Visualizing multiple trends on a chart
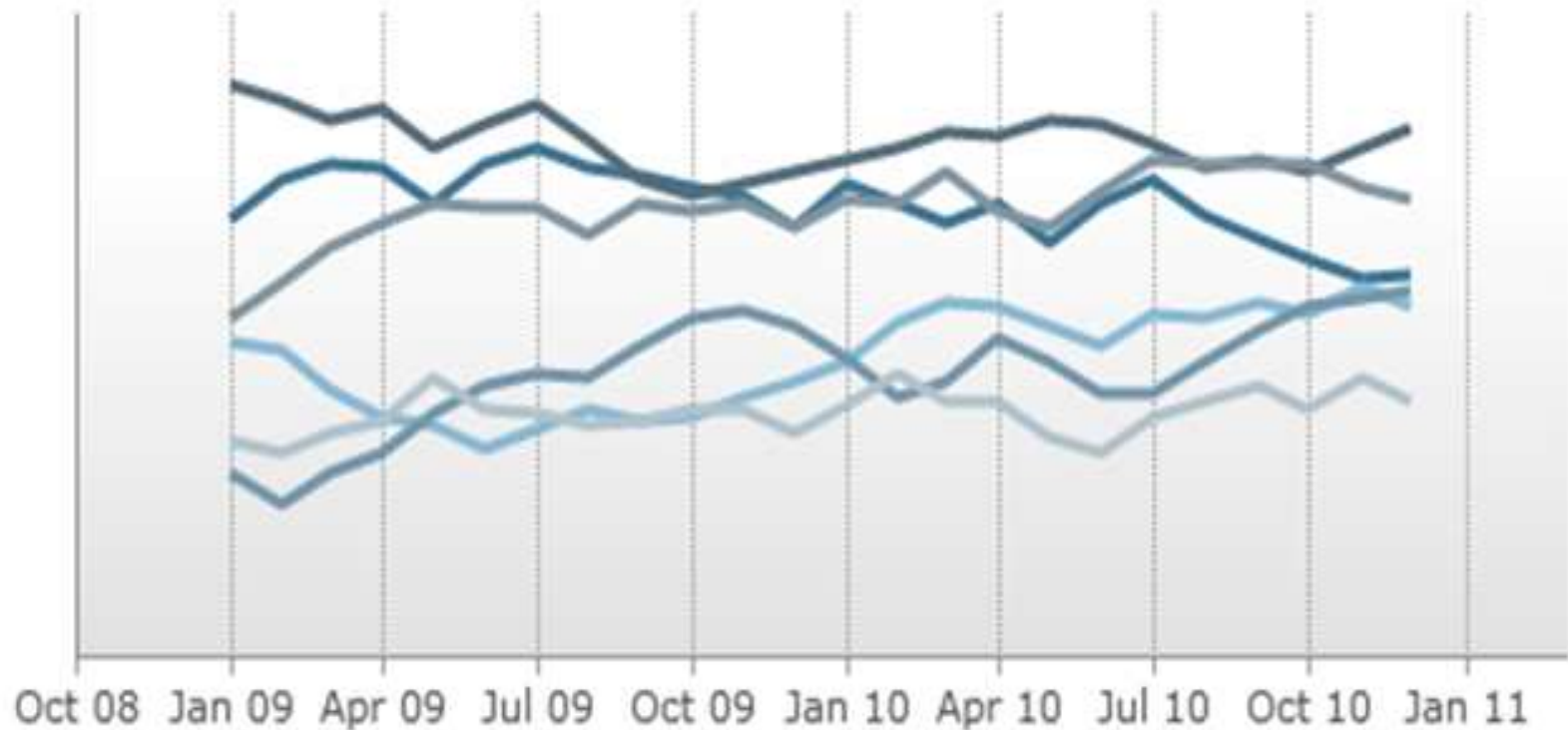

Oct 08 Jan 09 Apr 09 Jul 09 Oct 09 Jan 10 Apr 10 Jul 10 Oct 10 Jan 11

Figure 61: Large number of trends on a single chart creates an unreadable mess
Source: www.dashboardinsight.com (Alexander Chiang)
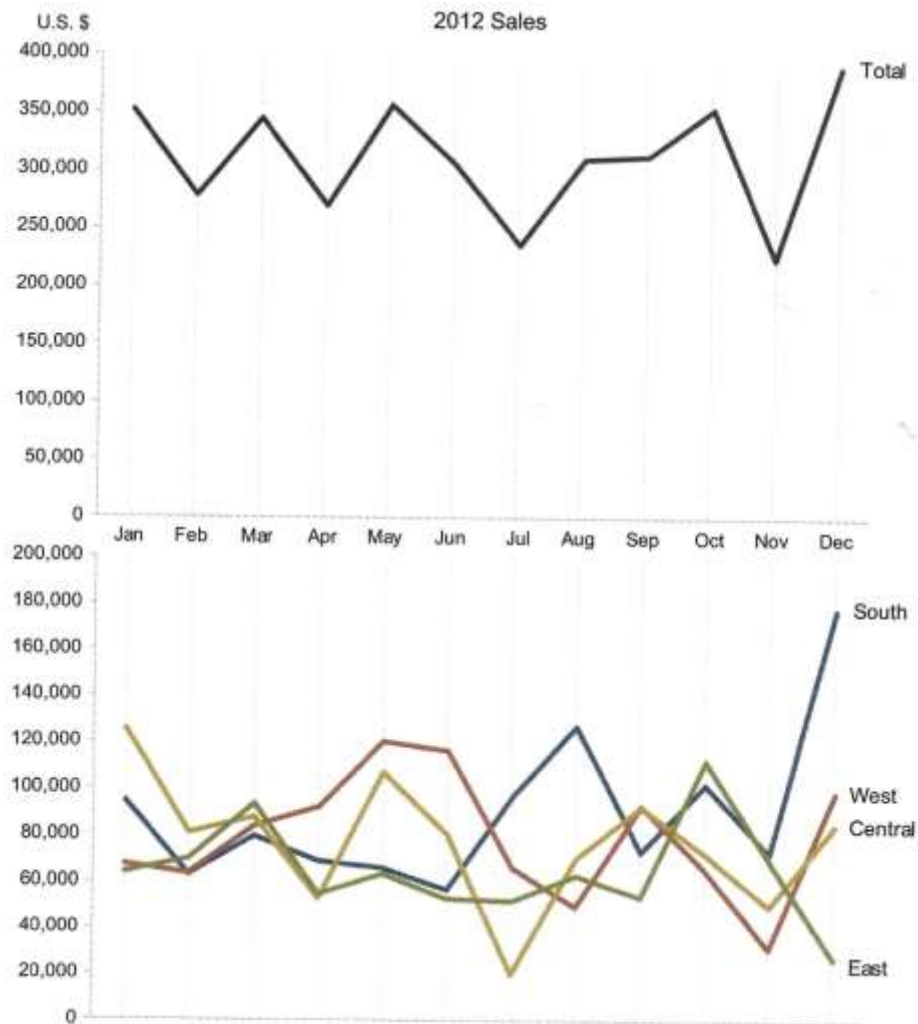
Using two charts instead of one

Figure 62: Using two graphs instead of one
Source: Information Dashboard Design, Few

Using user selectable lines

Figure 63: Using checkboxes to show and hide trends
Source: www.dashboardinsight.com (Alexander Chiang)

Highlighting trends

Figure 64: Highlighting a trend in response to mouse input
Source: www.dashboardinsight.com (Alexander Chiang)

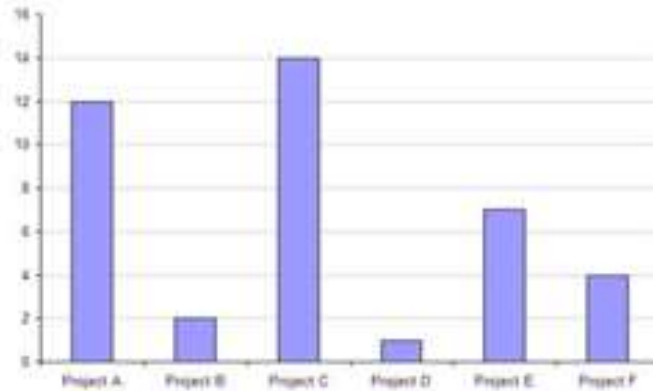**Balancing simplicity and depth**

Data presentation options

Figure 65: Example of a vertical bar chart – Time spent on projects
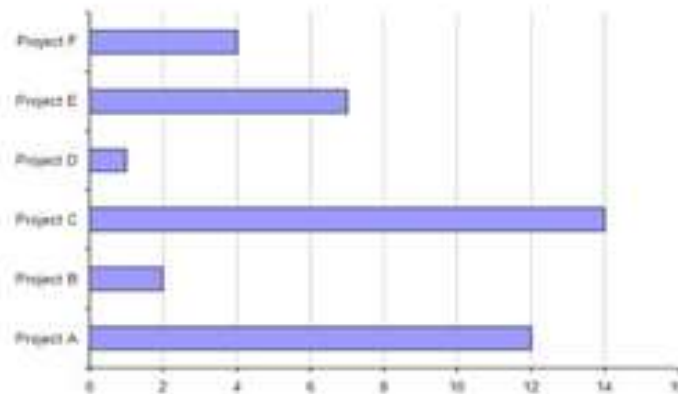**Source: www.uxmatters.com, Mike Hughes**

Figure 66: Example of a horizontal bar chart – Time spent on projects
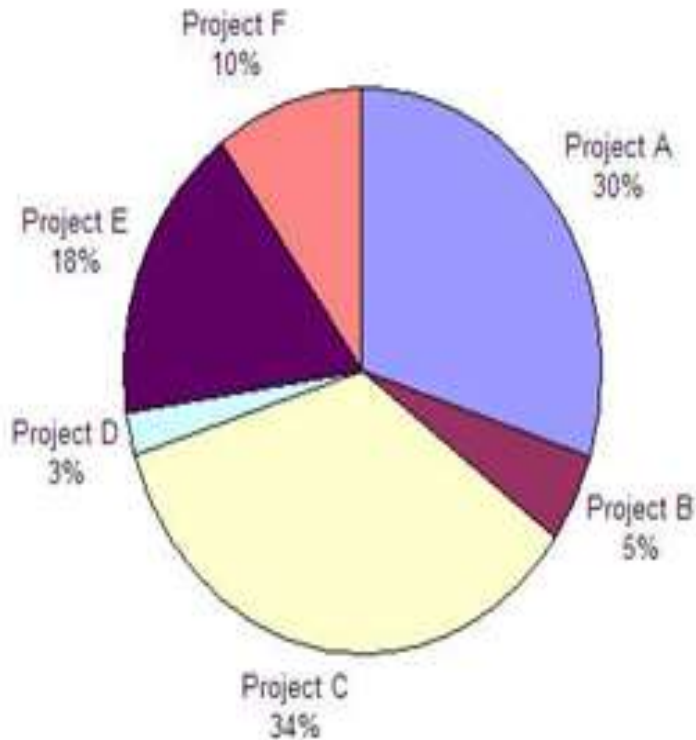**Source: www.uxmatters.com, Mike Hughes**

Data presentation options

Figure 67: Example of a pie chart – Distribution of time spent on projects
Source: www.uxmatters.com, Mike Hughes
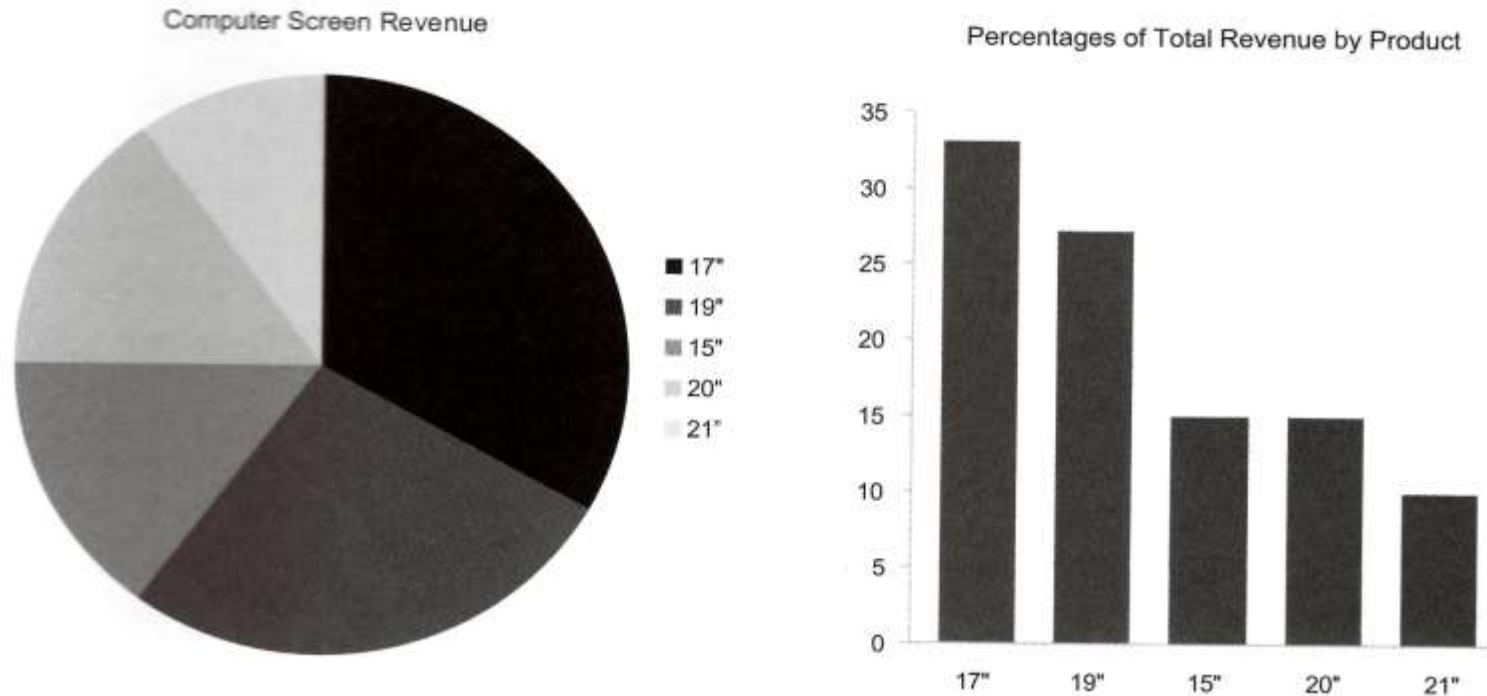
Data presentation options

Computer Screen Revenue

Percentages of Total Revenue by Product

Figure 68: Pie chart compared to bar graph
Source: Information Dashboard Design, Few
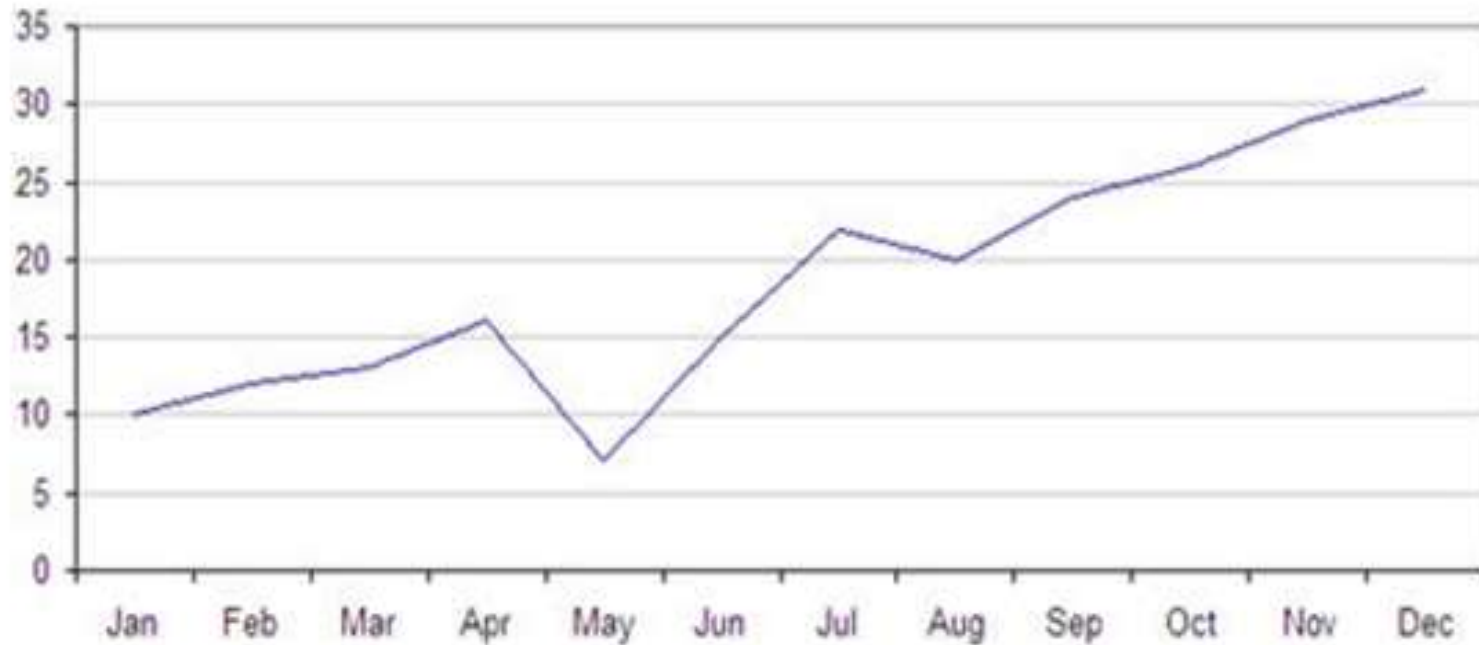
Data presentation options

Figure 69: Example of a line graph showing a trend
Source: www.uxmatters.com, Mike Hughes
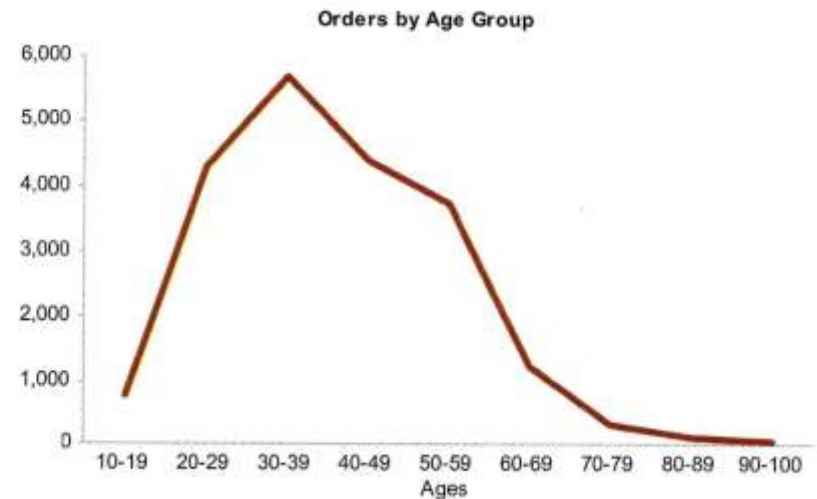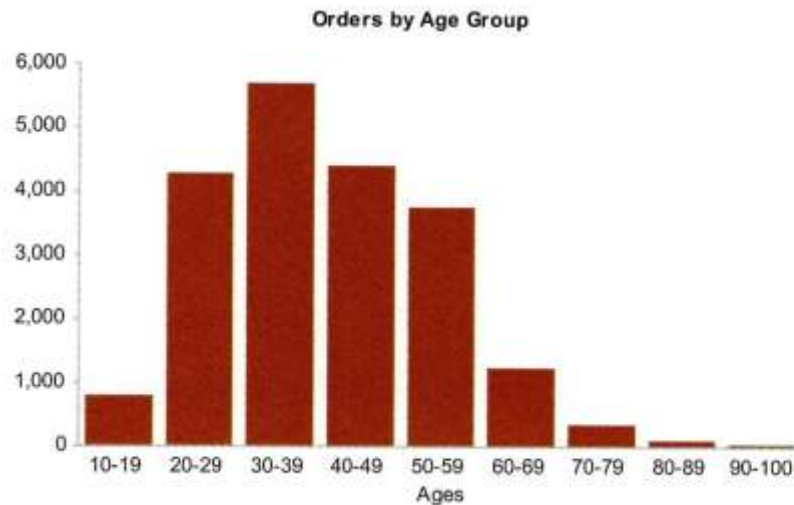
Data presentation options

Figure 70: Bar chart versus line chart
Source: Information Dashboard Design, Few
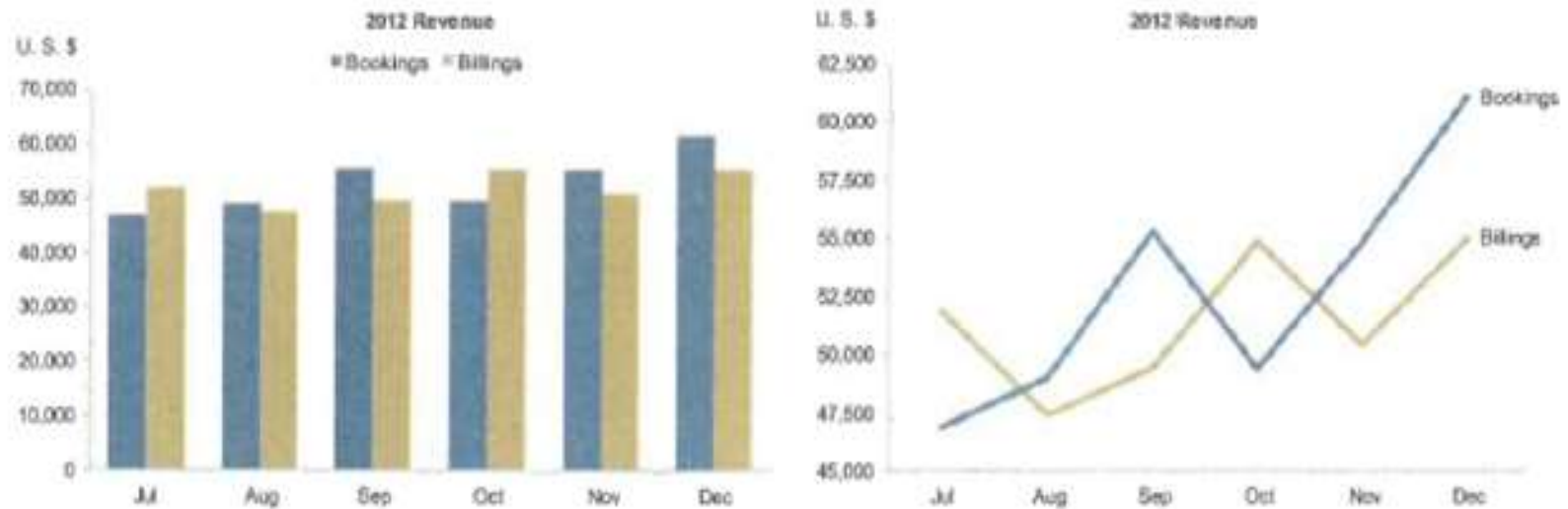
Data presentation options

Figure 71: Bar chart versus line chart
Source: Information Dashboard Design, Few
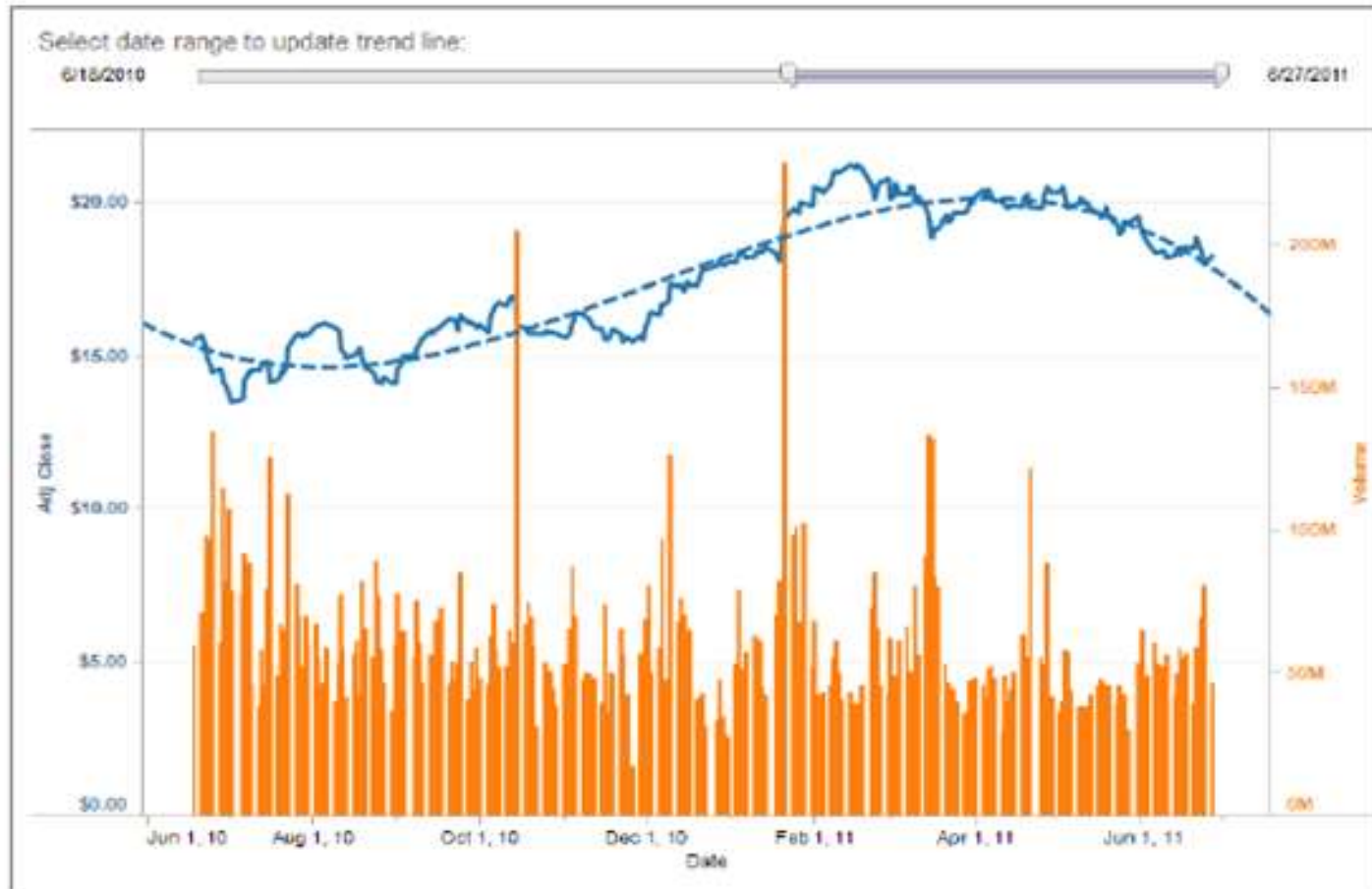
Data presentation options

Figure 72: Combining line charts with bar and trend lines
Source: Which chart is right for you, Tableau Software

Data presentation options

Figure 73: Combining line charts with bar and trend lines
Source: www.stockcharts.com
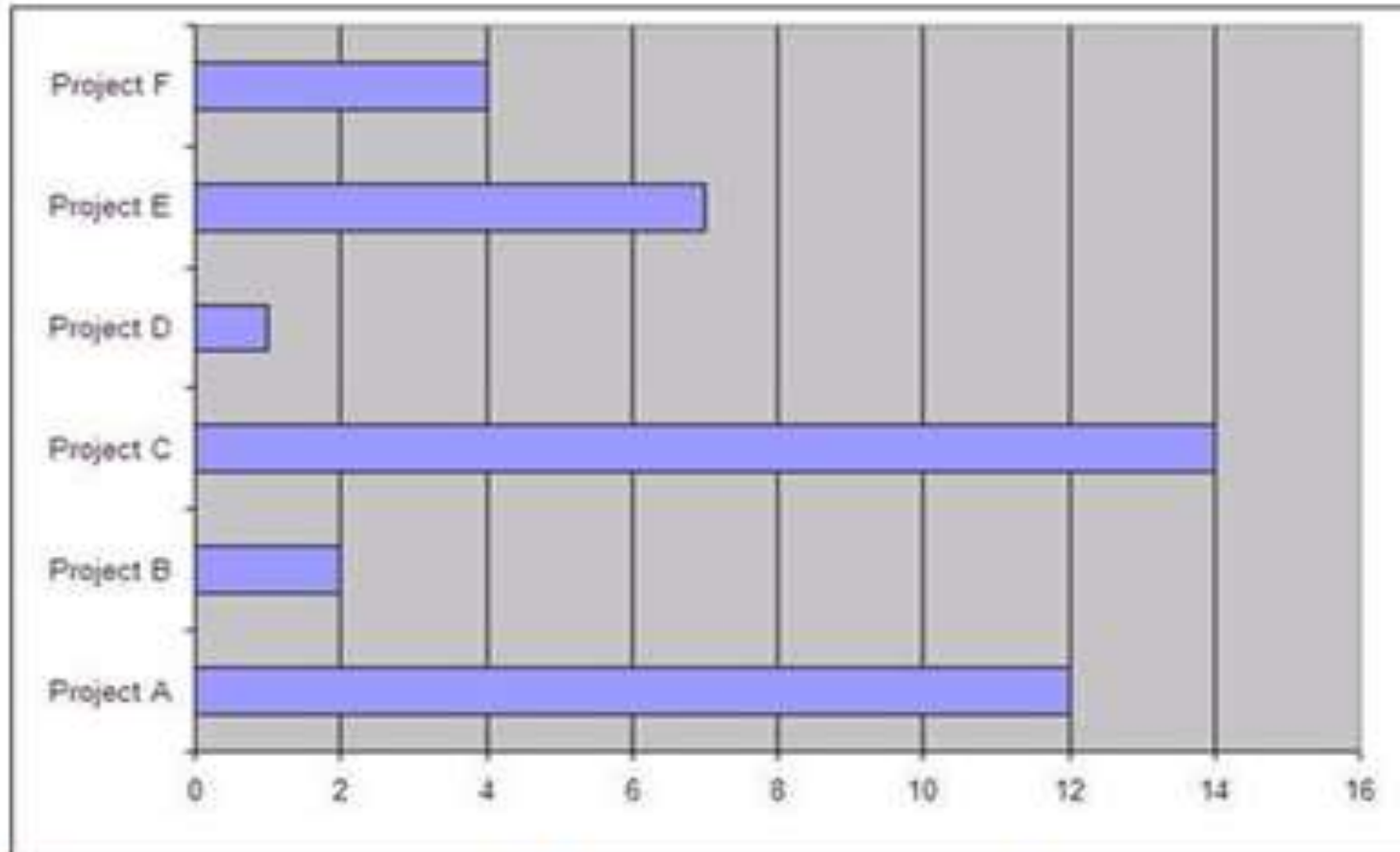
Guidelines for making graphs more readable

Figure 74: Chart with unnecessary, non-data pixels
Source: www.uxmatters.com, Mike Hughes

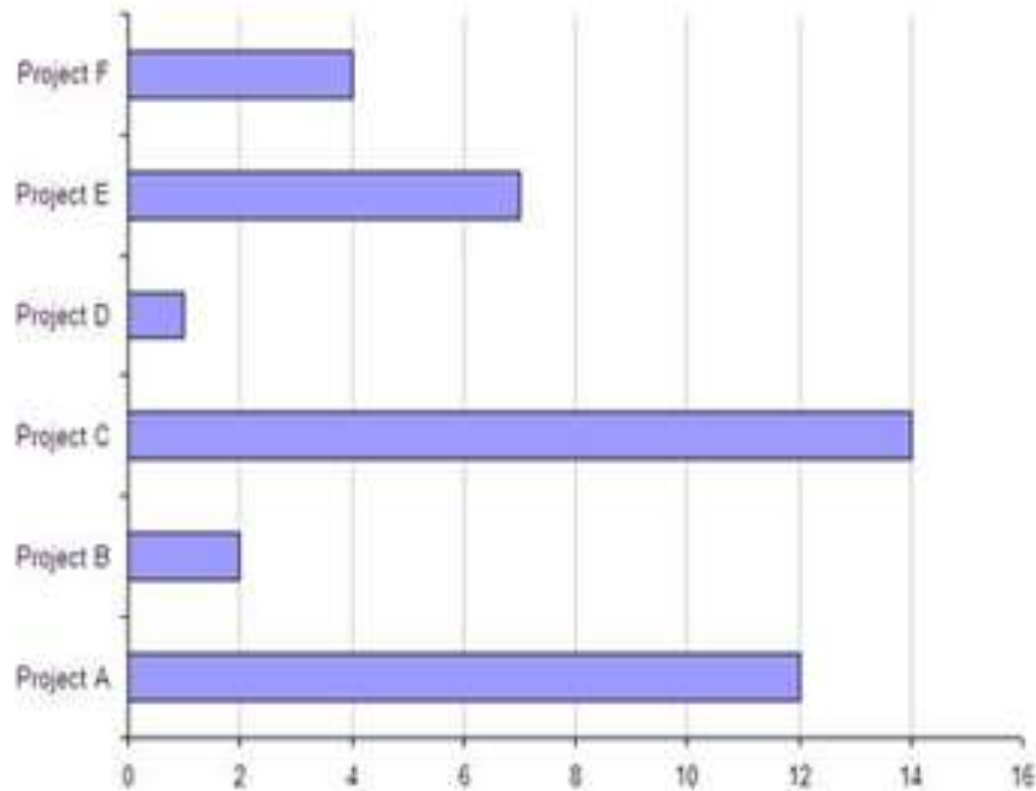# *Guidelines for making graphs more readable*

Figure 75: Chart with unnecessary non-data pixels removed
Source: www.uxmatters.com, Mike Hughes
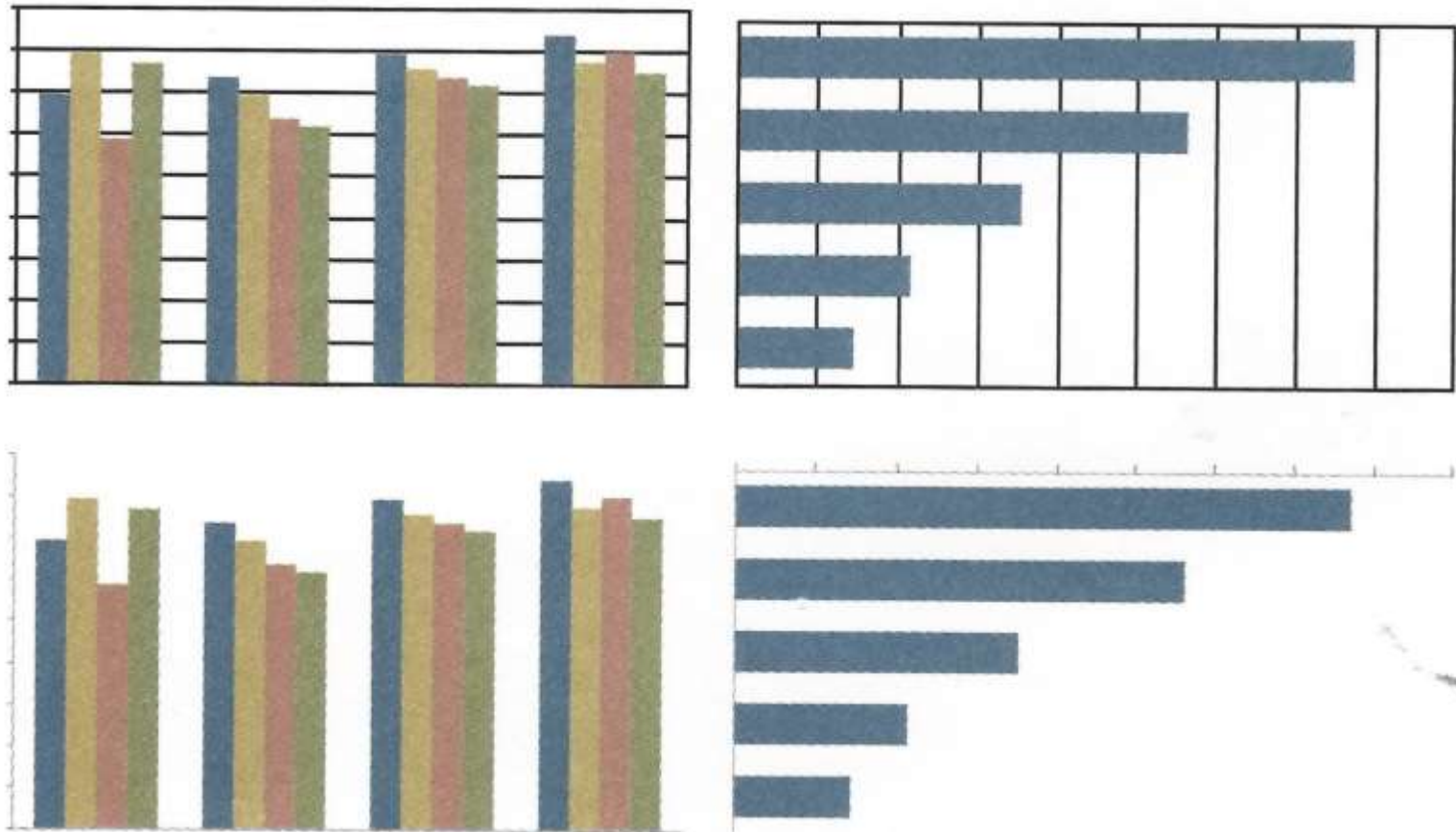
Guidelines for making graphs more readable

Figure 76: Chart with/without unnecessary lines
Source: Information Dashboard Design, Few

Selecting the type of chart to use

- **Bar charts**
- **Line charts**
- **Pie charts**
- **Map charts**
- **Scatter plot**
- **Histogram**
- **Bullet**
- **Heat Map**