Rearranging worksheet data: From 1 to many columns

With SigmaPlots built-in User-Defined Transform language, you can transform, calculate, and rearrange data. Here is an example which shows how you can quickly rearrange input data from 1 column into many columns.

Assume you have received a data set with several variables, as a sequence of blocks per case, all in one column:

 	1
1	X
2	Υ
3	
4	1,0000
5	10,0000
6	
7	2,0000
8	11,0000
9	
10	3,0000
11	12,0000
12	
13	4,0000
14	13,0000
15	
16	5,0000
17	14,0000
18	

etc....

To create a graph or further analyze them, you need them like this:

3	4
X	Υ
1,0000	10,0000
2,0000	11,0000
3,0000	12,0000
4,0000	13,0000
5,0000	14,0000

Here is a transform which will copy and rearrange the data.

What the transform does:

```
'this is the data column
```

This is a comment line (from the 'apostroph to the end of the line).

```
Col_in=1
Col_out=3
```

assign variable values: column numbers for input and output

```
cell(c1;r1) = cell(c2;r2)
    copies from cell to cell
```

```
for i=1 to Interval do
        col(i+Col_out-1)=nth(col(Col_in;i);Interval)
end for
```

'This separates the input columns into ' the number of desired columns

nth

The nth function returns a sampling of a provided range, with the frequency indicated by a scalar number. The result always begins with the first entry in the specified range.

Syntax: nth(range,increment)

Finally, you can shift the values up by 1, making the first row the column titles: Select both columns in the worksheet. Select Worksheet > Cells > Titles. Click the Promote button.

3-X	4-Y
1,0000	10,0000
2,0000	11,0000
3,0000	12,0000
4,0000	13,0000
5,0000	14,0000