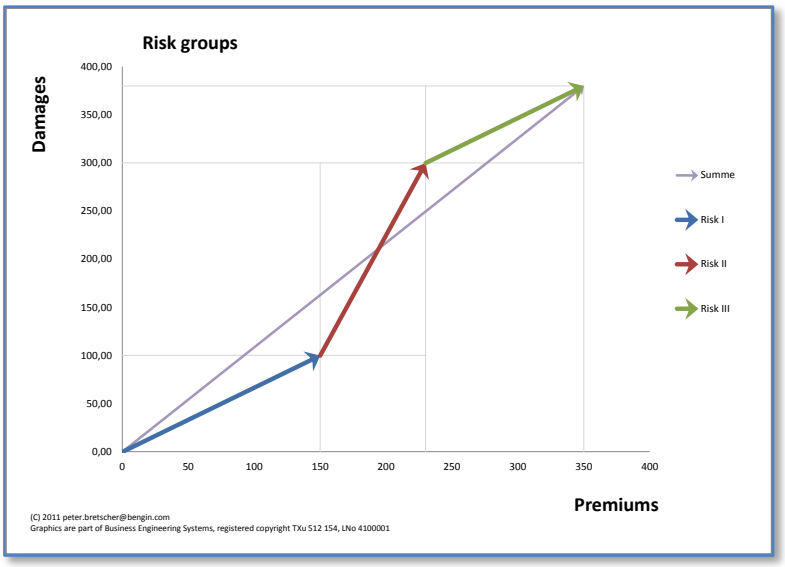
INSEDE Tools

Institute for Sustainable Economic Development

Visualizing Vectors in Excel 2010 (How to...)

Business Engineering V2.011



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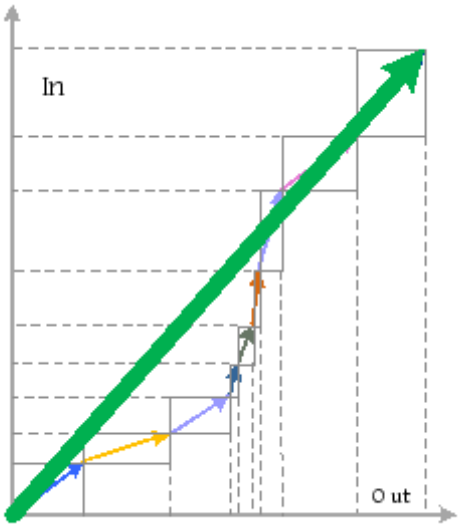

A simple Excel (German version) Working Paper is available at:
http://www.insede.org/permalink/selbermachen00_V0.9_d.xlsx

A more sophisticated version (with drill-downs) in English at:
http://www.insede.org/permalink/selbermachen01_V0.9_e.xlsx

The Excel was made in German language – the text in this paper is for the English Excel version.

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Instructions for creating vector Profiles with Excel

Example of three pairs of data

A Preparation of data for input and chart

1 Fields for data entry

Column E represents the number on the x-axis

Column F for the numbers on the y-axis

	A	B	C	D	E	F	G
1							
2					x	y	
3					2010	2010	
4		No		Risikogruppen	Prämien	Schäden	
5		A 1		Risiko I	150.00	100.00	
6		A 2		Risiko II	80.00	200.00	
7		A 3		Risiko III	120.00	80.00	
8							

2 fields for making chart

Column L is taken from column E

Column M is taken from column F

Columns N and O are the start and end values x_{start} and x_{end} of the vector on the x-axis

Column P and Q are the start and end values y_{start} and y_{end} of the vector on the y-axis

Column R is taken from column D and facilitates the acquisition of the coordinates in the chart.

	K	L	M	N	O	P	Q	R
1								
2								
3		2010	2010					
4		Delta-x	delta-y	x-start	x-end	y-start	y-end	
5		150.00	100.00	0	150.00	0	100.00	Risiko I
6		80.00	200.00	150.00	230.00	100.00	300.00	Risiko II
7		120.00	80.00	230.00	350.00	300.00	380.00	Risiko III
8								

	K	L	M	N	O	P	Q	R
1								
2								
3		=E3	=F3					
4		Delta-x	delta-y	x-start	x-end	y-start	y-end	
5		=E5	=F5	0	=N5+L5	0	=P5+M5	=D5
6		=E6	=F6	=O5	=N6+L6	=Q5	=P6+M6	=D6
7		=E7	=F7	=O6	=N7+L7	=Q6	=P7+M7	=D7
8								

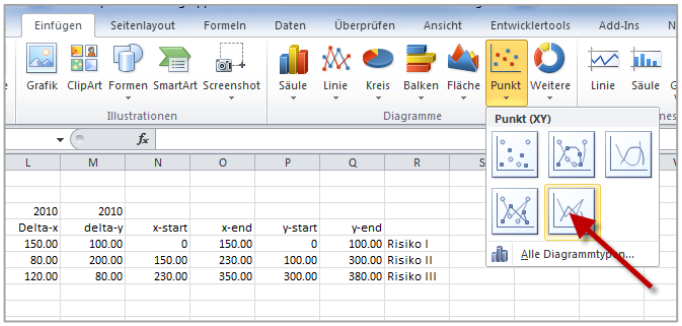
Hint: The data for chart input (L3:R7) can be set to the color "white".

So you have more options to place your chart beneath the fields for data entry.

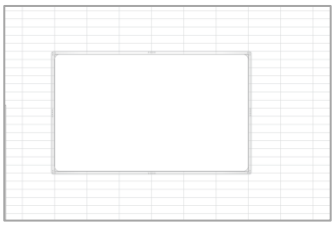
B Create vector

The procedure is shown with a first vector.
The other vectors are made in the same way.

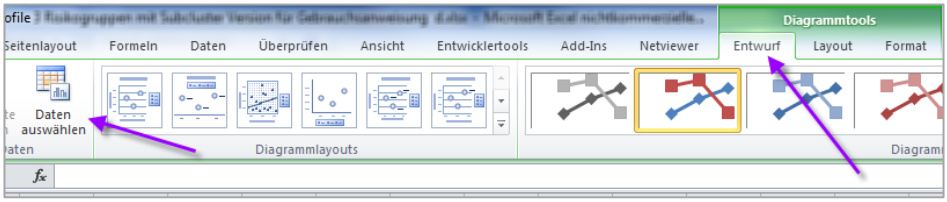
Insert point (XY) with straight lines



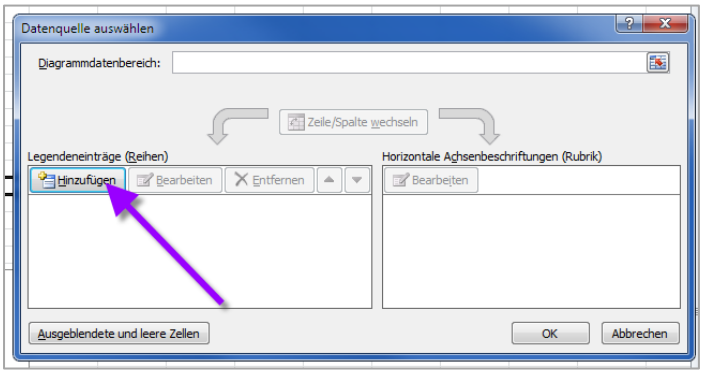
Result: Empty Chart



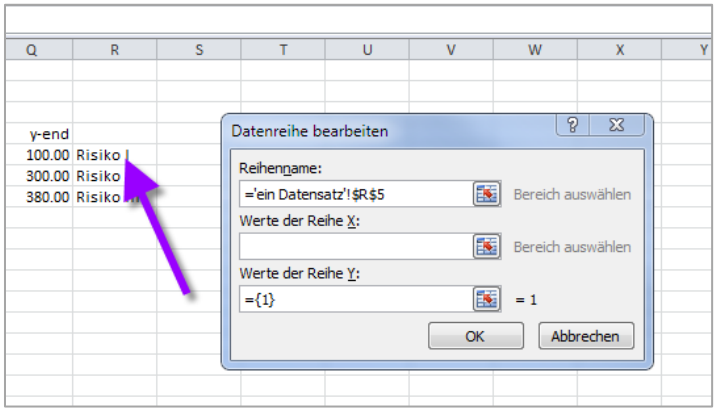
In design mode, select Data

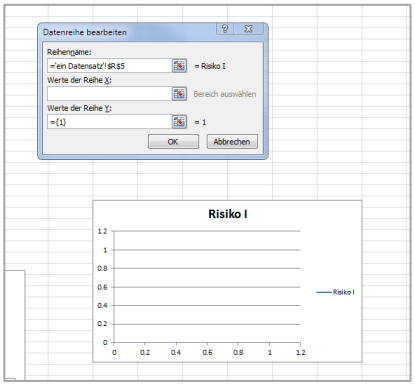


Add



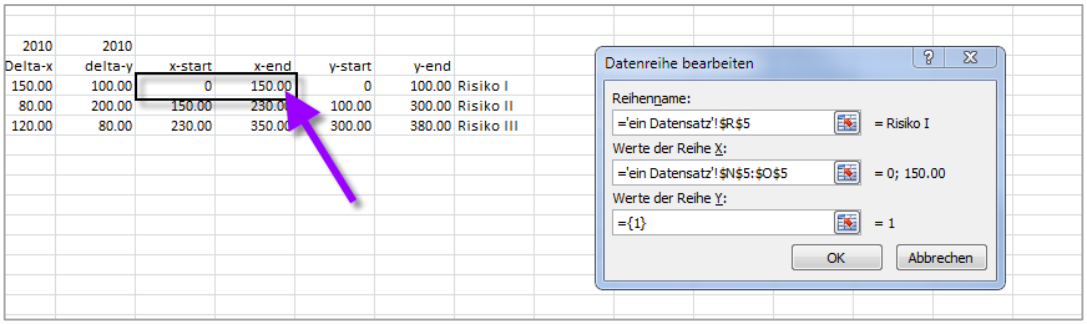
Click for series name to R5 (R5 contents of the cell is used as the series name; Risiko = Risk)



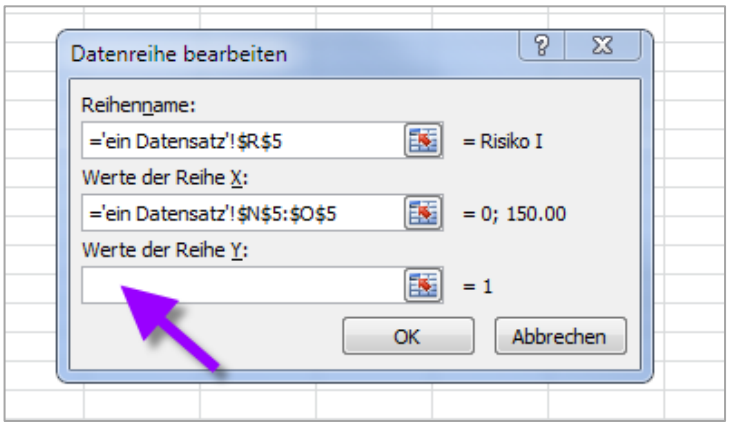


In the next step, start and end values of the x-axis are inserted.

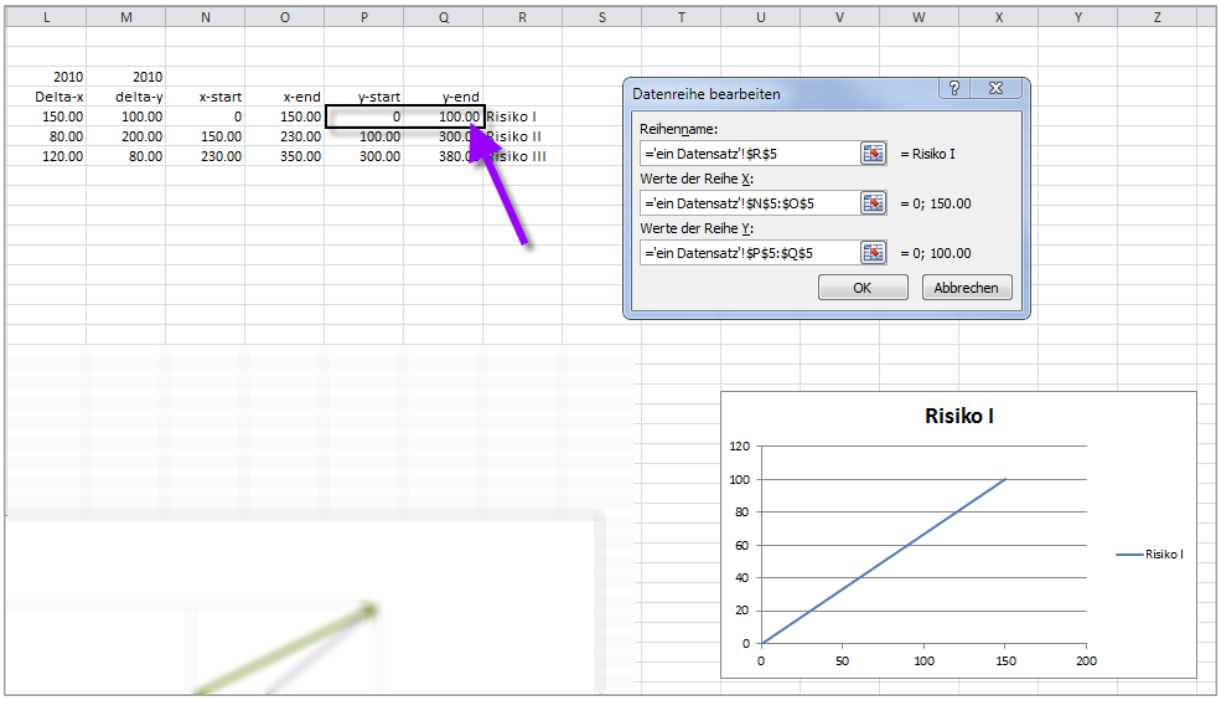
Insert N5:O5 into the “Series X values”



Then, the start and end values the y-axis are similarly inserted.
Previously delete "= {1}" in the "Series Y values:”.

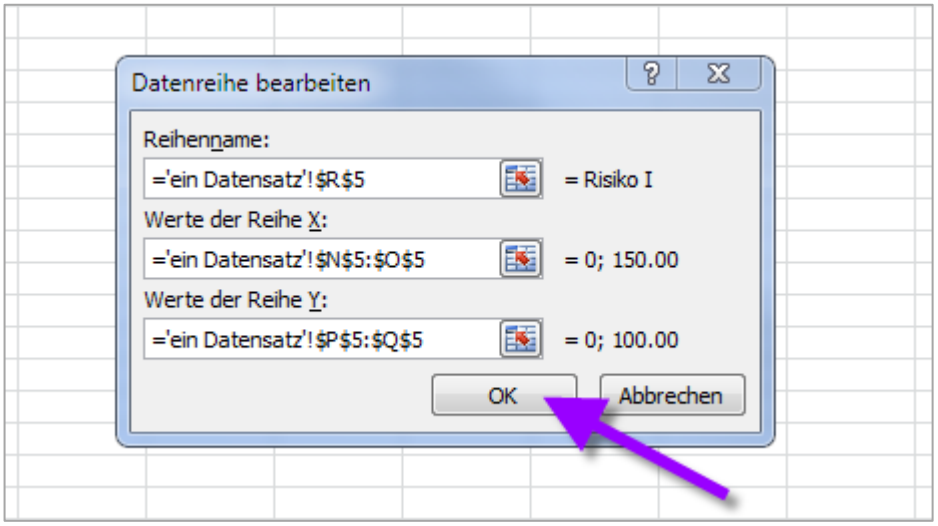


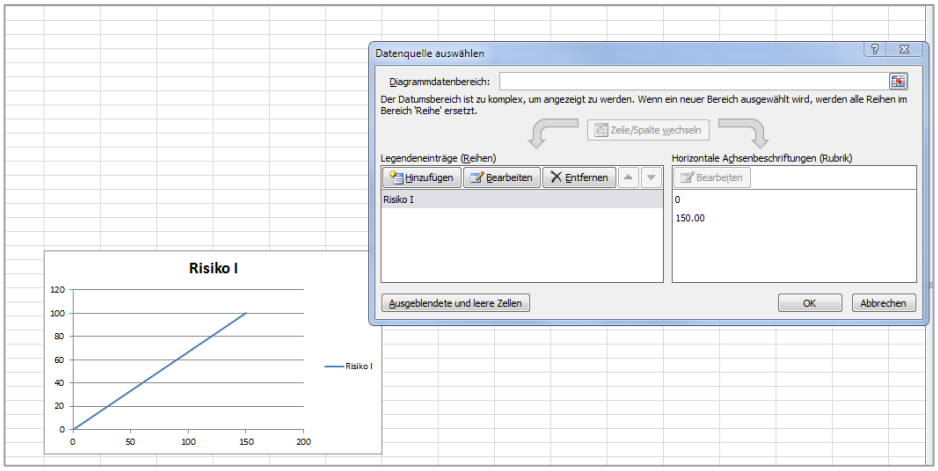
Insert P5:Q5 into the "Series Y values:”.



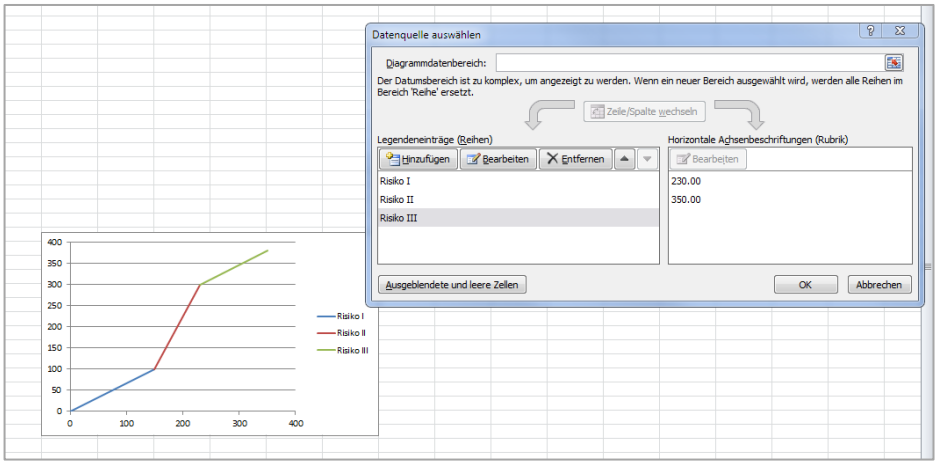
At first the “vector” is a line. Pointer will be added later.

OK inserts the “vector” as a line in the chart.

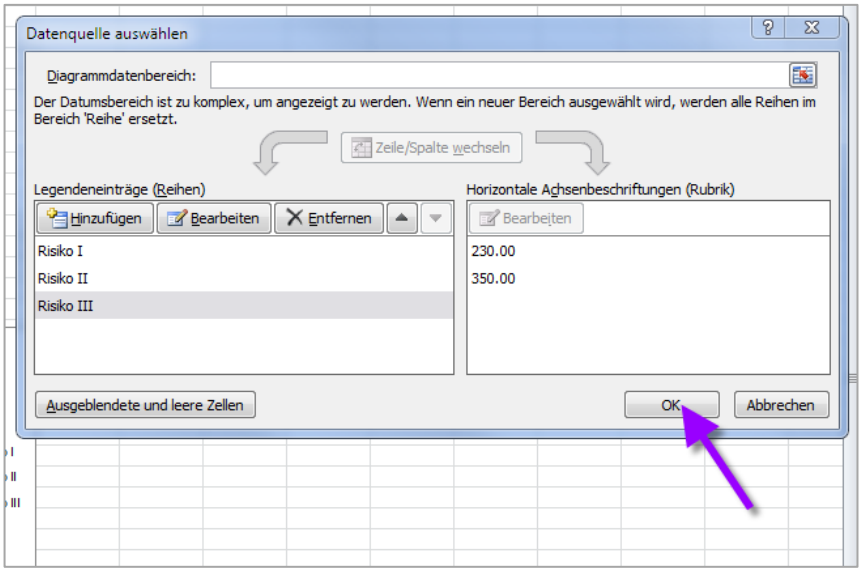




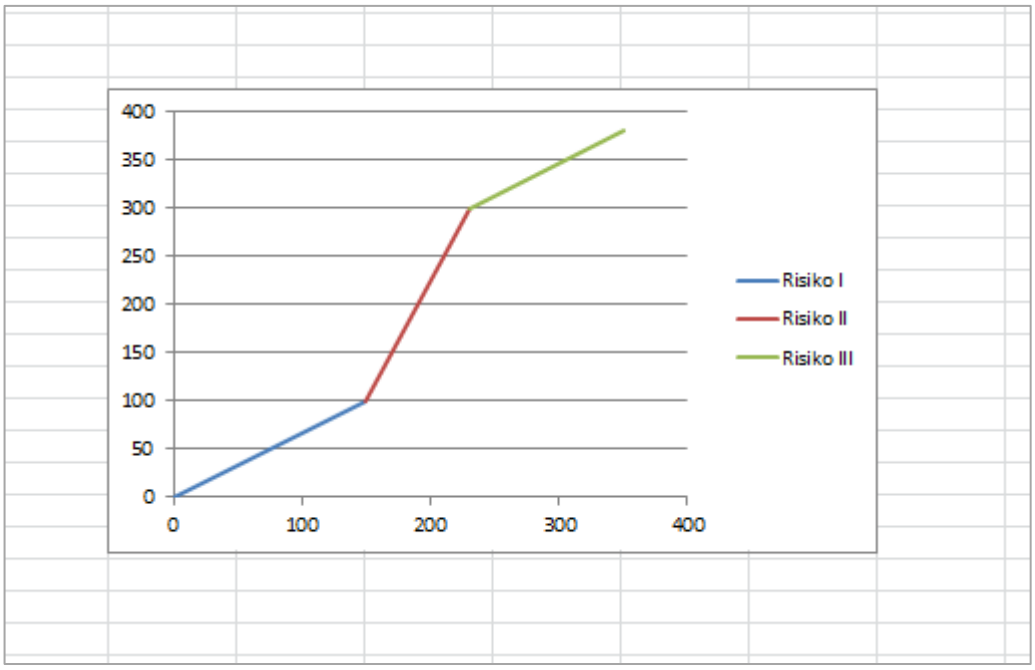
Other data pairs are added in the same way..



OK closes input.

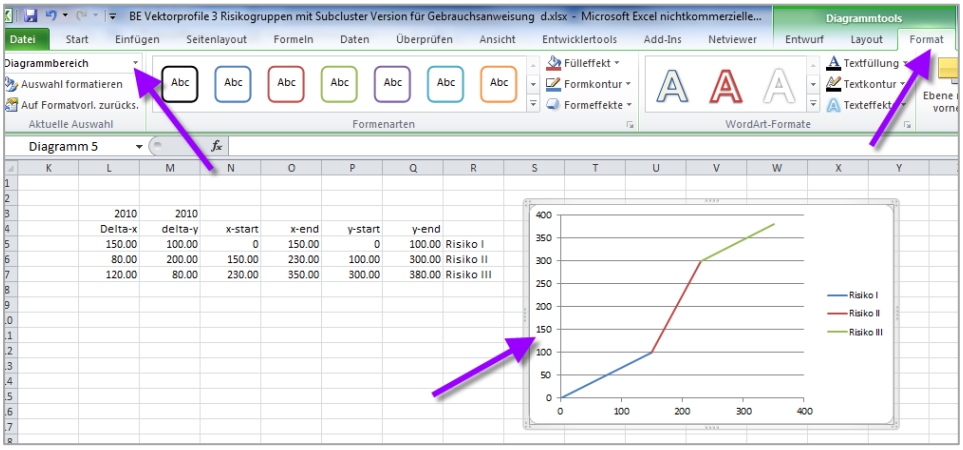


Result

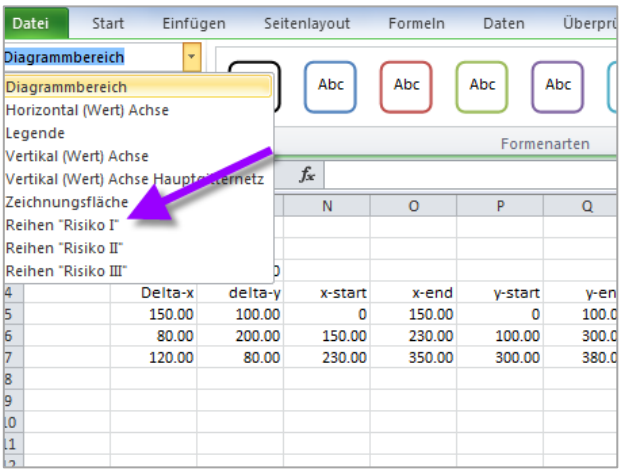


C Change line to vector by changing line properties

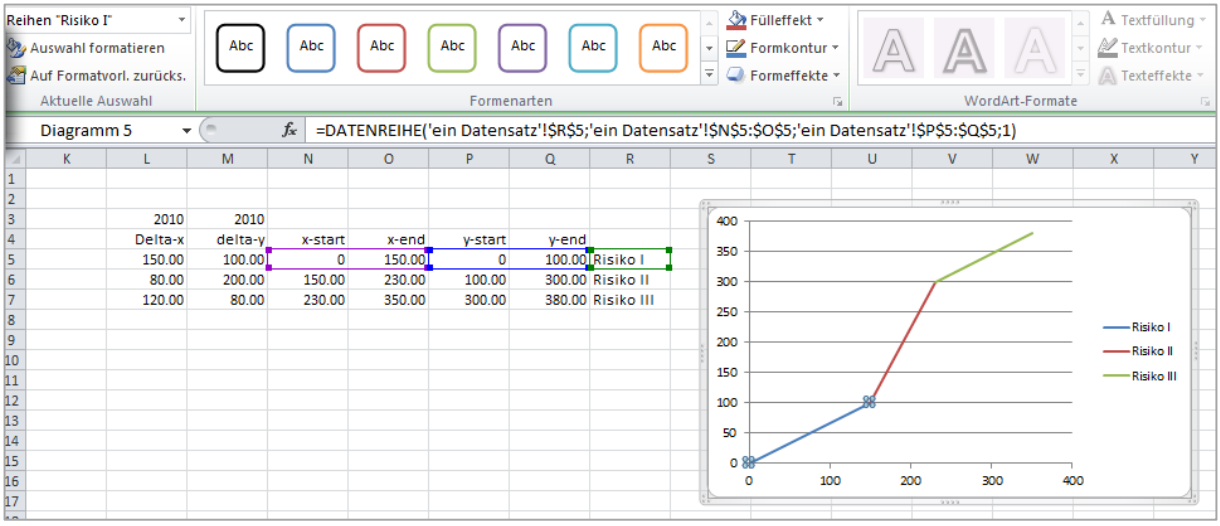
Click chart
Click Format
Click on chart area (drop down triangle)



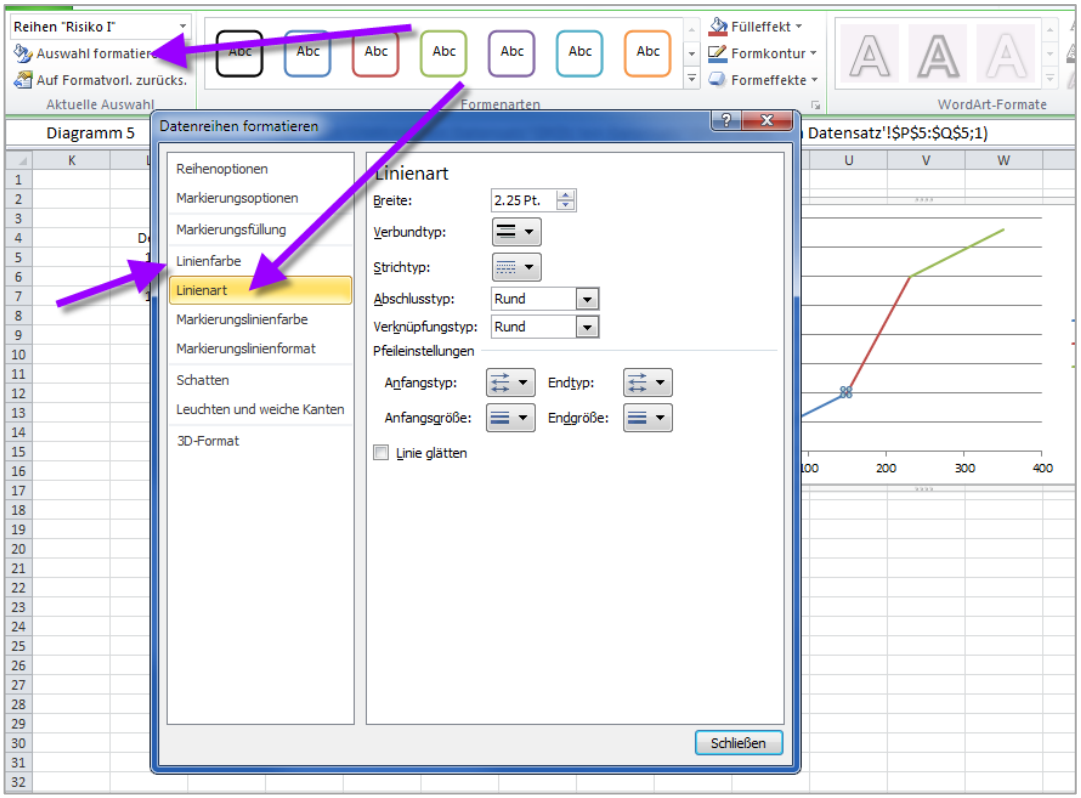
Click "Risiko I" in drop down rows

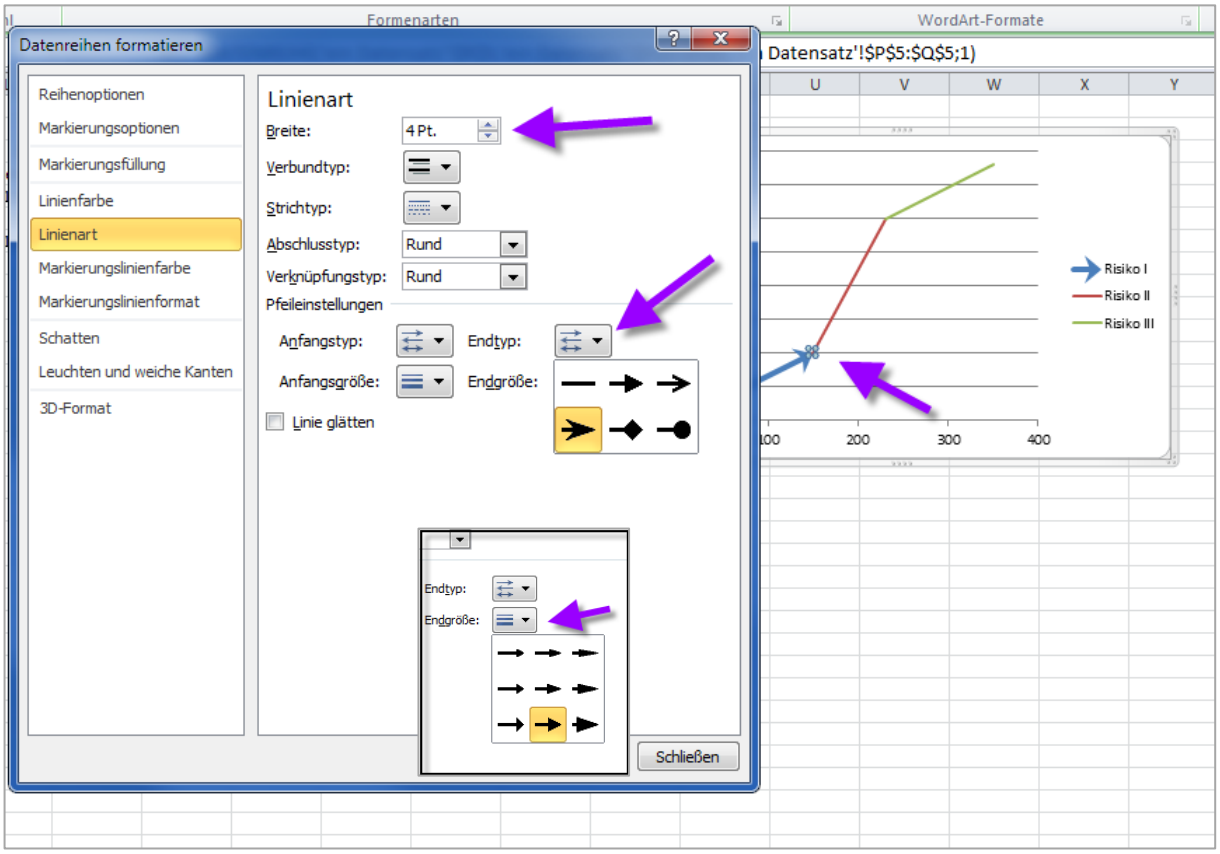


Line (in the chart), and data are displayed.



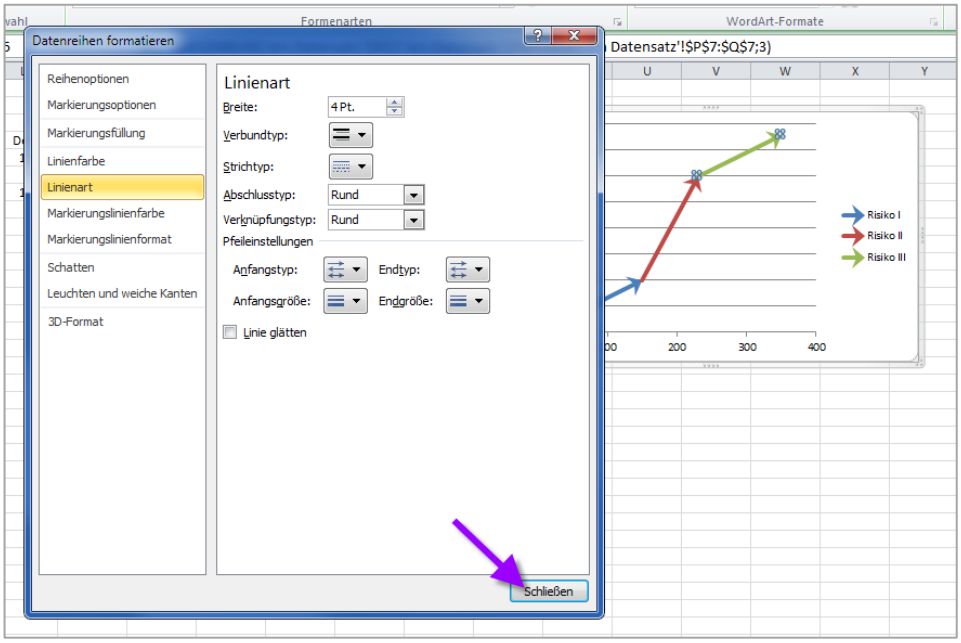
With “Format selection” you can then adjust the other parameters for the line [color, width, **line style with the arrow settings** (type and size for the beginning and end)]

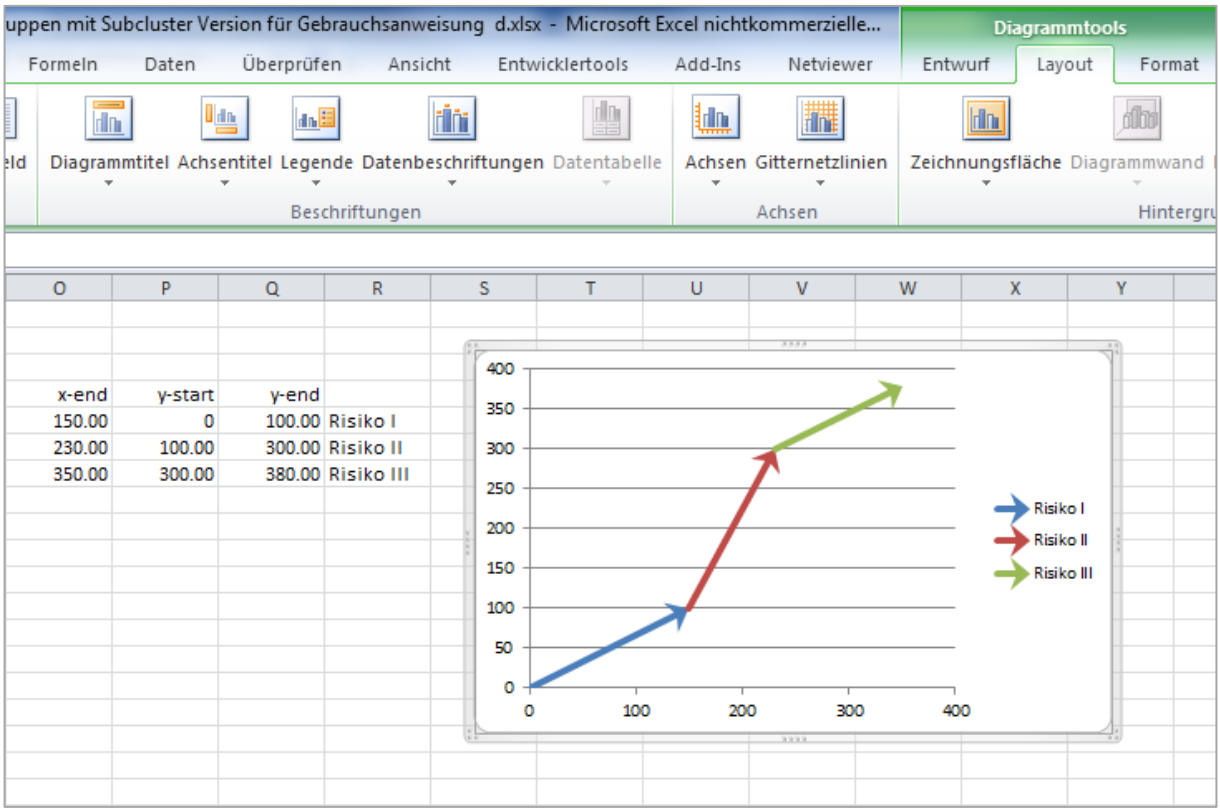




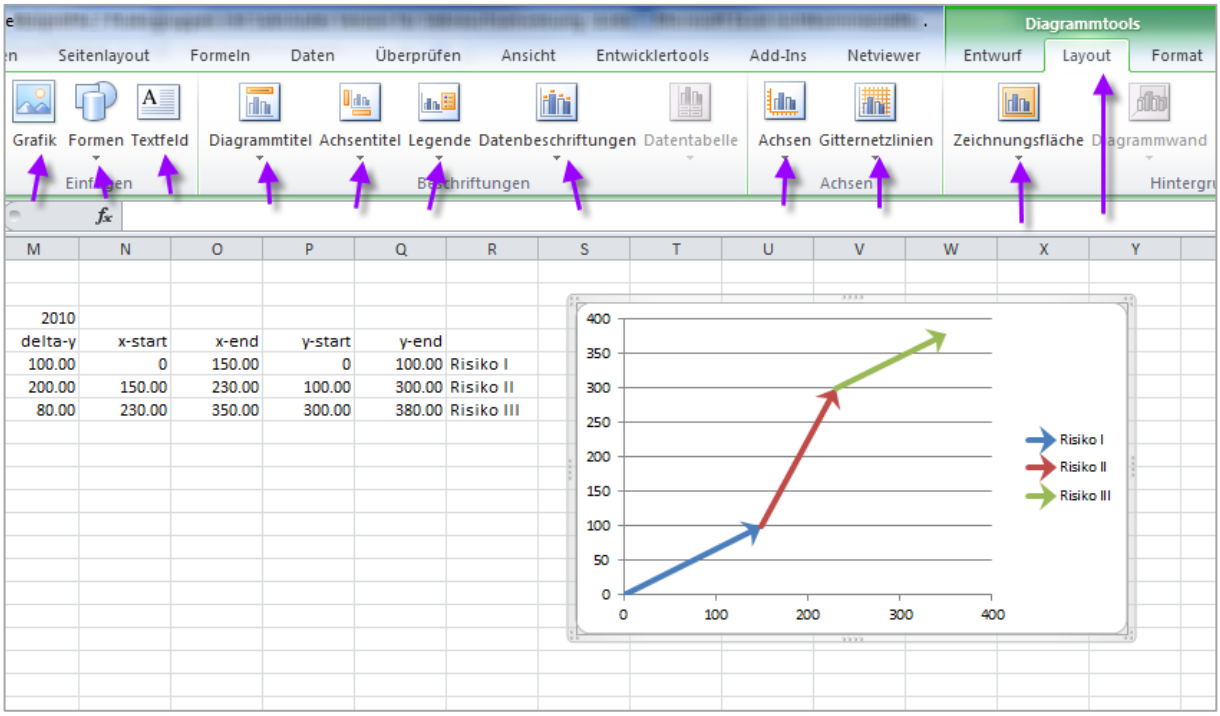
Change the other data pairs in the same way.

Close then takes on the properties of the lines in the chart

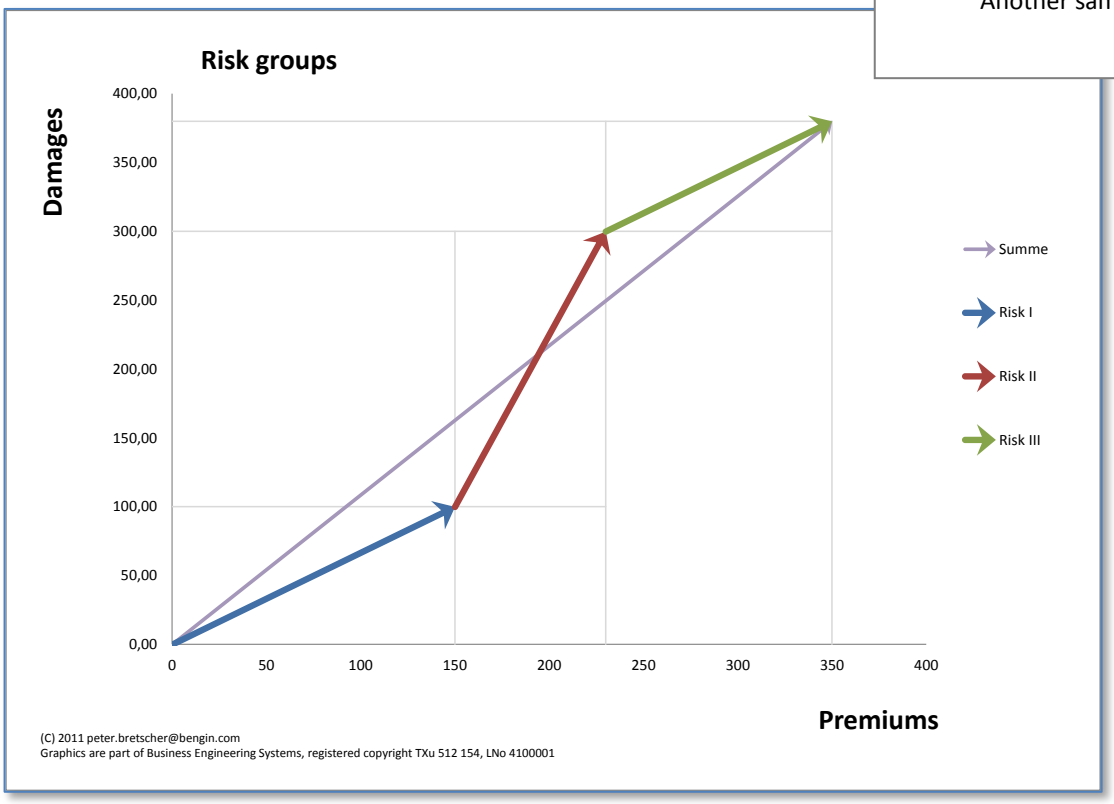




The chart the can be modified with the other standard excel functions you find in the “Layout” tab.

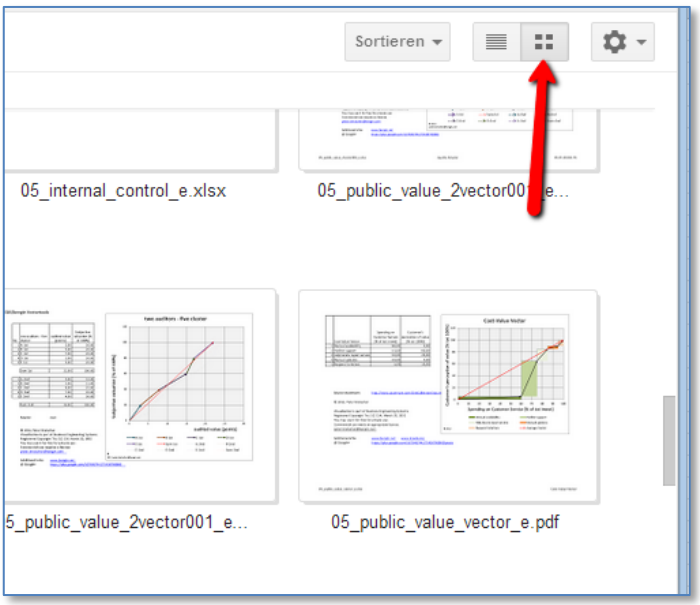


Another sample



Find other Excel templates at:
https://drive.google.com/folderview?id=0B3B_UviMtXqSZFlGRkFzQUlmdkk&usp=sharing

It's an open folder in GoogleDrive. For better overview set view to "Grid-View".



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