9.1 Information Design

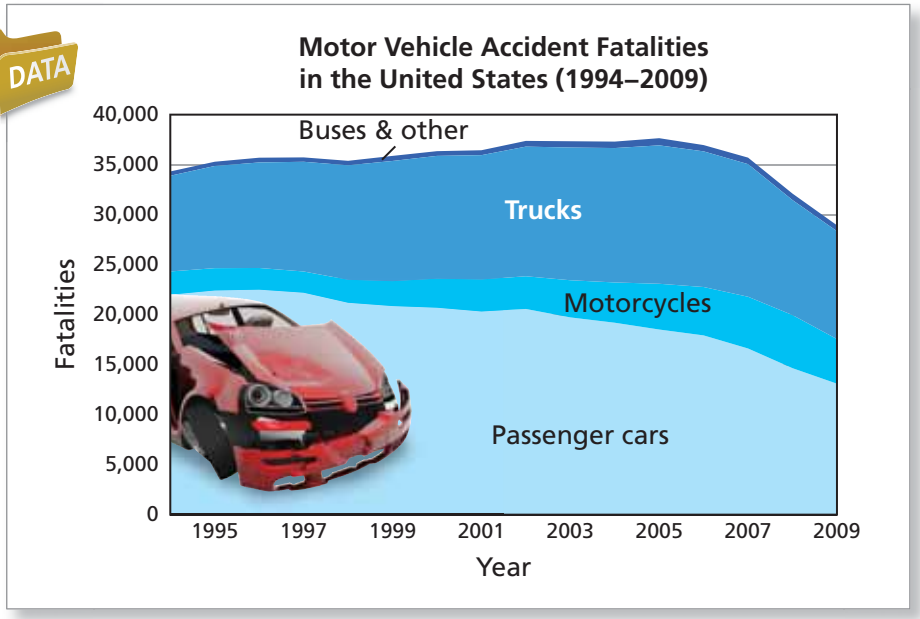
- Use stacked area graphs to represent the changing parts of a whole.
- Use a radar graph and an area graph to represent data.
- Graphically represent data sets that have several variables.

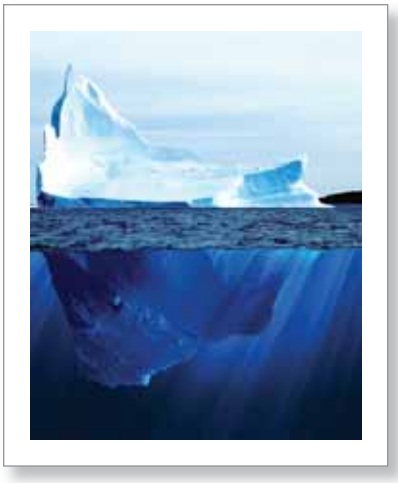
Stacked Area Graphs

Information design is the presentation of data and information so that people can understand and use it. Throughout this text, you have seen many types of information design: bar graphs, circle graphs, scatter plots, line graphs, and bubble graphs. In this section, you will look at several more graphical ways to organize and present data.

EXAMPLE 1 Reading a Stacked Area Graph

Describe the information presented in the *stacked area graph*.





The picture of data and information that you show people has everything to do with their understanding of the data and information.

SOLUTION

Here are some observations.

- The total number of fatalities was relatively constant from 1994 to 2007.
- The number of passenger car fatalities has decreased.
- In 1994, passenger cars accounted for about two-thirds of all motor vehicle fatalities. By 2009, they accounted for only about one-half of all motor vehicle fatalities.
- The number of motorcycle fatalities has increased.

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The data for Example 1 is available at *Math.andYou.com*. Use the data to compare motorcycle fatalities in 1994 and 2009.