# Quadrant lines for scatterplots in Excel
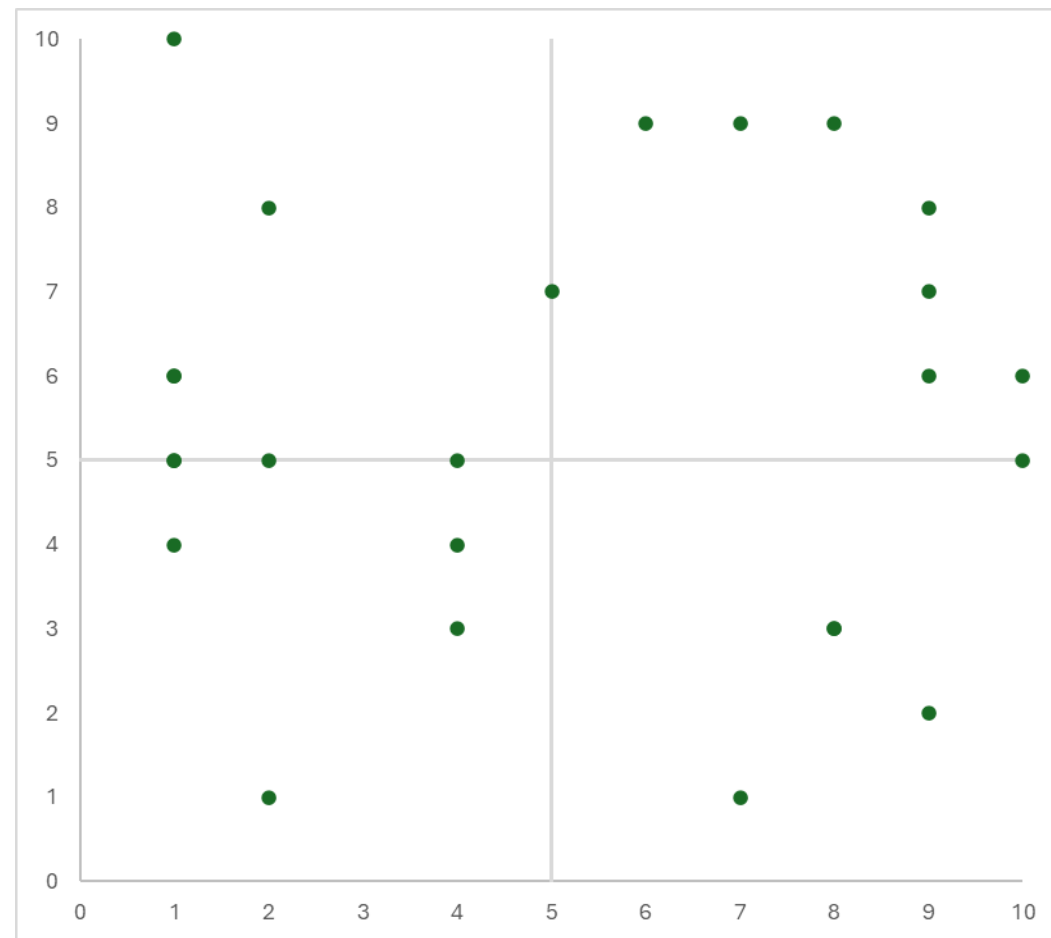


Owen Price – 2023-08-02

# chart.Quadrants calculates the coordinates of the quadrant lines

| C2 | fx | =chart.Quadrants(seriesData) |

|   | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 |   |   |   |   |   |
| 2 | 4 | 5 | Vertical Line | 5 | 0 |
| 3 | 1 | 10 |   | 5 | 10 |
| 4 | 9 | 6 | Horizontal Line | 0 | 5 |
| 5 | 4 | 4 |   | 10 | 5 |
| 6 | 9 | 8 |   |   |   |
| 7 | 8 | 9 |   |   |   |
| 8 | 10 | 6 |   |   |   |
| 9 | 10 | 5 |   |   |   |
| 10 | 4 | 3 |   |   |   |
| 11 | 7 | 9 |   |   |   |
| 12 | 1 | 5 |   |   |   |
| 13 | 7 | 1 |   |   |   |
| 14 | 8 | 3 |   |   |   |
| 15 | 9 | 2 |   |   |   |

**Each line is added as a series of type "Scatter with Straight lines"**
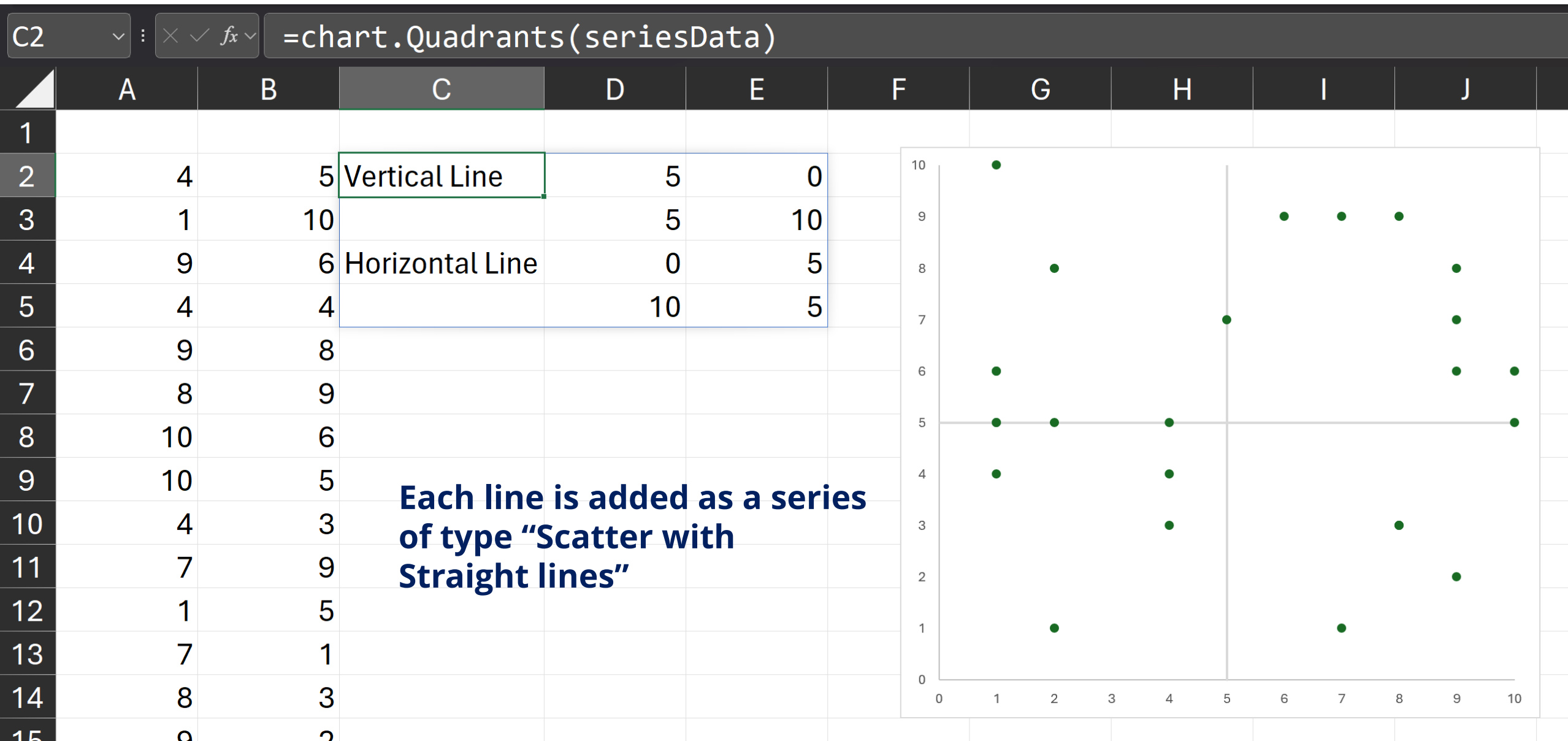
# chart.Quadrants calculates the coordinates of the quadrant lines

```
1    chart.Quadrants = LAMBDA(seriesData,
2        LET(
3            // The first column (x values)
4            x, TAKE(seriesData, , 1),
5            // The second column (y values)
6            y, TAKE(seriesData, , -1),
7
8            xMax, MAX(x),
9            yMax, MAX(y),
10
11           // Assuming we want lines as close to the "middle" as possible
12           xMid, INT(xMax / 2),
13           yMid, INT(yMax / 2),
14
15           // To make the use of HSTACK shorter - that's all!
16           H, LAMBDA(one, two, HSTACK(one, two)),
17
18           // Create the coordinates of the beginning and end of each line
19           H(
20               {"Vertical Line"; ""; "Horizontal Line"; ""},
21               VSTACK(H(xMid, 0), H(xMid, yMax), H(0, yMid), H(xMax, yMid))
22           )
23       )
24   )
```

Hi!
I'm Owen and I want to help you flex your data! 💪

I have 20 years' experience solving tricky data problems.

I have C-suite experience leading global data and programming teams for data products and a host of data-focused technologies in my toolkit (SQL, Python, Advanced Excel, R, Tableau, Power BI, Athena, Glue, Spark, RDS... to name a few).

Let's connect!

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