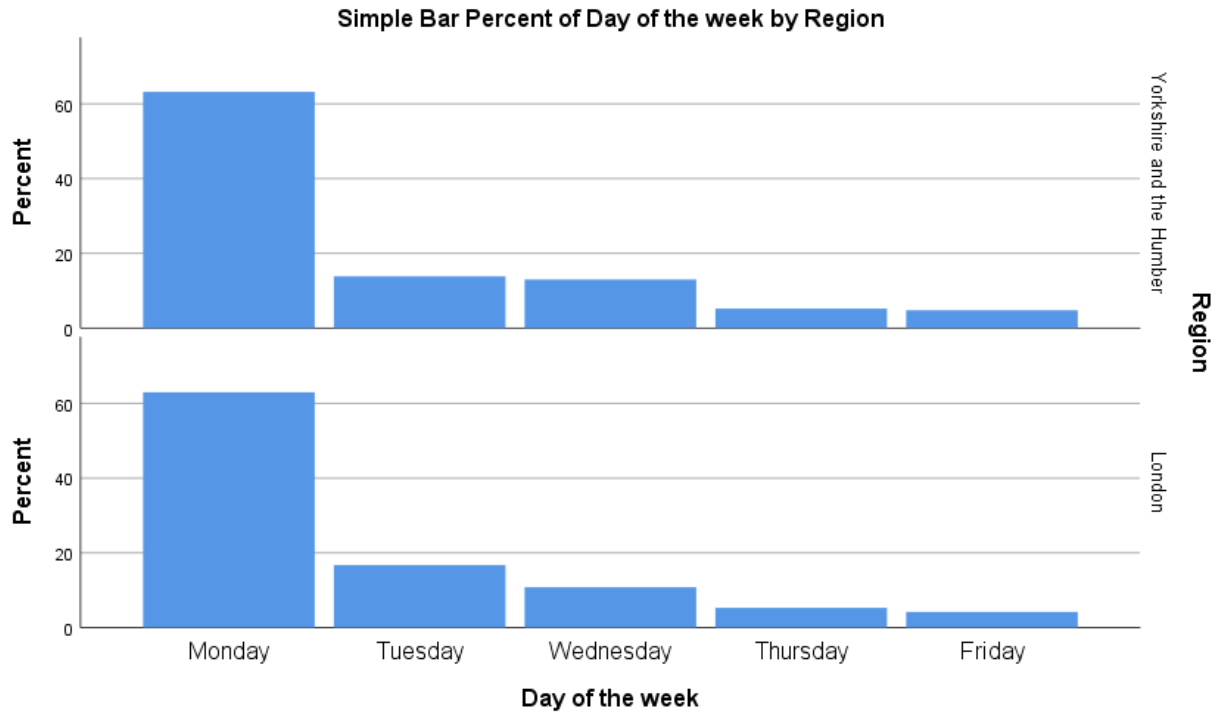
Constructing panelled barcharts in SPSS

EXAMPLE:



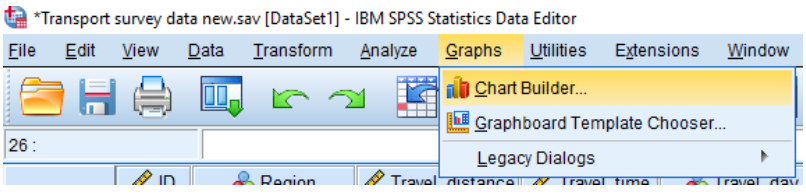
Data:

The data used here are based on commuting times for two regions (Yorkshire and the Humber & London). In addition to travel time and distance, the dataset includes several categorical variables such as region, day of the week (Monday to Friday) and mode of transport:

	ID	Region	Travel_distance	Travel_time	Travel_day	Transport_mode	Mode
1	1	London	.8	22	Monday	Walk	Walk/cycle
2	2	Yorkshire and th...	.7	29	Monday	Walk	Walk/cycle
3	3	Yorkshire and th...	.3	9	Monday	Walk	Walk/cycle
4	4	London	1.0	13	Monday	Car/van driver	Car/van/taxi
5	5	London	.8	17	Monday	Walk	Walk/cycle

Method:

Graphs > Chart builder



This will open up a dialogue box that asks about setting measurement levels. In general, you are unlikely to need to set the measurement levels manually so just click ***OK***. You will see the following dialogue box. Select ***Bar*** from the bottom left menu and drag the image of the simple barchart to the top right preview window as indicated overleaf:

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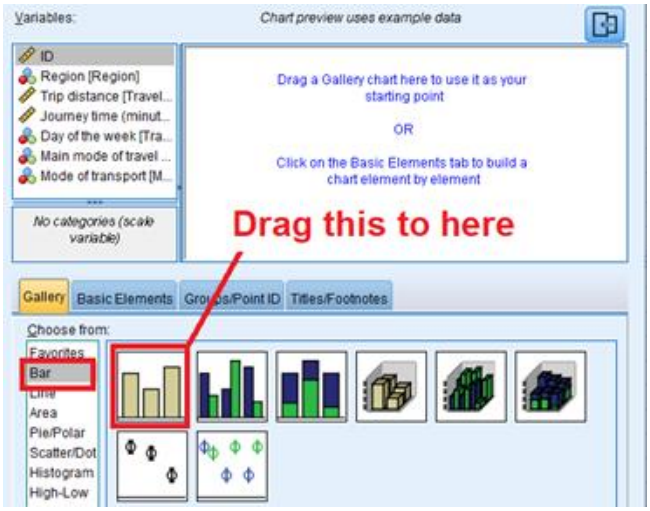

Select the variable that you want to construct a barchart for (***Day of the week***) and drag it to the box at the bottom of the chart preview window labelled ***X-axis?***. Next click on the ***Groups/Point ID*** tab as shown below. Select ***Rows panel variable*** and drag the variable that you want to produce different barchart for into the ***'Panel'*** box on the right of the graph preview window (***Region***). At this point, if you click ***OK*** you will get a panelled barchart displaying the number of journeys by day of the week with separate charts for each region, one above the other. If you want to graph the percentage travelling each day rather than the number, click on the down arrow of the ***Statistics*** dialogue box on the right and select ***Percentage***. You will also need to specify what total is to be used for constructing the percentages. The default is to use the total for all groups combined, but if you want to show the percentage within each region (so that the total percentage in a region adds up to 100%) select ***Set Parameters*** and choose the ***Total for Each Panel***. Now click ***OK*** to obtain the panelled barchart overleaf.