

## Radar/Spider Plot

### Summary

The *Radar/Spider Plot* is used to illustrate the values of up to 16 variables on a small number of cases. It is often used in sensory evaluation to display ratings on multiple attributes.

**Sample StatFolio:** *spiderplot.sgp*

### Sample Data:

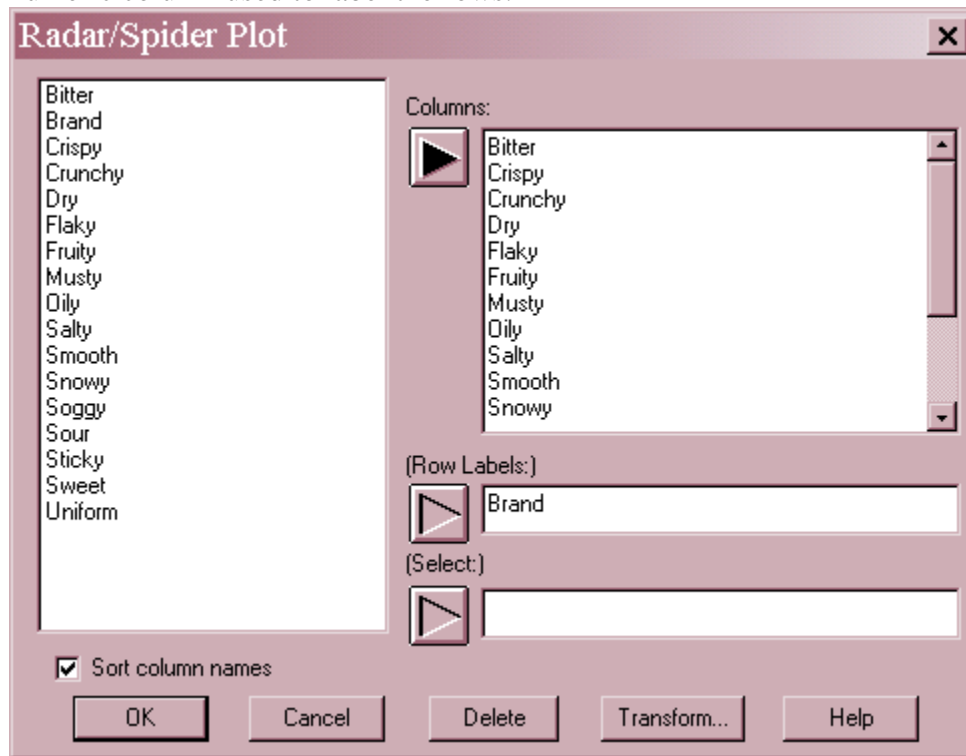
The file *sensory.sgd* contains information on 16 attributes of  $n = 3$  brands of a common product. The table below shows a partial list of columns from that file:

<i>Brand</i>	<i>Bitter</i>	<i>Crispy</i>	<i>Crunchy</i>	<i>Dry</i>	<i>Flaky</i>	<i>Fruity</i>	<i>Musty</i>	<i>Oily</i>	<i>Salty</i>
A	6.5	3.6	2.4	3.2	6	6.9	4.9	1.1	6.1
B	7.4	5.6	2.5	3.7	6.3	7.5	6.9	2.9	6.4
C	8.1	4	4.3	5.1	6.6	8.8	5.9	3	7.4

The values in the table are average scores (on a scale of 0-10) made by a number of appraisers.

### Data Input

The data to be analyzed consist of up to 16 numeric columns and an optional numeric or non-numeric column used to label the rows.



- **Columns:** up to 16 numeric columns of data to be plotted on separate spokes of the plot.
- **Row Labels:** optional column containing labels for each row.
- **Select:** subset selection.

## Analysis Summary

The *Analysis Summary* lists the columns that define the spokes of the plot.

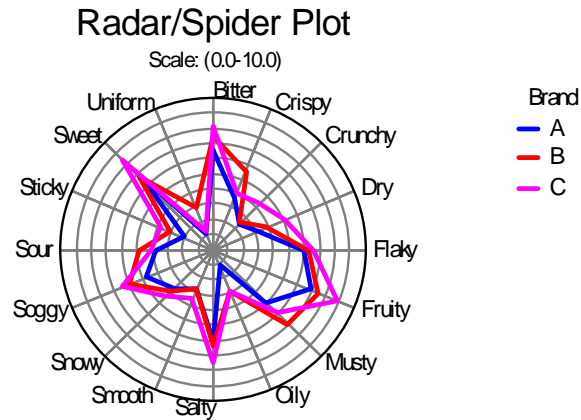
### Radar/Spider Plot

Data variables:

Bitter  
Crispy  
Crunchy  
Dry  
Flaky  
Fruity  
Musty  
Oily  
Salty  
Smooth  
Snowy  
Soggy  
Sour  
Sticky  
Sweet  
Uniform

## Radar/Spider Plot

This pane displays the plot.



The plot is constructed in the following manner:

- Each data column defines a spoke of the plot, starting at 12:00 and moving clockwise.
- By default, a common scale is selected based on the range of the combined data from all columns. If desired, separate scales may be defined for each column using *Pane Options*.
- A separate line is drawn for each row of the file, connecting the values for each column.

The plot is most effective when comparing a small number of rows.

*Pane Options*

Category	From:	To:
Bitter	6.5	8.1
Crispy	3.6	5.6
Crunchy	2.4	4.4
Dry	3.2	5.2
Flaky	6.	6.6
Fruity	6.9	8.9
Musty	4.9	6.9
Oily	1.1	3.1
Salty	6.1	7.6
Smooth	2.7	3.5
Snowy	3.6	4.4
Soggy	4.7	6.5
Sour	3.8	5.
Sticky	2.1	3.7
Sweet	6.7	8.5
Uniform	1.1	2.9

- **Scaling:** select *Common* to scale all spokes the same. Select *Separate* to specify a separate scale for each column. The *From* value corresponds to the center of the plot. The *To* value corresponds to the outer ring. The *By* value defines the distance between rings.

Notes

If a grid is not drawn by default, it may be added using *Graphics Options*.