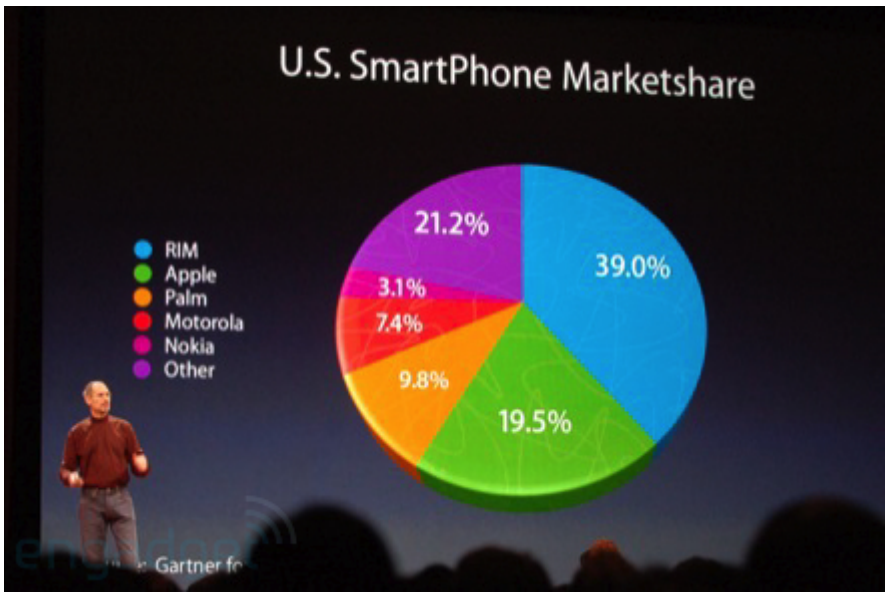
13. Bad Visual Quizzes (Part II)



The above pie chart violates a few rules of visual design, but which is the worst violation?

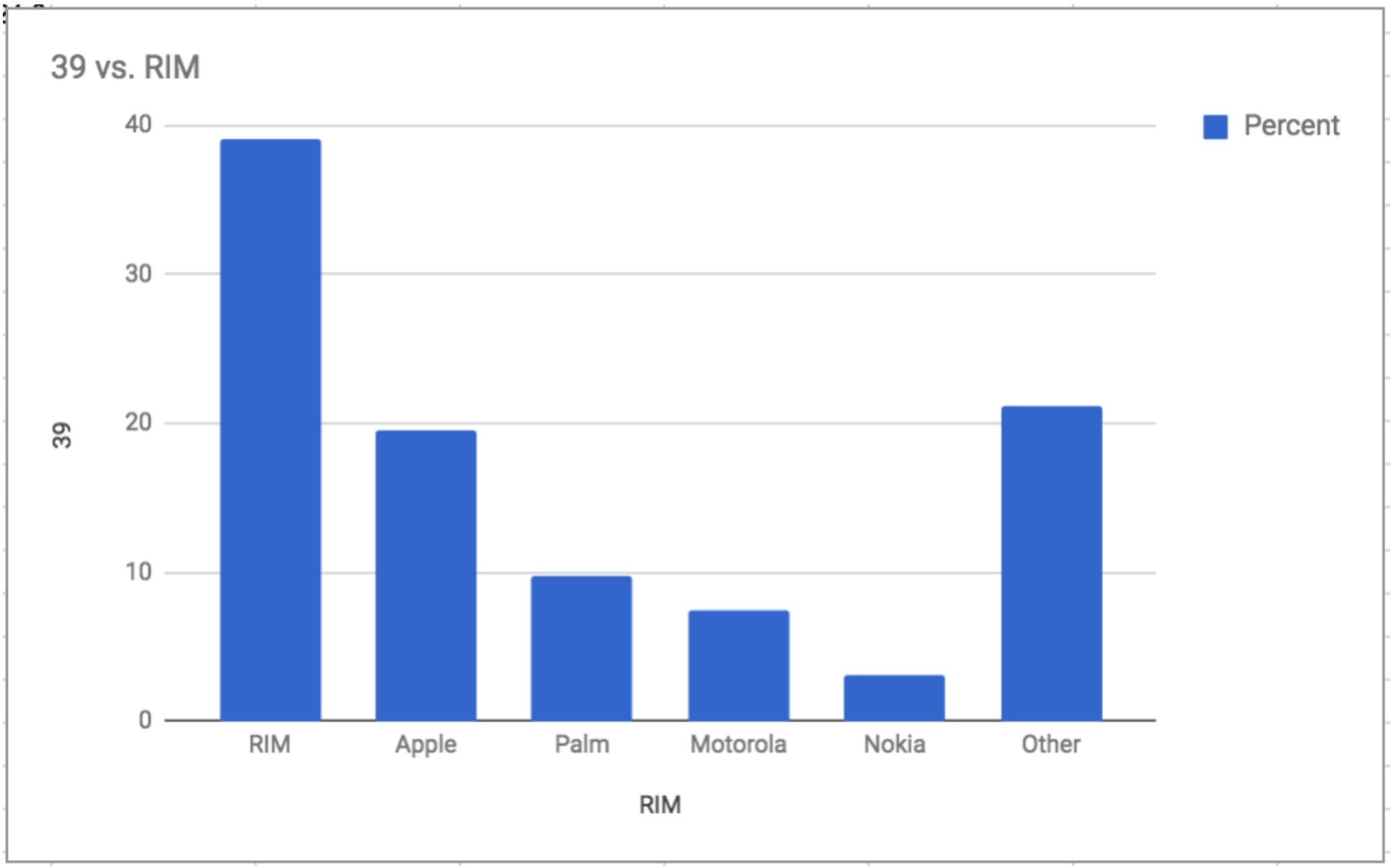
- ○ Chart Junk
- ○ Design Integrity
- ○ Data-Ink Ratio
- ○ This should be used for Exploratory analysis and not Explanatory analysis.

What all could be done to improve the above visual? Check all that apply.

- ☐ Change the coloring to be less dramatic, while still relating to the different companies.
- ☐ Remove 3D aspect.
- ☐ Use a visual that uses length (bar chart) rather than area (pie chart) to demonstrate differences, as humans are better able detect differences in lengths.
- ☐ Remove the percentages, as they are redundant to the area of the pie chart slice.
- ☐ Remove the legend, and put the names of the companies directly on the plot.

Updated Visual

The same data presented in the image above is recorded in the spreadsheet here. This data was used to create the following visual; the next question asks how this plot could be improved.

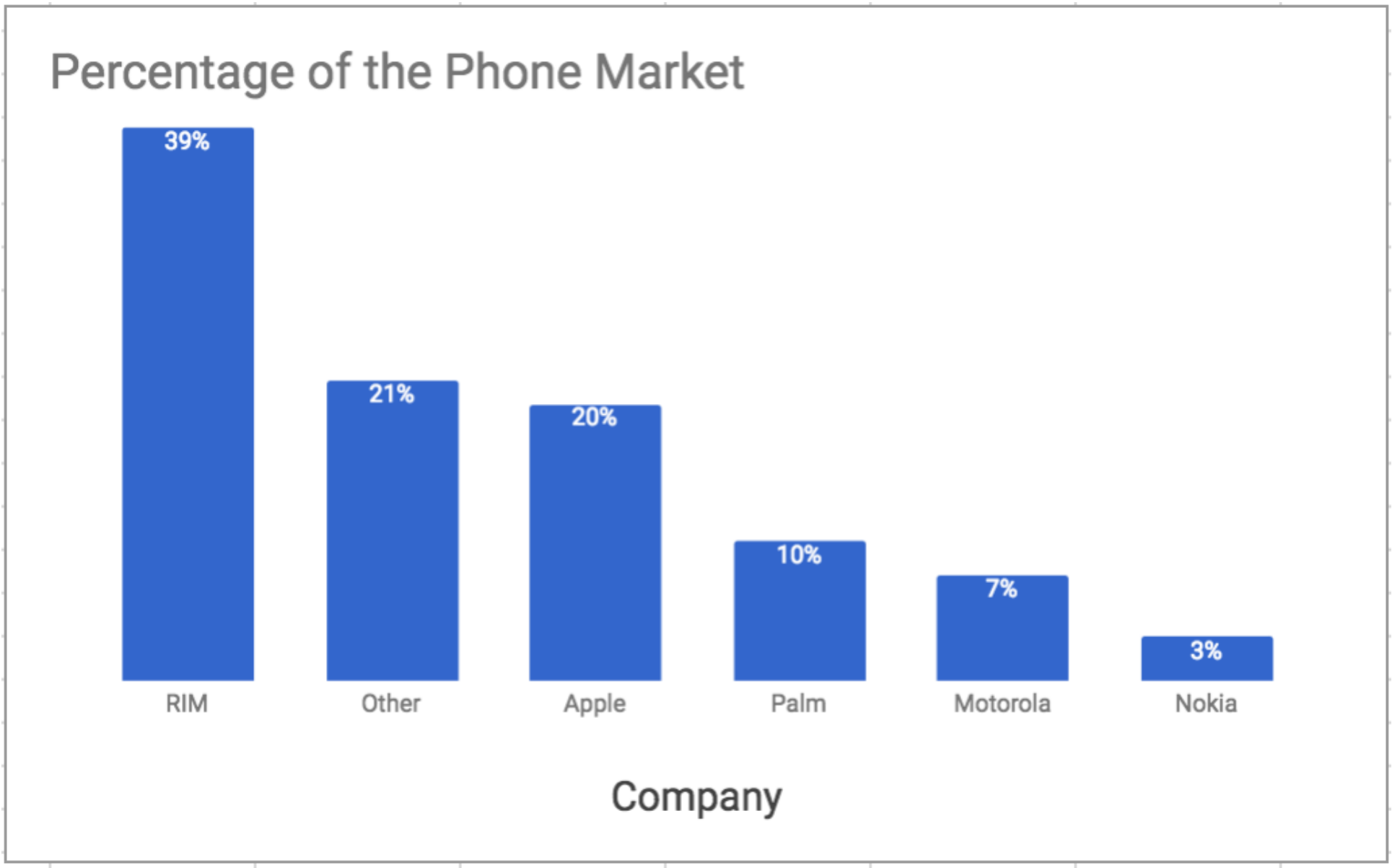


Using the above bar chart, select all that apply for improving this visual. Check all that apply.

- [ ] Rename axis labels and title.
- [ ] Order the bars in alphabetical order for an easier comparison.
- [ ] Order the bars according to height for an easier comparison.
- [ ] Remove legend, as percent isn't a useful legend label.
- [ ] Color the bars to highlight the different companies.
- [ ] Add to the legend the company names and color the bars as represented in the legend.

There are always personal preferences. The visual below is a **good visualization** of this data from a design, following the principles of:

1. reducing chart junk,
2. maintaining a high data-ink ratio,
3. maintaining data integrity, and
4. using length to show changes and differences rather than areas.



Next Concept