

# SPSS: Pie chart (via Frequencies)

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This document will explain how to generate a Pie-chart using SPSS as shown below.

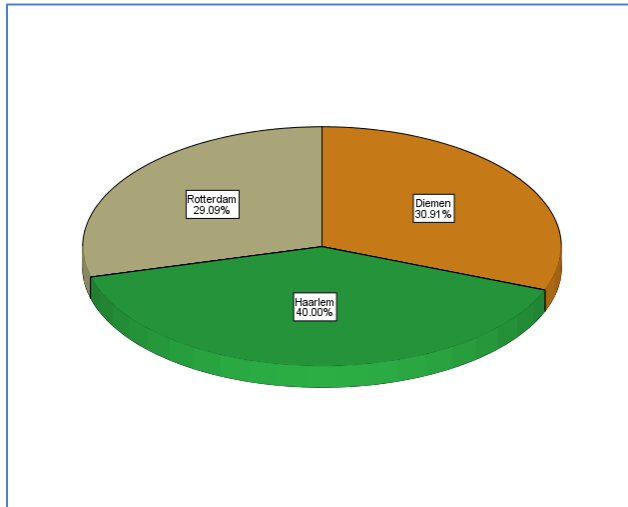


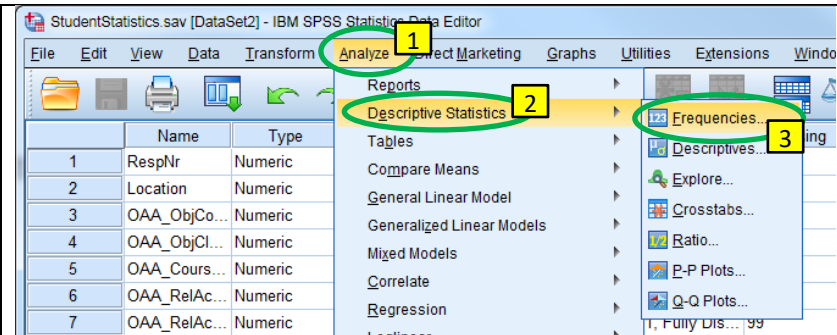
Figure 1. Example Pie-chart generated with SPSS


The described steps are also shown in the Youtube video at: <https://youtu.be/J6TEUYX7eas>.

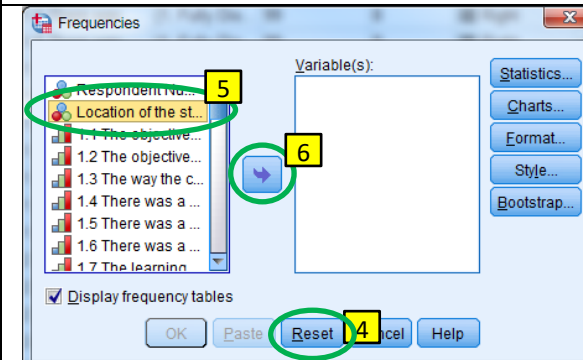
The example file used is *StudentStatistics.sav* available on the companion website <http://PeterStatistics.com>.

## The pie chart itself

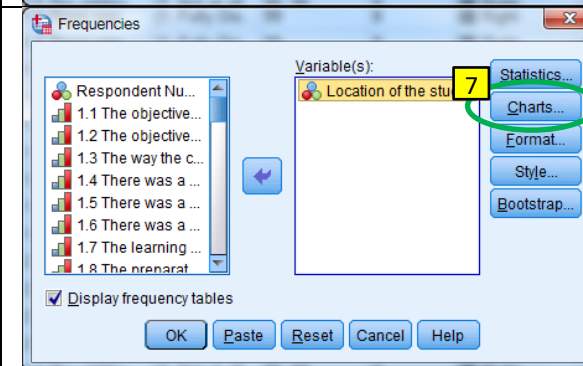
1. Click in the menubar on **Analyze**
2. Click on **Descriptive Statistics**
3. Click on **Frequencies...**



4. Click on **Reset**
5. Click on the variable(s) you want to show a pie-chart
6. Click on  to move it to the Variable(s) section (tip: you can also drag the variables there)

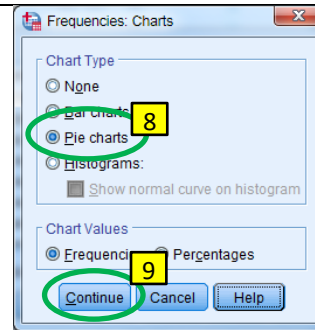


7. Click on **Charts...**



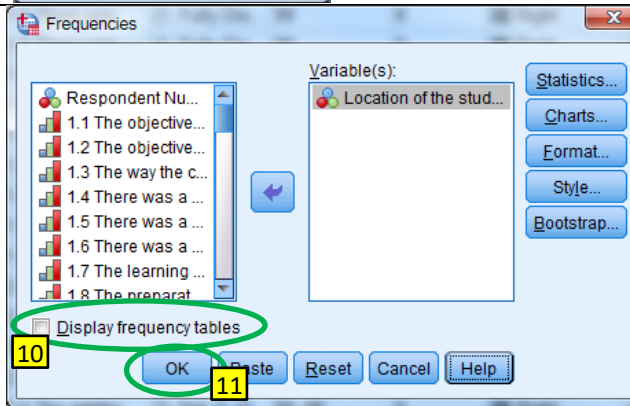
8. Click on ☒ Pie charts

9. Click on

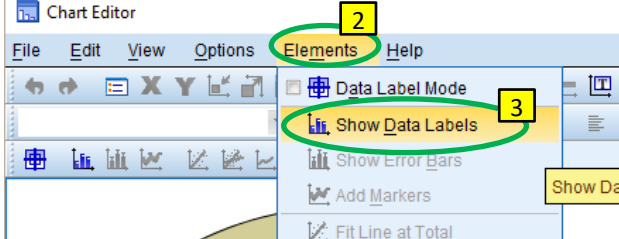


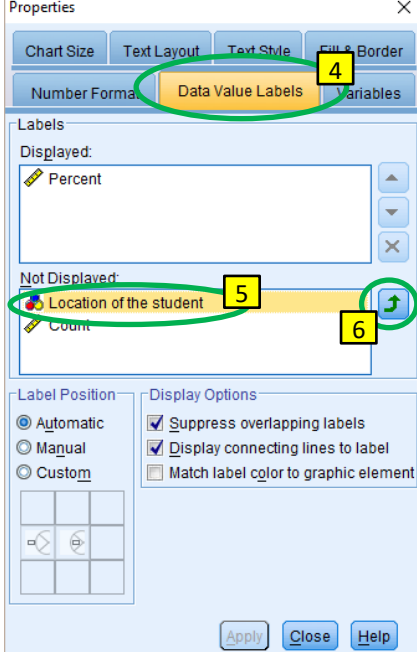


10. Untick the option ☐ Display frequency tables  
(unless you also want to see the frequency table(s))


11. Click on

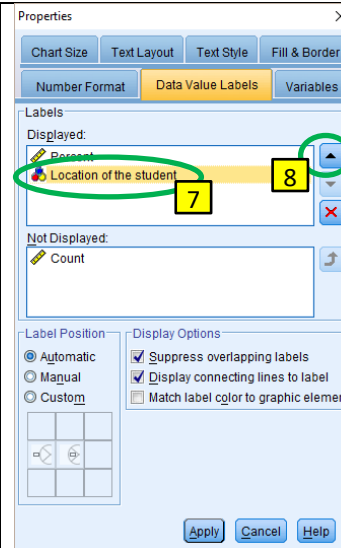



## Labels of slices next to slices

1. <b>DOUBLE</b> -click in the output on the pie-chart to open the Chart Editor	<= READ
2. Click in the menubar on of the Chart Editor on <b>E</b> lements  3. Click on <b>S</b> how <b>D</b> ata Labels	
4. Click in the Properties window on the <b>D</b> ata Value Labels tab (probably already selected)  <b>NOTE:</b> If you do not see the Properties window, you can click in the menubar on <i>Edit</i> and then on <i>Properties</i> (or use the shortcut CTRL+T, or the shortcut button  )  5. Click at <i>Not Displayed</i> on the name of the variable  6. Click on  to move it to the <i>Displayed</i> section	


7. Click at *Displayed* on the name of the variable

8. Click on  to move it to the first position




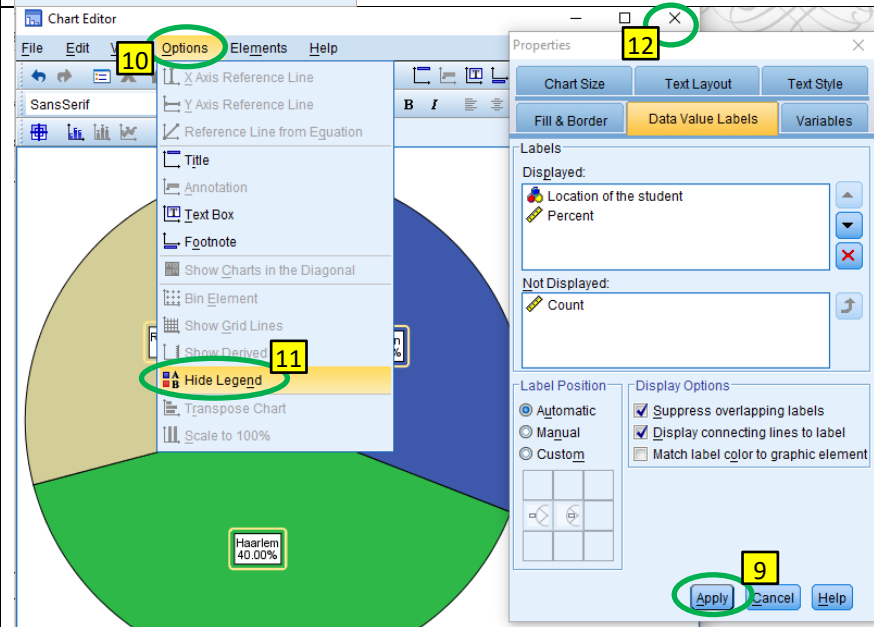
9. Click on 

The Legend is no longer needed, so let's remove it:.

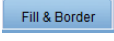


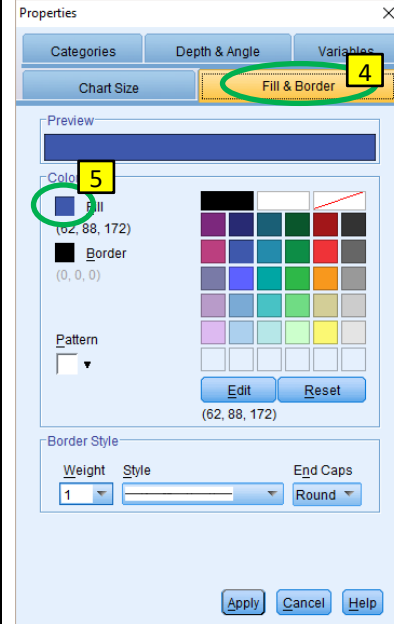
10. Click in the menubar on of the Chart Editor on 



11. Click on 

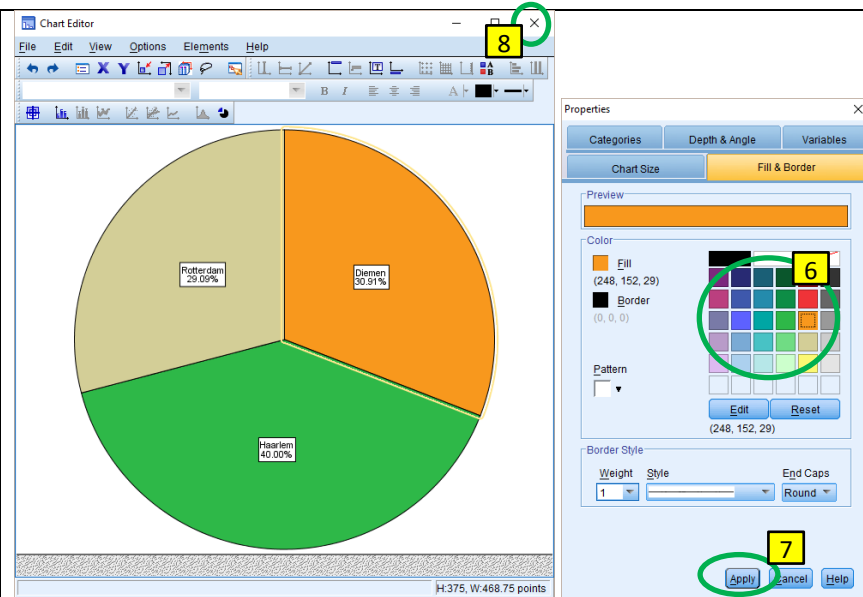
12. Close the Chart Editor by clicking on  (don't worry the revised chart will show in the output).



### Changing the color of the slices

1. <b>DOUBLE</b> -click in the output on the pie-chart to open the Chart Editor	<= READ
2. Click on the slice of which you want to change the color (the entire circle will now be selected)	<= READ
3. Click again on the slice you want to change the color of (now only this slice remains selected)	
<p>4. Click in the Properties window on the  <b>Fill &amp; Border</b> tab</p> <p><b>NOTE:</b> If you do not see the Properties window, you can click in the menubar on <i>Edit</i> and then on <i>Properties</i> (or use the shortcut CTRL+T, or the shortcut button )</p> <p>5. Click on the color square next to Fill</p> <p><b>Note:</b> If the Fill square is locked  you probably clicked too many times on the slice (or too fast). Click once outside the circle, then click on the slice, wait a second or two and click again on the slice. It should become available now.</p>	

6. Click on the color you want for the slice
7. Click on 
8. Close the Chart Editor by clicking on  (don't worry the revised chart will show in the output).




### Adding a 3D effect




1. **DOUBLE**-click in the output on the pie-chart to open the Chart Editor

2. Click on one of the slices, so the the entire circle is selected

3. Click in the Properties window on the **Depth & Angle** tab.

#### NOTE:

If you do not see the Properties window, you can click in the menubar on *Edit* and then on *Properties* (or use the shortcut CTRL+T, or the shortcut button )

4. Click on 
5. Type at Distance a 1
6. Click on 
7. Close the Chart Editor by clicking on  (don't worry the revised chart will show in the output).

<= READ

