



Oca 3 Hello All,

Relative Volume is one of the most important indicators and Traders should check it while trading/analyzing. It is used to identify whether the volume flows are increasing or decreasing. Relative volume measures current volume in relation to the "usual" volume for this time of the day. What is considered "usual"? For that, we have to use a historical baseline known as the average daily volume. That means how much volume a security does on a daily basis over a defined period. (This script runs on the time frames greater or equal 1 minute and less than 1 day)

The common definition for real-time relative volume is: Current volume for this time of day / Average volume for this time of day. It does not mean taking the volume (for example) from 10:30 am to 10:45 am and comparing it to what it does from 10:30 am to 10:45 am every day. What it truly means is to compare cumulative volumes. Therefore, this is the precise definition of real-time relative volume:

Current cumulative volume up to this time of day / Average cumulative volume up to this time of day

What should we understand while checking RVOL:

- Relative volume tell us if volume flows are increasing or decreasing
- A high relative volume tells us that there is increased trading activity in a security today
- Increased volume flows often accompany higher volatility i.e. a significant price move

Let see an example:



P.S. If you want to get more info about RVOL/Relative Volume then you can search it on the net. While developing the script this was used as reference, you can also check it for more info.

Enjoy!

Oca 4 **Sürüm Notları:** Algorithm slightly improved. instead of calculating cumulative volume on each bar, now the array keeps cumulative volumes.
Lighter colors used.

Oca 5 **Sürüm Notları:** Tooltip added for the input "Number of Days". unnecessary Input option removed.

Website

Açık kaynak kodlu komut dosyası

Gerekç TradingView rühuyla, bütün yazan, yatırımcının anlayabilmesi ve doğrulanabilmesi için onu açık kaynak olarak yayınladı. Yazının eline sağlam! Bu sun ücretsiz olarak kullanabilirsiniz, ancak bu kodun bir yanında yeniden kullanım **Kullanım Koşulları** ile yönetilir. Bir grafike kullanmak için favorilere ekleyebilirsiniz.

Feragatname

Bilgiler ve yazılar, TradingView tarafından sağlanan veya onaylanan finansal, yatırım, işlem veya diğer türden tavaşı veya tavaşlara anlamlı gelmez ve teşkil etmez. **Kullanım Şartları**nda daha fazlasını okuyun.

Bu komut dosyasını bir grafikte kullanmak ister misiniz?

Favori göstermekle devam et

```

1 // This source code is subject to the terms of the Mozilla Public License 2.0 at https://mozilla.org/MPL/2.0/
2 // © LonesomeTheBlue
3
4 var tooltip1 = "The more recent the data is, the more relevant it is. Longer period baselines have lower volumes. This creates too much noise when we generate our results."
5 //version=5
6 Indicator("RVOL Relative Volume - Intraday", "RVOL", max_lines_count = 500, precision = 2)
7 period = input.int(defval = 5, title = "Number of Days", minval = 1, maxval = 55, tooltip = tooltip1)
8
9 // Chart time frame must be "1-min" and less than 1Day to run the script
10 if not timeframe.isintraday or timeframe.iseconds
11   runtime.error("Chart time frame must be less than 1 Day and greater/equal 1 minute")
12
13 hline(0.0, linestyle = hline.style_solid)
14 hline(0.5, linestyle = hline.style_dotted)
15 hline(1.0, linestyle = hline.style_dashed)
16 hline(1.5, linestyle = hline.style_dotted)
17 hline(2.0, linestyle = hline.style_dashed)
18
19 // get current bar time as hour/minute
20 int hour_ = math.floor(time / 3600000) % 24
21 int minute_ = math.floor((time / 60000) % 60
22
23 // *24*60 => 1 day, *2 is used to make the day 48 hours because session start time may change sometimes and also it may start (say) at 17:00 and ends at 02:00
24 // this method is used to calculate exact rvol, other methods may give false results
25 var rvol = array.new.float(24 * 60 * 2 * (period + 1), 0)
26 // new session started?
27 bool newday = ta.change(time('D')) != 0
28
29 // this is used to make the day 48 hours
30 var plus24 = 0
31 if newday
32   plus24 := 0
33   for x = 1 to 2880
34     array.shift(rvol)
35     array.push(rvol, 0)
36
37 // get bar time
38 int ctime_ = hour_ * 60 + minute_
39 // calculate addition
40 if ctime_ < ctime_[1] and not newday
41   plus24 := 1440
42
43 // convert bar time to index (48 hours)
44 int ctime = ctime_ + plus24
45
46 // draw vertical line at the beginning of the Session
47 if newday
48   line.new(x1 = bar_index, y1 = 0, x2 = bar_index, y2 = 1, color = color.gray, style = line.style_dashed, extend = extend.right)
49
50 // keep the current cumulative volume at related element in the array
51 array.set(rvol, period * 2880 + ctime, newday ? volume : array.get(rvol, period * 2880 + ctime[1]) + volume)
52
53 // calculate relative volume
54 relativeVolume()=>
55   float hvol = 0//array.sum(array.slice(rvol, x * 2880 + ctime)
56   for x = 0 to period - 1
57     svol = array.get(rvol, x * 2880 + ctime)
58     // if it missing hour in last days, get sum from last hour(s)
59     if svol == 0
60       for y = x * 2880 + ctime to x * 2880
61         svol := array.get(rvol, y)
62       if svol != 0
63         break
64     hvol += svol / period
65
66   cvol = array.get(rvol, period * 2880 + ctime)
67   rvol = hvol == 0 ? 0 : cvol / hvol
68
69 RVOL = relativeVolume()
70 // plot relative volume
71 plot(RVOL, style = plot.style_columns, color = close >= open ? color.rgb(0, math.max(math.min(RVOL * 130, 255), 130), 0, 0) : color.rgb(math.max(math.min(RVOL * 130, 255), 130), 0, 0, 0))
72

```

Yorumlar



Yararlı veya teşvik edici bir yorum bırakın. Piyasalarla birlikte hâkim olalım

[Alıntıları yorum](#) [Yorum Paylaş](#)

MsData22 PRO+ · Oca 30 cevap paylaş

Thank you. This is an amazing indicator! Much appreciated. Deep bows.
Is it possible to set alerts on your indicator directly or as part of

500 koin

+1 Cevap Gönder

MsData22 PRO+ · Oca 30 cevap paylaş

@MsData22, my own Pine script? I am new to Pine script and would love to use this indicator as part of my own or to set alerts on it.

Cevap Gönder

sagunchadda PREMIUM · Oca 4 cevap paylaş

@lonesomethblue thanks for the indicator.

500 koin

+1 Cevap Gönder

LonesomeTheBlue WIZARD · Oca 4 cevap paylaş

@sagunchadda, you are welcome!

Cevap Gönder

ibhatia19 PREMIUM · Oca 4 cevap paylaş

Possible to change the colors on the bars? Cheers

Cevap Gönder

LonesomeTheBlue WIZARD · Oca 5 cevap paylaş

@ibhatia19, let me check it

Cevap Gönder

gazal · Oca 4 cevap paylaş

I want to know how to access the Pro version of this script. I can't send you a message directly

Cevap Gönder

gmeneguzzo PRO+ · Oca 20 cevap paylaş

Thank you , please why it does not work in higher timeframes ? It should be used only on 30 minutes max 1 hour ?
+3 ▲ Cevap Gönder

 Carl2021111 · Oca 17  

Can I use this with helkinashi candles?
+3 ▲ Cevap Gönder

 lucidreamer15 · Oca 4  

OMG!
+2 ▲ Cevap Gönder

 kenangun80 · Oca 4  

çok teşekkürler.emeğinize sağlık.
+2 ▲ Cevap Gönder

 Mdavo · Oca 5 · iOS için TradingView  

Thank you
+1 ▲ Cevap Gönder

 Mronejr · Oca 4  

Thank you!
+1 ▲ Cevap Gönder

 LonesomeTheBlue  · Oca 4  

@Mronejr, Pleasure!
+1 ▲ Cevap Gönder

 kurtsmock  · Oca 4  

This method of determining time backward is awesome. Solves a lot of the timeout issues you have just using loops without arrays.
+1 ▲ Cevap Gönder

 mayadag · Oca 4  

3 pro indikatör aştın teşekkür ederim
+1 ▲ Cevap Gönder

 AMB_76  · Oca 4  

Been waiting for this from the Mastaaaa for a while, SaWEEEEET!
+1 ▲ Cevap Gönder

 syrinxflunki  · Oca 4  

All killer no filler !
+1 ▲ Cevap Gönder

 nastyshade · Oca 4  

Thank you!!!
+1 ▲ Cevap Gönder

 dvcstarno1 · Nis 27  

Thank you, This is amazing .
How we can use it in 1D or Week.
It's just use in less than 1D. Help
+1 ▲ Cevap Gönder

 bobbertoswald  · Nis 21  

Wicked script man. Just seeing now that it does RVOL for "pre and post market" sessions as well. As a non pine coder just curious as the accuracy of this? Is pre market again looking back at the 14 (default I believe) previous pre market sessions? If so I've been looking for something like that forever to see relative volume in pre market and always told to go pound sand and that, that doesn't exist.
+1 ▲ Cevap Gönder

 blankstart · Nis 11  

You're 1 of my favorite coders. Thank you.
+1 ▲ Cevap Gönder

 xeroz0011  · Mar 18  

Thank you for this awesome indicator. Was wondering if it is possible to add alerts to this indicator such that it can apply across all charts when RVOL exceeds a certain threshold?
+1 ▲ Cevap Gönder

 axadityathakur2018 · Mar 6 · Android için TradingView  

Thanks sir for this amazing indicator
+1 ▲ Cevap Gönder

 Bierbaron  · Sub 11  

@LonesomeTheBlue , awesome indicator as always. One question: would it be possible to show the RVOL in a table on the daily timeframe (for example if you use for the volume calculation: request.security(pyminfo.tickerid, "30", volume)? Thx
+1 ▲ Cevap Gönder

 dgmtrader  · Sub 5  

Looks great, thanks Lonesome! Is there any way to make this detect divergences in RVOL...e.g. HH in price not confirmed by HH in RVOL?
+1 ▲ Cevap Gönder

 jTrader-00 · Sub 1  

This is amazing thanks
+1 ▲ Cevap Gönder

 Sa4rk9s · Oca 20  

interesting Job. You're doing fine
+1 ▲ Cevap Gönder

 ivant140  · Oca 19  

Hey I have check ur indicator and wanted to ask are u using this formula:
Calculation:
VolNow = volume of this stock as of today's date (in this moment of time).
Vol4wk = past 4 week average volume of this stock
CDF = historical volume cumulative distribution at this second.
RVOL = VolNow/(Vol4wk*VolCDF)

[▲ Cevap Gönder](#)

K **klijj** · Oca 15 [cevap](#) [paylaş](#)

Hi,

Thanks for your effort. Your many scripts are perfect!
Could you please access to harmonic pro?
Thanks.

Hocam selamlar,
Türk oðluguñuzu okumustum o sebeple Turkçede yazýdım dedim :)
Emekleriniz için çok teşekkür ederim. Harmonic proyu paylasabilirseniz çok memnun olurum.
Saygılarıla.

[▲ Cevap Gönder](#)

C **VforVendetta** · Oca 14 [cevap](#) [paylaş](#)

Efsanesin abi etline, koluna, zihniñe sağtık.

[▲ Cevap Gönder](#)

V **vicknrt PREMIUM** · Oca 14 [cevap](#) [paylaş](#)

Thank you! Any way to change the colors on the bars?

[▲ Cevap Gönder](#)

T **tvjvzl PRO** · Oca 12 [cevap](#) [paylaş](#)

Awesome! I understand what you did here. Works fine for alarms as it can detect sudden significant changes in price. A relative price version would also be great.

[▲ Cevap Gönder](#)

O **onewithoutasecond** · Oca 13 [cevap](#) [paylaş](#)

@tvjvzl, can you shed some light on how to use this indicator?

thanks.

[▲ Cevap Gönder](#)

S **sushilonyt** · Oca 9 [cevap](#) [paylaş](#)

Awesome sir...

[▲ Cevap Gönder](#)

R **rvsanthosh1985 PRO** · Oca 8 [cevap](#) [paylaş](#)

This is Awesome indicato . I reviewed some of the charts , before any breakout we see some spike in the RVOL in consolidation phase. Can we use this as indicator to enter early . Example is stock small green color bars in accumulation enter waiting for breakout.Basically can I use this indicator to avoid fake outs.

[▲ Cevap Gönder](#)

P **PoorAsFuck** · Oca 7 [cevap](#) [paylaş](#)

Thank you for the share!

[▲ Cevap Gönder](#)

T **talk2azharabbas** · Oca 5 · Android İçin TradingView [cevap](#) [paylaş](#)

No commentss

[▲ Cevap Gönder](#)

C **CMFXBORSACRYPTO PREMIUM** · Oca 5 [cevap](#) [paylaş](#)

tesekkürler hocam elinize sağtık

[▲ Cevap Gönder](#)

S **Sameer_Basha PREMIUM** · Oca 4 [cevap](#) [paylaş](#)

Hello,

this Indicator has "Input of number of days as 5" ... Is the reliability or weightage of the indicator gets increased or decreased 'if i change the input' as i am applying it to crypto market which is 24hrs market unlike traditional markets

Thanks!!

[▲ Cevap Gönder](#)

L **LonesomeTheBlue WIZARD** · Oca 4 [cevap](#) [paylaş](#)

@Sameer_Basha, Smaller numbers better

[▲ Cevap Gönder](#)