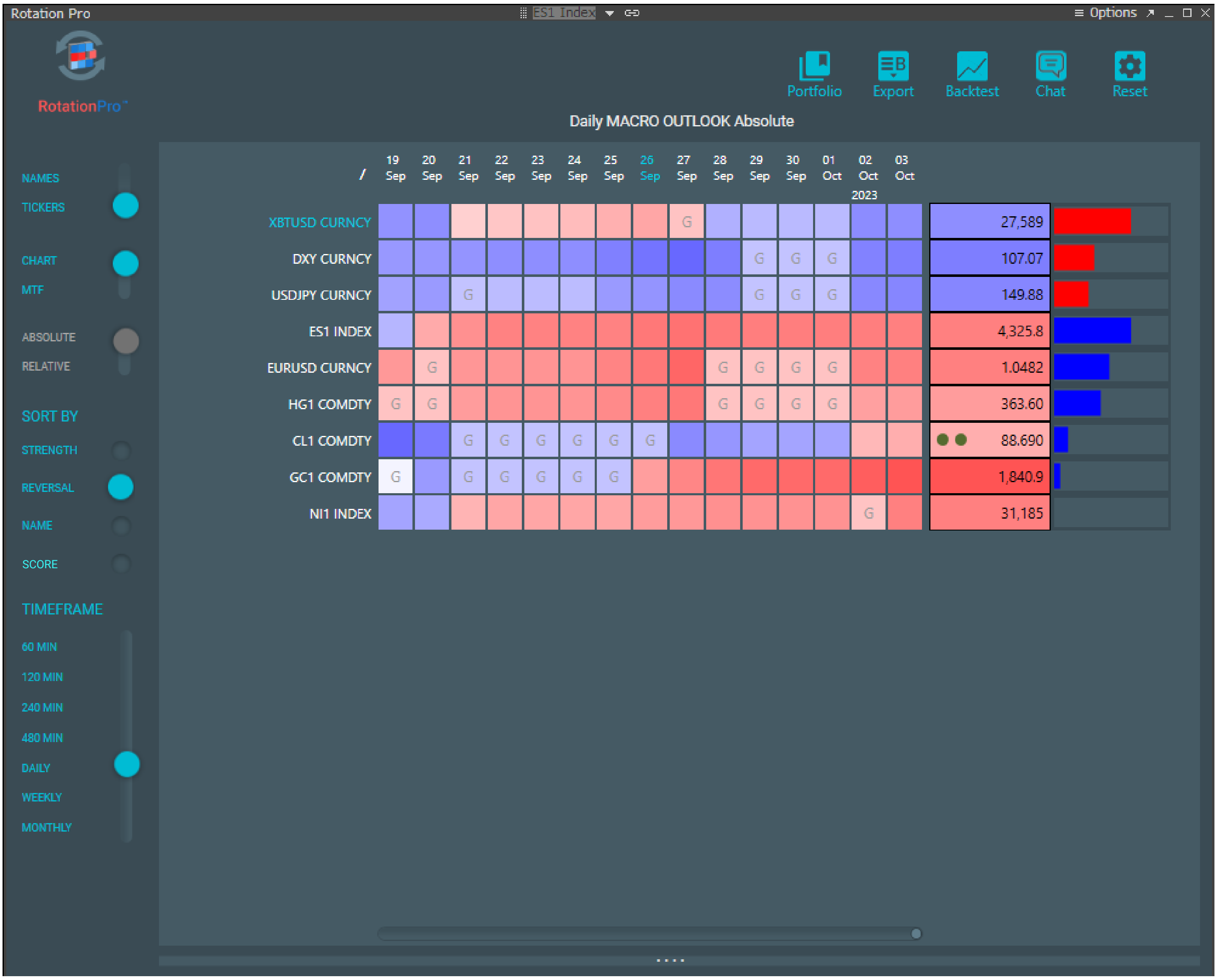
Dynamic heatmaps

The RPRO heatmap lets you scan the trend status of multiple instruments on any timeframe at a glance. It also lets you see how a trend has been developing over time for context. This is useful for changes in trend power and exhaustion set ups.

It uses blue for uptrends and red for downtrends. Darker colour tones mean more trend power (momentum) in the direction of the colour. Lighter colour tones mean trend power is weakening. Pale cells with a light G mean range bound.

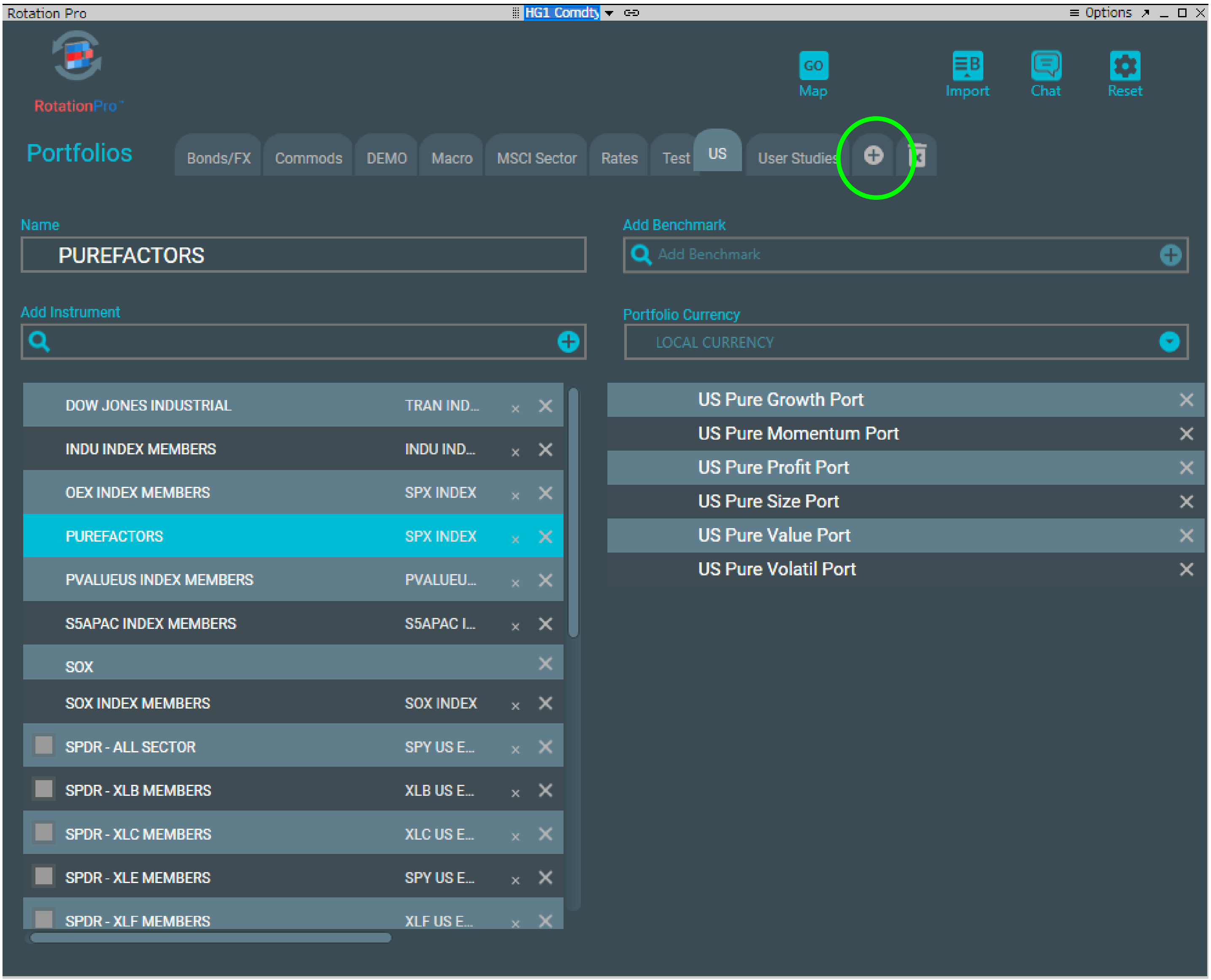


Portfolio page - new tab

1. **Creating a new tab**
   The Portfolio icon in the top toolbar (circled in yellow on the previous page) accesses list management. To create a new tab to store your lists, click the plus button.

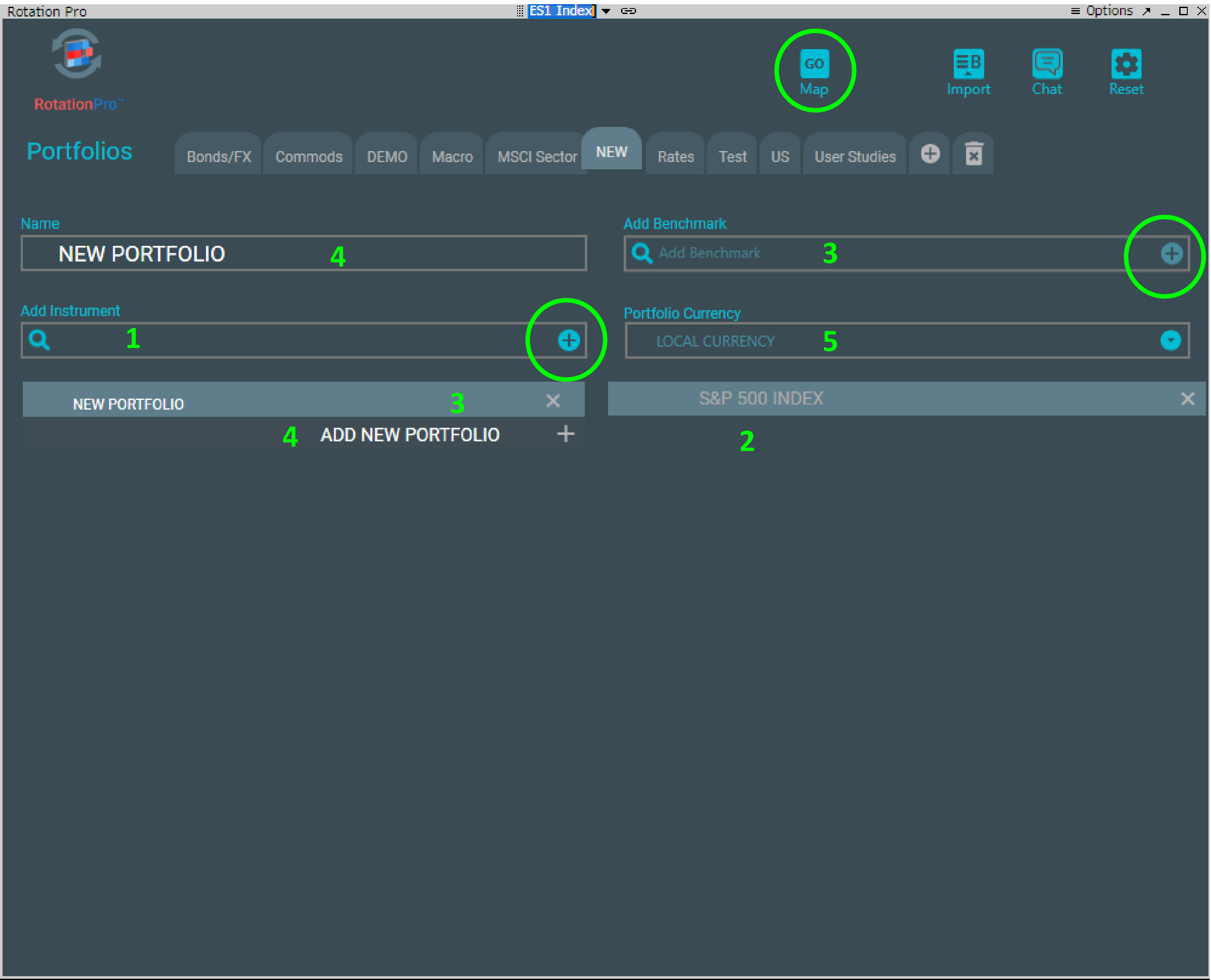
2. A new tab will appear called 'New Tab'. Rename to suit by overwriting and then Enter to save.

3. To delete a tab click the x within the bin icon and then delete using x again in the 'are you sure' dropdown that appears.



Creating a new list

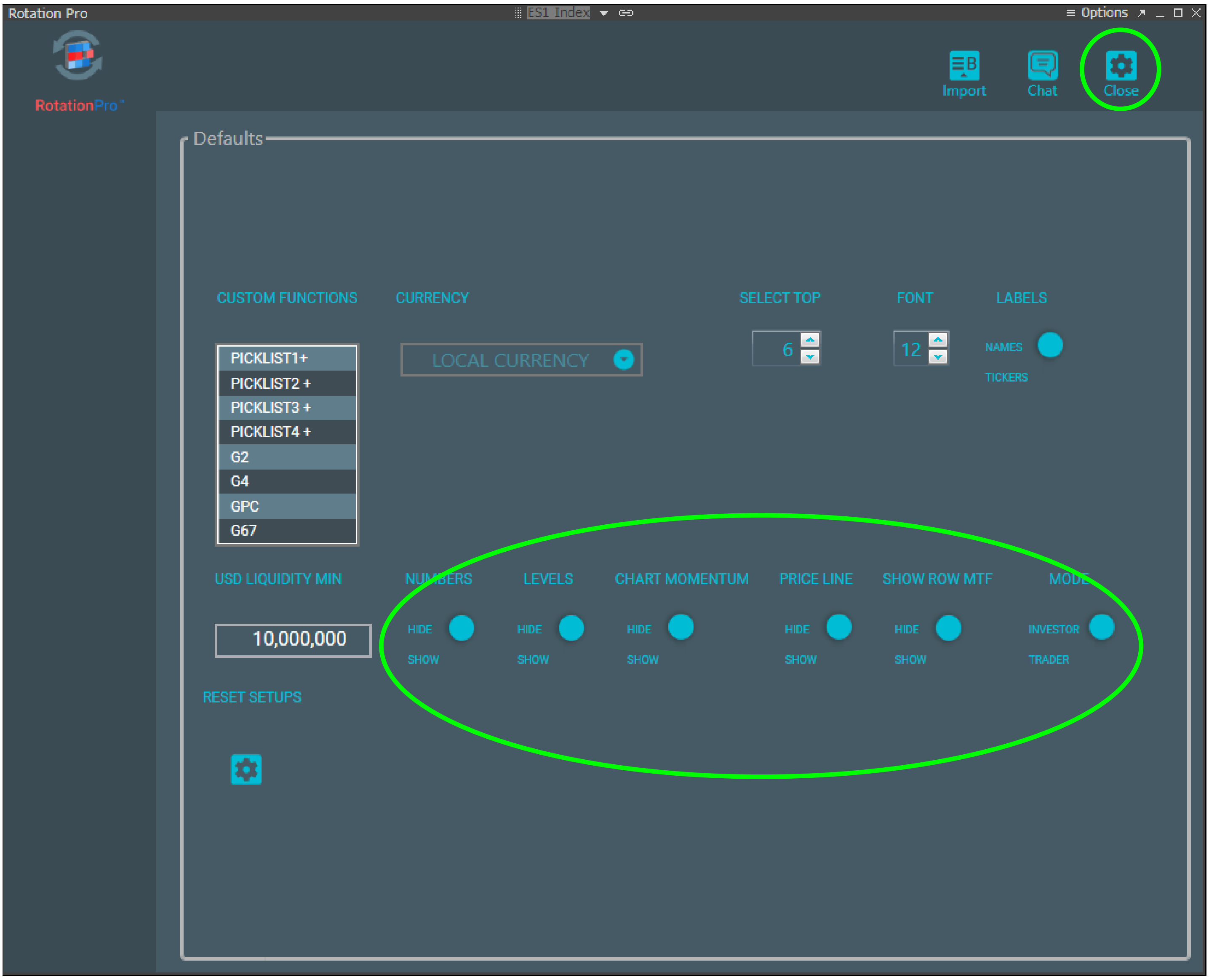
1. In the Add Instrument textbox start typing the instrument's name or ticker. Choose from the dropdown list and click the plus sign.
2. The instrument will appear in the right panel (here SPX Index was selected).
3. To add a benchmark repeat the process for add instrument, but in this textbox instead.
4. Rename NEW PORTFOLIO by overwriting in the Name textbox above. Create a new list using ADD NEW PORTFOLIO plus button.
5. Hit Map icon in the top toolbar to run the heatmap.



Reset page - settings

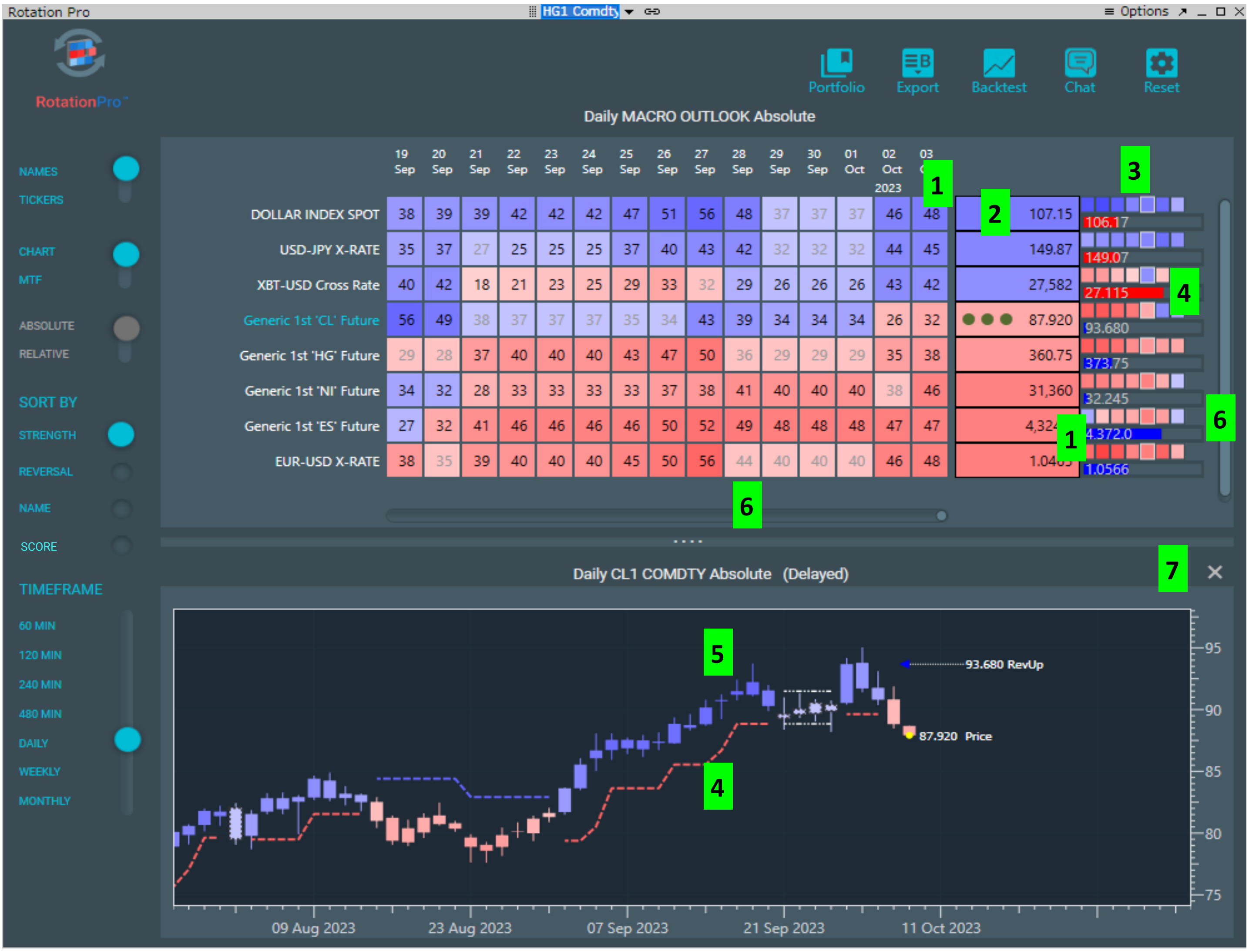
You can choose different settings for the heatmap view in the Reset page.

Experiment with what suits you best. Close to go back to the heatmap.



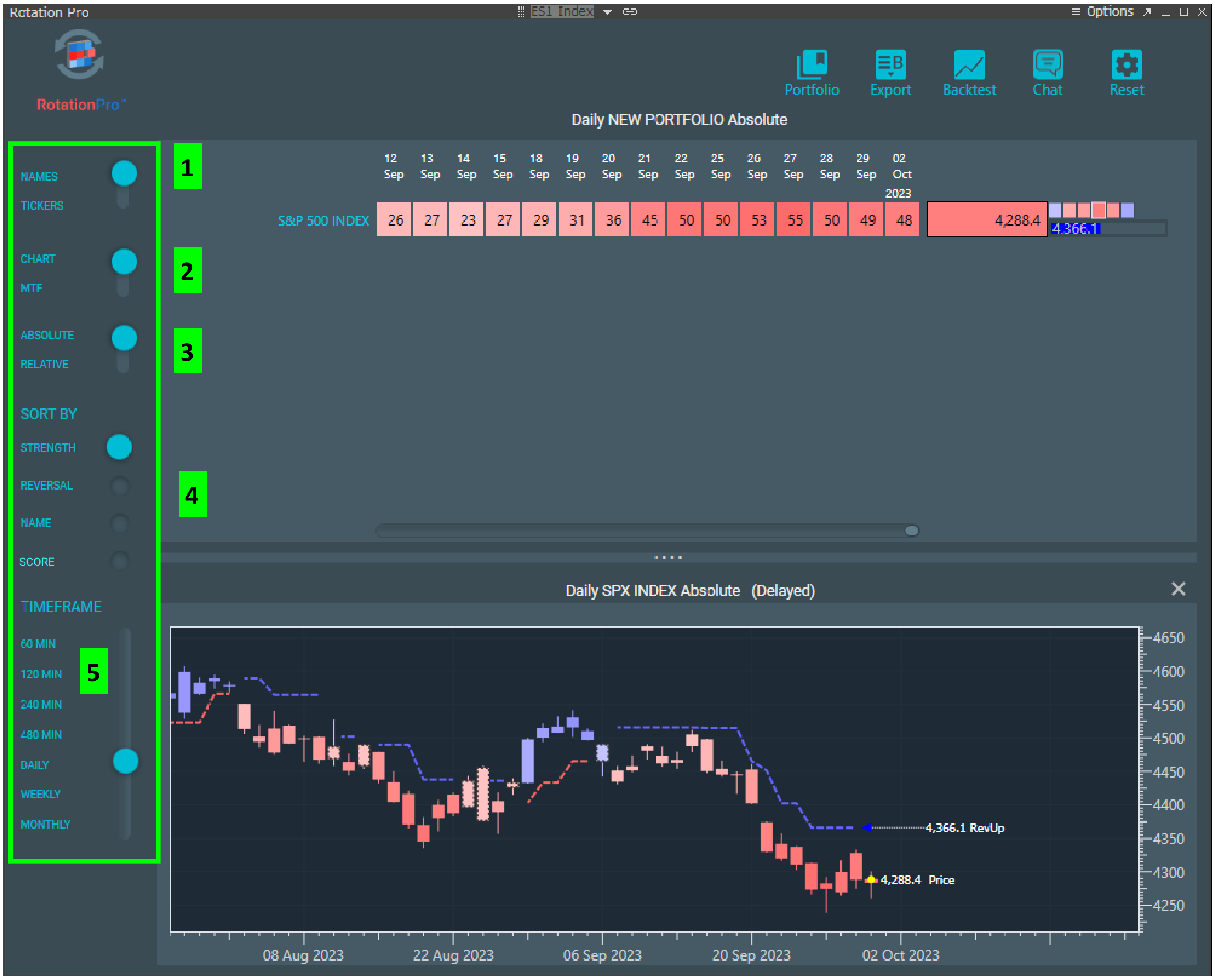
More heatmap displays

1. Momentum values are shown in the heatmap cells and correspond to colour strength. Higher numbers mean more trend power and vice versa. Greyed out numbers in pale red or blue cells indicated non-trend ranges.
2. The rectangle to the right of the heatmap is the same colour as the cell at the last date and contains current price as well as signal strength dots where appropriate.
3. The coloured grid furthest to the right shows trend strength and direction on other timeframes - from very short to very long.
4. The red or blue progress bar indicates how close price is to the colour change reversal level (4 on the chart). Full means close to reversal, empty the opposite.
5. The chart candles colours correspond to the heatmap at each date/time.
6. Scroll bars allow you to move up and down the list or back in time.
7. Hit the x in the top right of the chart sub-window to remove it.



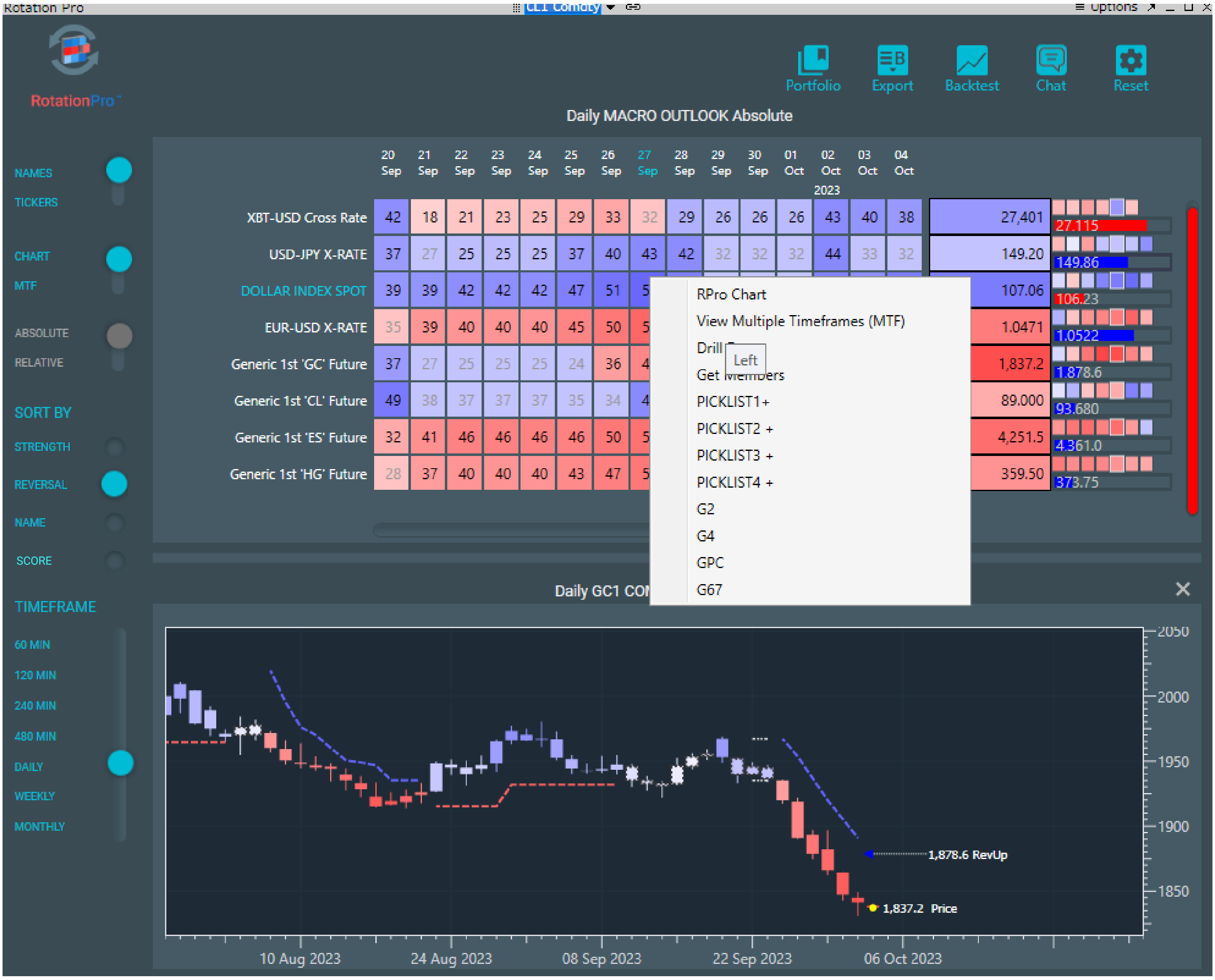
Left toolbar - manipulating heatmap functionality

1. You can display tickers or names.
2. Toggled to chart you can left click row by row on any heatmap cell and display the chart. Set to MTF (multi timeframe window) you can do the same for this function, which we will come to shortly.
3. View absolute or relative data. To see relative you must first set the benchmark in portfolio view.
4. Sort a list by strength (strongest blue at top to strongest red at bottom); Reversal (proximity to colour change); Name (alphabetically); Score (signal strength).
5. Choose timeframe from daily to monthly in investor mode on Reset page, or 5 minute to daily in trader mode.



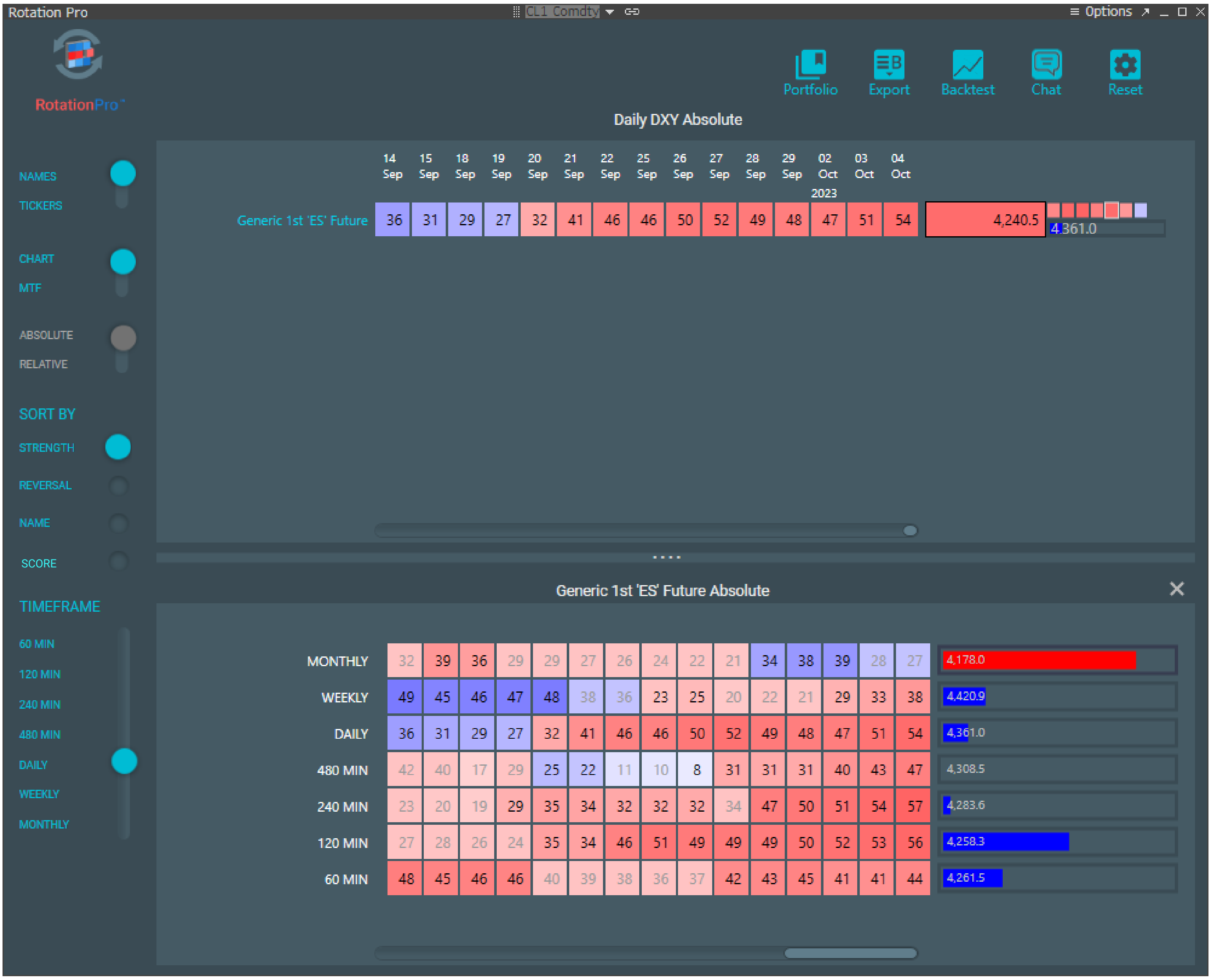
Heatmap right click - drilling down into additional features

You have access to additional functionality by right clicking any cell in the heatmap and revealing a dropdown menu.

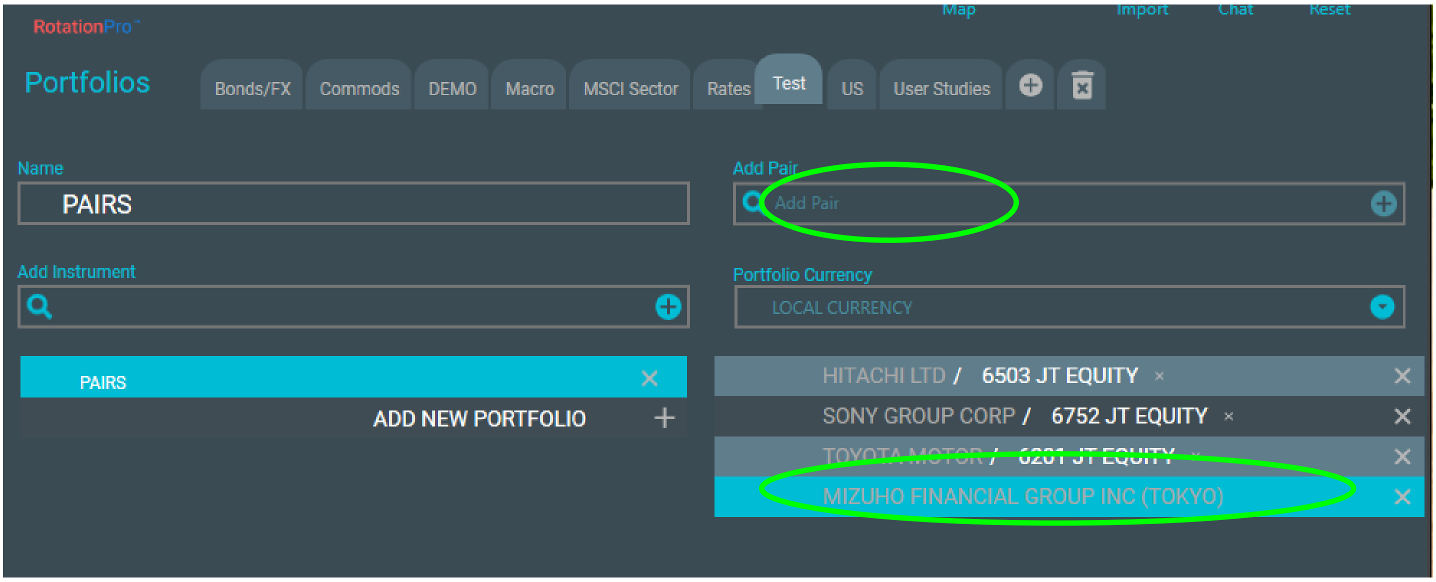


Multi timeframe sub-window

1. We look at the heatmap status of different timeframes to see what's going on above or below our target timeframe.
2. Right click a cell on the heatmap and select View Multi timeframes (MTF) in a sub window.
3. If you left click on a timeframe row a chart will be generated above. Click X top right of sub-window to exit.
4. A snapshot of the MTF at the last date to the right of the heatmap rows. 60 minute to monthly left to right.

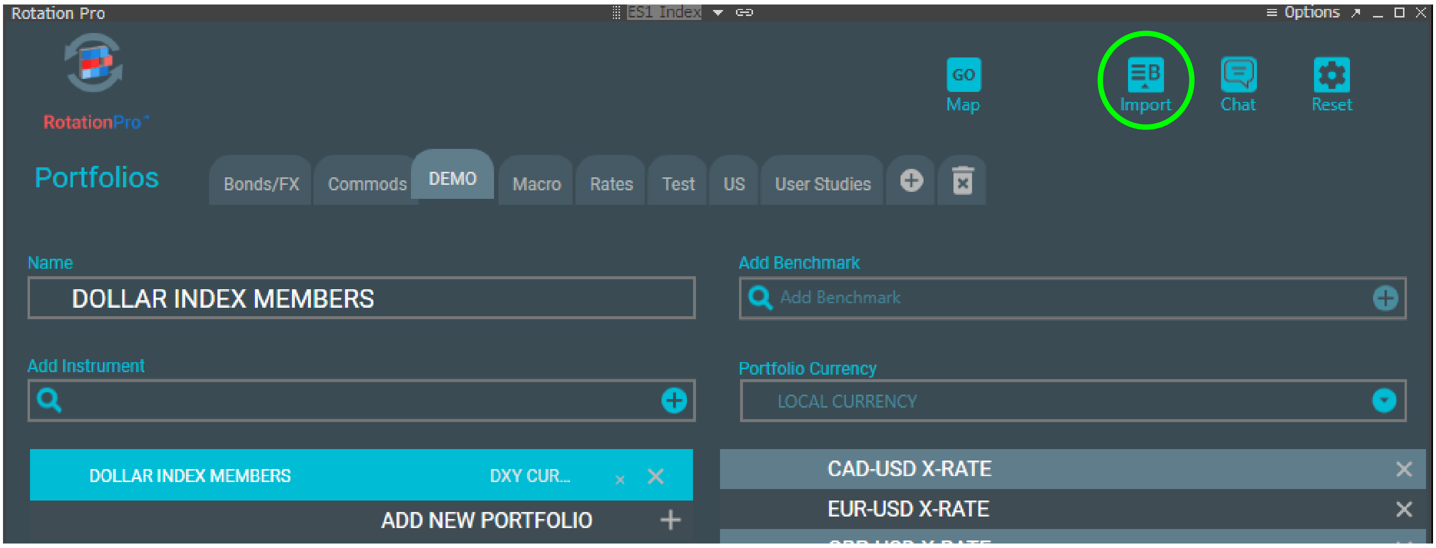


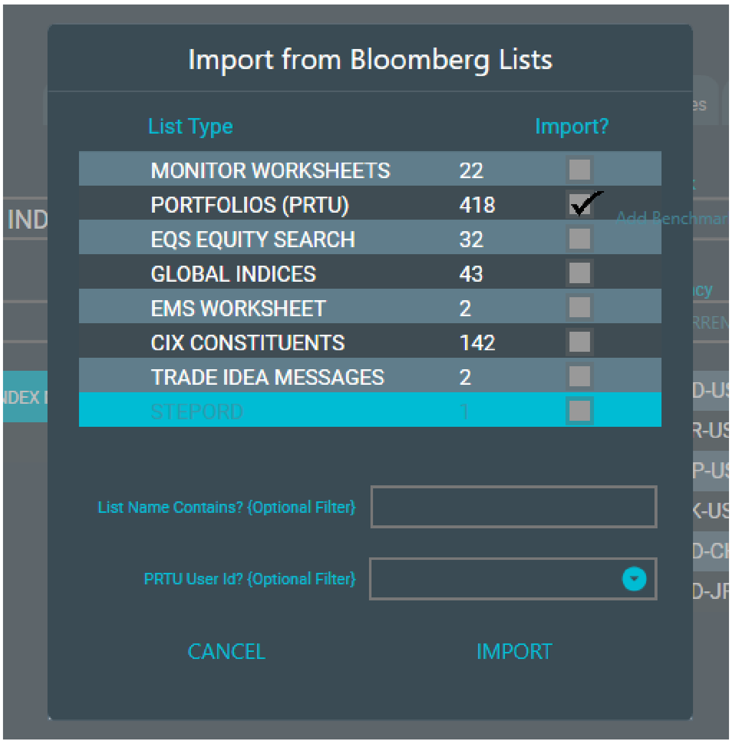
1. **Pairs**
   In the same way as you can create relative heatmaps you can also manually build lists of pairs.
2. Go to the portfolio page and enter the numerator of the pair. Left click and Change Benchmark becomes Add Pair.
3. Type in the denominator and pick from the dropdown menu and hit plus.



Importing lists

As an alternative to manually creating lists you can import existing lists from Bloomberg. Left click Import in the top toolbar in portfolio page.





- Tick the box of the location of the list PRTU, EQS, BLP monitors and so on.

-If you have hundreds of lists in each category you can zero in by typing a clue in the List name contains text-box.

- Hit Import and the list ready for heatmapping will appear in a new Imported tab in the portfolio page.

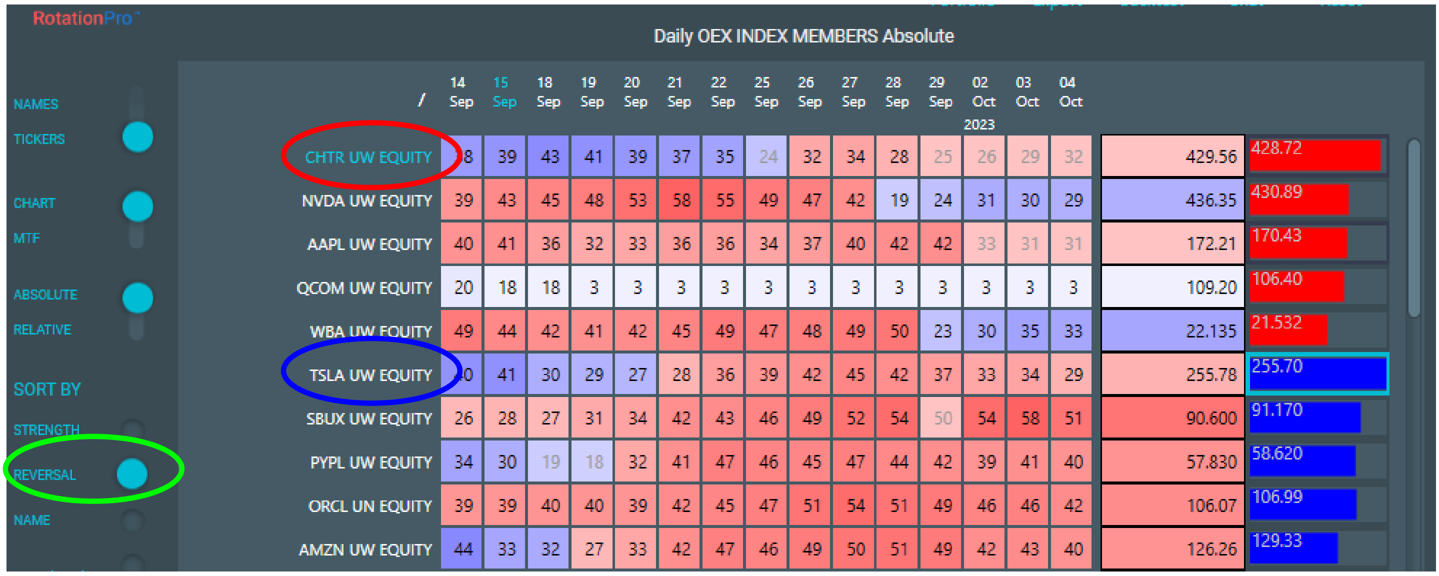
1. **Reversal lines**
   The red and blue progress bars to the far right of the heatmap graphically represent how close a colour change "reversal" is. The snapshot mini MTFs are hidden for clarity here (you can toggle to this in the Rest page under SHOW ROW MTF) .

2. RPRO knows the distance to colour change reversal at any given time. The delta between price and the reversal line on the chart is represented by the fullness of the progress bar on the heatmap page.

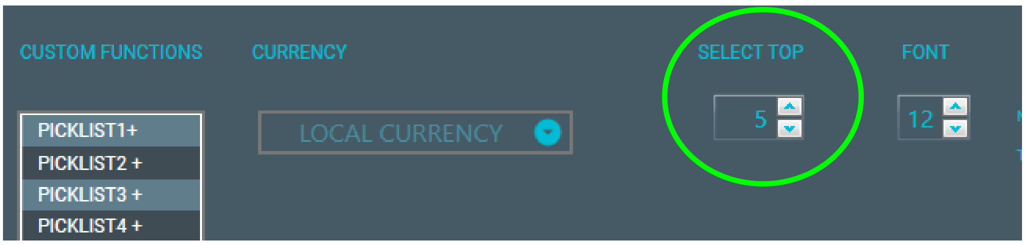
3. If the progress bar is full red then the reversal or risk line is near and below price. If the progress bar is full blue then the risk line is near and above price. The former suggests an upside resolution and the latter a downside resolution.

4. If the progress bar is empty or more or less so, then the risk level is distant and less important to know about.

5. If there is a blue or white frame around the progress bar, then price is passing through the reversal line in real time.



The list above is sorted by Reversal in the left toolbar. It shows the top five fullest red progress bars and then the top five fullest blue. You can set this number in the Reset page. The number should be around 10% of the list length, e.g. 100 names and Select Top would be 10.

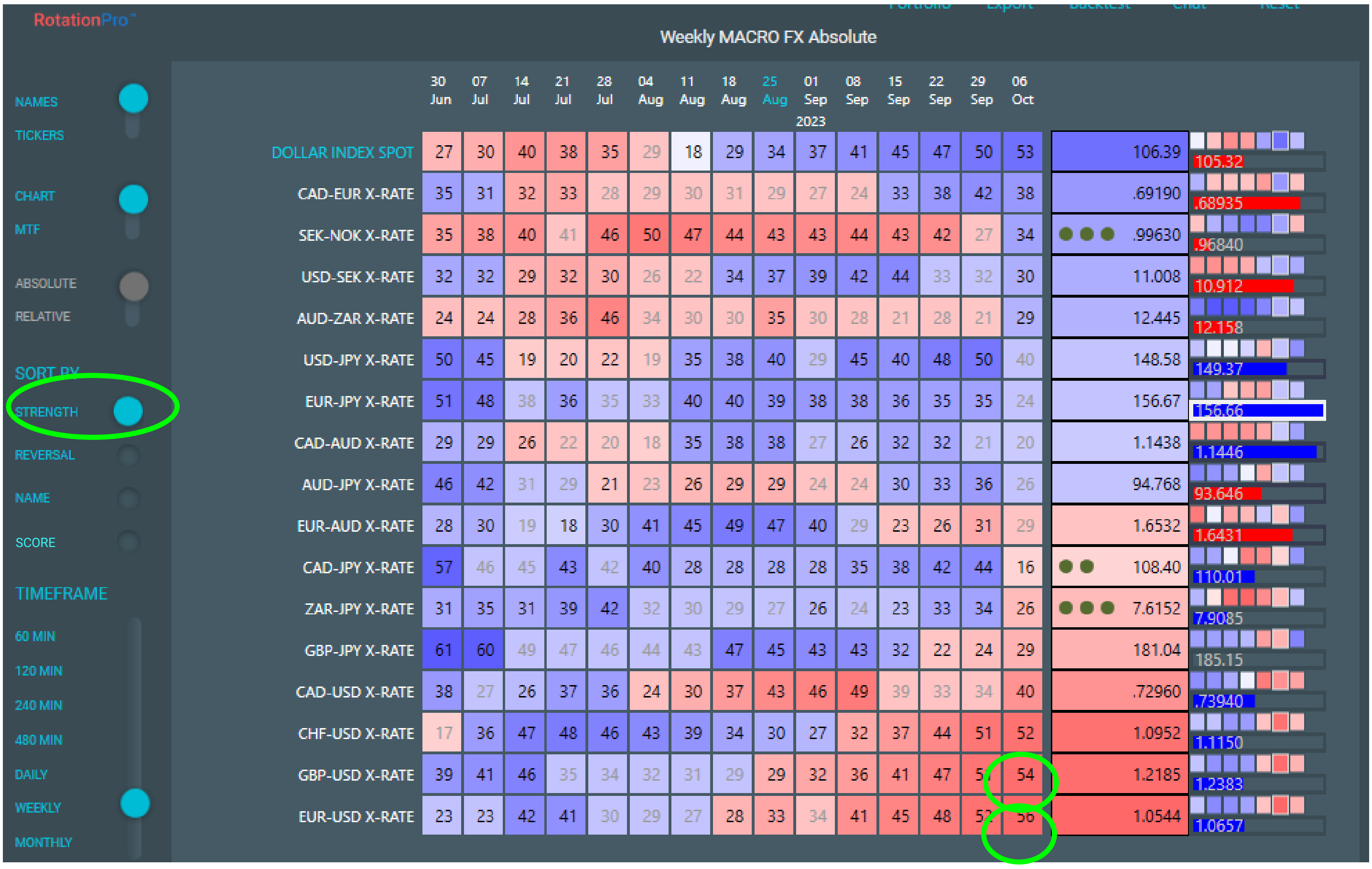


Scanning - by Strength

- Faced with a long list heatmap for the first time can be intimidating, but there several ways to quickly extract the names you need to focus on.

- The first pass is to ***Sort by Strength*** and run your eye down the right edge of the heatmap. Start with blues and then move on the reds. You are looking for names that show:

1. At the last date colour changes - has anything just put in an RPRO reversal signal on the timeframe of interest?
2. Build up in trend power - is anything accelerating?
3. Fade out in trend power- is anything decelerating?
4. Drop off in extremely high numbers - is anything shifting out of an overbought or oversold condition?



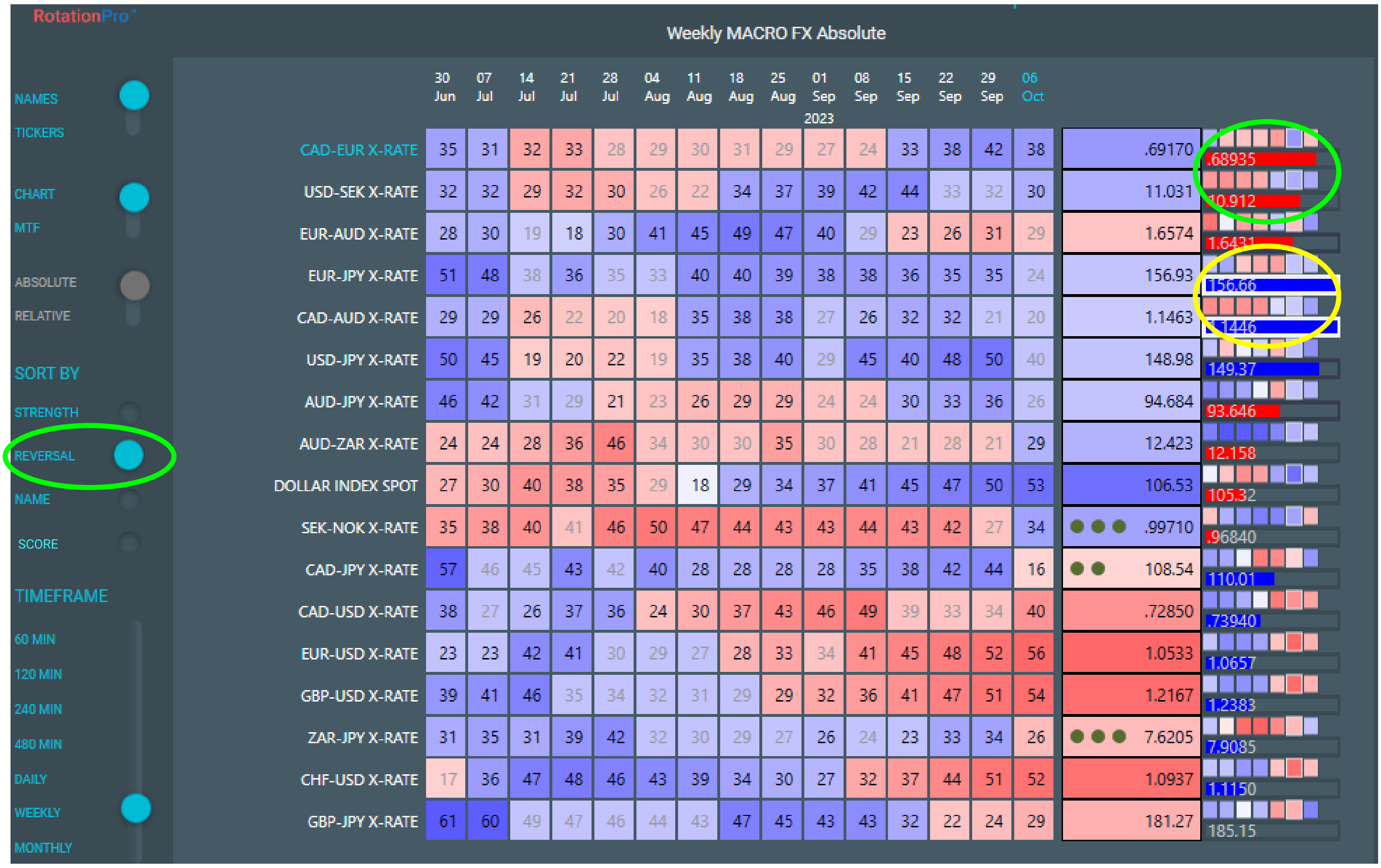
	30 Jun	07 Jul	14 Jul	21 Jul	28 Jul	04 Aug	11 Aug	18 Aug	25 Aug	01 Sep	08 Sep	15 Sep	22 Sep	29 Sep	06 Oct		
DOLLAR INDEX SPOT	27	30	40	38	35	29	18	29	34	37	41	45	47	50	53	106.39	105.32
CAD-EUR X-RATE	35	31	32	33	28	29	30	31	29	27	24	33	38	42	38	.69190	.68935
SEK-NOK X-RATE	35	38	40	41	46	50	47	44	43	43	44	43	42	27	34	.99630	.96840
USD-SEK X-RATE	32	32	29	32	30	26	22	34	37	39	42	44	33	32	30	11.008	10.912
AUD-ZAR X-RATE	24	24	28	36	46	34	30	30	35	30	28	21	28	21	29	12.445	12.158
USD-JPY X-RATE	50	45	19	20	22	19	35	38	40	29	45	40	48	50	40	148.58	149.37
EUR-JPY X-RATE	51	48	38	36	35	33	40	40	39	38	38	36	35	35	24	156.67	156.66
CAD-AUD X-RATE	29	29	26	22	20	18	35	38	38	27	26	32	32	21	20	1.1438	1.1446
AUD-JPY X-RATE	46	42	31	29	21	23	26	29	29	24	24	30	33	36	26	94.768	93.646
EUR-AUD X-RATE	28	30	19	18	30	41	45	49	47	40	29	23	26	31	29	1.6532	1.6431
CAD-JPY X-RATE	57	46	45	43	42	40	28	28	28	28	35	38	42	44	16	108.40	110.01
ZAR-JPY X-RATE	31	35	31	39	42	32	30	29	27	26	24	23	33	34	26	7.6152	7.9085
GBP-JPY X-RATE	61	60	49	47	46	44	43	47	45	43	43	32	22	24	29	181.04	185.15
CAD-USD X-RATE	38	27	26	37	36	24	30	37	43	46	49	39	33	34	40	.72960	.73940
CHF-USD X-RATE	17	36	47	48	46	43	39	34	30	27	32	37	44	51	52	1.0952	1.1150
GBP-USD X-RATE	39	41	46	35	34	32	31	29	29	32	36	41	47	[illegible]	54	1.2185	1.2383
EUR-USD X-RATE	23	23	42	41	30	29	27	28	33	34	41	45	48	52	56	1.0544	1.0657

Scanning - by Reversal

Having done the Sort by Strength scan as the first pass, we now focus on names closest to colour change reversal level.

Sort by Reversal and look at the fullest red progress bars and then the fullest blue progress bars. Full progress bars tell you how close price is to the reversal level. Remember, you can choose how many fullest progress bars show in order in the Reset page by changing the SELECT TOP value. The list below is set to 'show top three'.

So the scanning question is: at the last date is anything very close to reversal?



Scanning - Signal Dots

Signal dots appear in the price box when more favourable conditions than a simple red to blue / blue to red colour change are satisfied. Essentially they represent more conviction up to a maximum of three dots. Toggle to ***Score*** in left toolbar.

The scoring system looks across multiple factors including: the RPRO performance expectancy of the asset; that same metric ranked against its peers; whether it is emerging from overbought/oversold conditions; recent momentum signature and recent price action; current price action; RPRO trend status of target timeframe as well as status above and below and so on.