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## Auto Harmonic Patterns - Open Source

HeWhoMustNotBeNamed PREMIUM Jul 21, 2021


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Jul 21, 2021 I may not be able to spend much time on the harmonic patterns and realized that there are not much open source scripts on them either. Hence, decided to release open source version which can be used by other developers for reference and build things on top of it.

Original script is protected and can be found here:



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 retrace of AB, xab = AB retrace 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

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

#### Gartley

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

#### Crab

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

#### Deep Crab

- $xab = 0.886$
- $0.382 \leq abc \leq 0.886$
- $2.0 \leq bcd \leq 3.618$  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  $1.272 \leq xad \leq 2.618$

#### Shark

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

#### Cypher

- $0.382 \leq xab \leq 0.618$
  - $1.13 \leq abc \leq 1.414$
  - $1.272 \leq bcd \leq 2.0$  OR  $xad = 0.784$

Three Drives

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

5-0

- $1.13 \leq xab \leq 1.618$
  - $1.618 \leq abc \leq 2.24$
  - $bcd = 0.5$

This script contains everything which original script has apart from stats. Use the original script if you are not developer looking for code reference and prefer having stats table.

I have also developed a strategy based on harmonic patterns which can be found here:



Jul 22, 2021

- Removed deviation threshold and disable stats on load. (Can be enabled in settings)
  - Default length is set to 5

Jul 22, 2021

Jul 22, 2021

Jul 22, 2021

Jul 23, 2021

Jul 24, 2021 • **Release Notes:** Corrected errors in 3-Drive and 5-0 where B does not need to be in the middle

Jul 26, 2021 • Release Notes: Minor parameter adjustments.

Jul 26, 2021

Jul 28, 2021 | Release Notes: Minor correction in zigzag calculation logic

Also, check my other script on harmonic pattern (Again - open source)



May 2  Release Notes: No updates. But, just converted to pine 5 :

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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, use it, or chart it.

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```

36 deepCrab = input(true)
37 bat = input(true)
38 butterfly = input(true)
39 shark = input(true)
40 cypher = input(true)
41 threeDrives = input(true)
42 fiveZero = input(true)
43
44 var abcdlines = array.new_line(3)
45 var abcdtype = array.new_int(2, 1)
46
47 var wellines = array.new_line(4)
48 var wtype = array.new_int(2, 1)
49 var wLabels = array.new_bool(9, false)
50
51 var patterncount = array.new_int(26, 0)
52
53
54 var zigzaglines = array.new_line(0)
55 var zigzaglabels = array.new_label(0)
56 var zigzagdir = array.new_int(0)
57 var zigzagratios = array.new_float(0)
58
59 int max_array_size = 10
60 transparent = color.new(#FFFFFF, 100)
61 err_min = (100 - errorPercent) / 100
62 err_max = (100 + errorPercent) / 100
63 pivots(length) =>
64     float ph = ta.highestbars(high, length) == 0 ? high : na
65     float pl = ta.lowestbars(low, length) == 0 ? low : na
66     dir = 0
67     iff_l = pl and na(ph) ? -1 : dir[1]
68     dir := ph and na(pi) ? 1 : iff_l
69     [dir, ph, pl]
70
71 get_edir(dir, y2) =>
72     eDir = dir
73     if array.size(zigzaglines) > 0
74         lastline = array.get(zigzaglines, 0)
75         lastPivot = line.get_y(lastline)
76         eDir := (dir * y2 > dir * lastPivot ? 2 : 1) * dir
77         eDir
78     lineColor = eDir == 2 ? bullishColor : eDir == 1 ? bullTrapColor : eDir == -1 ? bearTrapColor : bearishColor
79     [eDir, lineColor]
80
81 add_to_zigzaglines(x1, y1, x2, y2, dir) =>
82     [eDir, lineColor] = get_edir(dir, y2)
83     color = showZigzag ? lineColor : color.new(#FFFFFF, 100)
84     zline = line.new(x1=x1, y1=y1, x2=x2, y2=y2, color=color, width=2, style=line.style_solid)
85     array.unshift(zigzaglines, zline)
86
87 add_to_zigzaglabels(x1, y1, y2, dir) =>
88     [eDir, lineColor] = get_edir(dir, y2)
89     pivotLabel = eDir == 2 ? 'HH' : eDir == 1 ? 'LH' : eDir == -1 ? 'HL' : 'LL'
90     lastLineLen = 0.0
91     currentLineLen = math.abs(y2 - y1)
92     if array.size(zigzaglines) > 0
93         lastline = array.get(zigzaglines, 0)
94         lastLineLen := math.abs(line.get_y2(lastline) - line.get_y1(lastline))
95         lastLineLen
96
97     ratio = math.round(lastLineLen == 0 ? currentLineLen / lastLineLen : 0, 3)
98     labelText = (showPivots ? pivotLabel : '') + (showPivots and showRatios ? ' - ' : '') + (showRatios ? str.tostring(ratio) : '')
99     yloc = dir > 0 ? yloc.abovebar : yloc.belowbar
100    labelStyle = dir > 0 ? label.style_label_down : label.style_label_up
101    labelSize = showRatios and showPivots ? size.normal : size.small
102    zlabel = label.new(x=x2, y=y2, text=labelText, xloc=xloc.bar_index, yloc=yloc, color=lineColor, size=labelSize, style=labelStyle)
103
104    array.unshift(zigzaglabels, zlabel)
105    array.unshift(zigzagdir, eDir)
106    array.unshift(zigzagratios, ratio)
107    if not showRatios and not showPivots
108        label.delete(zlabel)
109
110 add_to_zigzag(dir, dirchanged, ph, pl, index) =>
111     value = dir == 1 ? ph : pl
112
113     y1 = dir == 1 ? ta.lowestLength : ta.highestLength
114     x1 = bar_index + (dir == 1 ? ta.lowestbarsLength : ta.highestbarsLength)
115     x2 = index
116     y2 = value
117     skip = false
118     if array.size(zigzaglines) > 0
119         if not dirchanged
120             lastline = array.get(zigzaglines, 0)
121             lastY2 = line.get_y2(lastline)
122             if lastY2 < dir > y2 * dir
123                 skip := true
124             else
125                 line.delete(array.shift(zigzaglines))
126                 label.delete(array.shift(zigzaglabels))
127                 array.shift(zigzagdir)
128                 array.shift(zigzagratios)
129                 skip := false
130             skip
131
132         if array.size(zigzaglines) > 0
133             lastline = array.get(zigzaglines, 0)
134             x1 := line.get_x2(lastline)
135             y1 := line.get_y2(lastline)
136             y1
137
138 outsideDeviationThreshold = math.abs(y1 - y2) * 100 / y1 > DeviationThreshold
139 if outsideDeviationThreshold and not skip
140     add_to_zigzaglabels(x1, x2, y1, y2, dir)
141     add_to_zigzaglines(x1, y1, x2, y2, dir)
142
143 if array.size(zigzaglines) > max_array_size
144     array.pop(zigzaglines)
145     array.pop(zigzaglabels)
146     array.pop(zigzagdir)
147     array.pop(zigzagratios)
148
149 zigzag(length, Deviationthreshold) =>
150     [dir, ph, pl] = pivots(length)
151     dirchanged = ta.change(dir)
152     if ph or pl
153         add_to_zigzag(dir, dirchanged, ph, pl, bar_index)
154
155 calculate_abcd() =>
156     abcd = false
157
158 if array.size(zigzagratios) >= 3 and array.size(zigzaglines) >= 4
159     abRatio = array.get(zigzagratios, 2)
160     bcdRatio = array.get(zigzagratios, 1)
161
162     ab = array.get(zigzaglines, 3)
163     bc = array.get(zigzaglines, 2)
164     cd = array.get(zigzaglines, 1)
165
166     ab_time = math.abs(line.get_x1(ab) - line.get_x2(ab))
167     ab_price = math.abs(line.get_y1(ab) - line.get_y2(ab))
168
169     cd_time = math.abs(line.get_x1(cd) - line.get_x2(cd))
170     cd_price = math.abs(line.get_y1(cd) - line.get_y2(cd))
171
172     a = line.get_y(ab)
173     b = line.get_y2(ab)
174

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175     c = line.get_y1(cd)
176     d = line.get_y2(cd)
177
178     abcdDirection = a < b and a < c and c < b and c < d and a < d and b < d or a > b and a > c and c > b and c > d and a > d and b > d
179     dir = a < b and a < c 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
180     time_ratio = cd_time / ab_time
181     price_ratio = cd_price / ab_price
182
183     // if (ab == ab[1] and bc == bc[1] and cd == cd[1])
184     //     abcd := false
185     if abcdClassic and abcdRatio >= 0.618 * err_min and abcRatio <= 0.786 * err_max and bcdRatio >= 1.272 * err_min and bcdRatio <= 1.618 * err_max and abcdDirection
186     abcd := true
187     array.set(abctype, 0, 1)
188     if abEqcd and time_ratio >= err_min and time_ratio <= err_max and price_ratio >= err_min and price_ratio <= err_max and abcdDirection
189     abcd := true
190     array.set(abctype, 0, 2)
191     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
192     abcd := true
193     array.set(abctype, 0, 3)
194
195     if abcd
196         array.set(abcdlines, 0, ab)
197         array.set(abcdlines, 1, bc)
198         array.set(abcdlines, 2, cd)
199         array.set(abcdlines, 3, dir)
200
201 draw_abcd() =>
202     abcd = calculate_abcd()
203     if array.size(abcdlines) > 2 and array.size(zigzaglines) >= 4
204         ab = array.get(abcdlines, 0)
205         bc = array.get(abcdlines, 1)
206         cd = array.get(abcdlines, 2)
207
208         abcd_type = array.get(abctype, 0)
209         dir = array.get(abctype, 1)
210
211         labelColor = dir > 0 ? bearishColor : bullishColor
212         labelStyle = dir > 0 ? label.style_label_down : label.style_label_up
213         yloc = dir > 0 ? yloc.abovebar : yloc.belowbar
214
215         labelText = abcd_type == 1 ? 'ABCD' : abcd_type == 2 ? 'AB=CD' : abcd_type == 3 ? 'ABCD Ext' : ''
216         ab_zg = array.get(zigzaglines, 3)
217         bc_zg = array.get(zigzaglines, 2)
218         cd_zg = array.get(zigzaglines, 1)
219         count_index = abcd_type > 2 - 2 + (dir > 0 ? 1 : 0)
220         abcdLabel = label.new(x=line.get_x2(cd), y=line.get_y2(cd), text=labelText, xloc=xloc.bar_index, yloc=yloc, color=labelColor, size=size.normal, style=labelStyle)
221         array.set(patterncount, count_index, array.get(patterncount, count_index) + 1)
222
223         line.set_color(ab, labelColor)
224         line.set_color(bc, labelColor)
225         line.set_color(cd, labelColor)
226
227         if abcd[1] and bc == bc_zg and ab == ab_zg
228             label.delete(abcdLabel[1])
229             array.set(patterncount, count_index, array.get(patterncount, count_index) - 1)
230             line.set_color(ab, transparent)
231             line.set_color(bc, transparent)
232             line.set_color(cd, transparent)
233
234         if not abcd or label.get_x(abcdLabel) == label.get_x(abcdLabel[1]) and label.get_y(abcdLabel) == label.get_y(abcdLabel[1])
235             label.delete(abcdLabel)
236             array.set(patterncount, count_index, array.get(patterncount, count_index) - 1)
237         else
238             line.set_color(ab, labelColor)
239             line.set_color(bc, labelColor)
240             line.set_color(cd, labelColor)
241
242 calculate_double_pattern() =>
243     doubleTop = false
244     doubleBottom = false
245     if array.size(zigzagdir) >= 4 and doubleTopBottom
246         value = line.get_y2(array.get(zigzaglines, 1))
247         highlow = array.get(zigzagdir, 1)
248
249         lvalue = line.get_y2(array.get(zigzaglines, 2))
250         highlow = array.get(zigzagdir, 2)
251
252         llvalue = line.get_y2(array.get(zigzaglines, 3))
253         llhighlow = array.get(zigzagdir, 3)
254
255         risk = math.abs(value - lvalue)
256         reward = math.abs(value - llvalue)
257         riskPerReward = risk * 100 / (risk + reward)
258
259         if highLow == 1 and llhighLow == 2 and llhighLow == -1 and riskPerReward < MaxRiskPerReward
260             doubleTop := true
261             doubleTop
262         if highLow == -1 and llhighLow == -2 and llhighLow == 1 and riskPerReward < MaxRiskPerReward
263             doubleBottom := true
264             doubleBottom
265
266     [doubleTop, doubleBottom]
267
268
269 draw_double_pattern(doubleTop, doubleBottom) =>
270     if array.size(zigzagdir) >= 4
271         line1 = array.get(zigzaglines, 1)
272         line2 = array.get(zigzaglines, 2)
273
274         x1 = line.get_x1(line2)
275         y1 = line.get_y1(line2)
276         x2 = line.get_x2(line1)
277         y2 = line.get_y2(line1)
278
279         midline = line.get_y1(line1)
280         midlineIndex = line.get_x1(line1)
281         risk = math.abs(y2 - y1)
282         reward = math.abs(y2 - midline)
283         riskPerReward = math.round(risk * 100 / (risk + reward), 2)
284
285         base = line.new(x=x1, y=y1, x2=x2, y2=y2, color=doubleTop ? bearishColor : bullishColor, width=2, style=line.style_solid)
286
287         count_index = doubleTop ? 7 : 6
288         labelText = (doubleTop ? 'DT' : 'DB') + str.tostring(riskPerReward)
289         array.set(patterncount, count_index, array.get(patterncount, count_index) + 1)
290         baseLabel = label.new(x=x2, y=y2, text=labelText, yloc=doubleTop ? yloc.abovebar : yloc.belowbar, color=doubleTop ? bearishColor : bullishColor, style=doubleTop ? label.style_label_down : 1)
291         if line.get_x1(base) == line.get_x1(base[1])
292             line.delete(base[1])
293             label.delete(baseLabel[1])
294             array.set(patterncount, count_index, array.get(patterncount, count_index) - 1)
295
296         if not(doubleTop or doubleBottom)
297             line.delete(base)
298             label.delete(baseLabel)
299             array.set(patterncount, count_index, array.get(patterncount, count_index) - 1)
300
301 calculate_wm_patterns() =>
302     wm_pattern = false
303     if array.size(zigzagdir) >= 5
304         yxRatio = array.get(zigzagratios, 4)
305         xbRatio = array.get(zigzagratios, 3)
306         abRatio = array.get(zigzagratios, 2)
307         bcRatio = array.get(zigzagratios, 1)
308
309         xa = array.get(zigzaglines, 4)
310         ab = array.get(zigzaglines, 3)
311         bc = array.get(zigzaglines, 2)
312         cd = array.get(zigzaglines, 1)
313
314

```

```

314     x = line.get_y1(xa)
315     a = line.get_y2(xa)
316     b = line.get_y2(ab)
317     c = line.get_y1(cd)
318     d = line.get_y2(cd)
319
320     xabRatio = math.round(math.abs(a - d) / math.abs(x - a), 3)
321     dir = a > d ? 1 : -1
322
323     maxP1 = math.max(x, a)
324     maxP2 = math.max(c, d)
325     minP1 = math.min(x, a)
326     minP2 = math.min(c, d)
327
328     highPoint = math.min(maxP1, maxP2)
329     lowPoint = math.max(minP1, minP2)
330
331     if b < highPoint and b > lowPoint
332         //Gartley
333         if gartley and xabRatio >= 0.618 * err_min and xabRatio <= 0.618 * err_max and abcRatio >= 0.382 * err_min and abcRatio <= 0.886 * err_max and (bcdRatio >= 1.272 * err_min and bcdRatio
334             wm_pattern := true
335             array.set(wmtype, 1, 0)
336             array.set(wmLabels, 0, true)
337         else
338             array.set(wmLabels, 0, false)
339         //Crab
340         if crab and xabRatio >= 0.382 * err_min and xabRatio <= 0.618 * err_max and abcRatio >= 0.382 * err_min and abcRatio <= 0.886 * err_max and (bcdRatio >= 2.24 * err_min and bcdRatio <= 3
341             wm_pattern := true
342             array.set(wmtype, 1, 1)
343             array.set(wmLabels, 1, true)
344         else
345             array.set(wmLabels, 1, false)
346         //Deep Crab
347         if deepCrab and xabRatio >= 0.886 * err_min and xabRatio <= 0.886 * err_max and abcRatio >= 0.382 * err_min and abcRatio <= 0.886 * err_max and (bcdRatio >= 2.00 * err_min and bcdRatio
348             wm_pattern := true
349             array.set(wmtype, 1, 2)
350             array.set(wmLabels, 2, true)
351         else
352             array.set(wmLabels, 2, false)
353         //Bat
354         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 <= 2.
355             wm_pattern := true
356             array.set(wmtype, 1, 3)
357             array.set(wmLabels, 3, true)
358         else
359             array.set(wmLabels, 3, false)
360         //Butterfly
361         if butterfly and xabRatio >= 0.786 * err_min and xabRatio <= 0.786 * err_max and abcRatio >= 0.382 * err_min and abcRatio <= 0.886 * err_max and (bcdRatio >= 1.618 * err_min and bcdRatio
362             wm_pattern := true
363             array.set(wmtype, 1, 4)
364             array.set(wmLabels, 4, true)
365         else
366             array.set(wmLabels, 4, false)
367         //Shark
368         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 <= 1.
369             wm_pattern := true
370             array.set(wmtype, 1, 5)
371             array.set(wmLabels, 5, true)
372         else
373             array.set(wmLabels, 5, false)
374         //Cypher
375         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 <=
376             wm_pattern := true
377             array.set(wmtype, 1, 6)
378             array.set(wmLabels, 6, true)
379         else
380             array.set(wmLabels, 6, false)
381         //3 Drive
382         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 <=
383             wm_pattern := true
384             array.set(wmtype, 1, 7)
385             array.set(wmLabels, 7, true)
386         else
387             array.set(wmLabels, 7, false)
388         //5-0
389         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 *
390             wm_pattern := true
391             array.set(wmtype, 1, 8)
392             array.set(wmLabels, 8, true)
393         else
394             array.set(wmLabels, 8, false)
395         if !wm_pattern
396             array.set(wmlines, 0, xa)
397             array.set(wmlines, 1, ab)
398             array.set(wmlines, 2, bc)
399             array.set(wmlines, 3, cd)
400             array.set(wmlines, 4, dir)
401         wm_pattern
402
403     draw_wm_patterns()
404     wm_pattern = calculate_wm_patterns()
405     if array.size(wmlines) >= 4 and array.size(zigzaglines) >= 5
406         xa = array.get(wmlines, 0)
407         ab = array.get(wmlines, 1)
408         bc = array.get(wmlines, 2)
409         cd = array.get(wmlines, 3)
410
411         dir = array.get(wmtype, 0)
412         type = array.get(wmtype, 1)
413         trendColor = dir > 0 ? bullishColor : bearishColor
414         x = line.get_y1(xa)
415         xbar = line.get_x1(xa)
416
417         a = line.get_y2(xa)
418         abar = line.get_x2(xa)
419
420         b = line.get_y2(ab)
421         bbar = line.get_x2(ab)
422
423         c = line.get_y2(bc)
424         cbar = line.get_x2(bc)
425
426         d = line.get_y2(cd)
427         dbar = line.get_x2(cd)
428
429         line.set_color(xa, trendColor)
430         line.set_color(ab, trendColor)
431         line.set_color(bc, trendColor)
432         line.set_color(cd, trendColor)
433         ac = line.new(x1=abar, y1=a, x2=cbar, y2=c, color=trendColor, width=2, style=line.style_solid)
434         xb = line.new(x1=xbar, y1=x, x2=bbar, y2=b, color=trendColor, width=2, style=line.style_solid)
435         xd = line.new(x1=xbar, y1=x, x2=dbar, y2=d, color=trendColor, width=2, style=line.style_solid)
436         bd = line.new(x1=bbar, y1=b, x2=dbar, y2=d, color=trendColor, width=2, style=line.style_solid)
437
438         isGartley = array.get(wmLabels, 0)
439         isCrab = array.get(wmLabels, 1)
440         isDeepCrab = array.get(wmLabels, 2)
441         isBat = array.get(wmLabels, 3)
442         isButterfly = array.get(wmLabels, 4)
443         isShark = array.get(wmLabels, 5)
444         isCypher = array.get(wmLabels, 6)
445         is3Drives = array.get(wmLabels, 7)
446         isFiveZero = array.get(wmLabels, 8)
447
448         labelText = isGartley ? 'Gartley' : ''
449         labelText += (isCrab ? (labelText == '' ? '' : '\n') + 'Crab' : '')
450         labelText += (isDeepCrab ? (labelText == '' ? '' : '\n') + 'Deep Crab' : '')
451         labelText += (isBat ? (labelText == '' ? '' : '\n') + 'Bat' : '')
452         ...

```

```

452    if((isButterfly ? (labelText == '' ? '' : '\n') + 'Butterfly' : '') != labelText)
453    labelText += (isShark ? (labelText == '' ? '' : '\n') + 'Shark' : '')
454    labelText += (isCypher ? (labelText == '' ? '' : '\n') + 'Cypher' : '')
455    labelText += (isDrives ? (labelText == '' ? '' : '\n') + '3 Drive' : '')
456    labelText += (isFiveZero ? (labelText == '' ? '' : '\n') + '5.0' : '')
457
458    baseLabel = label.new(x=bbar, y=b, text=labelText, yloc=dir < 1 ? yloc.abovebar : yloc.belowbar, color=trendColor, style=dir < 1 ? label.style_label_down : label.style_label_up, textColor=c)
459
460    xa_zg = array.get(zigzaglines, 4)
461    ab_zg = array.get(zigzaglines, 3)
462    bc_zg = array.get(zigzaglines, 2)
463    cd_zg = array.get(zigzaglines, 1)
464
465    for i = 0 to 8 by 1
466        count_index = i * 2 + 8 + (dir > 0 ? 0 : 1)
467        if array.get(wm_labels, i) and xa != xa[1] and ab != ab[1] and bc != bc[1]
468            | array.set(patternCount, count_index, array.get(patternCount, count_index) + 1)
469        if array.get(wm_labels, i)[1] and xa == xa_zg and ab == ab_zg and bc == bc_zg
470            | array.set(patternCount, count_index, array.get(patternCount, count_index) - 1)
471
472        if !wm_pattern[1] and not wm_pattern and xa == xa_zg and ab == ab_zg and bc == bc_zg
473            line.delete(a[1])
474            line.delete(xa[1])
475            line.delete(xd[1])
476            line.delete(bd[1])
477            line.set_color(xa[1], transparent)
478            line.set_color(ab[1], transparent)
479            line.set_color(bc[1], transparent)
480            line.set_color(cd[1], transparent)
481            label.delete(baseLabel[1])
482            // array.set(patternCount, count_index, array.get(patternCount, count_index) - 1)
483
484        if not wm_pattern or label.get_x(baseLabel) == label.get_x(baseLabel[1]) and label.get_y(baseLabel) == label.get_y(baseLabel[1])
485            line.delete(ac)
486            line.delete(xb)
487            line.delete(xd)
488            line.delete(bd)
489            label.delete(baseLabel)
490
491    zigzag(length, DeviationThreshold)
492    draw_abcd()
493
494    [doubleTop, doubleBottom] = calculate_double_pattern()
495    draw_double_pattern(doubleTop, doubleBottom)
496
497    draw_wm_patterns()
498
499
500

```

## Comments

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

[Comment with cheer](#)

[Post Comment](#)



Ankit\_1618 PREMIUM

· Aug 18, 2021

Good Work

100 coins

+2 ▲ Reply



HeWhoMustNotBeNamed PREMIUM

· Aug 18, 2021

@Ankit\_1618, Thanks very much :) There are few other harmonic pattern variations I have published after this. Have a look. Also have a look at Auto Harmonic Patterns - V2 - which is protected script. But, you will still be able to use it.

+4 ▲ Reply



memememima PREMIUM

· Dec 1, 2021

350 coins

▲ Reply



HeWhoMustNotBeNamed PREMIUM

· Dec 1, 2021

@memememima, Thanks very much mate :)

▲ Reply



imohitahuja21 · Aug 3, 2021

I appreciate your work bro but the pattern are not being formed on time, it forms after the stock reaches 1st or 2nd target? why is it slow? is it the same for everyone?

+6 ▲ Reply



HeWhoMustNotBeNamed PREMIUM

· Aug 3, 2021

@imohitahuja21, that's because patterns are calculated once zigzag pivot is confirmed. Which may take few bars based on the movement. This is done to avoid false signals.

I have created another script :





Here too default setting is to use confirmed zigzag. But, you can turn it off with setting WaltForConfirmation.

+1 ▲ Reply

I imohitahuja21 · Aug 4, 2021

@HeWhoMustNotBeNamed, thanks I will check this one for sure. keep up the good work bro. :)

+1 ▲ Reply

B BankIFX PRO+ · Dec 27, 2021

@HeWhoMustNotBeNamed, can we turn it off in this script ?

▲ Reply

D DannyThan · 4 hours ago

@imohitahuja21, same

▲ Reply

Q henryph24 PREMIUM · Jul 21, 2021

much appreciate :D

+3 ▲ Reply

N naba\_naif PREMIUM · Jul 21, 2021

thank you so much.

+2 ▲ Reply

S TheBigTrader3 PRO+ · Aug 17, 2021

Really useful for my trading style.

A huge thanks Bro !!

+1 ▲ Reply

H HeWhoMustNotBeNamed PREMIUM · Aug 17, 2021

@TheBigTrader3, Have published further versions as separate scripts. Have a look.

▲ Reply

Z Zybk657 · Jul 30, 2021

thank you for share. we are waiting alarms pls..

+1 ▲ Reply

H HeWhoMustNotBeNamed PREMIUM · Jul 30, 2021

@Zybk657, I will not be adding alerts here. It's there in the next version.



▲ Reply

O Owneroftheskies · Aug 5, 2021

@HeWhoMustNotBeNamed, Please add (Auto Harmonic Patterns) alarm. When I compare the 3 indicators, Auto Patterns sees some patterns that Zigzag can't. Even open code can find different occurrences. I use all 3 together. These require warning. Everything is great, there is no single alarm.

+1 ▲ Reply

R reyhancerenyildiz PRO · Jul 26, 2021

teşekkür ederim! BRAVO

+1 ▲ Reply

cc247 · Jul 21, 2021

Works for me! 😊

+1 ▲ Reply

T Trading-With-A · Jul 21, 2021

Thanks a lot.

+1 ▲ Reply

OohGwrd PREMIUM · May 18

Man I been looking through a couple of your indicators and see why u gave your self the title of HeWhoMustNotBeNamed!!

- [▲ Reply](#)
-  **M marshallseu** · May 8 [🔗](#) [📄](#)
- Thank you for sharing.a small suggestion, the top line, and the bottom line can be marked with other colors or dashed lines.
- [▲ Reply](#)
-  **Ritwikghosh** · Jan 28 · TradingView for Android [🔗](#) [📄](#)
- Useless....
- [▲ Reply](#)
-  **HeWhoMustNotBeNamed PREMIUM** · Jan 28 [🔗](#) [📄](#)
- @Ritwikghosh, Well, usefulness of indicator depends on person using them!!
- [▲ Reply](#)
-  **K Karthi056** · Feb 8 [🔗](#) [📄](#)
- @Ritwikghosh, Oh I could able to see the idiots like you even in trading platform. First of all try to above others effort. This is what the at most kind words of mine.
- [▲ Reply](#)
-  **prime1000** · Nov 26, 2021 [🔗](#) [📄](#)
- ...and its free.Good Bless You
- [▲ Reply](#)
-  **P parthwagh9999** · Nov 1, 2021 [🔗](#) [📄](#)
- thank you so much for your support
- [▲ Reply](#)
-  **H hassan4mersin** · Oct 24, 2021 [🔗](#) [📄](#)
- Great Job , I noticed that the delay about 4 bars after detecting the pattern  
how can we deal with this delay
- [▲ Reply](#)
-  **mtuser PRO** · Oct 8, 2021 [🔗](#) [📄](#)
- I use 3 version, this version is the BEST!!  
Thank you
- [▲ Reply](#)
-  **S saurabhn185 PRO** · Sep 27, 2021 [🔗](#) [📄](#)
- Excellent work.. Thanks a ton.
- [▲ Reply](#)
-  **J jwdhassan** · Sep 7, 2021 [🔗](#) [📄](#)
- Wooo,amazing
- [▲ Reply](#)
-  **Orxan\_Salmanov** · Aug 28, 2021 [🔗](#) [📄](#)
- My brother is very beautiful, but the forms appear after 3 candles, so they appear late. Is it possible to fix it?  
Can we adjust the settings?
- [▲ Reply](#)
-  **H hanimai832** · Aug 17, 2021 [🔗](#) [📄](#)
- Hello, can you create an alert for this indicator?
- [▲ Reply](#)
-  **HeWhoMustNotBeNamed PREMIUM** · Aug 17, 2021 [🔗](#) [📄](#)
- @hanimai832, Not for this one. I have published next versions of the harmonic patterns which has built in alerts. Feel free to try that.
- [▲ Reply](#)
-  **tyloo\_milu PRO+** · Jul 25, 2021 [🔗](#) [📄](#)
- sorry,what does "DB, DT" mean?
- [▲ Reply](#)
-  **HeWhoMustNotBeNamed PREMIUM** · Jul 25, 2021 [🔗](#) [📄](#)
- @tyloo\_milu, double bottom and double top.
- [▲ Reply](#)
-  **tyloo\_milu PRO+** · Jul 25, 2021 [🔗](#) [📄](#)
- @HeWhoMustNotBeNamed, thank you!
- [▲ Reply](#)
-  **P pankul55555** · Jul 24, 2021 [🔗](#) [📄](#)
- Wow ! Thank you very much for this script .A must have tool for trader .  
Waiting for your next update having Alters added
- [▲ Reply](#)
-  **HeWhoMustNotBeNamed PREMIUM** · Jul 24, 2021 [🔗](#) [📄](#)
- @pankul55555, Thanks. What is alters?
- [▲ Reply](#)
-  **L lumuchen PRO+** · Jul 22, 2021 [🔗](#) [📄](#)
- Can it be used for signaling in real time? like warn me when a harmonic pattern entry forms?

[▲ Reply](#)

 **HeWhoMustNotBeNamed** PREMIUM · Jul 22, 2021 [↪](#) [🔗](#)

@lumuchen, have not added alerts so far. Will do it on next update.

[▲ Reply](#)

 **yuvraj1386** · Jul 22, 2021 [↪](#) [🔗](#)

How to use this script in trading view, please suggest

[▲ Reply](#)

 **HeWhoMustNotBeNamed** PREMIUM · Jul 22, 2021 [↪](#) [🔗](#)

@yuvraj1386, Hi, there are some good videos in youtube on - "How to use custom indicators in tradingview". Please check - this might help.

[▲ Reply](#)

 **yuvraj1386** · Jul 22, 2021 [↪](#) [🔗](#)

@HeWhoMustNotBeNamed, ,thank a lot sir,i got it and added your script and it is excellent.do you have scripts to find out other patterns like flag,triangle ,pennents, and breakout point finding scripts.if yes please give me link .thank you very much for your open sources

[▲ Reply](#)

 **tyloo\_milu** PRO+ · Jul 22, 2021 [↪](#) [🔗](#)

请问“too many things , cannot clean oldest”是什么原因

[▲ Reply](#)

 **HeWhoMustNotBeNamed** PREMIUM · Jul 22, 2021 [↪](#) [🔗](#)

@tyloo\_milu, Lower timeframes struggle often. Best use is with 1D timeframe. Patterns are also more efficient with higher timeframes (At least 1D)

[▲ Reply](#)

 **HeWhoMustNotBeNamed** PREMIUM · Jul 22, 2021 [↪](#) [🔗](#)

@tyloo\_milu, Can you check now?

[▲ Reply](#)

 **tyloo\_milu** PRO+ · Jul 22, 2021 [↪](#) [🔗](#)

@HeWhoMustNotBeNamed, it can running ,thank you!

[+1](#) [▲ Reply](#)

[Herif's] Harmonic Patterns

Crab Range Finder

Auto Harmonic Patterns - Open

?