pips Filtering [Loxx]: Downtrend\nSymbol: {{ticker}}\nPrice: {{close}}")
// barcolor(colorbars ? colorout : na)
//#endregion }
                   ----- < ↑ ↑ ↑ G_SCRIPT02 ↑ ↑ ↑ >
G_SCRIPT03 = '■ ' + 'RedK D_VESPA'
i script03 = input.bool
                            (true,
                                      G_SCRIPT03 + 'On/Off', group = G_SCRIPT03)
//#region \longrightarrow <\\\ G_SCRIPT03 \\\\ \\ \\ \\ \
```

```
// This source code is subject to the terms of the Mozilla Public License 2.0 at
https://mozilla.org/MPL/2.0/
// © RedKTrader - May 2023
// //@version=5
// indicator(title='Directional Volume Estimate from Pirce Action v1.0', shorttitle='RedK D_VESPA
v1.0',
// format=format.volume, timeframe=", timeframe gaps=false, explicit plot zorder = true)
// Originally this was based on V. Viewer - it estimates and plots average supply & demand
volume based on price action
// it uses the shape of a price bar to estimate the supply vs demand split of the traded volume
// & plots a moving average of both, and an estimated Average "Net Volume"
// This provides an insightful way to look at the traded volume compared to the classic volume
histogram view
// -----
//
// - Supply/Demand calc now includes 2-bar gaps (improved algo)
// - Add option for MA type for calculation
// - Add option to show Net Volume as 3-color bars
// - Visual simplification and improvements to be less distracting & more actionable
// - options to display/hide main visuals while maintaining the status line consistency (Avg
Supply, Avg Demand, Avg Net)
// - add alerts for NetVol moving into Buy (crosses 0 up) or Sell (crosses 0 down) modes
// - implement a "sentiment" timeframe - options 1W, 1D, 1H
// using request.scurity() calls to bring in the data from the HTF and pass to the Calc VESPA
function
//
______
______
GetAverage(_data, _len, MAOption) =>
  value = switch MAOption
    'SMA' => ta.sma( data, len)
    'EMA' => ta.ema(_data, _len)
    'RMA' => ta.rma(_data, _len)
      ta.wma(_data, _len)
//
Calc_VESPA(bool VolumeOn, bool GapsOn) =>
```

```
//
*****
  // Extrapolate avg estimated Buy & Sell volume per bar
  // How the updated buy/sell average estimated volume algo works:
  // buy volume is associated with price up-moves, sell volume is associated with price
down-moves
  // so each of the bulls and bears will get the equivalent of the top & bottom wicks,
  // for up bars, bulls get the value of the "body", else the bears get the "body"
  // open gaps are allocated to bulls or bears depending on the gap direction (if the option is
selected)
  // if there's no volume, then this will just reflect the price action split between buyers/sellers
  o = open
  c = close
  h = high
  I = low
  v = na(volume) or not VolumeOn ? 1 : volume
           = o - c[1]
  gap
  bull gap = math.max(gap, 0)
  bear_gap = math.abs(math.min(gap, 0))
  body
            = math.abs(c - o)
  BarRange = h - 1
  wick
           = BarRange - body
  up bar
            = c > 0
  bull
          = wick + (up_bar ? body : 0) + (GapsOn ? bull_gap : 0)
  bear
           = wick + (up_bar ? 0 : body) + (GapsOn ? bear_gap : 0)
  ViRange = bull + bear
  // Rare cases with very low TF's (mainly FOREX) where no price movement occurs, ViRange
(including gaps) = 0
  BScore = ViRange > 0 ? bull / ViRange : 0.5
  BuyVol = BScore * v
  SellVol = v - BuyVol
```

```
// Return Estimated Buy & Sell Volume values
 [BuyVol, SellVol]
//
*****
// inputs
          length
       = input.int(title='Volume Length', defval=16, minval=1)
         = input.string("WMA", "Average type", options = ['SMA', 'EMA', 'RMA', 'WMA'])
AvgType
smooth
        = input.int(title='Smoothing',
                                 defval=8, minval=1)
VolumeWeighted = input.bool(true, "Volume Weighted (Keep on)")
GapImpact
            = input.bool(true, "2-bar Gap Impact (Keep on)")
ShowNetVolBars = input.bool(true, "Show NetVol Bars")
ShowNetVolHisto = input.bool(true, "Show NetVol Histogram")
//
// variables
// Calculate estimated Buy & Sell colume
[B_BuyVol, B_SellVol] = Calc_VESPA(VolumeWeighted, GapImpact)
// Calc average Buy & Sell vol and NetVol from estimate
demand
         = ta.wma(GetAverage(B_BuyVol, length, AvgType), smooth)
        = ta.wma(GetAverage(B_SellVol, length, AvgType), smooth)
supply
NetVol
        = demand - supply
// Plots -- classic volume bars have been removed
```

```
*****
col_red
         = color.new(#ff0000, 00)
col green
          = color.new(#00ff00, 00)
col hist red = color.new(\#ef5350, 25)
col_hist_green = color.new(#089981, 25)
         = color.new(#ffeb3b, 20)
col gold
//plot(v,
         title='Volume',
                       style=plot.style_columns, color=up_bar?col_green:col_red,
display=display.none)
//
______
______
// NetVol Bars Plot
______
______
nvo = fixnan(supply)
                           // fixes NaN values - observed mainly on Renko
nvc = fixnan(demand)
nvh = math.max(nvo, nvc)
nvl = math.min(nvo, nvc)
      = ta.change(NetVol) > 0
rising
c_barup = color.new(#11ff20, 60)
c bardn = color.new(\#ff1111, 60)
c_bardj = color.new(#ffffff, 50)
c_barupb = color.new(#1b5e20, 50)
c bardnb = color.new(#981919, 50)
c_bardjb = color.new(#9598a1, 50)
// barcolor = nvc > nvo and rising ? c_barup : nvc < nvo and not rising ? c_bardn : c_bardj
borcolor = nvc > nvo and rising ? c_barupb : nvc < nvo and not rising ? c_bardnb : c_bardjb
```

// plotcandle(nvo, nvh, nvl, nvc, 'NetVol Bars', barcolor, barcolor, bordercolor = borcolor,

title='zero line', linestyle=hline.style_dotted, color=col_gold,

// display = ShowNetVolBars ? display.pane : display.none)

// hline(0,

```
// display = ShowNetVolHisto ? display.all : display.none) //hides with histogram
// plot(supply, title='Supply',
                         color=col_red,
                                       linewidth=2)
// plot(demand, title='Demand',
                            color=col green,
                                          linewidth=2)
//
______
______
// Net Volume Histogram Plot
______
// c_NetVol = NetVol >= 0 ? col_hist_green : col_hist_red
// plot(NetVol, title='NetVol Histogram', style=plot.style_columns, color = c_NetVol,
linewidth = 4.
// display = ShowNetVolHisto ? display.all : display.status line + display.data window)
//
_____
// Secondary TF Average Net Volume Plot
//
______
S gp = "Secondary TF"
ShowS_NetVol = input.bool(false, 'Show Secondary', group = S_gp, inline = "Senti_TF") //
STF plot hidden by default
i STF
        = input.string("Chart", 'TF', options = ['Chart', '1Wk', '1Day', '1Hr'], group = S_gp,
inline = "Senti TF")
S length
         = input.int(12, "Length", minval = 1, group = S gp, inline = "Senti L")
          = input.int(4, "Smooth", minval = 1, group = S_gp, inline = "Senti_L")
S_smooth
STF = switch i STF
 '1Wk' => 'W'
 '1Day' => 'D'
 '1Hr' => '60'
 =>
   timeframe.period
```

```
// Error trap here if selected secondary TF is lower than chart
float chartTF Mins = timeframe.in seconds() / 60
float i_STF_Mins = timeframe.in_seconds(STF) / 60
if chartTF Mins > i STF Mins and ShowS NetVol
  runtime.error("Secondary timeframe must be equal to, or higher than, the chart's timeframe.")
[S_BuyVol, S_SellVol] = request.security(syminfo.tickerid, STF, Calc_VESPA(VolumeWeighted,
GapImpact))
S demand
           = request.security(syminfo.tickerid, STF, ta.wma(GetAverage(S_BuyVol,
S length, AvgType), S smooth))
S_supply
          = request.security(syminfo.tickerid, STF, ta.wma(GetAverage(S_SellVol, S_length,
AvgType), S_smooth))
S NetVol
          = S_demand - S_supply
c_S_NetVol = S_NetVol >= 0 ? color.aqua : color.orange
// plot(S_NetVol, title='Secondary TF NetVol', color = c_S_NetVol, linewidth = 2,
// display = ShowS NetVol ? display.all : display.data window)
// plot(S_supply, color = color.red)
// plot(S_demand, color = color.green)
______
______
// Alerts
//
______
_____
// Primary TF Alerts
Al NetVol up = ta.crossover(NetVol, 0)
Al_NetVol_dn = ta.crossunder(NetVol, 0)
Al_NetVol_swing = Al_NetVol_up or Al_NetVol_dn
// alertcondition(Al NetVol up, "A1. Avg NetVol Crossing 0 Up",
                                                        "Avg NetVol Positive -
Bullish Mode Detected!")
// alertcondition(Al_NetVol_dn, "A2. Avg NetVol Crossing 0 Down", "Avg NetVol Negative -
Bearish Mode Detected!")
// alertcondition(Al NetVol swing, "A3. Avg NetVol Crossing 0",
                                                        "Avg NetVol Swing -
Possible Mode Reversal Detected!")
```

```
// Secondary TF Alerts
Al_SNetVol_up = ta.crossover(S_NetVol, 0)
Al_SNetVol_dn = ta.crossunder(S_NetVol, 0)
Al SNetVol swing = Al SNetVol up or Al SNetVol dn
// alertcondition(Al_SNetVol_up, "B1. STF Avg NetVol Crossing 0 Up",
                                                                         "Secondary TF Avg
NetVol Positive - Bullish Mode Detected!")
// alertcondition(Al_SNetVol_dn,
                                "B2. STF Avg NetVol Crossing 0 Down",
                                                                          "Secondary TF
Avg NetVol Negative - Bearish Mode Detected!")
// alertcondition(Al_SNetVol_swing, "B3. STF Avg NetVol Crossing 0",
                                                                        "Secondary TF Avg
NetVol Swing - Possible Mode Reversal Detected!")
//#endregion }
                      —— <↑↑↑ G_SCRIPT03 ↑↑↑>
G_SCRIPT04 = '■ ' + 'VWAP'
i_script04 = input.bool
                          (true,
                                   G_SCRIPT04 + ' On/Off'
                                                                , group = G_SCRIPT04)
//#region \longrightarrow <\\\\ G_SCRIPT04 \\\\\ \\ \\ \\ \
// //@version=5
// indicator(title="Volume Weighted Average Price", shorttitle="VWAP", overlay=true,
timeframe="", timeframe_gaps=true)
hideonDWM = input(false, title="Hide VWAP on 1D or Above", group="VWAP Settings", display
= display.data_window)
var anchor = input.string(defval = "Session", title="Anchor Period",
options=["Session", "Week", "Month", "Quarter", "Year", "Decade", "Century", "Earnings",
"Dividends", "Splits"], group="VWAP Settings")
vwapSrc = input(title = "Source", defval = hlc3, group="VWAP Settings", display =
display.data window)
offset = input.int(0, title="Offset", group="VWAP Settings", minval=0, display =
display.data_window)
BANDS_GROUP = "Bands Settings"
CALC MODE_TOOLTIP = "Determines the units used to calculate the distance of the bands.
When 'Percentage' is selected, a multiplier of 1 means 1%."
calcModeInput = input.string("Standard Deviation", "Bands Calculation Mode", options =
["Standard Deviation", "Percentage"], group = BANDS_GROUP, tooltip =
CALC_MODE_TOOLTIP, display = display.data_window)
showBand_1 = input(true, title = "", group = BANDS_GROUP, inline = "band_1", display =
```

```
display.data window)
bandMult 1 = input.float(1.0, title = "Bands Multiplier #1", group = BANDS GROUP, inline =
"band_1", step = 0.5, minval=0, display = display.data_window)
showBand_2 = input(false, title = "", group = BANDS_GROUP, inline = "band_2", display =
display.data window)
bandMult_2 = input.float(2.0, title = "Bands Multiplier #2", group = BANDS_GROUP, inline =
"band 2", step = 0.5, minval=0, display = display.data window)
showBand_3 = input(false, title = "", group = BANDS_GROUP, inline = "band_3", display =
display.data window)
bandMult_3 = input.float(3.0, title = "Bands Multiplier #3", group = BANDS_GROUP, inline =
"band 3", step = 0.5, minval=0, display = display.data window)
if ta.cum(volume) == 0
  runtime.error("No volume is provided by the data vendor.")
new earnings = request.earnings(syminfo.tickerid, earnings.actual, barmerge.gaps on,
barmerge.lookahead_on, ignore_invalid_symbol=true)
new_dividends = request.dividends(syminfo.tickerid, dividends.gross, barmerge.gaps_on,
barmerge.lookahead on, ignore invalid symbol=true)
new split = request.splits(syminfo.tickerid, splits.denominator, barmerge.gaps on,
barmerge.lookahead_on, ignore_invalid_symbol=true)
isNewPeriod = switch anchor
       "Earnings" => not na(new_earnings)
       "Dividends" => not na(new dividends)
       "Splits" => not na(new_split)
       "Session" => timeframe.change("D")
       "Week" => timeframe.change("W")
       "Month" => timeframe.change("M")
       "Quarter" => timeframe.change("3M")
       "Year" => timeframe.change("12M")
       "Decade" => timeframe.change("12M") and year % 10 == 0
       "Century" => timeframe.change("12M") and year % 100 == 0
       => false
isEsdAnchor = anchor == "Earnings" or anchor == "Dividends" or anchor == "Splits"
if na(vwapSrc[1]) and not isEsdAnchor
       isNewPeriod := true
float vwapValue = na
float upperBandValue1 = na
float lowerBandValue1 = na
float upperBandValue2 = na
```

```
float lowerBandValue2 = na
float upperBandValue3 = na
float lowerBandValue3 = na
if not (hideonDWM and timeframe.isdwm)
  [_vwap, _stdevUpper, _] = ta.vwap(vwapSrc, isNewPeriod, 1)
       vwapValue := _vwap
  stdevAbs = stdevUpper - vwap
       bandBasis = calcModeInput == "Standard Deviation" ? stdevAbs: vwap * 0.01
       upperBandValue1 := _vwap + bandBasis * bandMult_1
       lowerBandValue1 := vwap - bandBasis * bandMult 1
       upperBandValue2 := vwap + bandBasis * bandMult 2
       lowerBandValue2 := _vwap - bandBasis * bandMult 2
       upperBandValue3 := _vwap + bandBasis * bandMult_3
       lowerBandValue3 := _vwap - bandBasis * bandMult_3
// plot(vwapValue, title="VWAP", color=#2962FF, offset=offset)
// upperBand_1 = plot(upperBandValue1, title="Upper Band #1", color=color.green, offset=offset,
display = showBand 1? display.all : display.none)
// lowerBand_1 = plot(lowerBandValue1, title="Lower Band #1", color=color.green, offset=offset,
display = showBand_1 ? display.all : display.none)
// fill(upperBand 1, lowerBand 1, title="Bands Fill #1", color= color.new(color.green, 95) ,
display = showBand_1 ? display.all : display.none)
// upperBand 2 = plot(upperBandValue2, title="Upper Band #2", color=color.olive, offset=offset,
display = showBand 2 ? display.all : display.none)
// lowerBand_2 = plot(lowerBandValue2, title="Lower Band #2", color=color.olive, offset=offset,
display = showBand_2 ? display.all : display.none)
// fill(upperBand 2, lowerBand 2, title="Bands Fill #2", color= color.new(color.olive, 95) ,
display = showBand_2 ? display.all : display.none)
// upperBand 3 = plot(upperBandValue3, title="Upper Band #3", color=color.teal, offset=offset,
display = showBand 3 ? display.all : display.none)
// lowerBand_3 = plot(lowerBandValue3, title="Lower Band #3", color=color.teal, offset=offset,
display = showBand_3 ? display.all : display.none)
// fill(upperBand_3, lowerBand_3, title="Bands Fill #3", color= color.new(color.teal, 95) ,
display = showBand_3 ? display.all : display.none)
//#endregion }
// -----< < \ \ \ \ G_SCRIPT04 \ \ \ \ \ \ \ \ \ \
G SCRIPT = '■ ' + 'CCI + T3 + RedK + VWAP'
```

```
// -----
                 ——— <function declarations>
// @function
                    Label for HeatMap
// @param _txt
                    (string) You txt
// @param _y
                      (int) Level for label
// @returns
                    (label) Label w/you text
f_labelPrint(_txt, _y)=>
  var label lh = label.new(
   x = bar index
   y = na
   text = ",
   textalign = text.align_right,
   textcolor = color.gray,
   color = color.new(color.black, 100),
   style = label.style_label_left,
   size = size.normal)
  label.set_text(lh, _txt)
  label.set_xy(lh, bar_index + 1, _y)
  label.delete(na)
// -----
         -----< <calculations>
ccDir = cci > 0 ? 1 : -1
t3Dir = val > levelu ? 1 : val < leveld ? -1 : 0
dvespaDir = NetVol >= 0 ? 1 : -1
           = vwapValue < close ? 1 : -1
vwapDir
//<set initial values>
var marketPosition = 0.0
//<triggers>
leTrigger1 = i script01 ? ccDir == 1 : true
leTrigger2 = i script02 ? t3Dir == 1 : true
leTrigger3
             = i_script03 ? dvespaDir == 1 : true
leTrigger4 = i_script04 ? vwapDir == 1 : true
leTrigger
            = leTrigger1 and leTrigger2 and leTrigger3 and leTrigger4
seTrigger1 = i_script01 ? ccDir == -1 : true
seTrigger2 = i_script02 ? t3Dir == -1 : true
seTrigger3 = i_script03 ? dvespaDir == -1 : true
seTrigger4 = i_script04 ? vwapDir == -1 : true
seTrigger
             = seTrigger1 and seTrigger2 and seTrigger3 and seTrigger4
lxTrigger
            = false
sxTrigger
             = false
//<marketPosition>
```

```
// marketPosition is a numerical variable:1 for Long, -1 for Short and 0 for eXit
switch
  IxTrigger and marketPosition[1] == 1 => marketPosition := 0
  sxTrigger and marketPosition[1] == -1 => marketPosition := 0
  leTrigger and marketPosition[1] <= 0 => marketPosition := 1
  seTrigger and marketPosition[1] >= 0 => marketPosition := -1
longX
          = IxTrigger and marketPosition[1] == 1 and marketPosition == 0
          = sxTrigger and marketPosition[1] == -1 and marketPosition == 0
shortX
longE
          = leTrigger and marketPosition[1] <= 0 and marketPosition == 1
shortE
          = seTrigger and marketPosition[1] >= 0 and marketPosition == -1
//<color>
cciCol
          = i_script01 ?
          ccDir == 1 ? color.new(color.green, 0) :
          ccDir == -1 ? color.new(color.red, 0) : na
       : color.new(color.gray, 50)
t3Col
         = i script02 ?
          t3Dir == 1 ? color.new(#2DD204, 0):
          t3Dir == -1 ? color.new(#D2042D, 0) : na
        : color.new(color.gray, 50)
dvespaCol = i_script03 ?
          dvespaDir == 1 ? color.new(#089981, 25) :
          dvespaDir == -1 ? color.new(#ef5350, 25) : na
       : color.new(color.gray, 50)
vwapCol
            = i script04 ?
          vwapDir == 1 ? color.new(color.green, 0) :
          vwapDir == -1 ? color.new(color.red, 0) : na
       : color.new(color.gray, 50)
// ----<strategy calls>
//<long orders>
if longE
  strategy.entry(
   'Long',
   strategy.long,
   comment
                 = 'LE')
if strategy.position_size > 0
  strategy.exit(
   id
             = 'Long Exit',
   from_entry = 'Long',
   stop
             = na,
   limit
             = na
if longX
```

```
strategy.close(
   'Long',
   comment
                  = LX'
//<short orders>
if shortE
  strategy.entry(
   'Short',
   strategy.short,
                  = 'SE')
   comment
if strategy.position_size < 0
  strategy.exit(
              = 'Short Exit',
   id
                  = 'Short',
   from_entry
   stop
               = na,
   limit
              = na)
if shortX
  strategy.close(
    'Short',
   comment
                  = 'SX')
                       ---- <visuals>
plotchar(
 longE
           ? 5 : na,
 title
        = 'Long',
 color
          = color.new(color.green, 0),
 char
          = '▲',
 size
         = size.small,
 location = location.absolute)
plotchar(
 shortE
           ? 5 : na,
 title
        = 'Short',
 color
          = color.new(color.red, 0),
 char
          = '▼',
 size
         = size.small,
 location = location.absolute)
f_labelPrint('CCI', 4)
plotchar(
 4,
 title
        = 'CCI',
 color
          = cciCol,
          = '■',
 char
 size
         = size.small,
```

```
location = location.absolute)
f_labelPrint('T3', 3)
plotchar(
 3,
        = 'T3',
 title
 color
         = t3Col
 char
          = '■',
 size
         = size.small,
 location = location.absolute)
f_labelPrint('RedK', 2)
plotchar(
 2,
 title
        = 'RedK',
 color
         = dvespaCol,
 char
          = '■',
 size
         = size.small,
 location = location.absolute)
f_labelPrint('VWAP', 1)
plotchar(
 1,
 title
        = 'VWAP',
 color
         = vwapCol,
 char
         = '■',
 size
         = size.small,
 location = location.absolute)
//<debug>
plot(
 na,
 title
        = "------ <debug> ------",
 editable = false,
 display = display.data_window)
plotchar(ccDir,
                  'ccDir', editable = false, display = display.data_window)
                 't3Dir', editable = false, display = display.data_window)
plotchar(t3Dir,
plotchar(dvespaDir, 'dvespaDir', editable = false, display = display.data_window)
plotchar(vwapDir, 'vwapDir', editable = false, display = display.data_window)
```