

The background features abstract, overlapping green geometric shapes in various shades of green, creating a modern and dynamic look. The shapes are primarily located on the left and right sides of the page, framing the central text.

# GoodTrade software manual

# Overview

GoodTrade

Scanner Settings: Select Market: Nasdaq Select signal type: Most Active Min RelVol: 0.5 Market Cap: Small Fetch Data

Current Status: Ready

Scanner

Symbol	RelVol	Market Cap	Signal
WDC	0	5.12M	3.12 0.00%
CSCO	0	22.31M	0.67 0.00%
BLDR	0	2.01M	8.12 0.00%
DKNG	0	24.46M	0.59 0.00%
VTRS	0	11.92M	1.21 0.00%
NKLA	0	22.98M	0.60 0.00%
SRIE	0	15.40M	0.90 0.00%
WKHS	0	17.54M	0.74 0.00%
FB	0	18.36M	0.69 0.00%
UAL	0	20.57M	0.61 0.00%
BBBY	0	9.82M	1.27 0.00%
PDD	0	9.11M	1.37 0.00%
ZNGA	0	21.50M	0.57 0.00%
SIRI	0	23.08M	0.53 0.00%
BLNK	0	10.83M	1.10 0.00%
BILI	0	5.17M	2.26 0.00%
CMCSA	0	16.97M	0.67 0.00%
GILD	0	9.43M	1.15 0.00%
INO	0	10.35M	1.04 0.00%
AZN	0	8.33M	1.28 0.00%
TIGR	0	1.77M	6.13 0.00%
KNDI	0	12.18M	0.76 0.00%
AMRN	0	7.40M	1.23 0.00%
HIBAN	0	9.78M	0.89 0.00%
OPK	0	9.06M	0.94 0.00%
JBLU	0	9.92M	0.79 0.00%
WISH	0	14.78M	0.51 0.00%
IQ	0	9.02M	0.86 0.00%
JD	0	12.04M	0.64 0.00%
WBA	0	7.76M	0.99 0.00%
VIAC	0	10.74M	0.71 0.00%
APA	0	11.71M	0.63 0.00%

Listener

Tickers Manager: All alerts High-Low Open-High Open-Low Extreme Range Extreme Volume First five minutes Breakout

Add Symbol Current Registered Tickers: 50

Ticker	Status	Last update	Price	Last Alert	Last Alert time	Remove
MSFT.NQ	Connected	09:36:56	220.275	High Intraday Range	09:36	
AAPL.NQ	Connected	09:36:56	132.32	Moderate Intraday Open-Low	09:33	
AMD.NQ	Connected	09:36:56	91.965	Very high Intraday Open-Low	09:33	
BABA.NY	Connected	09:36:56	228.13	High Intraday Open-Low	09:32	
TSLA.NQ	Connected	09:36:56	728.145	Very high Opening Rg	09:34	
INTC.NQ	Connected	09:36:56	50.315	High Intraday Range	09:36	
MRNA.NQ	Connected	09:36:56	104.5	Very high Intraday Range	09:34	
BIDU.NQ	Connected	09:36:56	220.11	High Intraday Open-Low	09:34	
LI.NQ	Connected	09:36:56	29.79	Very high Opening Vol	09:34	
WDC.NQ	Connected	09:36:56	54.275	Very high Opening Vol	09:34	
CSCO.NQ	Connected	09:36:56	44.115	High Intraday Open-Low	09:34	
DKNG.NQ	Connected	09:36:56	46.375	Very high Intraday Range	09:36	
FB.NQ	Connected	09:36:56	271.815	Very high Intraday Range	09:32	
UAL.NQ	Connected	09:36:55	42.575	Very high Intraday Open-Low	09:35	
PDD.NQ	Connected	09:36:55	174.915	Very high Intraday Range	09:34	
ZNGA.NQ	Connected	09:36:55	9.755	Moderate Intraday Open-Low	09:34	
SIRI.NQ	Connected	09:36:54	6.315	Moderate Intraday Open-Low	09:34	
BILLI.NQ	Connected	09:36:56	94.35	Very high Intraday Open-Low	09:33	
CMCSA.NQ	Connected	09:36:56	52.195	High Intraday Range	09:31	
GILD.NQ	Connected	09:36:55	58.11	Moderate Intraday Open-Low	09:34	
AZN.NQ	Connected	09:36:56	50.645	Very high Intraday Open-Low	09:35	
HIBAN.NQ	Connected	09:36:56	12.685	High Intraday Range	09:34	
WISH.NQ	Connected	09:36:54	18.295	Very high Intraday Range	09:36	
IQ.NQ	Connected	09:36:56	17.66	High Intraday Range	09:33	
JD.NQ	Connected	09:36:55	86.675	High Intraday Open-Low	09:35	
WBA.NQ	Connected	09:36:56	40.18	Very high Intraday Range	09:35	
VIAC.NQ	Connected	09:36:56	37.645	Moderate Opening Vol	09:34	
BNGO.NQ	Connected	09:27:57	5.145			
CAN.NQ	Connected	09:27:37	7.055			
BTBT.NQ	Connected	09:36:56	28.38	High Intraday Open-Low	09:36	

- GoodTrade has two main components: Scanner and Alerts system.
  - Scanner filters out live stocks based on certain conditions such as relative volume, most active, etc.
  - Alerts system is able to receive notification when a certain condition is met.
  - Symbols showed in Scanner can be added to Alerts system directly and subscribe to all alerts.
- 
- Running requirements:
    1. Python3.8 or above installed  
 win32: <https://www.python.org/ftp/python/3.8.7/python-3.8.7.exe>  
 win64: <https://www.python.org/ftp/python/3.8.7/python-3.8.7-amd64.exe>
    2. Git  
 win32: <https://github.com/git-for-windows/git/releases/download/v2.30.0.windows.2/Git-2.30.0.2-32-bit.exe>  
 win64: <https://github.com/git-for-windows/git/releases/download/v2.30.0.windows.2/Git-2.30.0.2-64-bit.exe>
  - Note : To enable the alert system working, user must be logging onto Ppro TMS for the moment. Future updates will levitate this requirement.

# Alert system - managing symbols

Listener

Tickers Manager / All alerts: High-Low Open-High Open-Low Extreme Range Extreme Volume First five minutes Breakout

qqq.nq Add Symbol Current Registered Tickers: 5

Ticker	Status	Last update	Price	Last Alert	Last Alert time	Remove
MSFT.NQ	Connected	16:44:45	222.495	High Intraday Open-High	16:44	
AAPL.NQ	Connected	16:44:58	132.625	Moderate Intraday Open-Low	16:44	
AMD.NQ	Connected	16:44:37	91.625	Moderate Intraday Open-Low	16:44	
SPY.AM	Connected	16:44:50	374.11	Very high Intraday Open-Low	16:44	
QQQQ.NQ	Unfound		0.0			

Scanner Settings

Select Market: Nasdaq Select signal type: Most Active Min RelVol: 2 Market Cap: Any Fetch Data

Current Status: Ready

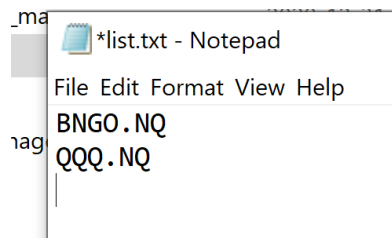
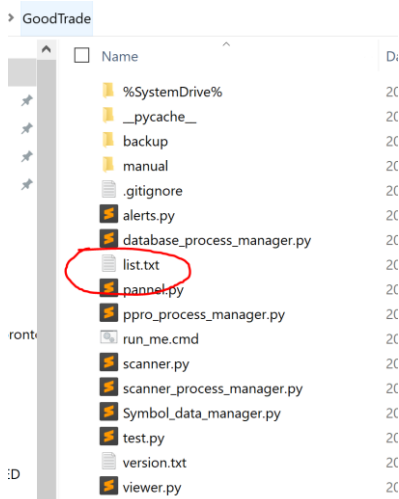
Scanner

Ticker	Cur.V	Avg.V	Rel.V	%since close	Add to list
BNGO	483,750,816	31.79M	18.15	46.67%	
CTRM	288,370,592	17.65M	21.46	-20.53%	
JAGX	142,399,536	34.41M	4.33	17.77%	
HOTH	113,187,664	1.98M	524.13	44.51%	
CAN	79,006,912	6.82M	13.88	35.39%	

- There are two ways to add symbols to the alert system; 1. input it directly from the Tickers Manager. 2. Add it from Scanner.
- To remove a symbol from the alerts listener, simply click remove in the Tickers Manager.
- When a symbol is added to the listener, it is automatically subscribed to all alerts.

## Bulk Management

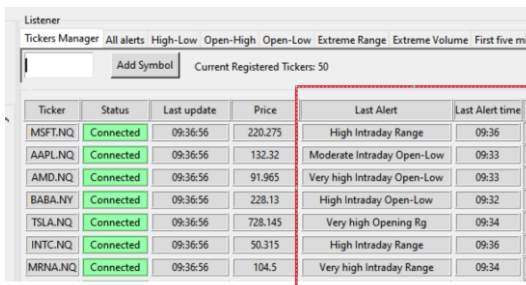
- To edit many symbols more efficiently, user is able to open list.txt and add, or delete symbols.
- Note : User should perform this operation before opening the application. Any changes of list.txt during application running will not be saved correctly.



# Alert system - Receiving alert.

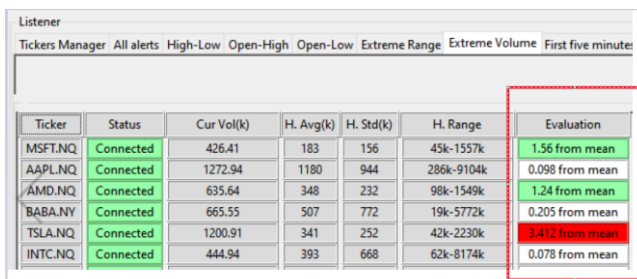
The user will receive an alert in three ways:

1. Most recent alert via Tickers manager. Last Alert: the type of alert. Last Alert time: The time the alert was produced.



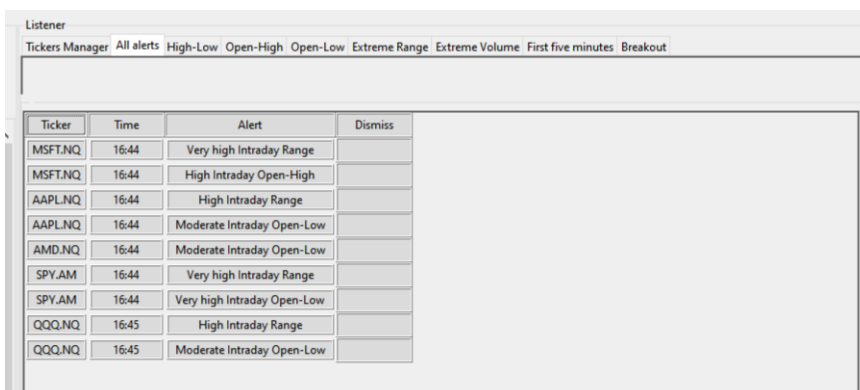
Ticker	Status	Last update	Price	Last Alert	Last Alert time
MSFT.NQ	Connected	09:36:56	220.275	High Intraday Range	09:36
AAPL.NQ	Connected	09:36:56	132.32	Moderate Intraday Open-Low	09:33
AMD.NQ	Connected	09:36:56	91.965	Very high Intraday Open-Low	09:33
BABA.NY	Connected	09:36:56	228.13	High Intraday Open-Low	09:32
TSLA.NQ	Connected	09:36:56	728.145	Very high Opening Rg	09:34
INTC.NQ	Connected	09:36:56	50.315	High Intraday Range	09:36
MRNA.NQ	Connected	09:36:56	104.5	Very high Intraday Range	09:34

2. Evaluation in alert-condition panel( Extreme Range, etc.)
  - 1.56 from mean meaning current value is 1.56 standard deviation above the mean.
  - tint indicates the extent of the condition: red: very high (2 std and more) , yellow: high(1-2 std range), green: worth noting(0.5-1) , and white: normal(mean within 0.5 std)



Ticker	Status	Cur Vol(k)	H. Avg(k)	H. Std(k)	H. Range	Evaluation
MSFT.NQ	Connected	426.41	183	156	45k-1557k	1.56 from mean
AAPL.NQ	Connected	1272.94	1180	944	286k-9104k	0.098 from mean
AMD.NQ	Connected	635.64	348	232	98k-1549k	1.24 from mean
BABA.NY	Connected	665.55	507	772	19k-5772k	0.205 from mean
TSLA.NQ	Connected	1200.91	341	252	42k-2230k	1.412 from mean
INTC.NQ	Connected	444.94	393	668	62k-8174k	0.078 from mean

3. All alerts panel displayed each alert received.



Ticker	Time	Alert	Dismiss
MSFT.NQ	16:44	Very high Intraday Range	
MSFT.NQ	16:44	High Intraday Open-High	
AAPL.NQ	16:44	High Intraday Range	
AAPL.NQ	16:44	Moderate Intraday Open-Low	
AMD.NQ	16:44	Moderate Intraday Open-Low	
SPY.AM	16:44	Very high Intraday Range	
SPY.AM	16:44	Very high Intraday Open-Low	
QQQ.NQ	16:45	High Intraday Range	
QQQ.NQ	16:45	Moderate Intraday Open-Low	

# Alert system - alerts type

ts **High-Low** Open-High Open-Low Extreme Range Extreme Volume First five minutes Breakout

- The alert system supports conditions:
- **High-Low:**
  - Evaluate a stock based on its current day range and 10 days historical range.
- **Open-High;**
  - Evaluate a stock based on its current day open-high and 10 days historical open-high range.
- **Open-Low:**
  - Evaluate a stock based on its current day open-low and 10 days open-low historical range.
- **Extreme Range:**
  - Evaluate a stock based on its last 5 minutes range and historical average 5 minutes range.
- **Extreme Volume:**
  - Evaluate a stock based on its last 5 minutes volume and historical average 5 minutes volume.
- **First five minute:**
  - Evaluate a stock based on its opening range and volume to its 10 days opening average.
- **Breakout :**
  - Receive notification when price breaks given support/resistance level.

# Alert system - high low

Listener								
Tickers Manager All alerts <b>High-Low</b> Open-High Open-Low Extreme Range Extreme Volume First five minutes Breakout								
Ticker	Status	Cur Range	Cur High	Cur Low	H. Avg	H. Std	H. Range	Evaluation
MSFT.NQ	Connected	7.18	226.85	219.67	1.654	1.163	0.22-3.82	4.752 from mean
AAPL.NQ	Connected	3.02	134.74	131.72	1.728	1.033	0.23-3.719	1.251 from mean
AMD.NQ	Connected	1.77	92.64	90.87	1.795	0.933	0.49-3.21	-0.027 from mean
SPY.AM	Connected	36.45	374.67	338.22	1.452	0.997	0.548-2.98	35.103 from mean

Cur Range: Current day high-low range.

Cur High: Current day high

Cur Low: Current day low

H.Avg: Historical 10 days Average daily range

H.Std. Historical 10 days daily range standard deviation

H.Range. Historical range of daily

# Alert system - open high/ Open Low

Listener								
Tickers Manager All alerts High-Low <b>Open-High</b> Open-Low Extreme Range Extreme Volume First five minutes Breakout								
Ticker	Status	Cur Range	Cur Open	Cur High	H. Avg	H. Std	H. Range	Evaluation
MSFT.NQ	Connected	5.15	221.7	226.85	3.72	1.251	2.41-6.72	1.143 from mean
AAPL.NQ	Connected	0.66	134.08	134.74	3.439	1.128	1.65-4.861	-2.464 from mean
AMD.NQ	Connected	0.54	92.1	92.64	2.441	0.935	1.2-4.2	-2.033 from mean
SPY.AM	Connected	2.89	371.78	374.67	4.021	4.74	1.52-16.43	-0.239 from mean

Cur Range: Current day open-high range.

Cur High: Current day high

Cur Open: Current day open

H.Avg: Historical Average daily range of Open-High

H.Std. Historical daily Open-High standard deviation

H.Range. Historical range of daily Open-High

# Alert system - Extreme range

Listener						
Tickers Manager	All alerts	High-Low	Open-High	Open-Low	Extreme Range	Extreme Volume
First five minutes						
Breakout						
Ticker	Status	Cur Range	H. Avg	H. Std	H. Range	Evaluation
AAPL.NQ	Connected	0.045	0.341	0.233	0.06-1.67	-1.27 from mean
AMD.NQ	Connected	0.035	0.263	0.171	0.08-1.37	-1.333 from mean
BABA.NY	Connected	0.125	0.789	0.677	0.13-4.642	-0.981 from mean
TSLA.NQ	Connected	0.585	2.701	1.577	0.54-10.13	-1.342 from mean
BIDU.NQ	Connected	0.06	0.969	0.845	0.088-8.14	-1.076 from mean
BILI.NQ	Connected	0.18	0.49	0.531	0.07-5.7	-0.584 from mean

Cur Range: Current last 5 minutes range

H. Avg: Historical 5 minutes average

H. Std: Historical 5 minutes range standard deviation

H. Range: range on Historical 5 minutes range



# Alert system - Extreme volume

Listener						
Tickers Manager All alerts High-Low Open-High Open-Low Extreme Range Extreme Volume First five minutes						
Ticker	Status	Cur Vol(k)	H. Avg(k)	H. Std(k)	H. Range	Evaluation
MSFT.NQ	Connected	426.41	183	156	45k-1557k	1.56 from mean
AAPL.NQ	Connected	1272.94	1180	944	286k-9104k	0.098 from mean
AMD.NQ	Connected	635.64	348	232	98k-1549k	1.24 from mean
BABA.NY	Connected	665.55	507	772	19k-5772k	0.205 from mean
TSLA.NQ	Connected	1200.91	341	252	42k-2230k	3.412 from mean
INTC.NQ	Connected	444.94	393	668	62k-8174k	0.078 from mean
MRNA.NQ	Connected	412.95	293	243	40k-2185k	0.494 from mean
BIDU.NQ	Connected	151.61	103	146	5k-996k	0.333 from mean
LI.NQ	Connected	748.22	196	191	28k-1509k	2.891 from mean
WDC.NQ	Connected	128.95	51	71	3k-644k	1.098 from mean
CSCO.NQ	Connected	259.61	122	113	28k-1281k	1.218 from mean
DKNG.NQ	Connected	266.77	138	112	23k-1200k	1.15 from mean

Cur Vol: Current last 5 minutes volume. (unit is thousand)

H.Avg: Historical 5 minutes average volume

H.Std: Historical 5 minutes volume standard deviation

H.Range: range on Historical 5 minutes range

# Alert system - First five minutes (opening 9:30-9:35)

Listener											
<a href="#">Tickers Manager</a> <a href="#">All alerts</a> <a href="#">High-Low</a> <a href="#">Open-High</a> <a href="#">Open-Low</a> <a href="#">Extreme Range</a> <a href="#">Extreme Volume</a> <a href="#">First five minutes</a> <a href="#">Breakout</a>											
Ticker	Status	Cur Range	H. Avg	H. Std	H. Range	Cur Vol	H.Vol Avg	H.Vol Std	H.Vol Range	Evaluation:Range	Evaluation:Volume
MSFT.NQ	Connected	2.375	1.08	0.422	0.604-1.86	454.03	738	289	471k-1398k	3.069 from mean	-0.983 from mean
AAPL.NQ	Connected	1.16	1.191	0.3	0.89-1.67	1731.59	4773	1992	2423k-9104k	-0.103 from mean	-1.527 from mean
AMD.NQ	Connected	0.81	0.994	0.227	0.78-1.37	754.78	1171	204	888k-1473k	-0.811 from mean	-2.04 from mean
BABA.NY	Connected	2.445	2.995	1.119	1.81-4.642	998.7	2222	1790	520k-5772k	-0.492 from mean	-0.683 from mean
TSLA.NQ	Connected	10.465	7.486	1.194	5.97-10.13	1260.62	1195	488	528k-2230k	2.495 from mean	0.134 from mean
INTC.NQ	Connected	0.24	0.371	0.159	0.188-0.69	491.15	1193	802	615k-3123k	-0.824 from mean	-0.875 from mean
MRNA.NQ	Connected	2.64	4.35	1.181	2.53-6.09	471.48	1226	549	669k-2185k	-1.448 from mean	-1.374 from mean
BIDU.NQ	Connected	3.49	4.42	1.725	2.632-8.14	278.92	425	288	158k-996k	-0.539 from mean	-0.507 from mean
LI.NQ	Connected	0.38	0.696	0.169	0.48-0.92	974.99	697	55	617k-778k	-1.87 from mean	5.054 from mean
WDC.NQ	Connected	0.765	0.644	0.221	0.385-1.02	219.48	101	45	32k-183k	0.548 from mean	2.633 from mean
CSCO.NQ	Connected	0.22	0.257	0.083	0.12-0.39	259.4	500	171	293k-818k	-0.446 from mean	-1.407 from mean
DKNG.NQ	Connected	0.555	0.9	0.357	0.526-1.69	309.35	395	160	196k-748k	-0.966 from mean	-0.535 from mean
FB.NQ	Connected	1.875	1.865	0.39	1.31-2.475	170.53	373	121	222k-564k	0.026 from mean	-1.673 from mean
UAL.NQ	Connected	0.845	0.693	0.211	0.46-1.06	411.89	599	319	295k-1298k	0.72 from mean	-0.587 from mean
PDD.NQ	Connected	3.23	4.551	1.112	2.16-6.38	180.63	420	131	208k-618k	-1.188 from mean	-1.827 from mean
ZNGA.NQ	Connected	0.06	0.112	0.027	0.077-0.15	275.19	454	174	239k-801k	-1.926 from mean	-1.028 from mean
SIRI.NQ	Connected	0.07	0.038	0.016	0.02-0.075	554.43	325	116	154k-528k	2.0 from mean	1.978 from mean

Cur Range/ Cur vol: opening 5 minutes range /vol

H.Avg: Past 10 days average opening 5 minutes range/vol

H.Std: Past 10 days opening 5 minutes range/vol standard deviation

H.Range Past 10 days range on opening 5 minutes range/vol

# Alert system - breakout

Listener					
Tickers Manager All alerts High-Low Open-High Open-Low Extreme Range Extreme Volume First five minutes Breakout					
Ticker	Status	Support	Resistance	Cur Price	Evaluation
MSFT.NQ	Connected	218	220	219.95	
AAPL.NQ	Connected	132	132.5	131.8	Support breakout
AMD.NQ	Connected	93	94.5	94.505	Resistance breakout
BABA.NY	Connected	228	230	228.96	
TSLA.NQ	Connected	730	740	739.565	
BIDU.NQ	Connected	0.0	0.0	225.7	

- Current stage require manually input support/resistance level.
- Upon breaching the level, an alert is generated.
- Future version auto support-resistance recognition will be added.