

Q: What's wrong?
Do not make a report like "We found that $66.67 \%$ of the rats improved their performance with training. The other rat died."

It is a Segmented Bar Chart

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A segmented bar chart displays the same information as a pie chart, but in the form of bars instead of circles.

| Table for Comparison |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N |  | Class |  |  |  |  |
|  |  | First | Second | Third | Crew | Total |
|  | Alive | 203 | 118 | 178 | 212 | 711 |
|  |  | 28.6\% | 16.6\% | 25.0\% | 29.8\% | 100\% |
|  |  | 122 | 167 | 528 | 673 | 1490 |
|  | Dead | 8.2\% | 11.2\% | 35.4\% | 45.2\% | 100\% |

A company held a blood pressure screening clinic for its employees. The results are summarized in the table below by age group and blood pressure level:


a) Find the marginal distribution of blood pressure level.
b) Find the conditional distribution of blood pressure level within each age group.
c) Compare these distributions with a segmented bar graph.
d) Write a brief description of the association between age and blood pressure among these employees.
e) Does this prove that people's blood pressure increases as they age? Explain.

Review of displaying and describing categorical data

