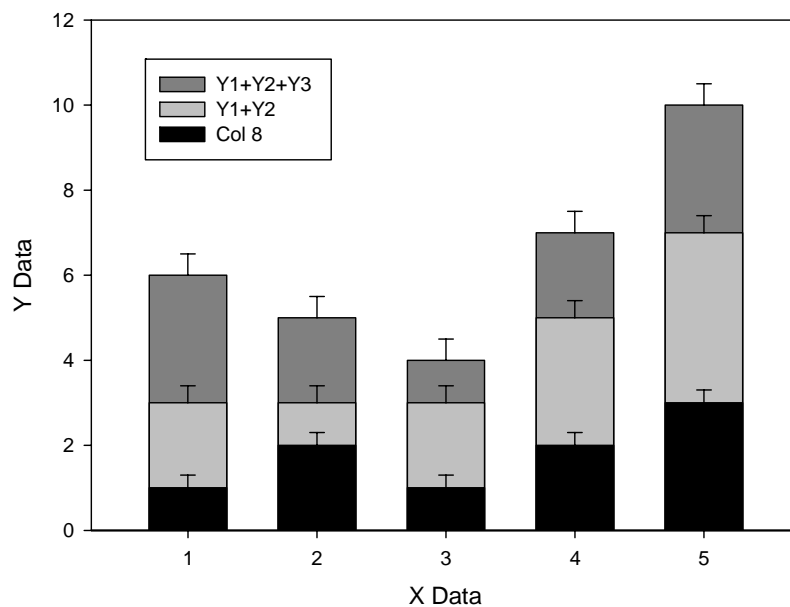


## Stacked bar graph with error bars

Question: I want to create a stacked bar graph that has error bars for each section. I can make a stacked bar graph but can't work out how to add error bars to it. Is this possible to do?

1-Y1	2-Y1 error	3-Y2	4-Y2 error	5-Y3	6-Y3 error
1,0000	0,3000	2,0000	0,4000	3,0000	0,5000
2,0000	0,3000	1,0000	0,4000	2,0000	0,5000
1,0000	0,3000	2,0000	0,4000	1,0000	0,5000
2,0000	0,3000	3,0000	0,4000	2,0000	0,5000
3,0000	0,3000	4,0000	0,4000	3,0000	0,5000

Stacked bar graph with error bars



Answer: To create this graph, calculate the error and mean values, then accumulate the mean values, and plot separate plots. Here are the steps:

### Step 1

From the data worksheet, open a transform edit window:  
 SigmaPlot 12: Analysis ribbon > Transform > User-Defined  
 SigmaPlot 11 and earlier: Transforms > User-Defined

Paste in the following rows (use Ctrl-V), and Run it:

```
col(8)=col(1)
col(9)=col(2)
col(10)=col(1)+col(3)
col(11)=col(4)
col(12)=col(1)+col(3)+col(5)
col(13)=col(6)
```

This will calculate the values as follows.

8-Y1	9-Y1 error	10-Y1+Y2	11-Y2 error	12-Y1+Y2+Y3	13-Y3 error
1,0000	0,3000	3,0000	0,4000	6,0000	0,5000
2,0000	0,3000	3,0000	0,4000	5,0000	0,5000
1,0000	0,3000	3,0000	0,4000	4,0000	0,5000
2,0000	0,3000	5,0000	0,4000	7,0000	0,5000
3,0000	0,3000	7,0000	0,4000	10,0000	0,5000

## Step 2

Create 3 plots in 1 graph from these cumulated values.

Start with the biggest values, so the smaller bars are in front of the bigger ones.

Create Graph > Bar > Vertical Bar – Error Bars

> Symbol values: Worksheet Columns

> Data format :Single Y

> Selected columns: Bar: 12, Error: 13

Graph Page > Graph Additions > Add Plot (v11 and earlier: Graph > Add Plot).

> Bar > Vertical Bar – Error Bars (see above...)

... > Selected columns: Bar: 10, Error: 11

Graph Page > Graph Additions > Add Plot (v11 and earlier: Graph > Add Plot).

> Bar > Vertical Bar – Error Bars (see above...)

... > Selected columns: Bar: 8, Error: 9

## Step 3

Customize the graph. Change the bar fills, etc.