

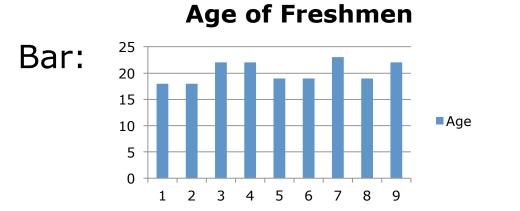
# Graphical Display of Statistics

#### Winter 2014

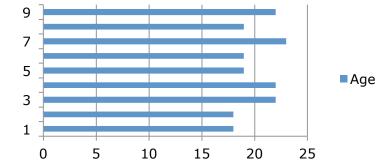
Winter 2014

CS130 - SPSS & Graphical Display of Statistics

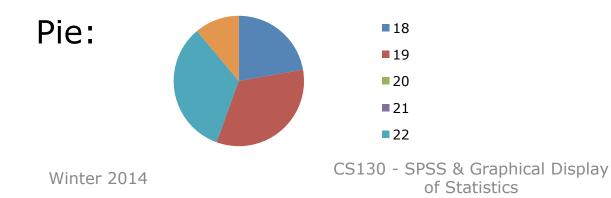
# Common Display of Statistical Info











## Sample CS120 Dataset

• Consider the following CS120 class information:

ID	Year	Age
0001	FR	18
0002	FR	18
0003	SR	22
0004	JR	22
0005	SO	19
0006	FR	19
0007	SR	23
0008	SO	19
0009	SR	22

If this data was in SPSS, what would be the Type and Measure for each variable?

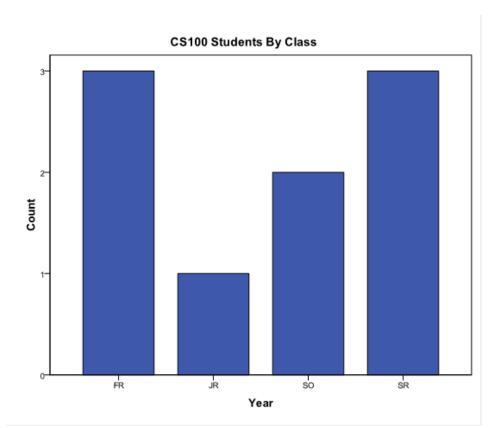
#### Exercise

Copy CS120.sav from CS 130 Public to your Desktop.

- Let's discuss the variable definitions and data.
- Create a **Bar Chart** to show how many students in each Year took CS 120.
- Create a **Pie Chart** to show how many students in each Year took CS 120.
- Create a Bar Chart to show the median age of students in each Year.
- Create a Word document called graphs.docx that has all three graphs in the document properly labeled and looking professional. Let me see the results.
- Enter this data into Excel and build the three charts above. Winter 2014 CS130 - SPSS & Graphical Display

# Bar Chart

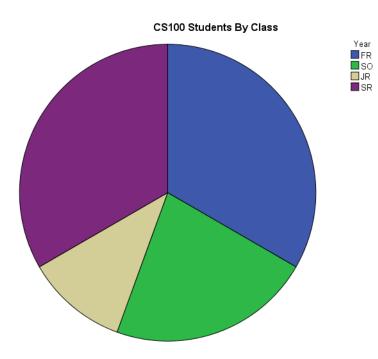
We could take the above information and show using a bar chart a graphical representation of the number of students that are FR, SO, JR, and SR.



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# Pie Chart

 Notice with a pie chart we get a better visualization of the frequency of occurrence as a percent. The amount of arc in the above example is proportional to the represented quantity.



## More SPSS practice

- Compare the mean, standard deviation, and median for age by year
  Analyze | Compare Means | Means
- Add the Report to the Word document from earlier

			Report		
	Age				
Make sure the Year is in the correct order!	Year	Mean	Ν	Std. Deviation	Median
	FR	18.33	3	.577	18.00
	SO	19.00	2	.000	19.00
	JR	22.00	1		22.00
	SR	22.33	3	.577	22.00
	Total	20.22	9	1.986	19.00
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