Subject: (RESOLVED) Line drawn across Null values
Posted by Maginor on Wed, 15 Mar 2023 12:54:21 GMT
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Edit: This is resolved in an upcoming version.

Hi,
It used to be so that if a line plot has a Null data value in it, it would have a gap at that value.
Now this has been changed so that it draws a line from the last valid value to the next one.

If this change is intentional, I would prefer it to be configurable so that I can still get the old behaviour.

Edit:
Digging into it a bit, I found that this change is caused by the new
DataAddPoints
function which extracts the points from the data source into a Vector<Point>. It has been coded so that it just skips values where !IsNum(yy).

I guess this is a nice optimization unless you actually want it to have holes at Null values, which was how it worked before intentionally.
Unfortunately, I am not able to fix it just by removing the condition IsNum(yy), because it produces an incorrect plot, so I am not entirely sure what is going on.

Subject: Re: (RESOLVED) Line drawn across Null values
Posted by koldo on Sun, 19 Mar 2023 11:43:27 GMT
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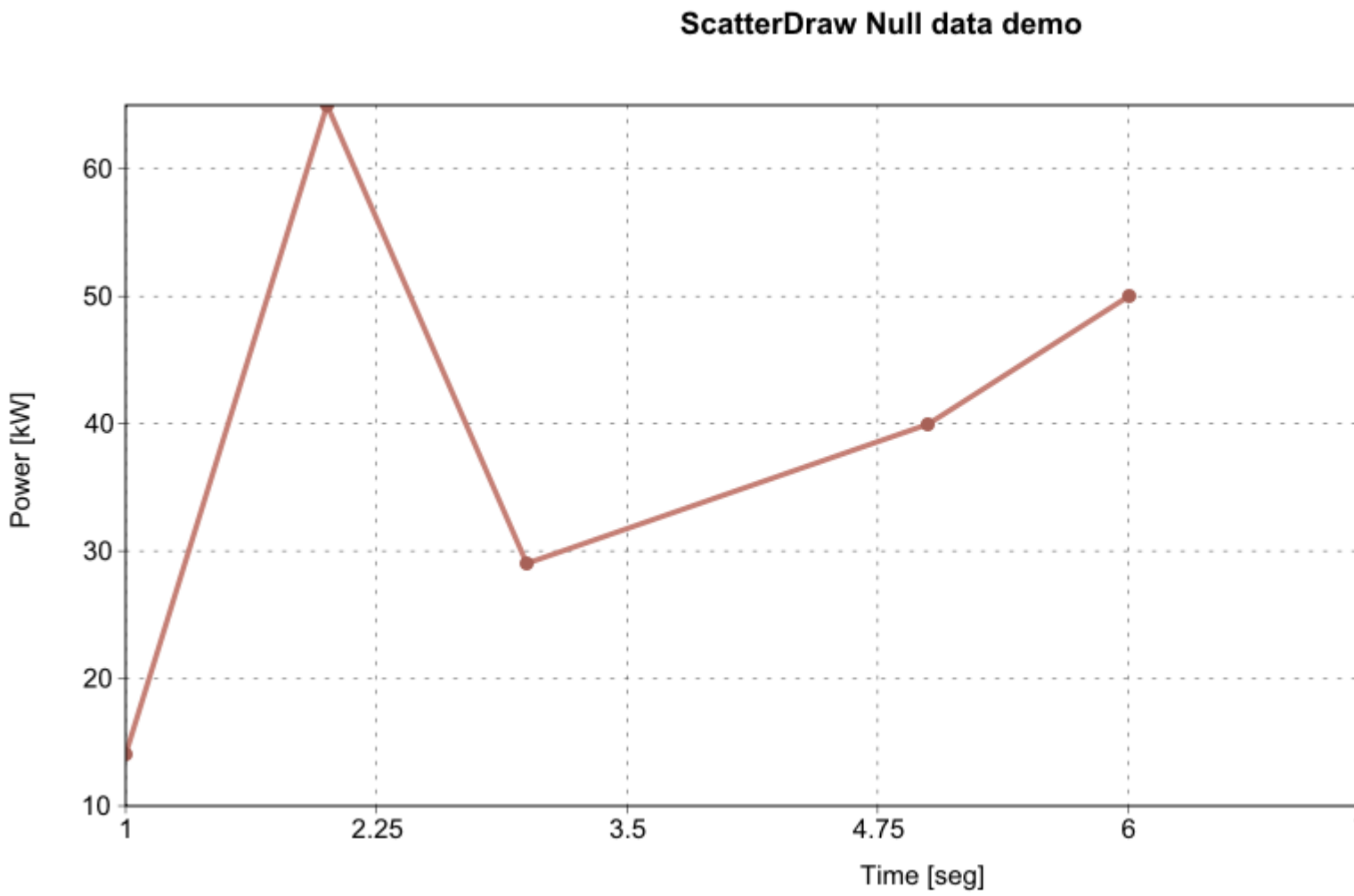
I am not totally sure about the best behaviour. If you run ScatterDraw_demo_cl, you will get from this vector

s1 = {{1,14}, {2,65}, {3,29}, {Null,Null}, {5,40}, {6,50}, {7,Null}, {8,25}, {9,10}};
this plot

If x == y == Null, plot line jumps, but if just y == Null, a hole is created.

What would be the best behaviour?

File Attachments
1) Scatter null data.png, downloaded 718 times

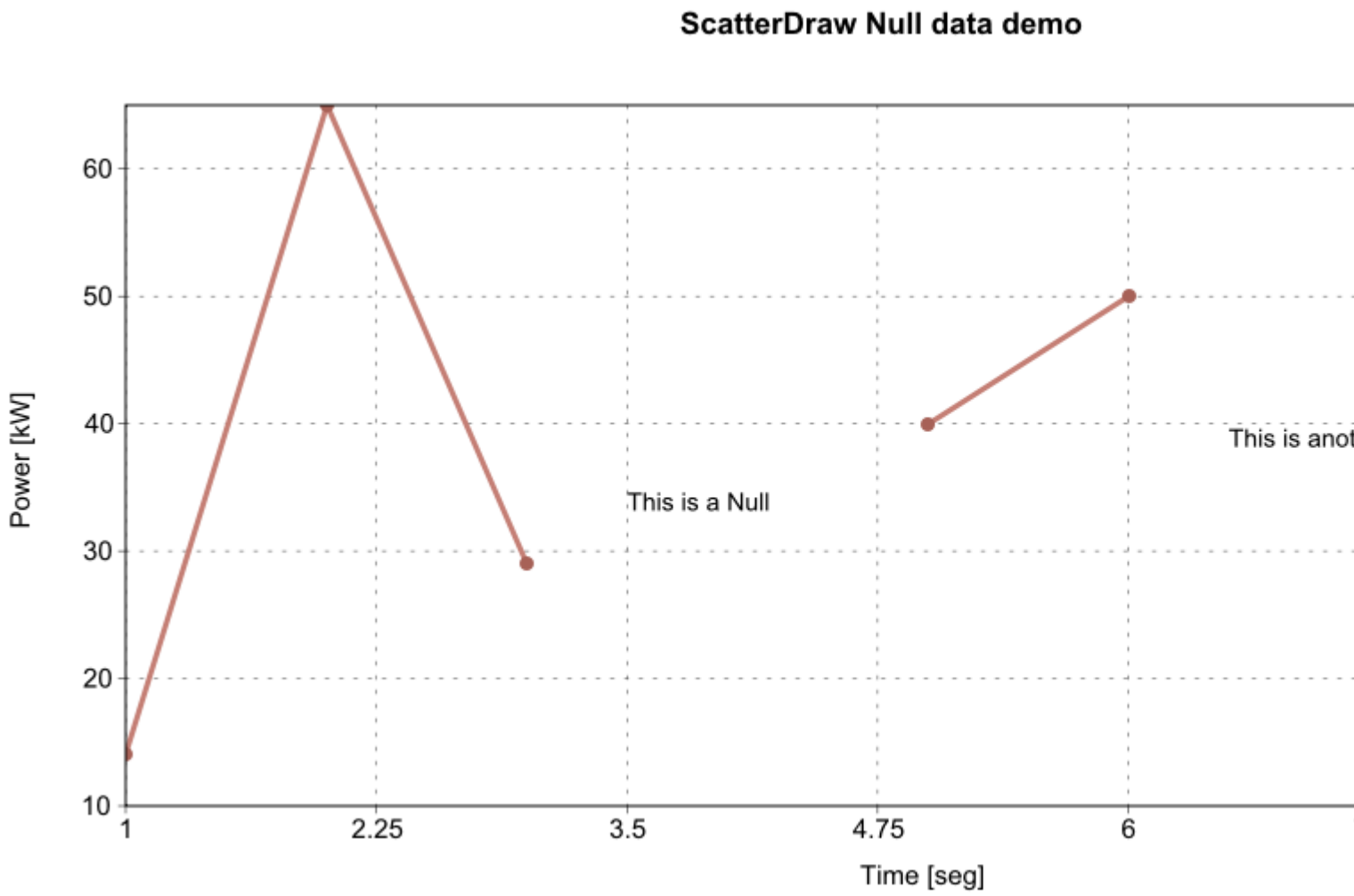


Subject: Re: (RESOLVED) Line drawn across Null values
Posted by koldo on Fri, 09 Jun 2023 20:44:41 GMT
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Well, probably if either x or y are Null, it is better the plot will have a hole.
A WhenPainter() is also added.

File Attachments

1) Scatter null data.png, downloaded 737 times


ScatterDraw Null data demo
Power [kW]
60
50
40
30
20
10
1
2.25
3.5
4.75
6
Time [seg]
This is a Null
This is anot