

2 Quantitative exploratory data analysis

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In the last chapter, you learned how to graphically explore data. In this chapter, you will compute useful summary statistics, which serve to concisely describe salient features of a data set with a few numbers.

▶ Introduction to summary statistics: The sample mean and median	50 xp
≡ Means and medians	50 xp
</> Computing means	100 xp
▶ Percentiles, outliers, and box plots	50 xp
</> Computing percentiles	100 xp
</> Comparing percentiles to ECDF	100 xp
</> Box-and-whisker plot	100 xp
▶ Variance and standard deviation	50 xp
</> Computing the variance	100 xp
</> The standard deviation and the variance	100 xp
▶ Covariance and Pearson correlation coefficient	50 xp
</> Scatter plots	100 xp
≡ Variance and covariance by looking	50 xp
</> Computing the covariance	100 xp
</> Computing the Pearson correlation coefficient	100 xp

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