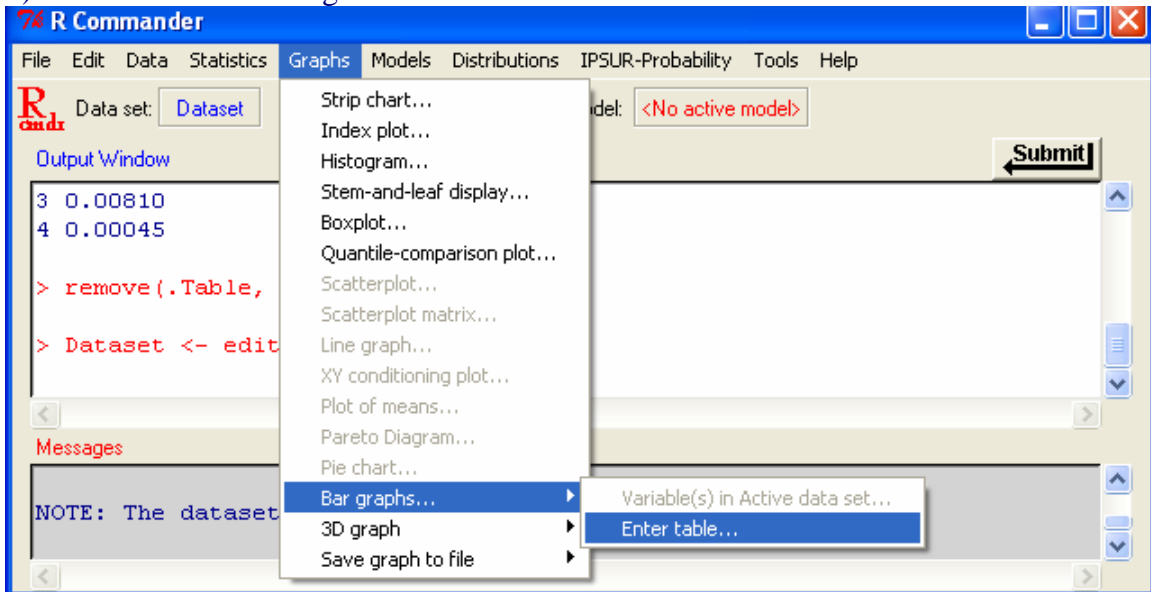


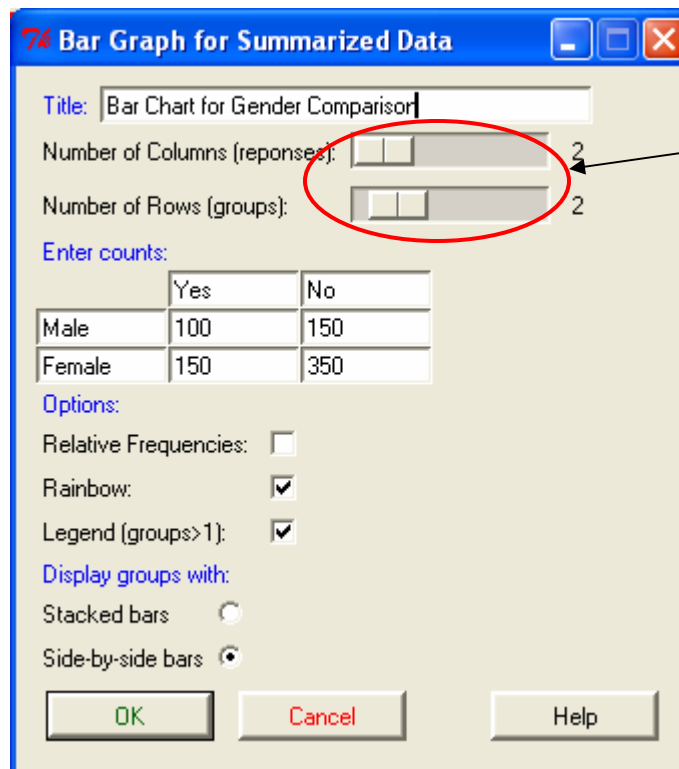
# Bar Chart

Making bar chart **when frequency data** is available. The example data (see step 2 in this instruction) is for comparing among male and female subjects to see if there is difference in their preference in a policy based on their Yes and No votes.

1) Perform the following menu selections:

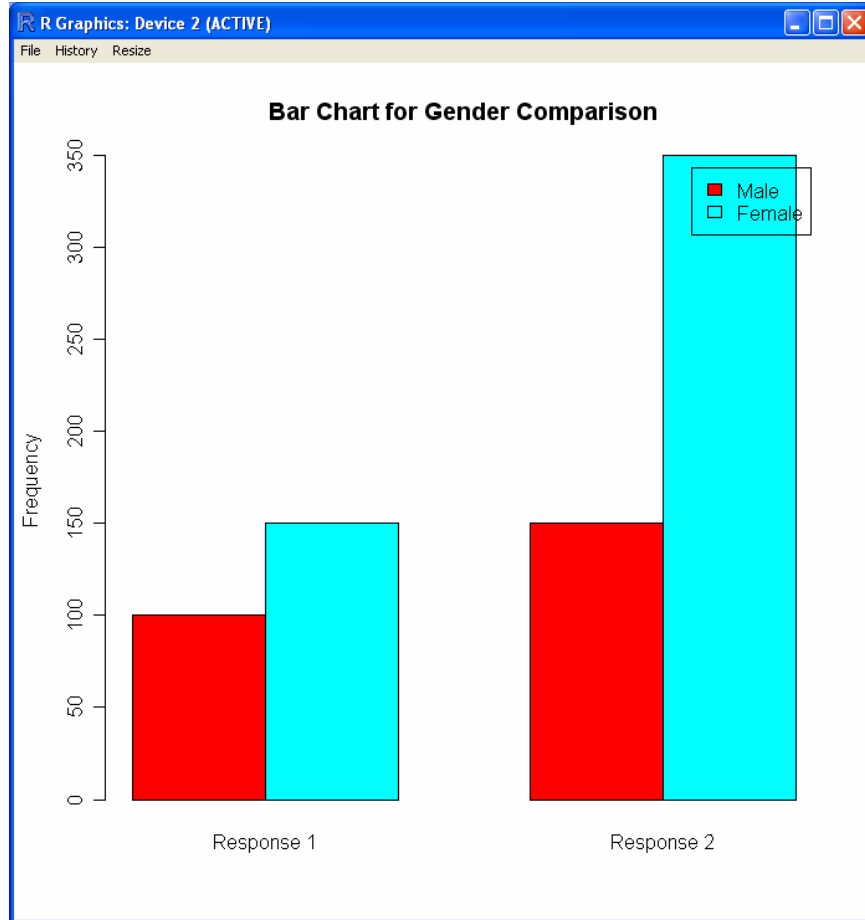


2) Enter the information asked to formulate your Bar Chart with the **side-by-side bar** chart (or cluster bar chart) and then click OK



Click and drag the adjustment buttons to determine the dimension of the table. This example is a 2x2 data. Use can make a 1x5, 3x5, and chart from any other possible dimension.

3) Result:



## Pie Chart

Making Pie chart from categorical variable **with raw data**.

- 1) Enter your data into a new data table for the categorical variable.

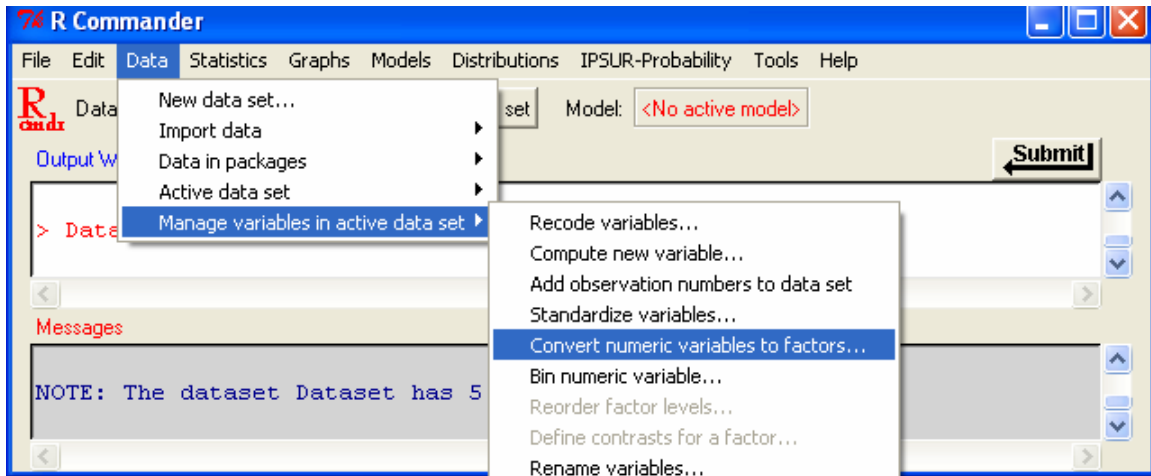
This data needs to be converted to a factor variable in order to make bar chart or pie chart.

A screenshot of the "Data Editor" window in R. The window title is "Data Editor" and it has a menu bar with "File", "Edit", and "Help". The data table has two columns: "var1" and "var2". The rows contain numerical values for "var1" and empty cells for "var2".

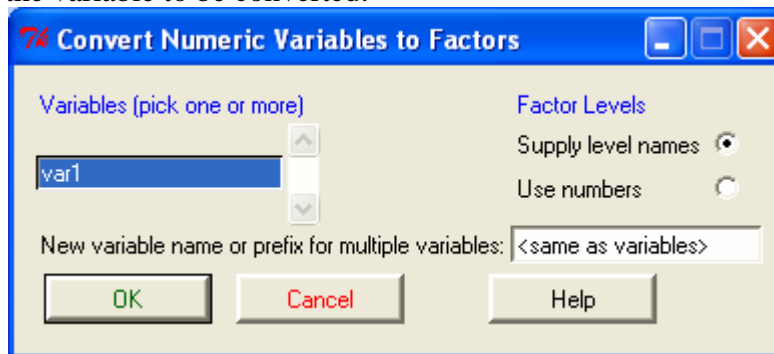
	var1	var2
2	1	
3	2	
4	2	
5	2	
6	3	
7	3	
8	3	
9	3	
10	2	
11	3	
12	1	
13	2	
14	1	
15	2	
16	2	
17	2	

- 2) Convert your data into factors.
  - a. Perform the following menu selections:

**Data/Manage variables in active data set/Convert numeric variables to factors...**



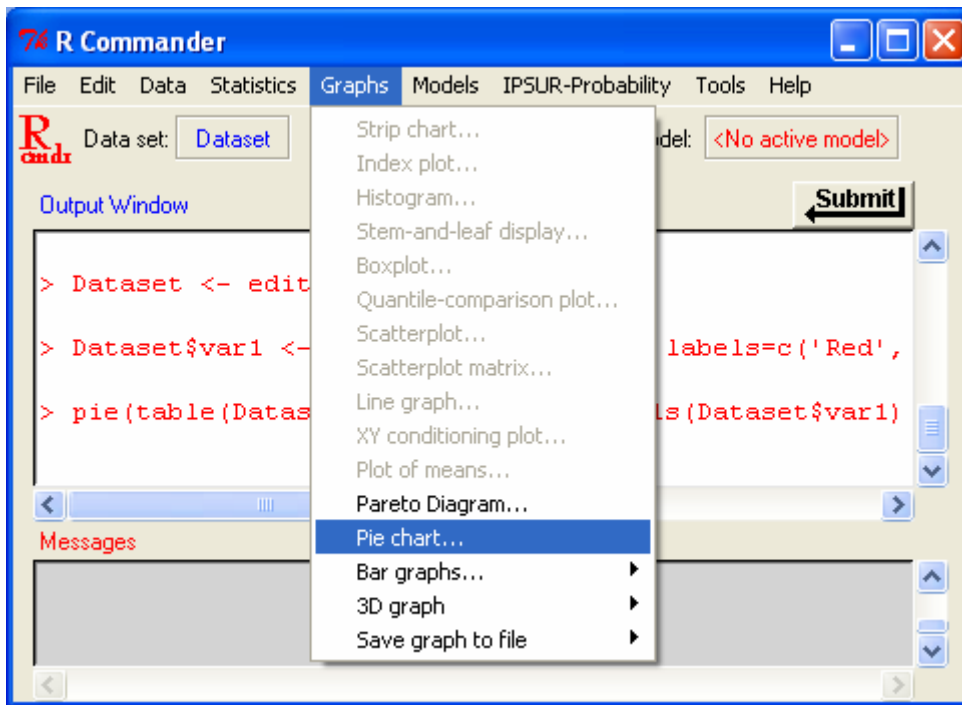
- b. Select the variable to be converted:



- c. If "Supply level names" is selected, one needs to supply the names or labels for all different data values for this categorical variable.



- 3) Go to the “Graphs” menu and select “Pie chart”. Then Choose the variable you want to graph and click OK.



- 4) The result:

