

Qualitative Graphs

Why Bother with a Graph?

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The same principal can be applied to datasets.

Objectives

- 1 Create and interpret bar graphs

Bar Graphs

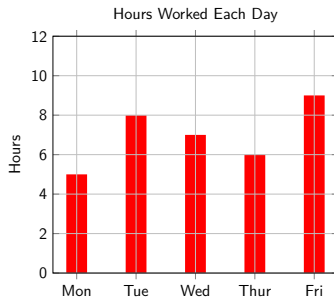
Bar Graph

A **bar graph** is a visual display of data in which bars are plotted, where one dimension represents each category and the other dimension represents the frequency (or relative frequency) of each category.

Bar Graphs

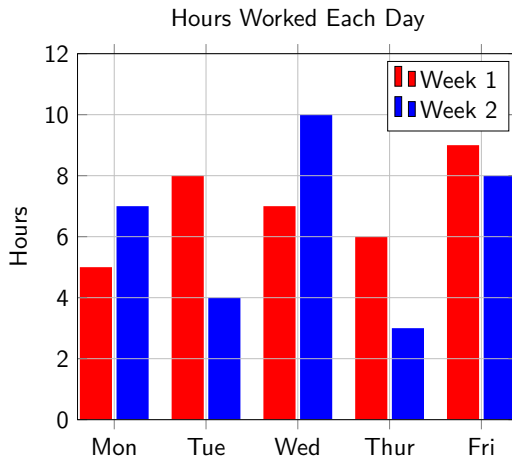
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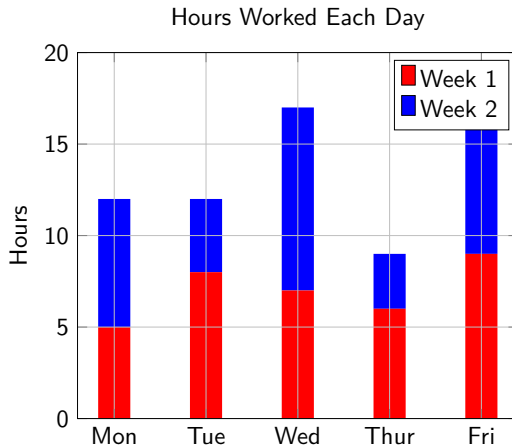
Bar Graphs

Bar graphs can be clustered:



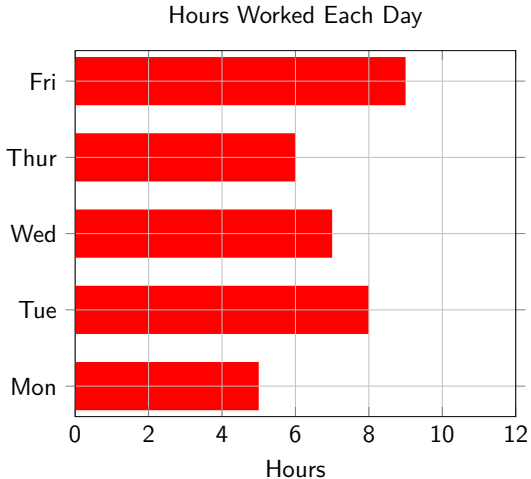
Bar Graphs

Bar graphs can be stacked:



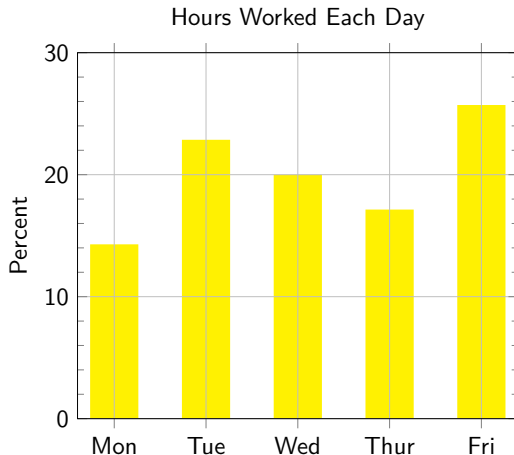
Bar Graphs

Bar graphs can be horizontal:



Bar Graphs

Bar graphs can show relative frequency (percent of total):



Creating a Bar Graph

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Day	Hours Worked	Percent Total
Monday	5	14.29%
Tuesday	8	22.86%
Wednesday	7	20.00%
Thursday	6	17.14%
Friday	9	25.71%

Example 1