



Trend Analysis Harmonic Patterns Chart patterns hewhomustnotbenamed trendoscope

51 2070

Aug 1, 2021 Lets make things bit complicated.

Main difference between this script and the earlier [Multi Zigzag Harmonic Pattern](#) is the calculation logic of Zigzag 2, 3 and 4

In the earlier script, all zigzags were plain and were calculated on the basis of different lengths. (Such as 5, 10, 15, 20). These were derived on the basis of [Multi Zigzag indicator](#)

In this script, Zigzag 2, 3 and 4 are calculated in slightly different way. They are calculated on the basis of previous zigzag . This means, Zigzag 1 will be the input for Zigzag2 calculation and Zigzag 2 will be the input for Zigzag3 and so on. This is demonstrated in the script - [Multi Level Zigzag](#)

One important parameter which is specific to this script is: [UseZigZagChain](#)

If checked:

- Zigzag2 is formed based on Zigzag1
- Zigzag3 is formed based on Zigzag2
- Zigzag4 is formed based on Zigzag3

This can lead to patterns covering huge number of candles as this chaining causes exponential effect in each levels. (Effective length grows exponentially in each level)

If unchecked:

- Zigzag2 is formed based on Zigzag1 (Same as when checked)
- Zigzag3 is formed based on Zigzag1. But, length is set to zigzag2Length + zigzag3Length
- Zigzag4 is formed based on Zigzag1. But, length is set to zigzag2Length + zigzag3Length + zigzag4Length

This reduces exponential increase of zigzag lengths over next levels.

Logical ratios of patterns are coded as below:

Notations:

- Lines XABCD forms the pattern in all cases. (OXABCD in case of Three drives)
- abc = BC retracement of AB, xab = AB retracement of XA and so on

ABCD Classic

- $0.618 \leq abc \leq 0.786$
- $1.272 \leq bcd \leq 1.618$

AB=CD

- Price difference between AB and CD are equal
- Time difference between AB and CD are equal

ABCD Extension

- $0.618 \leq abc \leq 0.786$
- $1.272 \leq AD/BC \text{ (price)} \leq 1.618$

Gartley

- $xab = 0.618$
- $0.382 \leq abc \leq 0.886$
- $1.272 \leq bcd \leq 1.618 \text{ OR } xad = 0.786$

Crab

- $0.382 \leq xab \leq 0.618$
- $0.382 \leq abc \leq 0.886$
- $2.24 \leq bcd \leq 3.618 \text{ OR } xad = 1.618$

Deep Crab

- $xab = 0.886$
- $0.382 \leq abc \leq 0.886$
- $2.0 \leq bcd \leq 3.618 \text{ OR } xad = 1.618$

Bat

- $0.382 \leq xab \leq 0.50$

- $0.382 \leq abc \leq 0.886$
 - $1.618 \leq bcd \leq 2.618$ OR $xad = 0.886$

Butterfly

 - $xab = 0.786$
 - $0.382 \leq abc \leq 0.886$
 - $1.618 \leq bcd \leq 2.618$ OR $1.272 \leq xad \leq 2.618$

- $xab = 0.786$
 - $1.13 \leq abc \leq 1.618$
 - $1.618 \leq bcd \leq 2.24$ OR $0.886 \leq xad \leq 1.13$

- $0.382 \leq xab \leq 0.618$
 - $1.13 \leq abc \leq 1.414$
 - $1.272 \leq bcd \leq 2.0$ OR $xad = 0.786$

- $oxa = 0.618$
 - $1.27 \leq xab \leq 1.618$
 - $abc = 0.618$
 - $1.27 \leq bcd \leq 1.618$

- 5-0

- Last two pivot High Lows make W shape
 - Last Pivot Low is higher than previous Last Pivot Low.
 - Last Pivot High is lower than previous last Pivot High.
 - Price has not gone below Last Pivot Low
 - Price breaks out of last Pivot High to complete W shape

- Last two pivot High Lows make M shape
 - Last Pivot Low is higher than previous Last Pivot Low.
 - Last Pivot High is lower than previous last Pivot High.
 - Price has not gone above Last Pivot High
 - Price breaks out of last Pivot Low to complete M shape

Oct 5, 2021 | [Release Notes](#): Convert to pine5

May 2 ● Release Notes: Updated signature and tags

Request trial access: <https://www.trendoscope.com.au/contact-us>
Join me on telegram: <https://t.me/HeWhoMustNotBeNaamed>
Join tradingview: [https://www.tradingview.com/gopro/?share_your_love=sudhJSDT \(TRC20\): TCaz4CG9aZyR4jp3Yg7MESWJPmcJgoep5](https://www.tradingview.com/gopro/?share_your_love=sudhJSDT (TRC20): TCaz4CG9aZyR4jp3Yg7MESWJPmcJgoep5)



Open-source script

In true TradingView spirit, the author of this script has published it open-source, so traders can understand and verify it. Cheers to the author! You may use it for free, but reuse of this code in a publication is governed by [House Rules](#). You can favorite it to use it on a chart.

Disclaimer

The information and publications are not meant to be, and do not constitute, financial, investment, trading, or other types of advice or recommendations supplied or endorsed by TradingView. Read more in the [Terms of Use](#).

Want to use this script on a chart? [?](#)

★ Add to favorite indicators

```
1 // This source code is subject to the terms of the Mozilla Public License 2.0 at https://mozilla.org/MPL/2.0/
2 // © HelwhoMustNotBeNamed
3
4 // _____/ \ / \ | / \ / \ | / \ / \ | / \ / \ | / \ / \ | / \ / \ | / \ / \ | / \ / \ | / \ / \ | / \ / \ |
5 // $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ |
6 // $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ |
7 // $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ |
8 // $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ |
9 // $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ |
10 // $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ |
11 // $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ |
12 // $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ |
13 // $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ |
14 // $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ | $ $ |
15 //
16 //@version=5
17 indicator("Multi Level ZigZag Harmonic Patterns", shorttitle='ML - ZigZag - HP', overlay=true, max_bars_back=1000, max_lines_count=500, max_labels_count=500)
18
19 max_array_size = input.int(200, step=20)
20 useZigZagChain = input(false)
21 showZigZag1 = input(true)
22 zigzagLength1 = input.int(10, step=5, minval=3)
23 zigzag1Color = input(color.teal)
24 zigzag1Width = 1
25 zigzag1Style = line.style_solid
26
27 showZigZag2 = input(true)
28 zigzagLength2 = input.int(2, step=1, minval=2)
29 zigzag2Color = input(color.olive)
30 zigzag2Width = 1
31 zigzag2Style = line.style_solid
32
33 showZigZag3 = input(true)
34 zigzagLength3 = input.int(3, step=1, minval=2)
35 zigzag3Color = input(color.lime)
36 zigzag3Width = 1
37 zigzag3Style = line.style_solid
38
39 showZigZag4 = input(true)
40 zigzagLength4 = input.int(4, step=1, minval=2)
41 zigzag4Color = input(color.fuchsia)
42 zigzag4Width = 1
43 zigzag4Style = line.style_solid
44
```

```

45 abcDClassic = input(true)
46 abCDqd = input(true)
47 abcDExt = input(true)
48 gartley = input(true)
49 crab = input(true)
50 deepCrab = input(true)
51 bat = input(true)
52 butterfly = input(true)
53 shark = input(true)
54 cypher = input(true)
55 threeDrives = input(true)
56 fiveZero = input(true)
57 doubleBottomTop = input(true)
58 errorPercent = input.int(10, minval=5, step=5, maxval=20)
59 MaxRiskPerReward = input.int(30, title='Max Risk Per Reward (Double Top/Bottom)', step=10, minval=0)
60
61 waitForConfirmation = input(true)
62
63 bullishColor = input(color.green)
64 bearishColor = input(color.red)
65
66 err_min = (100 - errorPercent) / 100
67 err_max = (100 + errorPercent) / 100
68
69 var zigzagpivots1 = array.new_float(0)
70 var zigzagpivotbars1 = array.new_int(0)
71 var zigzagpivotdirs1 = array.new_int(0)
72
73 var zigzagpivots2 = array.new_float(0)
74 var zigzagpivotbars2 = array.new_int(0)
75 var zigzagpivotdirs2 = array.new_int(0)
76
77 var zigzagpivots3 = array.new_float(0)
78 var zigzagpivotbars3 = array.new_int(0)
79 var zigzagpivotdirs3 = array.new_int(0)
80
81 var zigzagpivots4 = array.new_float(0)
82 var zigzagpivotbars4 = array.new_int(0)
83 var zigzagpivotdirs4 = array.new_int(0)
84
85 var wmlines1 = array.new_line(8)
86 var wmtypes1 = array.new_int(2, 1)
87 var wlLabel1 = array.new_bool(13, false)
88 var wlLabel1i = array.new_label(1)
89
90 var wmlines2 = array.new_line(8)
91 var wmtypes2 = array.new_int(2, 1)
92 var wlLabel2i = array.new_bool(13, false)
93 var wlLabel2 = array.new_label(1)
94
95 var wmlines3 = array.new_line(8)
96 var wmtypes3 = array.new_int(2, 1)
97 var wlLabel3i = array.new_bool(13, false)
98 var wlLabel3 = array.new_label(1)
99
100 var wmlines4 = array.new_line(8)
101 var wmtypes4 = array.new_int(2, 1)
102 var wlLabel4i = array.new_bool(13, false)
103 var wlLabel4 = array.new_label(1)
104
105 pivots(length) =>
106     float phigh = ta.highestbars(high, length) == 0 ? high : na
107     float plow = ta.lowestbars(low, length) == 0 ? low : na
108     dir = 0
109     iff_1 = plow and na(phigh) ? -1 : dir[1]
110     dir := phigh and na(plow) ? 1 : iff_1
111     [dir, phigh, plow, bar_index, bar_index]
112
113 outerpivots(length, zigzagpivots, zigzagpivotbars) =>
114     zigzagminimal = array.slice(zigzagpivots, 0, length - 1)
115     lastPivot = array.get(zigzagpivots, 0)
116     lastPivotBar = array.get(zigzagpivotbars, 0)
117     highestPivot = array.max(zigzagminimal)
118     lowestPivot = array.min(zigzagminimal)
119     float phigh = lastPivot == highestPivot ? lastPivot : na
120     float plow = lastPivot == lowestPivot ? lastPivot : na
121     int phighbar = lastPivot == highestPivot ? lastPivotBar : na
122     int plowbar = lastPivot == lowestPivot ? lastPivotBar : na
123     zdir = 0
124     iff_1 = plow and na(phigh) ? -1 : zdir[1]
125     zdir := phigh and na(plow) ? 1 : iff_1
126     [zdir, phigh, plow, phighbar, plowbar]
127
128 zigzagcore(dir, phigh, plow, phighbar, plowbar, zigzagpivots, zigzagpivotbars, zigzagpivotdirs) =>
129     dirchanged = ta.change(dir)
130     newZG = false
131     if phigh or plow
132         value = dir == 1 ? phigh : plow
133         bar = phigh ? phighbar : plowbar
134         newDir = dir
135         if not dirchanged and array.size(zigzagpivots) >= 1
136             pivot = array.shift(zigzagpivots)
137             pivotbar = array.shift(zigzagpivotbars)
138             pivotdir = array.shift(zigzagpivotdirs)
139             useNewValues = value * pivotdir < pivot * pivotdir
140             value := useNewValues ? pivot : value
141             bar := useNewValues ? pivotbar : bar
142             bar
143
144     if array.size(zigzagpivots) >= 2
145         LastPoint = array.get(zigzagpivots, 1)
146         newDir := dir * value > dir * LastPoint ? dir * 2 : dir
147         newDir
148
149     array.unshift(zigzagpivots, value)
150     array.unshift(zigzagpivotbars, bar)
151     array.unshift(zigzagpivotdirs, newDir)
152     newZG := true
153     if array.size(zigzagpivots) > max_array_size
154         array.pop(zigzagpivots)
155         array.pop(zigzagpivotbars)
156         array.pop(zigzagpivotdirs)
157     newZG
158
159 zigzag(length, zigzagpivots, zigzagpivotbars, zigzagpivotdirs) =>
160     [dir, phigh, plow, phighbar, plowbar] = pivots(length)
161     zigzagcore(dir, phigh, plow, phighbar, plowbar, zigzagpivots, zigzagpivotbars, zigzagpivotdirs)
162
163 outerzigzag(outerzigzagLength, zigzagpivots, zigzagpivotbars, outerzigzagpivots, outerzigzagpivotbars, outerzigzagpivotdirs) =>
164     newOuterZG = false
165     if array.size(zigzagpivots) >= outerzigzagLength * 2
166         [zdir, phigh, plow, phighbar, plowbar] = outerpivots(outerzigzagLength * 2, zigzagpivots, zigzagpivotbars)
167         newOuterZG := zigzagcore(zdir, phigh, plow, phighbar, plowbar, outerzigzagpivots, outerzigzagpivotbars, outerzigzagpivotdirs)
168         newOuterZG
169     newOuterZG
170
171 draw_zigzag(zigzaglines, zigzagpivots, zigzagpivotbars, zigzagcolor, zigzagwidth, zigzagstyle, showZigZag) =>
172     if array.size(zigzagpivots) >= 2 and showZigZag
173         y1 = array.get(zigzagpivots, 0)
174         y2 = array.get(zigzagpivots, 1)
175         x1 = array.get(zigzagpivotbars, 0)
176         x2 = array.get(zigzagpivotbars, 1)
177
178         zline = line.new(x1=x1, y1=y1, x2=x2, y2=y2, color=zigzagcolor, width=zigzagwidth, style=zigzagstyle)
179         if array.size(zigzaglines) > 1
180             lastline = array.get(zigzaglines, 0)
181             if x2 == line.get_x2(lastline) and y2 == line.get_y2(lastline)
182                 line.delete(lastline)
183             array.unshift(zigzaglines, zline)

```

```

184
185     get_harmonic_label(wmLabels, dir, price, bar) =>
186         isGartley = array.get(wmLabels, 0)
187         isCrab = array.get(wmLabels, 1)
188         isDeepCrab = array.get(wmLabels, 2)
189         isBat = array.get(wmLabels, 3)
190         isButterfly = array.get(wmLabels, 4)
191         isShark = array.get(wmLabels, 5)
192         isCypher = array.get(wmLabels, 6)
193         is3Drives = array.get(wmLabels, 7)
194         isFiveZero = array.get(wmLabels, 8)
195         isAbcd = array.get(wmLabels, 9)
196         isABEqCd = array.get(wmLabels, 10)
197         isAbcdExt = array.get(wmLabels, 11)
198         isDoubleTop = array.get(wmLabels, 12) and dir < 0
199         isDoubleBottom = array.get(wmLabels, 12) and dir > 0
200
201     labelText = isGartley ? 'Gartley' : ''
202     labelText := labelText + (isCrab ? (labelText == '' ? '' : '\n') + 'Crab' : '')
203     labelText := labelText + (isDeepCrab ? (labelText == '' ? '' : '\n') + 'Deep Crab' : '')
204     labelText := labelText + (isBat ? (labelText == '' ? '' : '\n') + 'Bat' : '')
205     labelText := labelText + (isButterfly ? (labelText == '' ? '' : '\n') + 'Butterfly' : '')
206     labelText := labelText + (isShark ? (labelText == '' ? '' : '\n') + 'Shark' : '')
207     labelText := labelText + (isCypher ? (labelText == '' ? '' : '\n') + 'Cypher' : '')
208     labelText := labelText + (is3Drives ? (labelText == '' ? '' : '\n') + '3 Drive' : '')
209     labelText := labelText + (isFiveZero ? (labelText == '' ? '' : '\n') + '5-0' : '')
210     labelText := labelText + (isAbcd ? (labelText == '' ? '' : '\n') + 'ABCD' : '')
211     labelText := labelText + (isAbcdExt ? (labelText == '' ? '' : '\n') + 'ABCD Extension' : '')
212     labelText := labelText + (isDoubleTop ? (labelText == '' ? '' : '\n') + 'Double Top' : '')
213     labelText := labelText + (isDoubleBottom ? (labelText == '' ? '' : '\n') + 'Double Bottom' : '')
214
215     trendColor = dir > 0 ? bullishColor : bearishColor
216
217     baseLabel = label.new(x=bar, y=price, text=labelText, yloc=yloc.price, color=trendColor, style=dir < 1 ? label.style_label_down : label.style_label_up, textcolor=color.black, size=size.normal)
218     baseLabel
219
220     detect_harmonic_pattern(zigzagpivots, zigzagpivotbars, zigzagpivotdirs, wmlines, wmlabel, wmtypes, wmLabels, zigzagColor, zigzagWidth, zigzagStyle, showZigZag) =>
221         start = waitForConfirmation ? 1 : 0
222         wm_pattern = false
223         abcd_pattern = false
224         double_pattern = false
225         if array.size(zigzagpivots) >= 6 + start and showZigZag
226
227             d = array.get(zigzagpivots, start + 0)
228             dBar = array.get(zigzagpivotbars, start + 0)
229             dDir = array.get(zigzagpivotdirs, start + 0)
230
231             c = array.get(zigzagpivots, start + 1)
232             cBar = array.get(zigzagpivotbars, start + 1)
233             cDir = array.get(zigzagpivotdirs, start + 1)
234
235             b = array.get(zigzagpivots, start + 2)
236             bBar = array.get(zigzagpivotbars, start + 2)
237             bDir = array.get(zigzagpivotdirs, start + 2)
238
239             a = array.get(zigzagpivots, start + 3)
240             aBar = array.get(zigzagpivotbars, start + 3)
241             aDir = array.get(zigzagpivotdirs, start + 3)
242
243             x = array.get(zigzagpivots, start + 4)
244             xBar = array.get(zigzagpivotbars, start + 4)
245             xDir = array.get(zigzagpivotdirs, start + 4)
246
247             y = array.get(zigzagpivots, start + 5)
248             yBar = array.get(zigzagpivotbars, start + 5)
249             yDir = array.get(zigzagpivotdirs, start + 5)
250
251             highPoint = math.max(x, a, b, c, d)
252             lowPoint = math.min(x, a, b, c, d)
253             dir < c > d ? 1 : -1
254
255             xabRatio = math.abs(b - a) / math.abs(x - a)
256             abcRatio = math.abs(c - b) / math.abs(a - b)
257             bcdRatio = math.abs(d - c) / math.abs(b - c)
258             xadRatio = math.abs(d - a) / math.abs(x - a)
259             yxaRatio = math.abs(a - x) / math.abs(y - x)
260
261             abTime = math.abs(aBar - bBar)
262             cdTime = math.abs(cBar - dBar)
263             abPrice = math.abs(a - b)
264             cdPrice = math.abs(c - d)
265
266             time_ratio = cdTime / abTime
267             price_ratio = cdPrice / abPrice
268             abcdDirection = a < b and a < c and c < b and c < d and a < d and b < d ? 1 : a > b and a > c and c > b and c > d and a > d and b > d ? -1 : 0
269
270             risk = math.abs(b - d)
271             reward = math.abs(c - d)
272             riskPerReward = risk * 100 / (risk + reward)
273
274             if b < highPoint and b > lowPoint
275                 //Gartley
276                 if gartley and xabRatio >= 0.618 * err_min and xabRatio <= 0.618 * err_max and abcRatio >= 0.382 * err_min and abcRatio <= 0.382 * err_max and (bcdRatio >= 1.272 * err_min and bcdRatio <= 1.272 * err_max) and (bcdRatio >= 1.272 * err_min and bcdRatio <= 1.272 * err_max)
277                     wm_pattern := true
278                     array.set(wmLabels, 0, true)
279                 else
280                     array.set(wmLabels, 0, false)
281             //Crab
282             if crab and xabRatio >= 0.382 * err_min and xabRatio <= 0.618 * err_max and abcRatio >= 0.382 * err_min and abcRatio <= 0.618 * err_max and (bcdRatio >= 2.24 * err_min and bcdRatio <= 2.24 * err_max) and (bcdRatio >= 2.24 * err_min and bcdRatio <= 2.24 * err_max)
283                 wm_pattern := true
284                 array.set(wmLabels, 1, true)
285             else
286                 array.set(wmLabels, 1, false)
287             //Deep Crab
288             if deepCrab and xabRatio >= 0.886 * err_min and xabRatio <= 0.886 * err_max and abcRatio >= 0.382 * err_min and abcRatio <= 0.382 * err_max and (bcdRatio >= 2.00 * err_min and bcdRatio <= 2.00 * err_max) and (bcdRatio >= 2.00 * err_min and bcdRatio <= 2.00 * err_max)
289                 wm_pattern := true
290                 array.set(wmLabels, 2, true)
291             else
292                 array.set(wmLabels, 2, false)
293             //Bat
294             if bat and xabRatio >= 0.382 * err_min and xabRatio <= 0.50 * err_max and abcRatio >= 0.382 * err_min and abcRatio <= 0.886 * err_max and (bcdRatio >= 1.618 * err_min and bcdRatio <= 1.618 * err_max) and (bcdRatio >= 1.618 * err_min and bcdRatio <= 1.618 * err_max)
295                 wm_pattern := true
296                 array.set(wmLabels, 3, true)
297             else
298                 array.set(wmLabels, 3, false)
299             //Butterfly
300             if butterfly and xabRatio >= 0.786 * err_min and xabRatio <= 0.786 * err_max and abcRatio >= 0.382 * err_min and abcRatio <= 0.382 * err_max and (bcdRatio >= 1.618 * err_min and bcdRatio <= 1.618 * err_max) and (bcdRatio >= 1.618 * err_min and bcdRatio <= 1.618 * err_max)
301                 wm_pattern := true
302                 array.set(wmLabels, 4, true)
303             else
304                 array.set(wmLabels, 4, false)
305             //Shark
306             if shark and abcRatio >= 1.13 * err_min and abcRatio <= 1.618 * err_max and bcdRatio >= 1.618 * err_min and bcdRatio <= 2.24 * err_max and xadRatio >= 0.886 * err_min and xadRatio <= 0.886 * err_max and (bcdRatio >= 1.272 * err_min and bcdRatio <= 1.272 * err_max)
307                 wm_pattern := true
308                 array.set(wmLabels, 5, true)
309             else
310                 array.set(wmLabels, 5, false)
311             //Cypher
312             if cypher and xabRatio >= 0.382 * err_min and xabRatio <= 0.618 * err_max and abcRatio >= 1.13 * err_min and abcRatio <= 1.414 * err_max and (bcdRatio >= 1.272 * err_min and bcdRatio <= 1.272 * err_max)
313                 wm_pattern := true
314                 array.set(wmLabels, 6, true)
315             else
316                 array.set(wmLabels, 6, false)
317             //3 drive
318             if threeDrives and yxaRatio >= 0.618 * err_min and yxaRatio <= 0.618 * err_max and xabRatio >= 1.27 * err_min and xabRatio <= 1.618 * err_max and abcRatio >= 0.618 * err_min and abcRatio <= 0.618 * err_max
319                 wm_pattern := true
320                 array.set(wmLabels, 7, true)
321             else
322                 array.set(wmLabels, 7, false)

```

```

323 //5/0
324 if fiveZero and xabRatio >= 1.13 * err_min and xabRatio <= 1.618 * err_max and abcRatio >= 1.618 * err_min and abcRatio <= 2.24 * err_max and bcdRatio >= 0.5 * err_min and bcdRatio <= 0.5 *
325 | wmpattern := true
326 | array.set(wmLabels, 8, true)
327 | array.set(wmLabels, 8, false)
328 //ABCD Classic
329 if abcdClassic and abcRatio >= 0.618 * err_min and abcRatio <= 0.786 * err_max and bcdRatio >= 1.272 * err_min and bcdRatio <= 1.618 * err_max and abcdDirection != 0
330 | abcd_pattern := true
331 | array.set(wmLabels, 9, true)
332 | array.set(wmLabels, 9, false)
333 | array.set(wmLabels, 9, false)
334 //ABCD
335 if abEqcd and time_ratio >= err_min and time_ratio <= err_max and price_ratio >= err_min and price_ratio <= err_max and abcdDirection != 0
336 | abcd_pattern := true
337 | array.set(wmLabels, 10, true)
338 | array.set(wmLabels, 10, false)
339 | array.set(wmLabels, 10, false)
340 //ABCD Ext
341 if abcdExt and price_ratio >= 1.272 * err_min and price_ratio <= 1.618 * err_max and abcRatio >= 0.618 * err_min and abcRatio <= 0.786 * err_max and abcdDirection != 0
342 | abcd_pattern := true
343 | array.set(wmLabels, 11, true)
344 | array.set(wmLabels, 11, false)
345 | array.set(wmLabels, 11, false)
346 //Double Top/Bottom
347 if doubleBottomTop and (dDir == 1 and bDir == 2 and cDir == -1 or dDir == -1 and bDir == -2 and cDir == 1) and riskPerReward < MaxRiskPerReward
348 | double_pattern := true
349 | array.set(wmLabels, 12, true)
350 | array.set(wmLabels, 12, false)
351 | array.set(wmLabels, 12, false)
352 | array.set(wmLabels, 12, false)
353 cancelW = false
354 cancelIA = false
355 cancelID = false
356 if wmpattern[1] and x == x[1] and a == a[1] and b == b[1] and c == c[1]
357 line.delete(array.get(wmlines, 0))
358 line.delete(array.get(wmlines, 1))
359 line.delete(array.get(wmlines, 2))
360 line.delete(array.get(wmlines, 3))
361 line.delete(array.get(wmlines, 4))
362 line.delete(array.get(wmlines, 5))
363 line.delete(array.get(wmlines, 6))
364 line.delete(array.get(wmlines, 7))
365 label.delete(array.get(wmlabel, 0))
366 cancelW := true
367 cancelW
368 if abcd_pattern[1] and a == a[1] and b == b[1] and c == c[1]
369 line.delete(array.get(wmlines, 1))
370 line.delete(array.get(wmlines, 2))
371 line.delete(array.get(wmlines, 3))
372 label.delete(array.get(wmlabel, 0))
373 cancelIA := true
374 cancelIA
375 if double_pattern[1] and a == a[1] and b == b[1] and c == c[1]
376 line.delete(array.get(wmlines, 5))
377 label.delete(array.get(wmlabel, 0))
378 cancelID := true
379 cancelID
380 if wmpattern
381 xa = line.new(y1=x, y2=a, x1=aBar, x2=aBar, color=zigzagColor, width=zigzagWidth, style=zigzagStyle)
382 ab = line.new(y1=a, y2=b, x1=aBar, x2=bBar, color=zigzagColor, width=zigzagWidth, style=zigzagStyle)
383 bc = line.new(y1=b, y2=c, x1=bBar, x2=cBar, color=zigzagColor, width=zigzagWidth, style=zigzagStyle)
384 cd = line.new(y1=c, y2=d, x1=cBar, x2=dBar, color=zigzagColor, width=zigzagWidth, style=zigzagStyle)
385 xb = line.new(y1=x, y2=b, x1=aBar, x2=bBar, color=zigzagColor, width=zigzagWidth, style=zigzagStyle)
386 bd = line.new(y1=y1+b, y2=d, x1=bBar, x2=dBar, color=zigzagColor, width=zigzagWidth, style=zigzagStyle)
387 xd = line.new(y1=x+d, y2=d, x1=xBar, x2=dBar, color=zigzagColor, width=zigzagWidth, style=zigzagStyle)
388 ac = line.new(y1=a, y2=c, x1=aBar, x2=cBar, color=zigzagColor, width=zigzagWidth, style=zigzagStyle)
389 array.set(wmlines, 0, xa)
390 array.set(wmlines, 1, ab)
391 array.set(wmlines, 2, bc)
392 array.set(wmlines, 3, cd)
393 array.set(wmlines, 4, xb)
394 array.set(wmlines, 5, bd)
395 array.set(wmlines, 6, xd)
396 array.set(wmlines, 7, ac)
397 array.set(wmtype, 0, dir)
398 if abcd_pattern and not wmpattern
399 ab = line.new(y1=a, y2=b, x1=aBar, x2=bBar, color=zigzagColor, width=zigzagWidth, style=zigzagStyle)
400 bc = line.new(y1=b, y2=c, x1=bBar, x2=cBar, color=zigzagColor, width=zigzagWidth, style=zigzagStyle)
401 cd = line.new(y1=c, y2=d, x1=cBar, x2=dBar, color=zigzagColor, width=zigzagWidth, style=zigzagStyle)
402 array.set(wmlines, 1, ab)
403 array.set(wmlines, 2, bc)
404 array.set(wmlines, 3, cd)
405 array.set(wmtype, 0, dir)
406 if double_pattern and not wmpattern
407 bd = line.new(y1=b, y2=d, x1=bBar, x2=dBar, color=zigzagColor, width=zigzagWidth, style=zigzagStyle)
408 array.set(wmlines, 5, bd)
409 array.set(wmtype, 0, dir)
410 if wmpattern or abcd_pattern or double_pattern
411 array.set(wmlabel, 0, get_harmonic_label(wmLabels, dir, d, dBar))
412 pattern = wmpattern and not wmpattern[1] or abcd_pattern and not abcd_pattern[1] or double_pattern and not double_pattern[1]
413 pattern
414 level12G = zigzag(zigzagLength, zigzagPivots1, zigzagPivotbars1, zigzagPivotdots1)
415 level12G = outerzigzag(zigzagLength, zigzagPivots1, zigzagPivotbars1, zigzagPivotdots2, zigzagPivotbars2, zigzagPivotdots2)
416 level13G = outerzigzag(useZigzagChain ? zigzagLength : zigzag2Length + zigzag3Length, useZigzagChain ? zigzagPivots2 : zigzagPivots1, useZigzagChain ? zigzagPivotbars2 : zigzagPivotbars1, zigzagPivotbars1, zigzagPivotbars2)
417 level14G = outerzigzag(useZigzagChain ? zigzagLength : zigzag2Length + zigzag3Length, useZigzagChain ? zigzagPivots3 : zigzagPivots2, useZigzagChain ? zigzagPivotbars3 : zigzagPivotbars2, zigzagPivotbars2, zigzagPivotbars3)
418 wmpattern1 = detect_harmonic_pattern(zigzagPivots1, zigzagPivotbars1, zigzagPivotdots1, wmlines1, wmlabel1, wmtypes1, zigzag1Color, zigzag1Width, zigzag1Style, showZigzag1)
419 wmpattern2 = detect_harmonic_pattern(zigzagPivots2, zigzagPivotbars2, zigzagPivotdots2, wmlines2, wmlabel2, wmtypes2, zigzag2Color, zigzag2Width, zigzag2Style, showZigzag2)
420 wmpattern3 = detect_harmonic_pattern(zigzagPivots3, zigzagPivotbars3, zigzagPivotdots3, wmlines3, wmlabel3, wmtypes3, zigzag3Color, zigzag3Width, zigzag3Style, showZigzag3)
421 wmpattern4 = detect_harmonic_pattern(zigzagPivots4, zigzagPivotbars4, zigzagPivotdots4, wmlines4, wmlabel4, wmtypes4, zigzag4Color, zigzag4Width, zigzag4Style, showZigzag4)
422 alertcondition(wmpattern1 or wmpattern2 or wmpattern3 or wmpattern4, title='New harmonic pattern alert', message='New harmonic pattern detected on {{ticker}}')
423

```

Comments

Leave a comment that is helpful or encouraging. Let's master the markets together

 Comment with cheer

Post Comment



liao88888888 · Aug 10, 2021

Thank you, can open source code, hope keep open source state, Harmonic Patterns is very important to my transaction!

 200 coins

+5 ▲ Reply

 HeWhoMustNotBeNamed PREMIUM · Aug 10, 2021 ∞ ∞

@liao88888888, thanks very much. Open source will remain open even if I want to close it.

I have seen some removing the code to make it redundant. But, if the code is open source, you can also see previous versions of the code.
+6 ▲ Reply

 bhj1101 PRO · Mar 17 ∞ ∞

@HeWhoMustNotBeNamed, Please separate long and short alerts ()
+1 ▲ Reply

 orcgens PREMIUM · Oct 5, 2021 ∞ ∞

Great job

+1 ▲ Reply

 HeWhoMustNotBeNamed PREMIUM · Oct 5, 2021 ∞ ∞

@orcgens, Thanks for your support :)
▲ Reply

 Super_B_XinR PRO · Aug 14, 2021 ∞ ∞

Do you remember me?

▲ Reply

 HeWhoMustNotBeNamed PREMIUM · Aug 14, 2021 ∞ ∞

@sunwenbin180, Thanks very much for supporting. I do remember you vaguely as I see your name in notifications quite often :) Did you by any chance subscribed to my invite only scripts?
▲ Reply

 Patrick234523423423 PRO · Sep 1, 2021 ∞ ∞

The alert conditions show patterns whether is bullish or bearish. Is there a way to make an alert for both bullish and bearish patterns? I might be able to do it on my own but I need time to learn your script. The script is amazing btw.
+8 ▲ Reply

 yiyiliuliu · Aug 21, 2021 ∞ ∞

Hello, I am from China, I have to say that it is very powerful for two days, but it is very useful in the big cycle, but I feel very simple to me, let me think that the futures is very simple, your indicator is really the most Strong, I have used hundreds of indicators now.
+3 ▲ Reply

 yiyiliuliu · Aug 21, 2021 ∞ ∞

@yiyiliuliu, This is the automatic translation, I hope you can understand the meaning, your indicators are very good.
▲ Reply

 HeWhoMustNotBeNamed PREMIUM · Aug 22, 2021 ∞ ∞

@yiyiliuliu, thanks a lot.
▲ Reply

 liyulin PRO · Aug 9, 2021 ∞ ∞

thank you sir, you are genius
+2 ▲ Reply

 bhj1101 PRO · Mar 17 ∞ ∞

Please update long and short alerts ()
+1 ▲ Reply

 bhj1101 PRO · Mar 3 ∞ ∞

Please Create long and short signal alerts
+1 ▲ Reply

 ibimans · Feb 24 · TradingView for Android ∞ ∞

Hello, is it possible to add into the script conditions for activate alerts? Just 2 conditions: bullish patterns and bearish patterns. I'd like to use it to trigger a 3commas bot. Thank you, Andrea.
+1 ▲ Reply

 ibimans · Feb 24 · TradingView for Android ∞ ∞

Hi, is it possible to add in the script the bull patterns condition and the bearish patterns condition in order to set an alert bull or bear on this beautiful indicator? I'd like to use it to trigger a 3commas bot but without alert conditions isn't possible. Thank you!
+1 ▲ Reply

 sufimersin · Dec 25, 2021 ∞ ∞

Hi, I am using the multi zigzag harmonic pattern indicator. the program is great. Is it possible to add bear and bull alert? it will be very useful for me. thanks.
+1 ▲ Reply

 haruntrgt · Oct 29, 2021 ∞ ∞

Are you help me. Do you opening harmonic pattern
+1 ▲ Reply

 ChandraseetAK1981 · Aug 22, 2021 ∞ ∞

Brilliant Brilliant Brilliant Work!!
It is such a useful indicator and makes life so easy! Thanks a ton for this.

+1 ▲ Reply

 **Killerfish** · Aug 7, 2021  

Hiiiii
Really excellent work sir . . .
We are owing to you sir . . .
Thank Q very much sir 

+1 ▲ Reply

 **CHDVIKAS** · Aug 2, 2021  

Can we Stoploss
And if yes what will be condition for that

It will be gr8 if you can somehow add fixed/ trailing stoploss

+1 ▲ Reply

 **HeWhoMustNotBeNamed PREMIUM** · Aug 3, 2021  

@CHDVIKAS, at this stage it is mere experimental. Need lot of work before it matures into more reliable stuff. Will work on it.

▲ Reply

 **diablocake** · Aug 2, 2021  

Will the signal lag

+1 ▲ Reply

 **HeWhoMustNotBeNamed PREMIUM** · Aug 2, 2021  

@diablocake, there are two options.

1. Lag but confirmed signal
2. No lag but non confirmed signal. Which can turn into false signal.

At present waitForConfirmation is set to true. If you don't mind false signals, you can set it to false.

+5 ▲ Reply

 **diablocake** · Aug 2, 2021  

@HeWhoMustNotBeNamed, Thank you very much for your reply. I'll test it. You're great

▲ Reply

 **TreyDaBoss PREMIUM** · Apr 21  

@HeWhoMustNotBeNamed, Your comment helped me so much and saved me time thank you very much! To make sure you're saying that if I have true WaitForConfirmation on it does not repaint?

▲ Reply

 **Awes1989** · Aug 1, 2021  

This is amazing work

+1 ▲ Reply

 **HeWhoMustNotBeNamed PREMIUM** · Aug 1, 2021  

@Awes1989, thanks :)

▲ Reply

 **ushankpc** · Mar 28  

thanks for your harmonic patterns and appreciate your effort.
can you kindly suggest where to define the time frame settings.?

▲ Reply

 **ok0102622jeremy PRO** · Mar 2  

This is amazing. I really appreciate for your kindness that opening your source code despite of your hard work and effort.

▲ Reply

 **amol4biotech PRO** · Feb 21  

Hello dear. I am Amol from India. you have worked a great job with this harmonic indicator. I tried it using on which ever chart. It shows pine error on 1 min timeframe. the error says Pine cant determine the referencing length of a series. try using max bars back in the study or strategy function. kindly help. thankyou. commenting here is the only way to reach you. you can reach me at amol4biotech@gmail.com

▲ Reply

 **Coinlic** · Dec 27, 2021  

Great work! thanks. formation calculation time can be shortened. can you add new formations, bear and bull alert?

▲ Reply

 **AMEEN121** · Dec 12, 2021  

super i like butterfly pattern.....

▲ Reply

 **firan34** · Oct 28, 2021  

can i use this indicator can you help me about this

▲ Reply

 **Cemcenk PRO** · Oct 21, 2021  

cemcenk

▲ Reply

 **furkancansuyu** · Sep 26, 2021  

Hi, first of all, I would like to thank you for this indicator. Can you help me about it, maybe I can produce something too? Can you add wolf formation to the indicator?

▲ Reply

F

furkancansuyu · Sep 25, 2021

hello, it's very nice, can you add the wolf formation, trouble for you? or if i want to add something, how can i do it? can you help me thank you again

▲ Reply



HeWhoMustNotBeNamed PREMIUM

· Sep 25, 2021

@furkancansuyu, Wolfe wave is in pipeline. But, will not be adding it to this script.

▲ Reply

Z

Zjemm · Sep 23, 2021

@HeWhoMustNotBeNamed Great script.

I have a question... i might missed it but... is it possible to pre draw the possible patterns on c-point completion? that way D is still unknown, and it might be an invalid pattern. But i gives a good heads up, on upcoming possibilities. then you can manually check where D point must complete to be on time for the trade.

after D completes you can leave or remove the draw of the pattern based on the pattern would be valid or not

let me know your thoughts

▲ Reply



HeWhoMustNotBeNamed PREMIUM

· Sep 23, 2021

@Zjemm, Yeah. Everything is possible with time and effort. Do not have any plans yet.

▲ Reply

C

chilljackson PRO+ · Aug 28, 2021

Loving the script just one small question. At the point ABCD appears (after confirmed) is the ABCD labeling the completion of leg C or leg D. Just asking cuz some have 3 rays while others have 4 and generally I am looking for leg E of the pattern. Any input is appreciated and great work either way!

▲ Reply



HeWhoMustNotBeNamed PREMIUM

· Aug 28, 2021

@chilljackson, Wait For Confirmation if checked will only show pattern after confirming D. You can uncheck wait for confirmation to make them appear immediately. Having said that I am not making any more updates to this script. All my latest changes are in the new version.



▲ Reply

S

zevito · Aug 28, 2021

hey, this is great, is there any strategy build with this harmonic zigzag??

▲ Reply



HeWhoMustNotBeNamed PREMIUM

· Aug 28, 2021

@zevito, there is a combined study which also shows stats. Haven't developed strategy based on this.



▲ Reply

F

FinTechKing · Aug 5, 2021

Hello sir , want to discuss one point with you.

Telegram Id @Fin_Tech_Love

If you can spare time, pls ping me

Thanks

▲ Reply



hughlxj · Aug 2, 2021

Excellent! But this seems a little different from the parameters on July 25. Can you explain the main differences? Which is better? thank you!

[▲ Reply](#)



HeWhoMustNotBeNamed PREMIUM

· Aug 2, 2021

@hughlxj, Yeah. I have mentioned in the description about key differences. The difference is in process of deriving zigzags.

At this point, both implementations are experiments. I haven't done much backtesting to derive what works better.

[▲ Reply](#)



hughlxj

· Aug 2, 2021

@HeWhoMustNotBeNamed, Well, thank you very much.

[+1](#) [▲ Reply](#)



hughlxj

· Aug 10, 2021

@HeWhoMustNotBeNamed, Thank you again for your great work! I have a small request. Can you only display the last harmonic shape lines? It feels a little messy to display them all. thank you!

[▲ Reply](#)



HeWhoMustNotBeNamed PREMIUM

· Aug 10, 2021

@hughlxj, at this stage, it is more experimental script. Have plans of coming up with more concrete one. Still work in progress.

[▲ Reply](#)



hughlxj

· Aug 10, 2021

@HeWhoMustNotBeNamed, Excellent! Look forward to your better work! Thank you very much!

[▲ Reply](#)