

Figure 1.1 Basic plots in Pandas showing average life expectancy over time

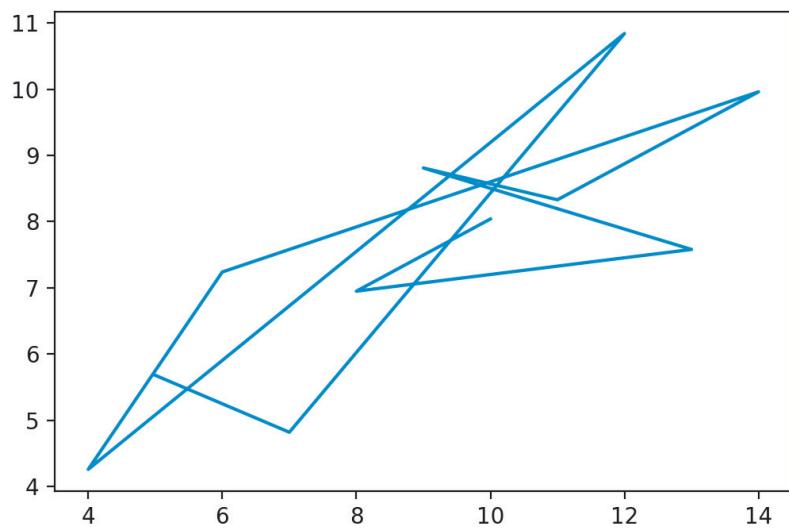


Figure 3.1 Anscombe data set I

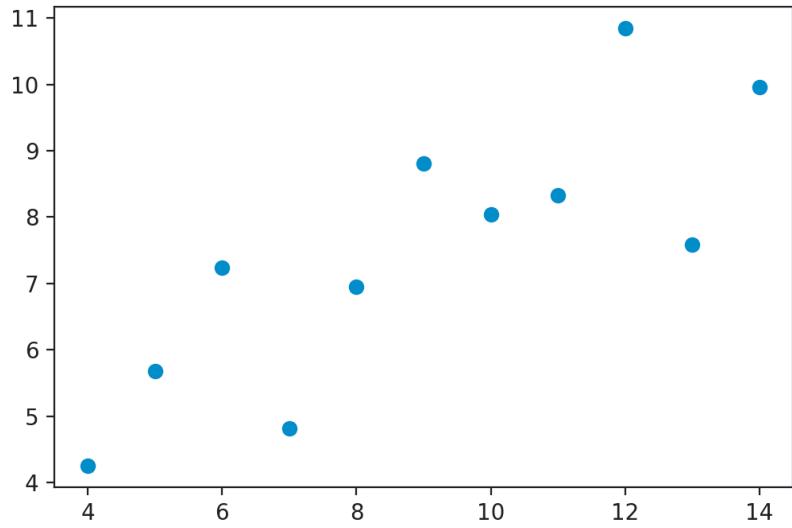


Figure 3.2 Anscombe data set I using points

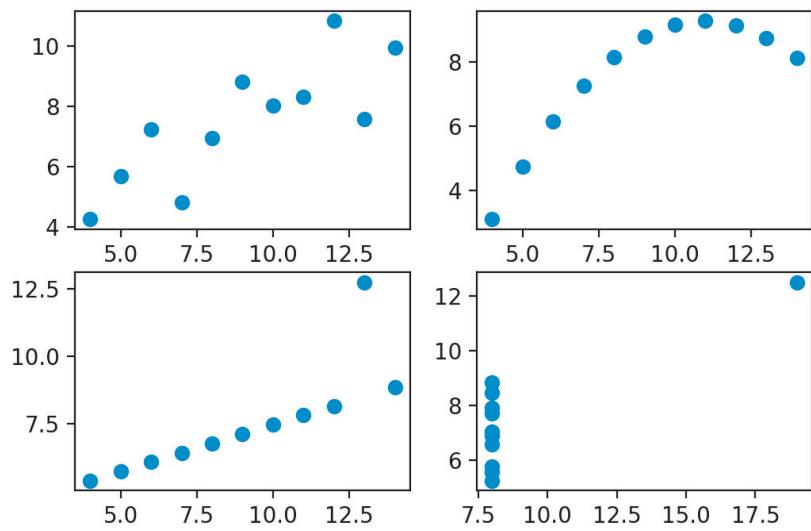


Figure 3.4 Matplotlib figure with four scatterplots

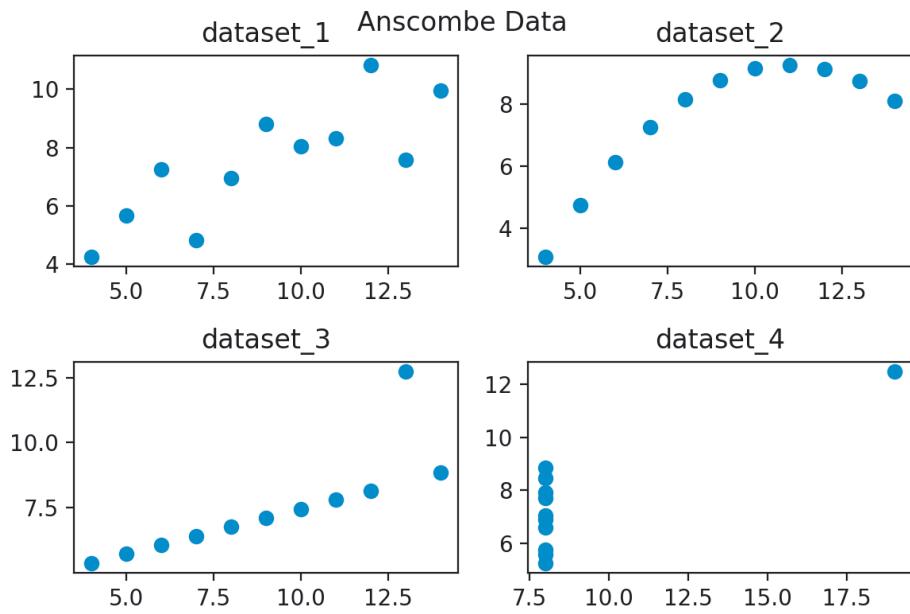


Figure 3.5 Anscombe data visualization

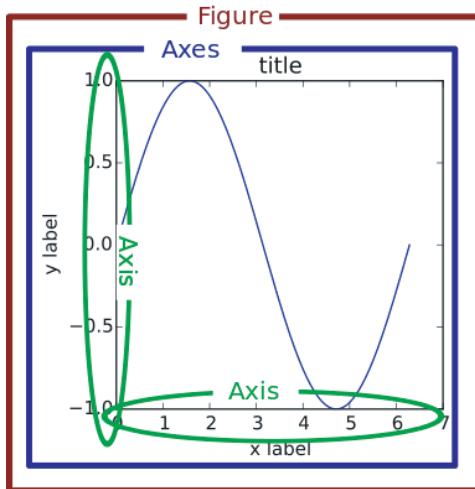


Figure 3.6 One of the most confusing parts of plotting in Python is the use of the terms “axis” and “axes,” since they are pronounced the same way but refer to different parts of a figure. This was the older version of the “Parts of a Figure” figure from the matplotlib documentation.

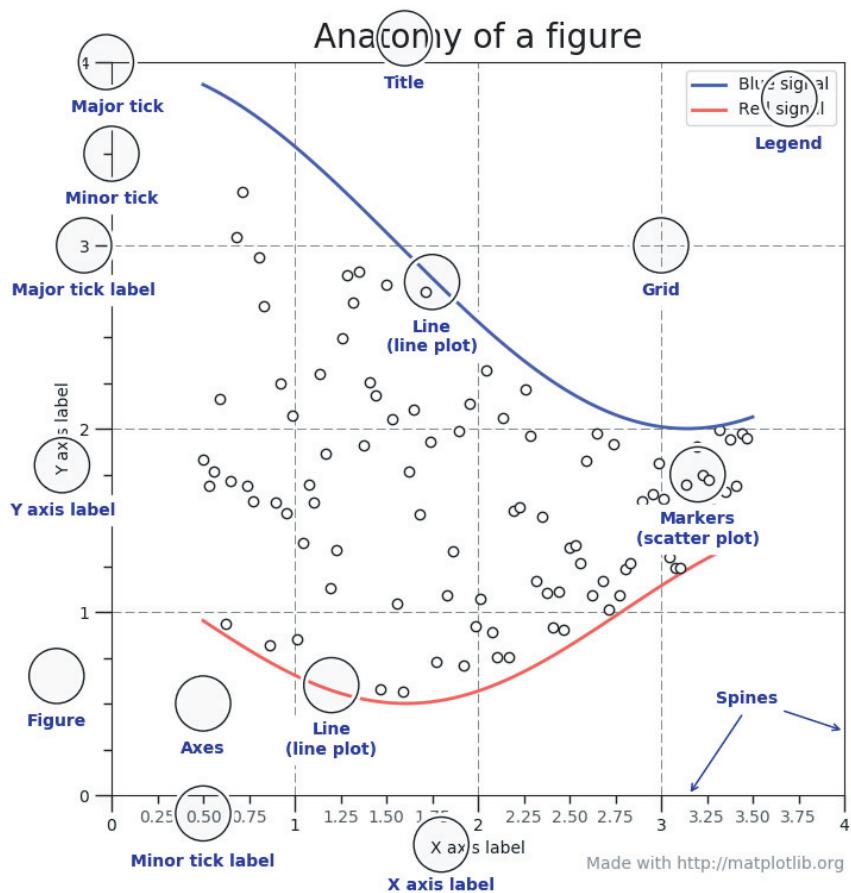


Figure 3.7 A newer version of the “Parts of a Figure” depiction, with more details about the other aspects of a figure. Unlike the older figure, the newer one is completely created using matplotlib.

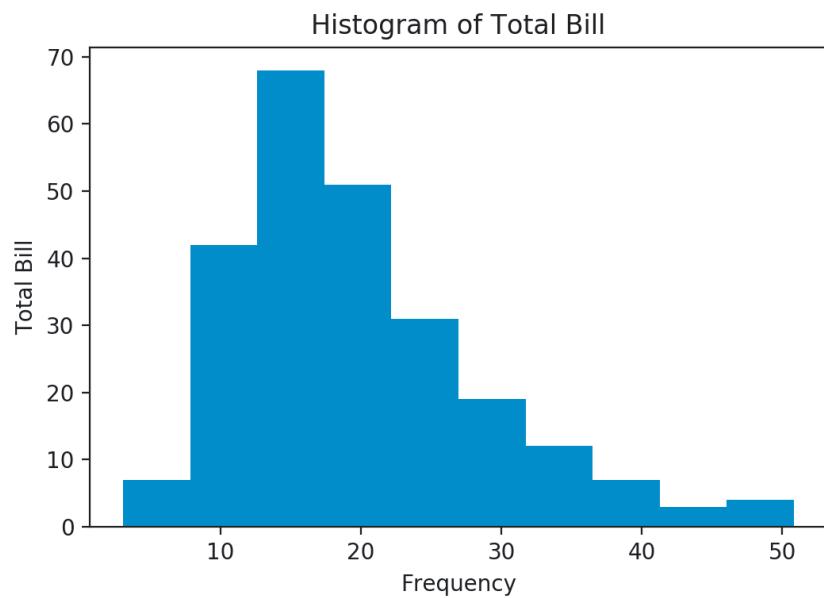


Figure 3.8 Histogram using matplotlib

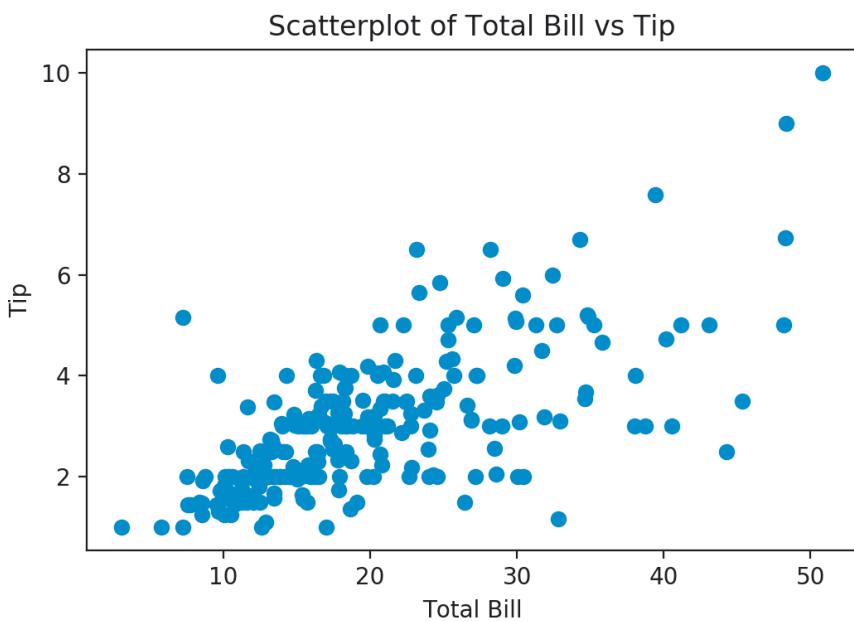


Figure 3.9 Scatterplot using matplotlib

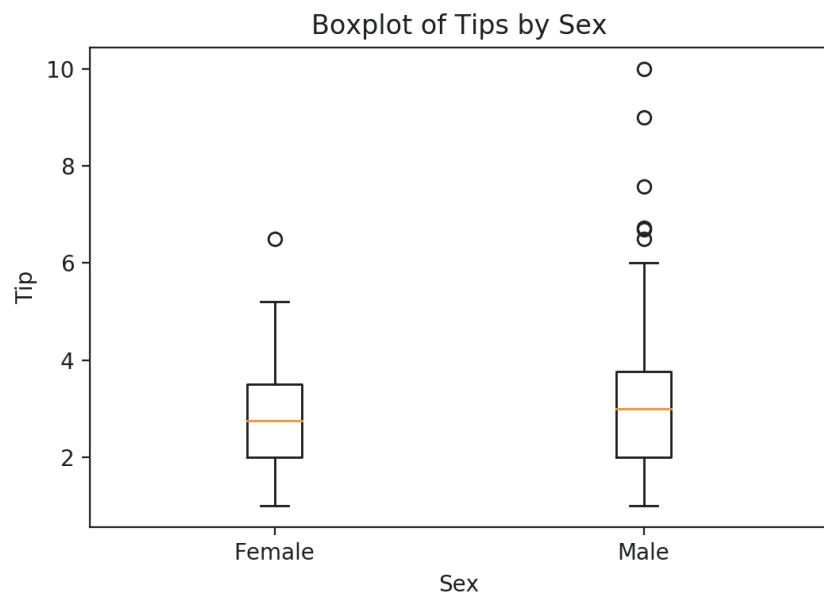


Figure 3.10 Boxplot using matplotlib

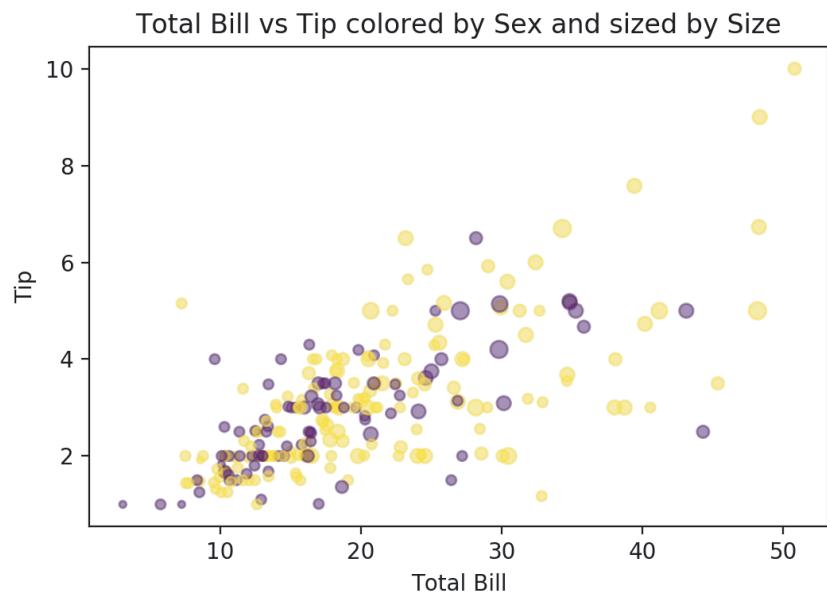


Figure 3.11 Scatterplot using matplotlib with color

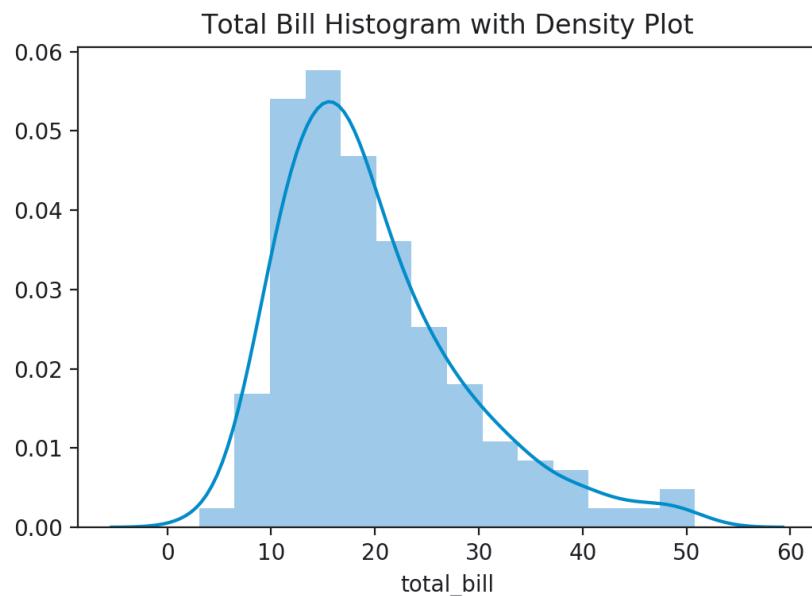


Figure 3.12 Seaborn distplot

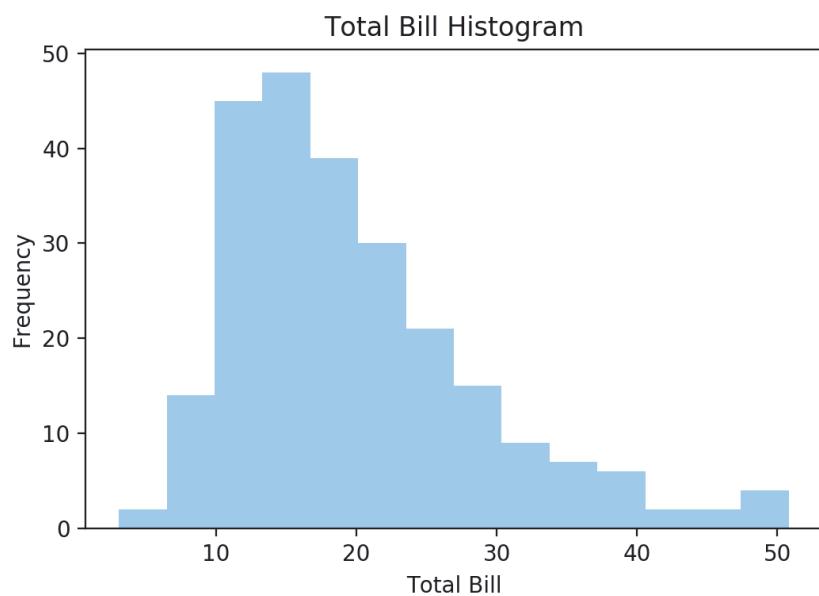


Figure 3.13 Seaborn distplot

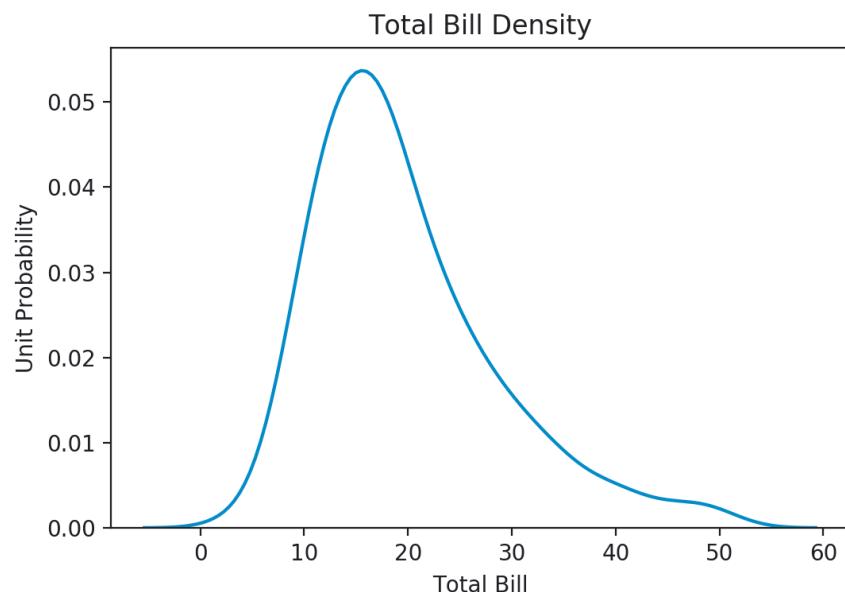


Figure 3.14 Seaborn density plot using distplot

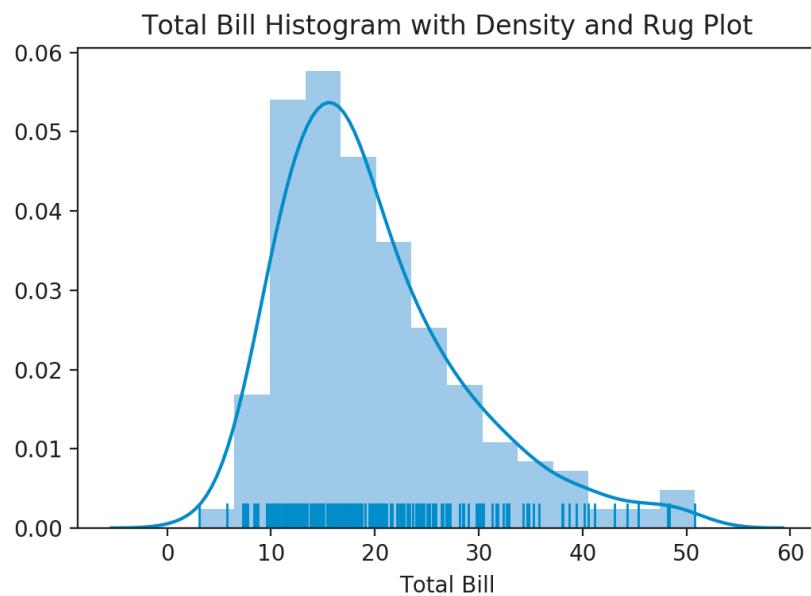


Figure 3.15 Seaborn distplot with rugs

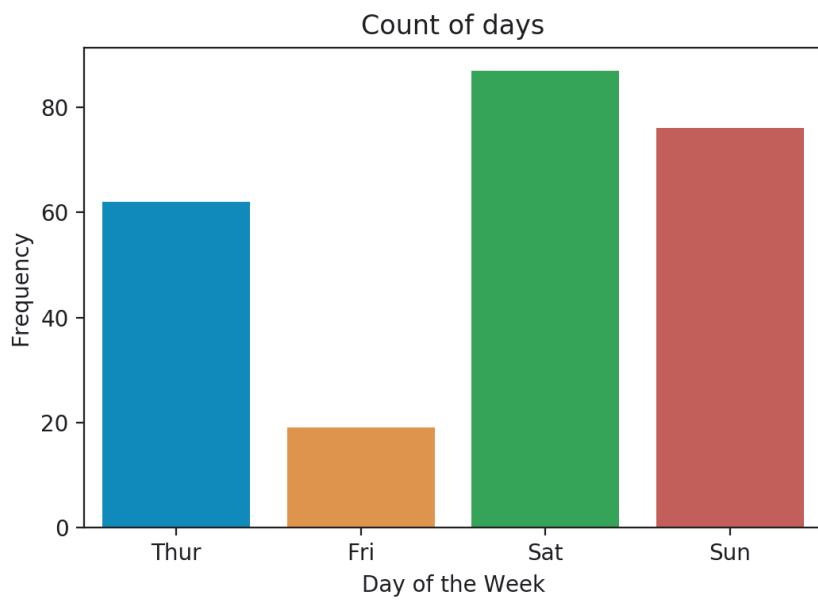


Figure 3.16 Seaborn count plot

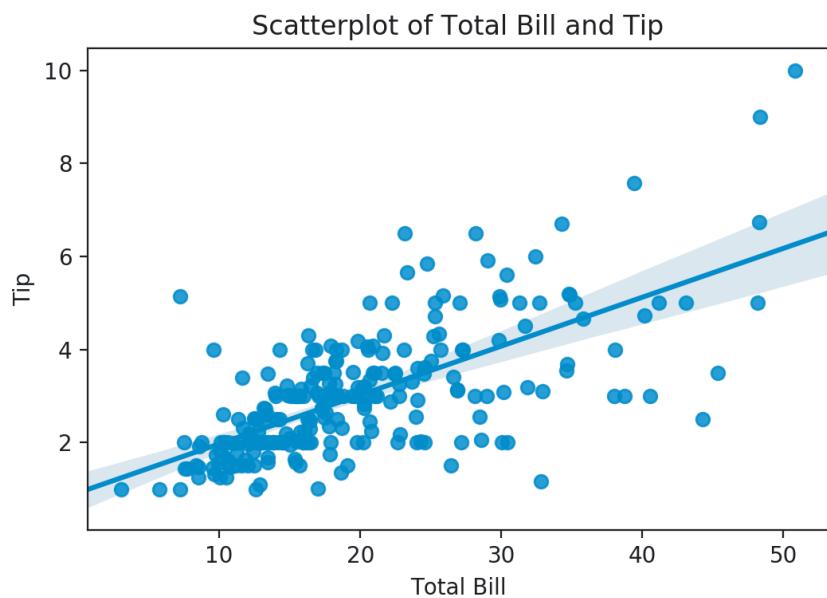


Figure 3.17 Seaborn scatterplot using regplot

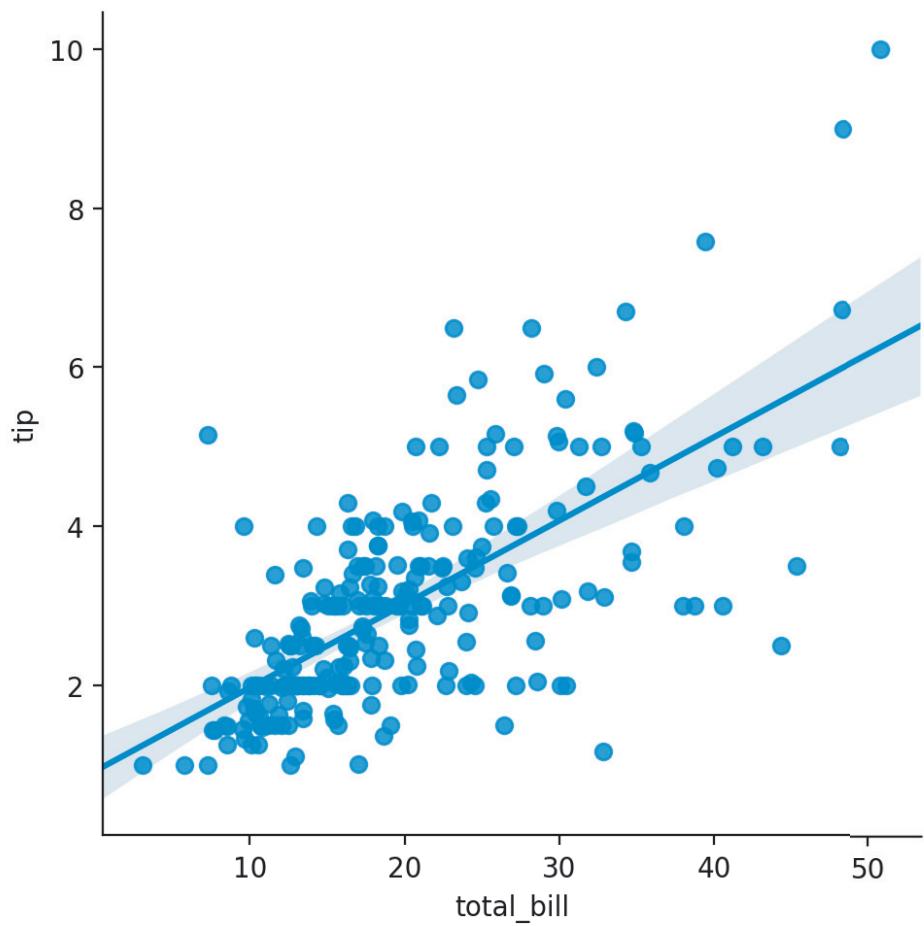


Figure 3.18 Seaborn scatterplot using lmplot

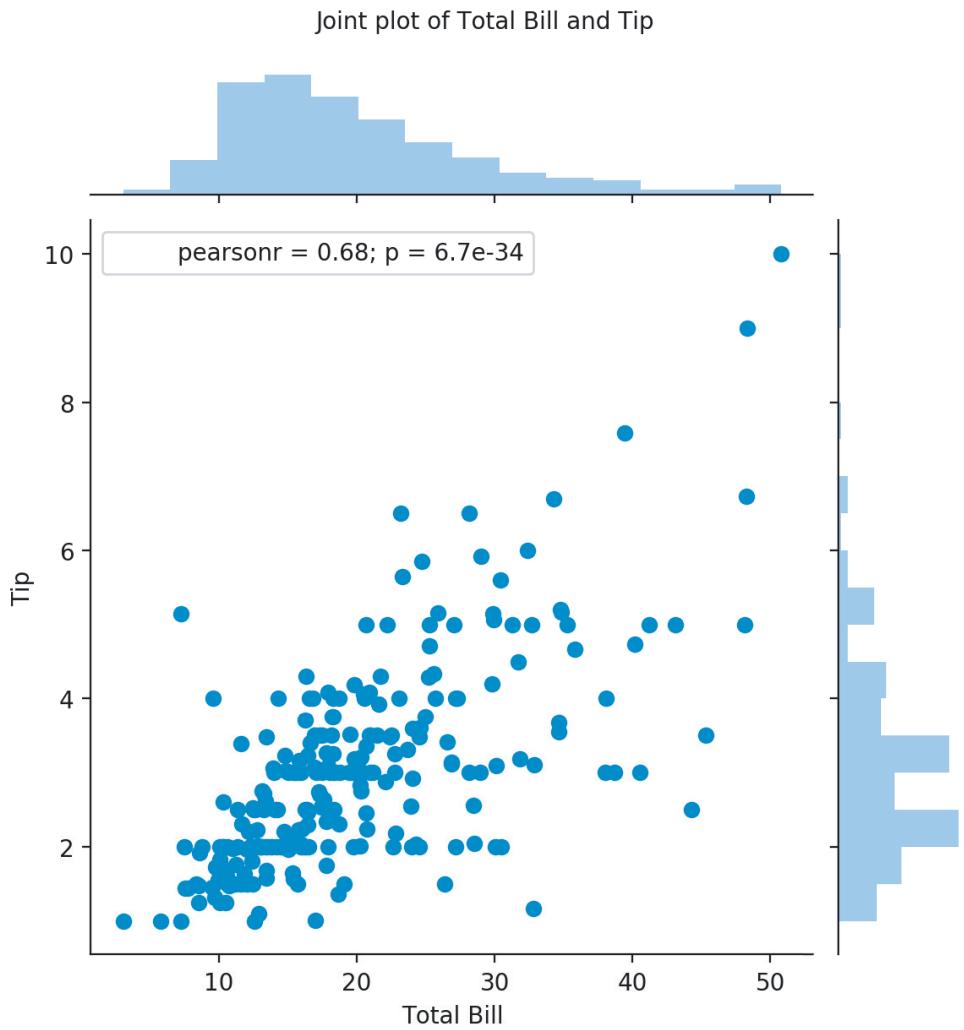


Figure 3.19 Seaborn scatterplot using jointplot

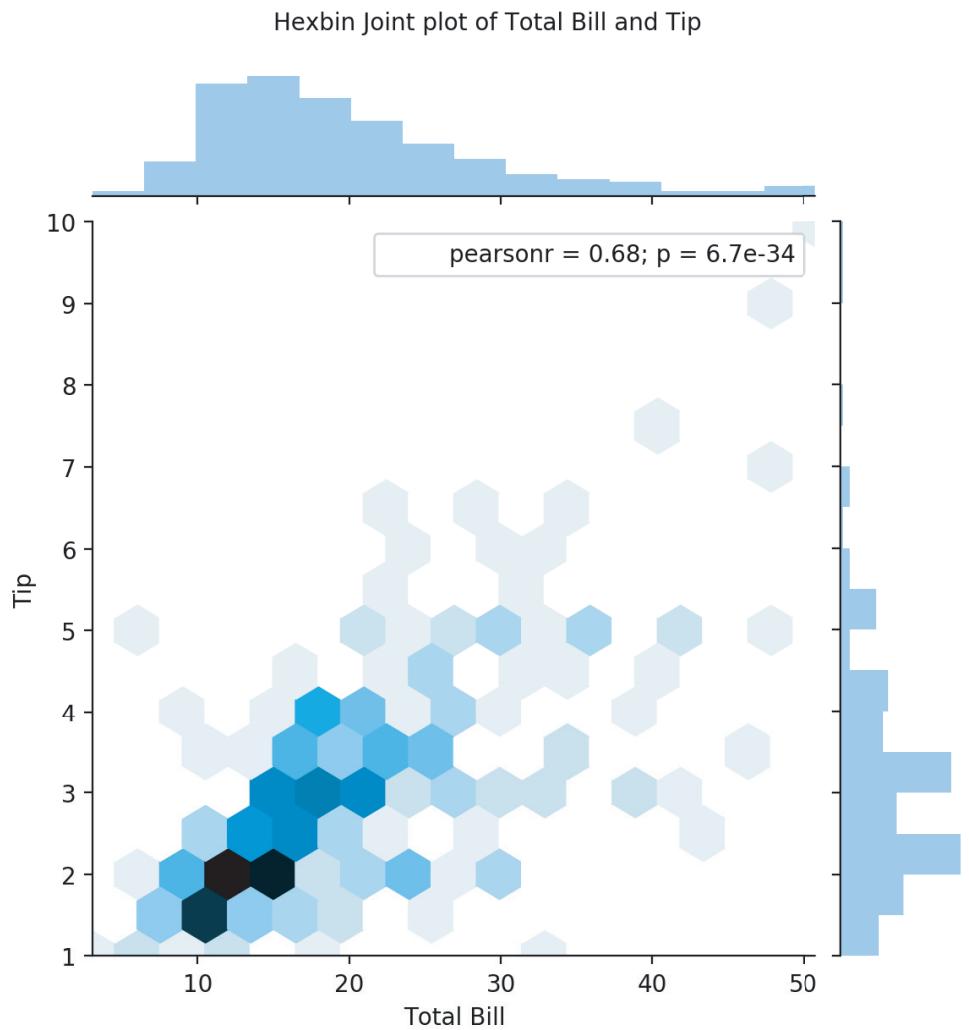


Figure 3.20 Seaborn hexbin plot using jointplot

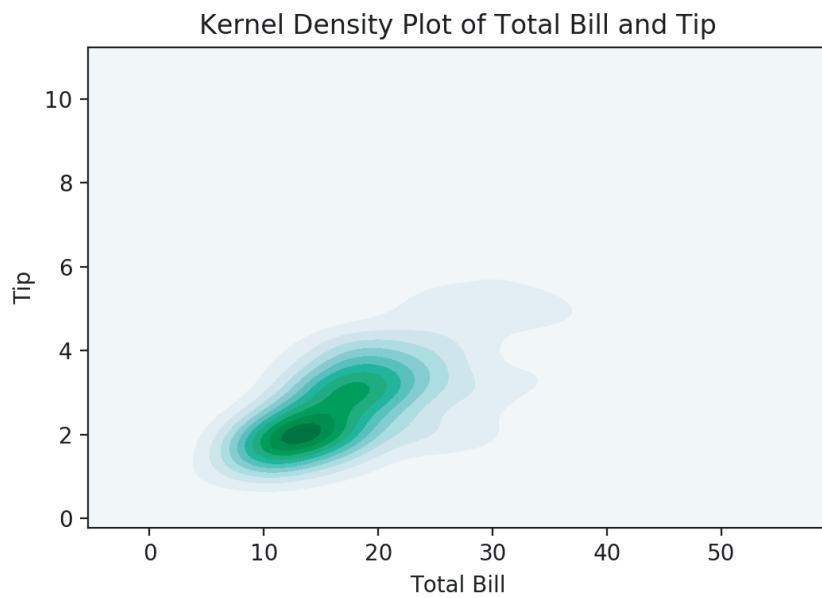


Figure 3.21 Seaborn KDE plot

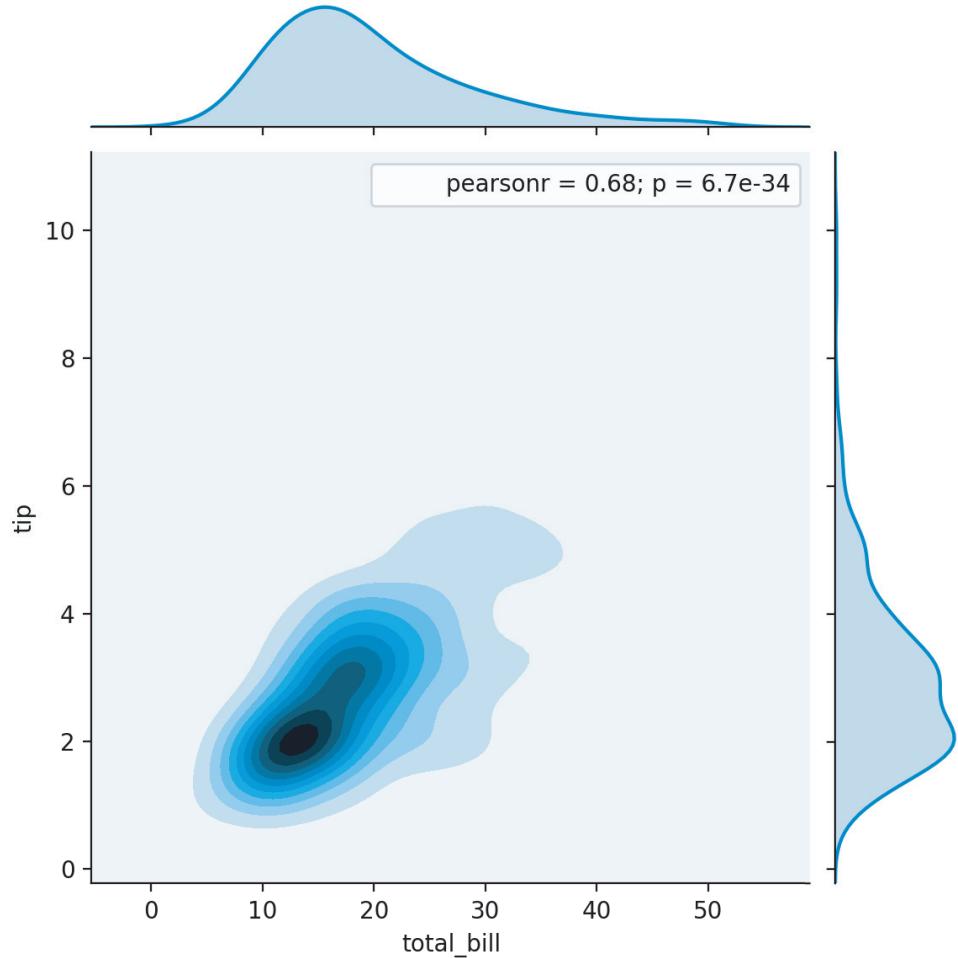


Figure 3.22 Seaborn KDE plot using jointplot

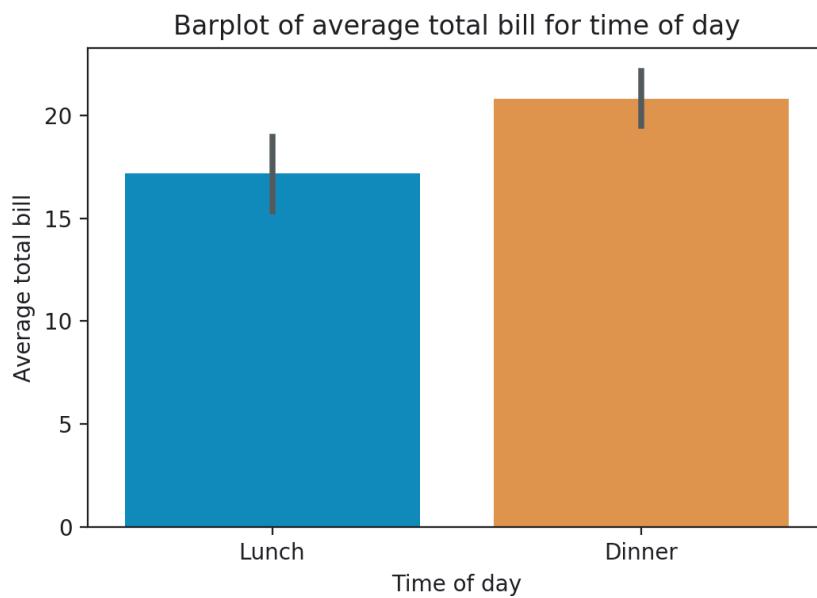


Figure 3.23 Seaborn bar plot using the default mean calculation

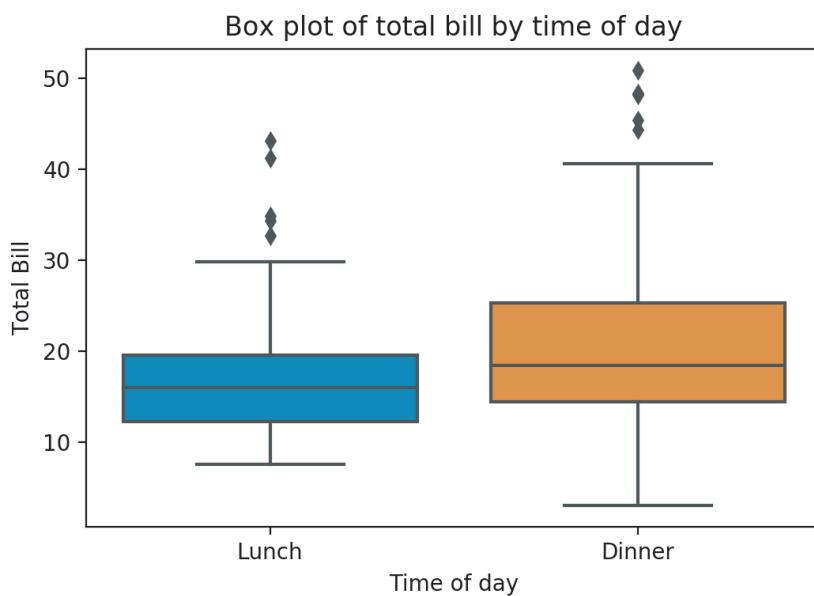


Figure 3.24 Seaborn boxplot of total bill by time of day

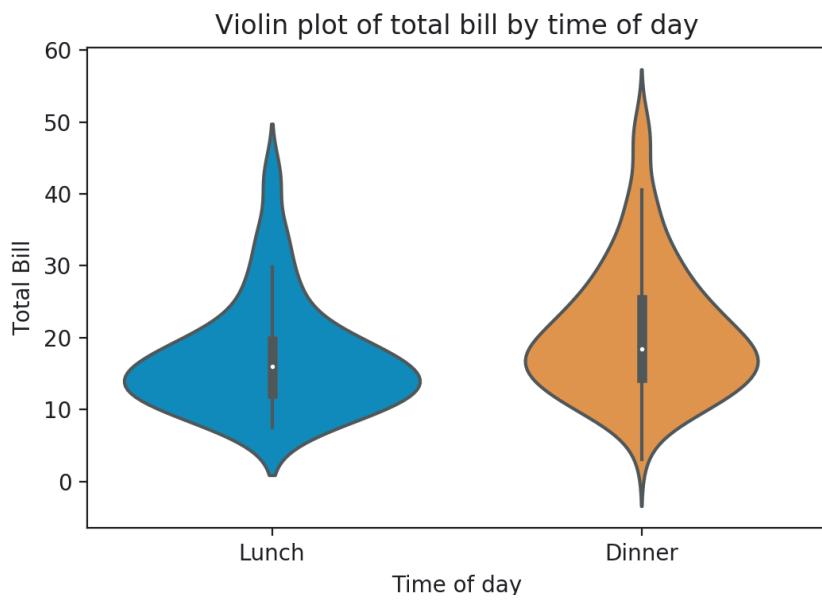


Figure 3.25 Seaborn violin plot of total bill by time of day

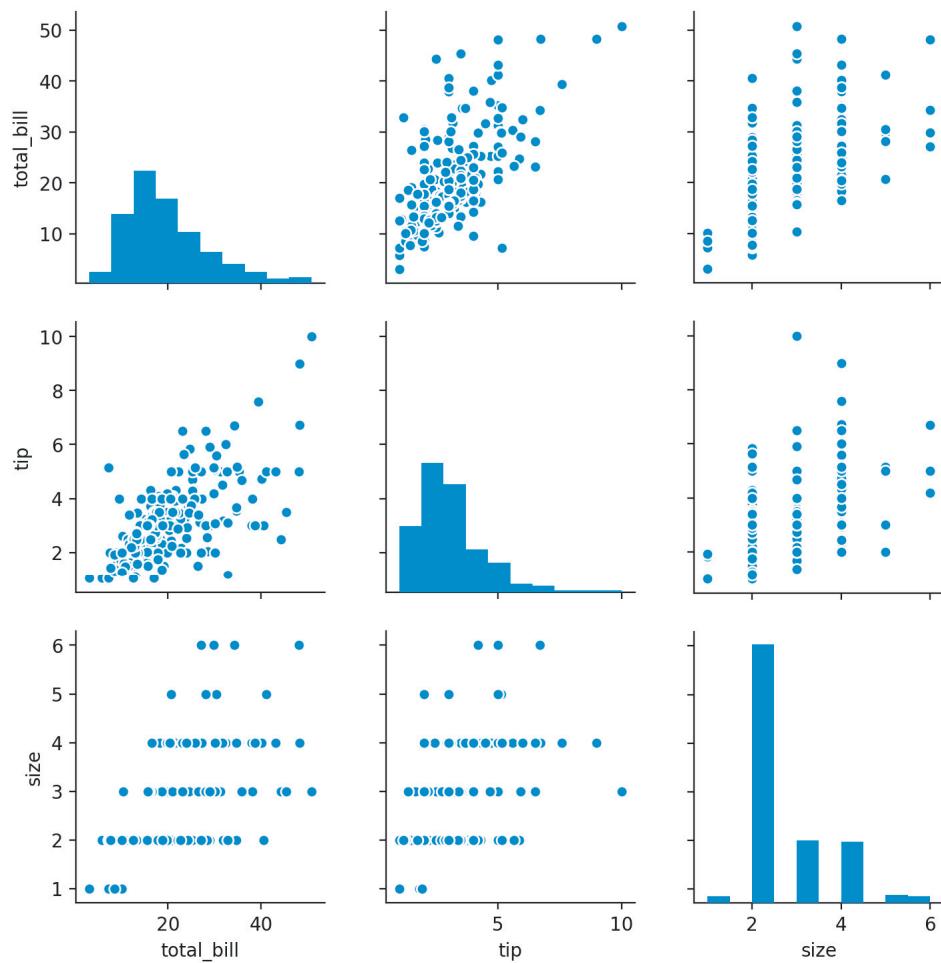


Figure 3.26 Seaborn pair plot

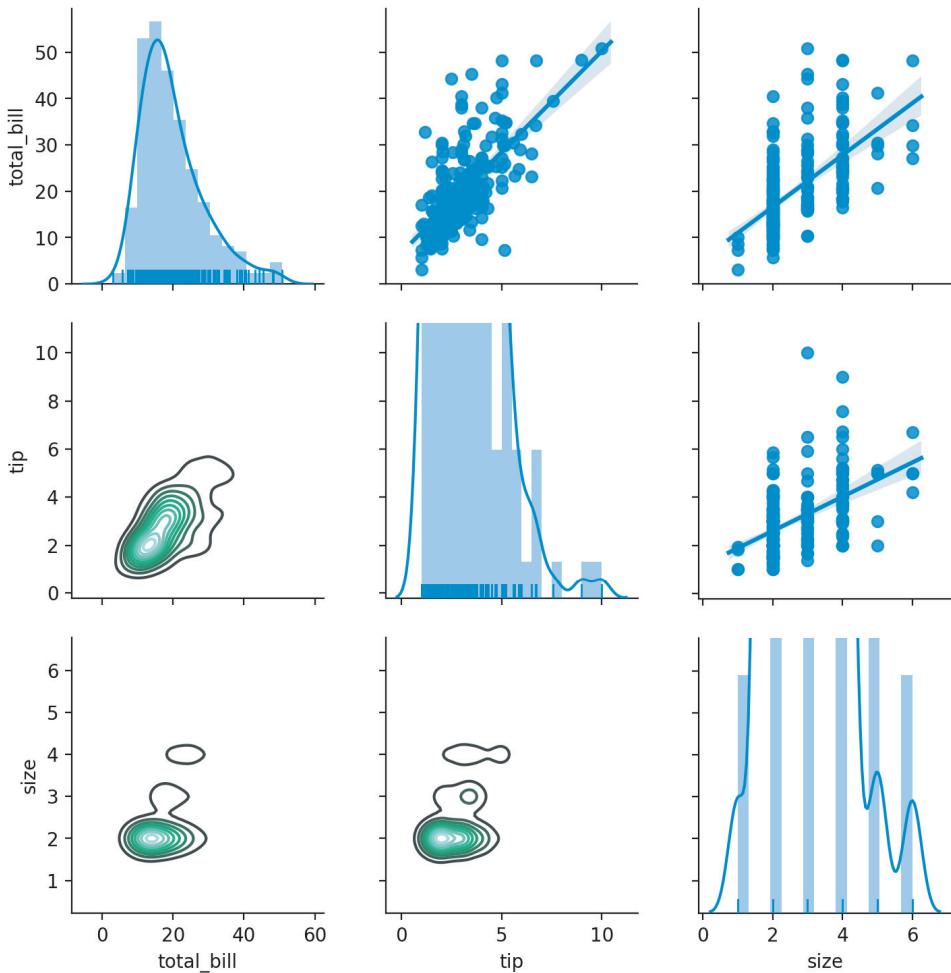


Figure 3.27 Seaborn pair plot with different plots on the upper and lower halves

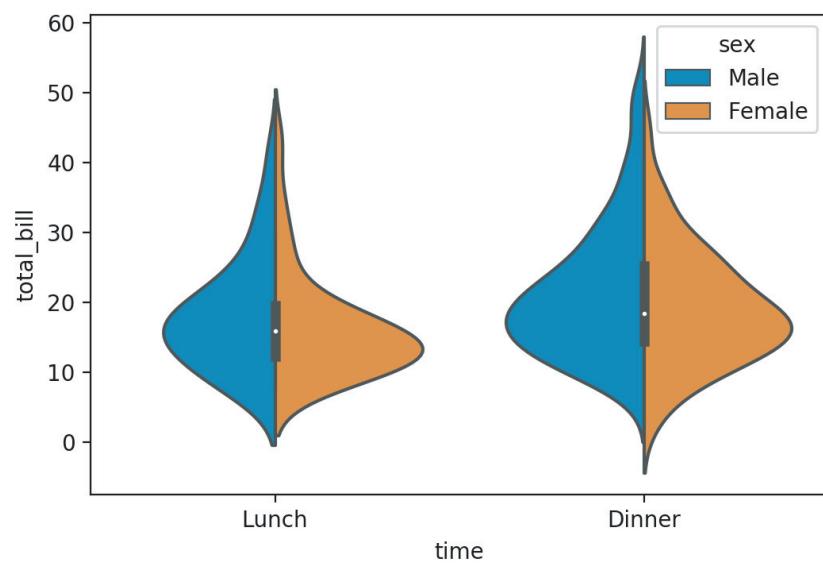


Figure 3.28 Seaborn violin plot with hue parameter

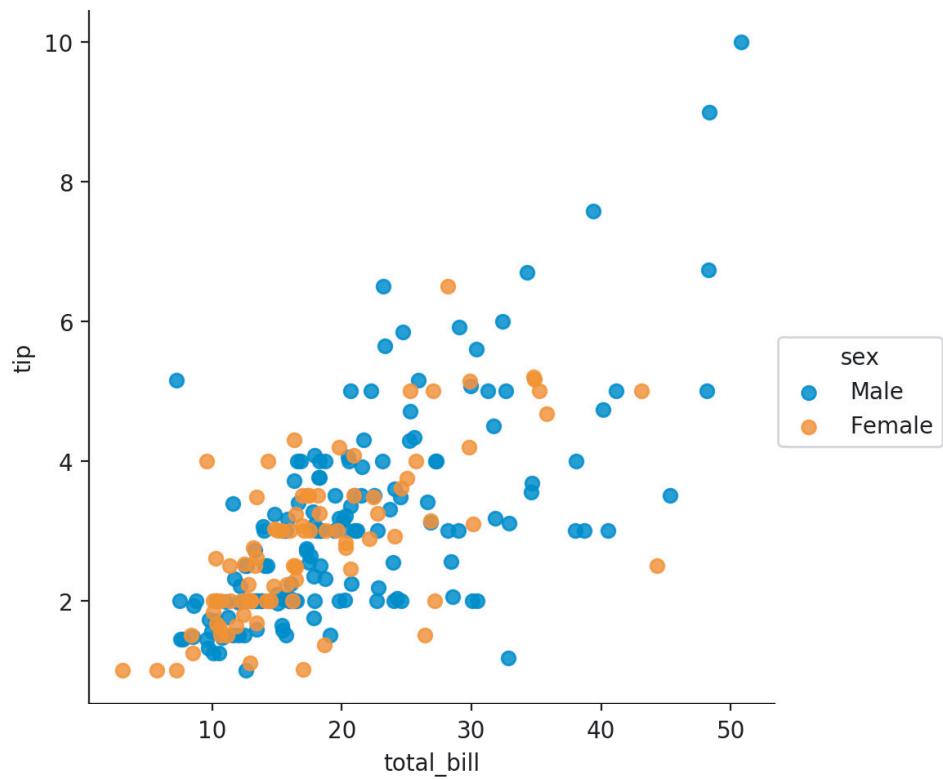


Figure 3.29 Seaborn Implot plot with hue parameter

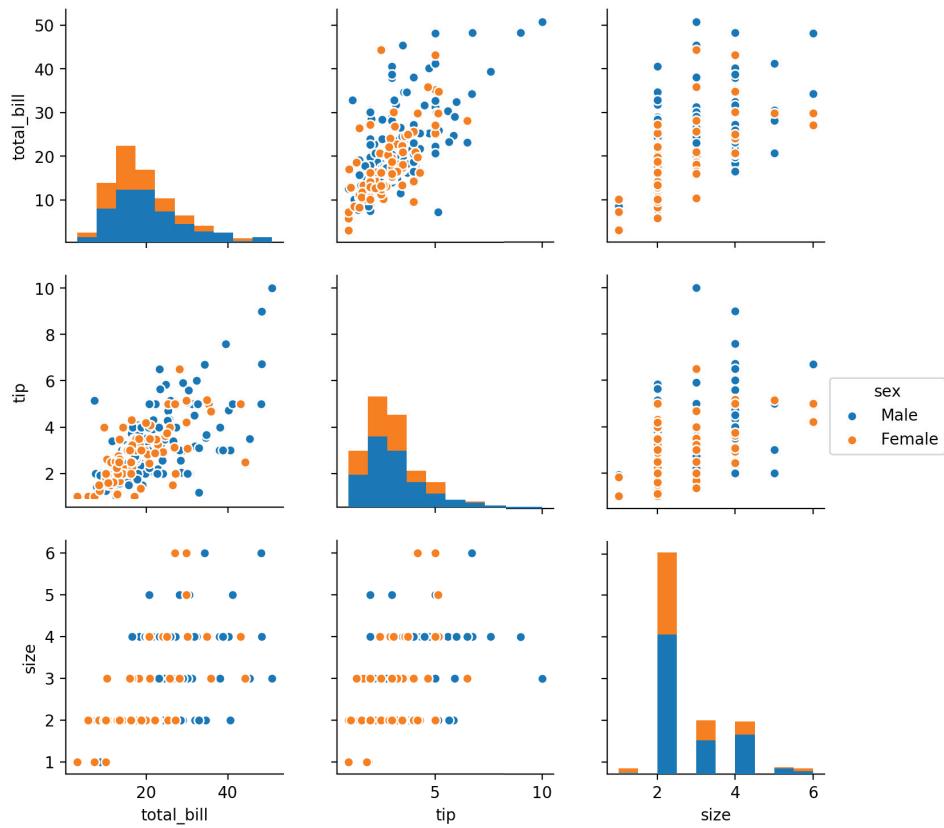


Figure 3.30 Seaborn pair plot with hue parameter

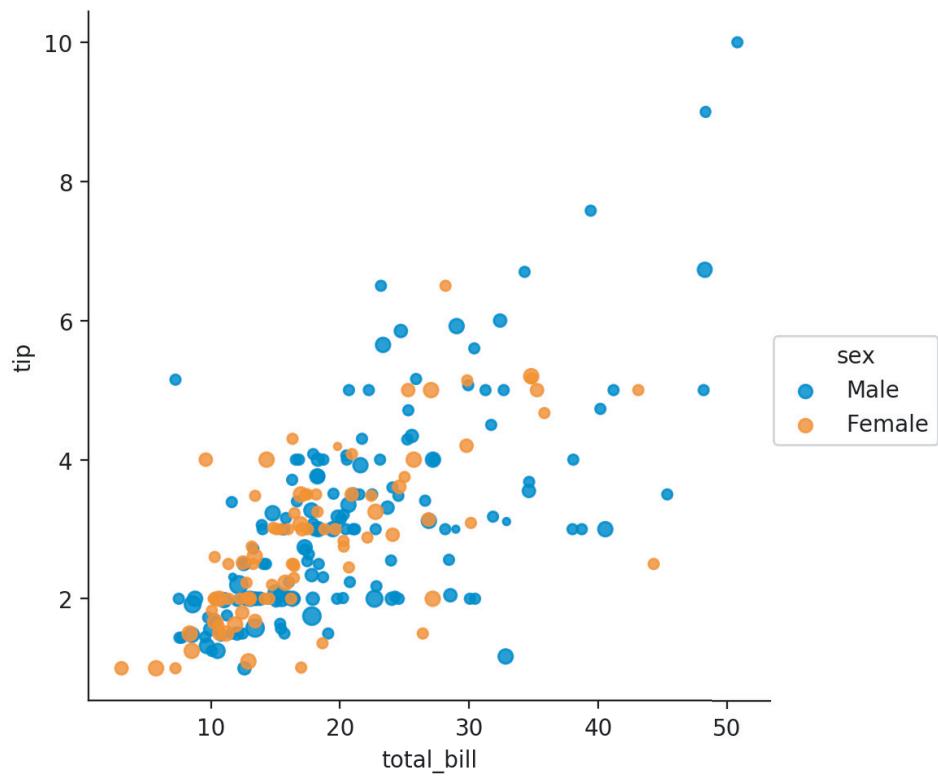


Figure 3.31 Seaborn scatterplot passing scatter_kws

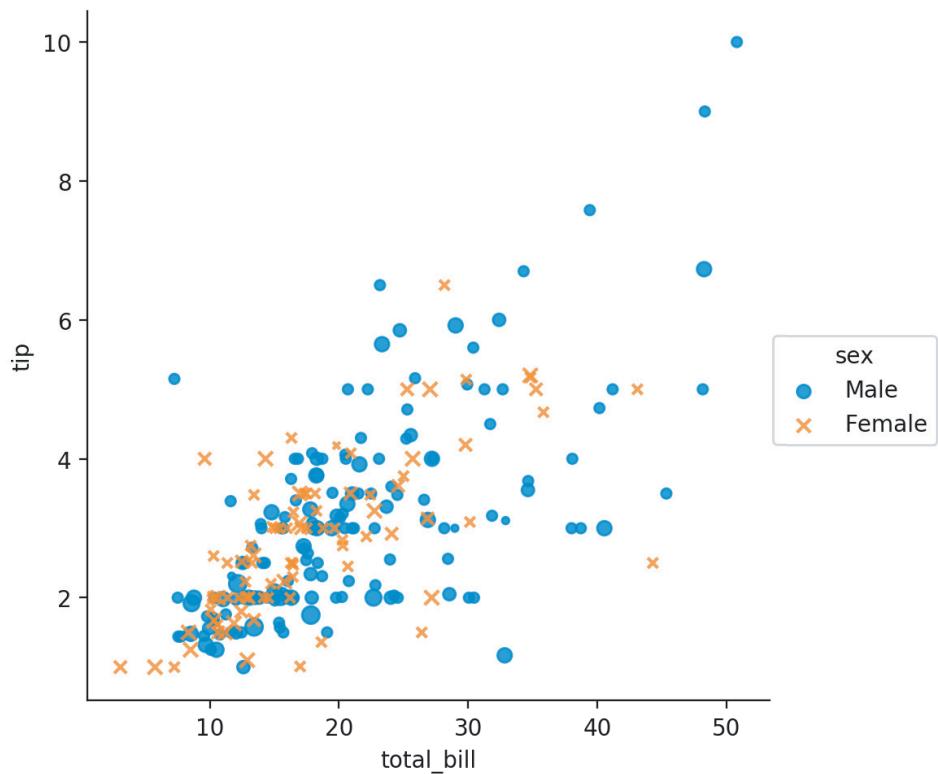


Figure 3.32 Seaborn scatterplot with markers passing `scatter_kws`

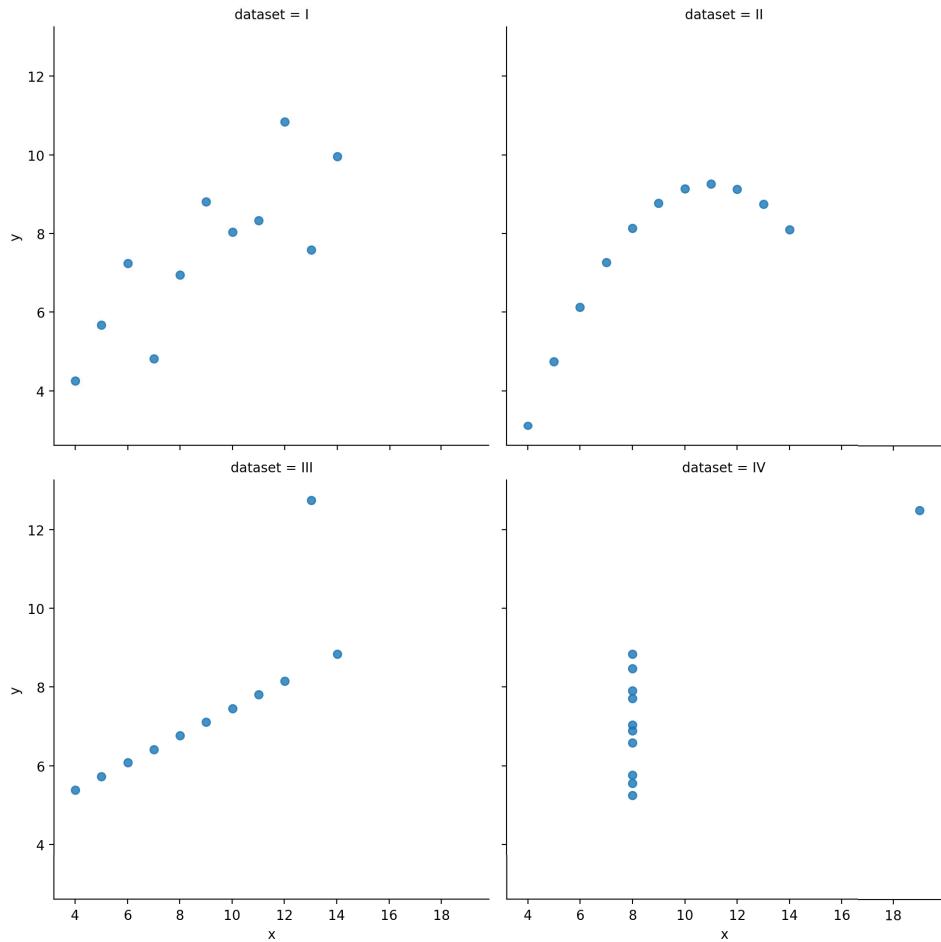


Figure 3.33 Seaborn Anscombe plot with facets

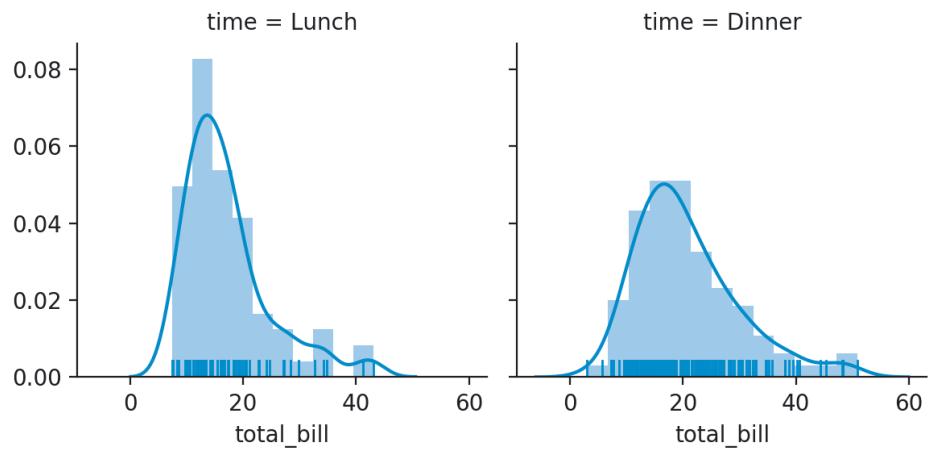


Figure 3.34 Seaborn plot with manually created facets

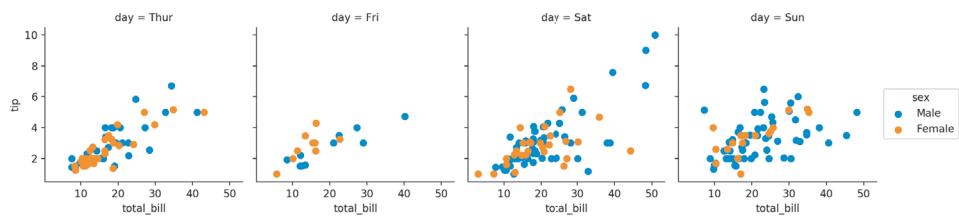


Figure 3.35 Seaborn plot with manually created facets that contain multiple variables

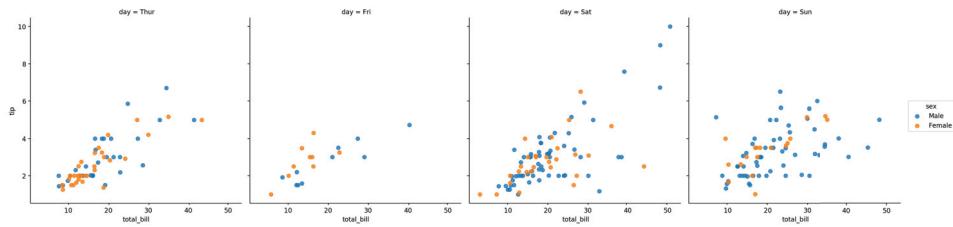


Figure 3.36 Seaborn plot with manually created facets that contain multiple variables

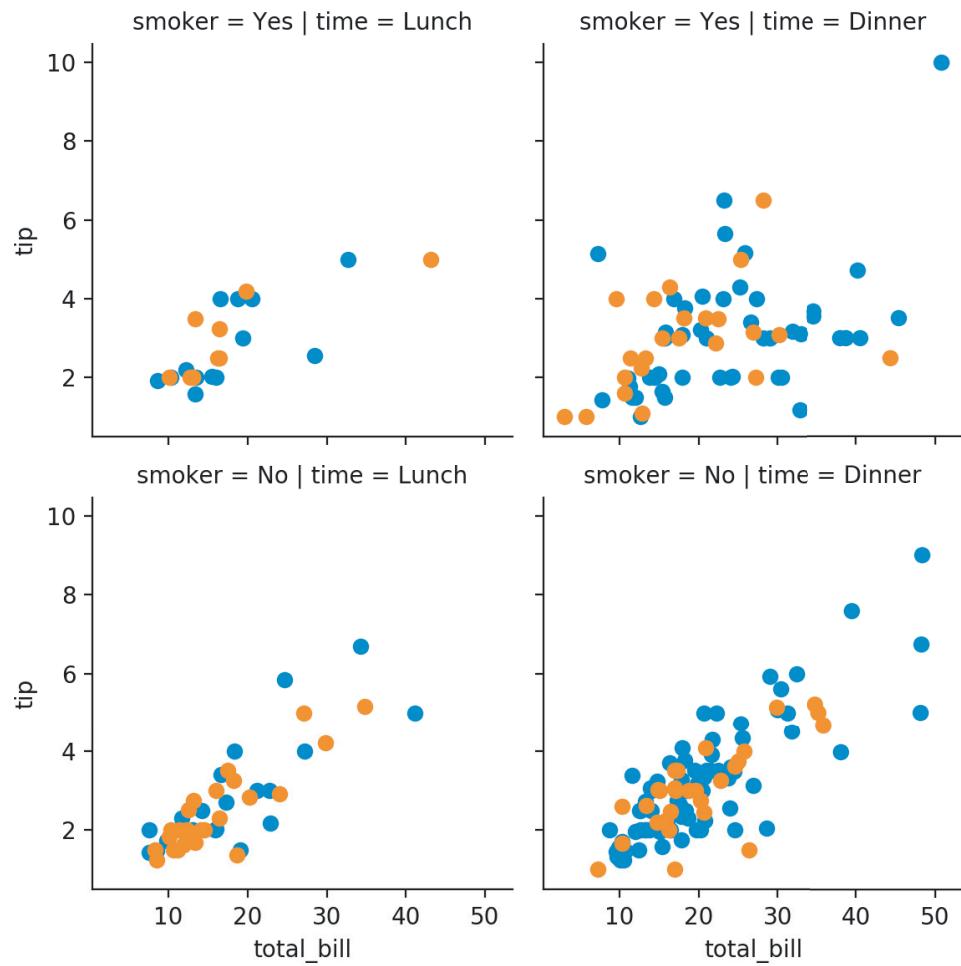


Figure 3.37 Seaborn plot with manually created facets with two variables

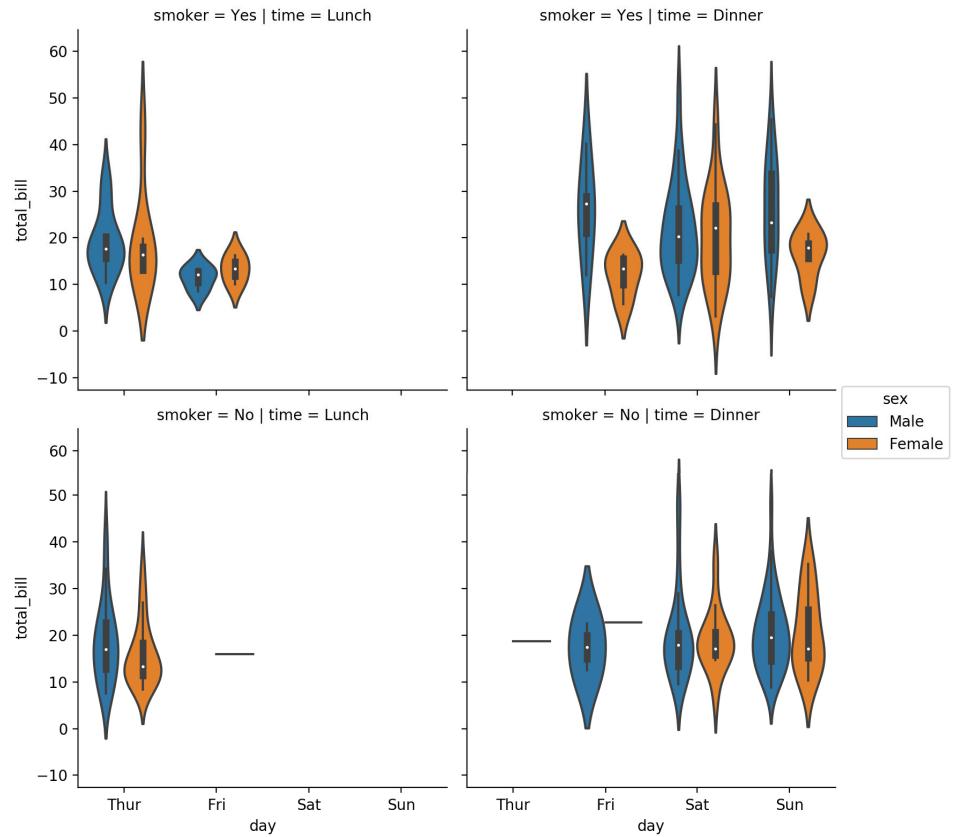


Figure 3.38 Seaborn plot with manually created facets with two variables

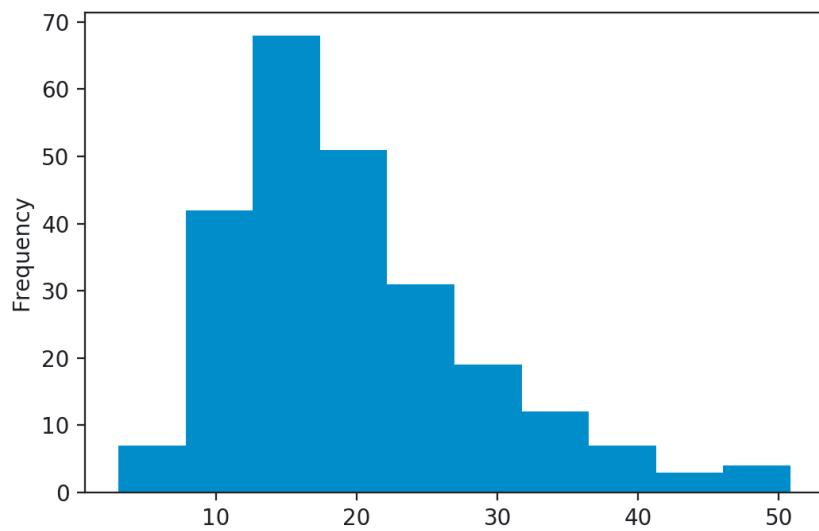


Figure 3.39 Histogram of a Pandas Series

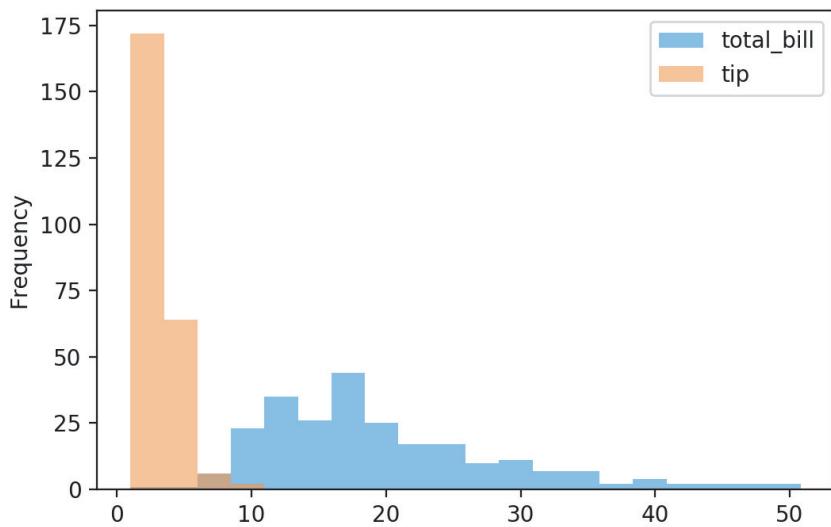


Figure 3.40 Histogram of a Pandas DataFrame

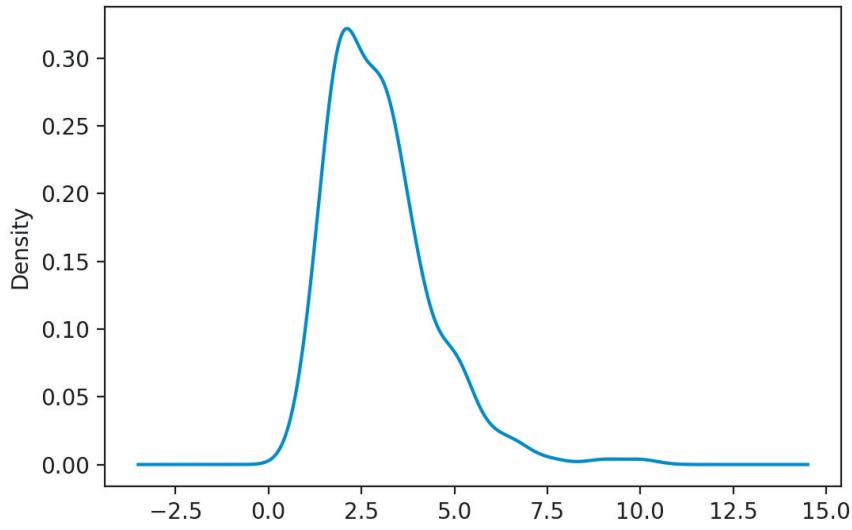


Figure 3.41 Pandas KDE plot

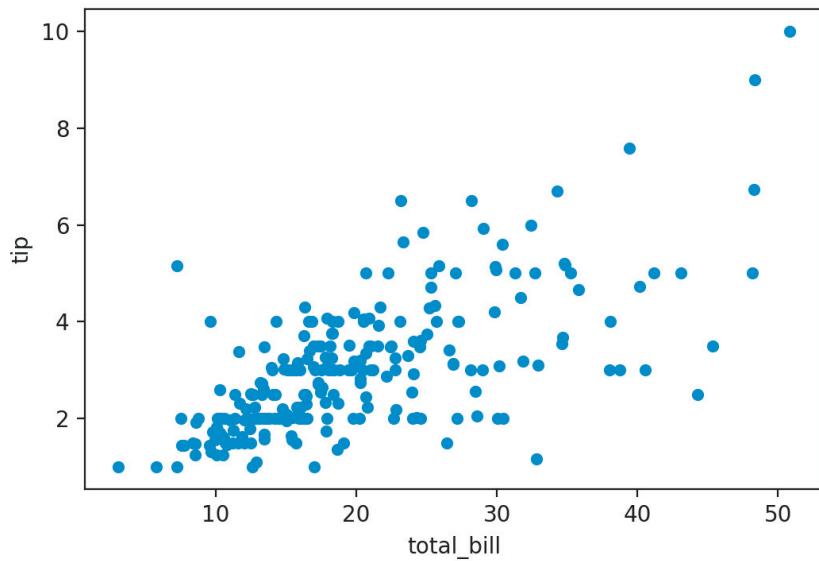


Figure 3.42 Pandas scatterplot

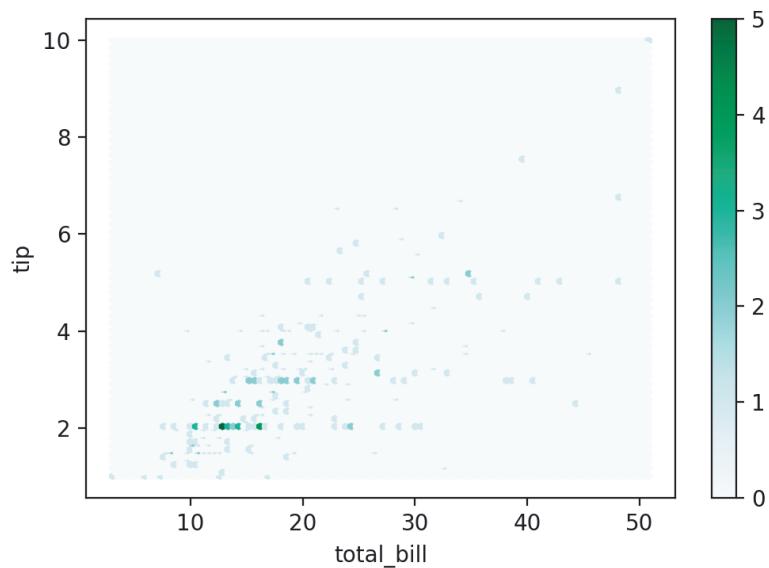


Figure 3.43 Pandas hexbin plot

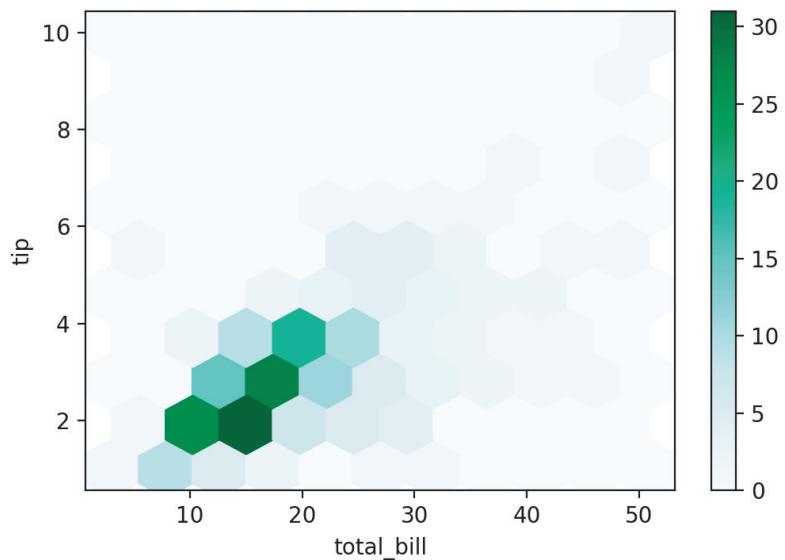


Figure 3.44 Pandas hexbin plot with modified grid size

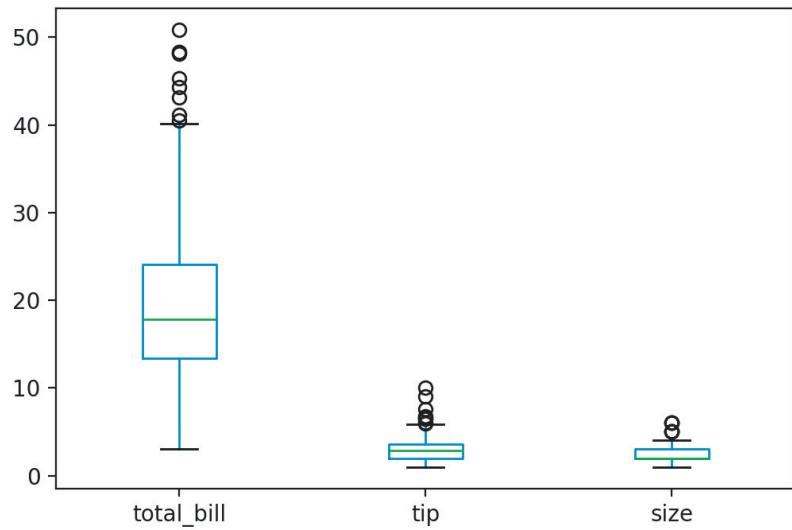


Figure 3.45 Pandas boxplot

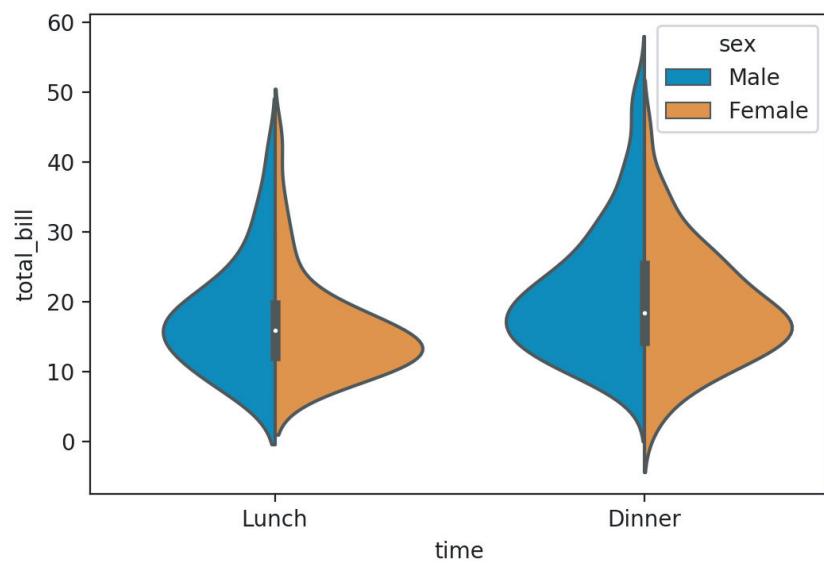


Figure 3.46 Seaborn style baseline

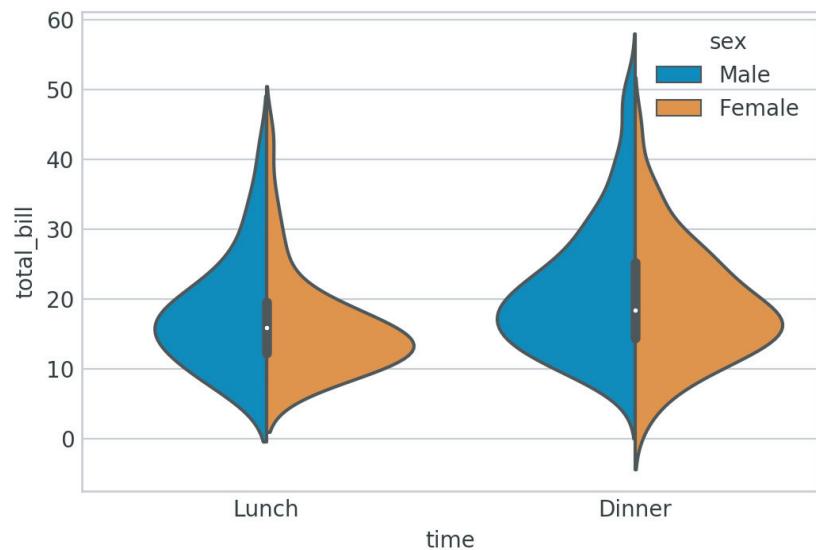


Figure 3.47 Seaborn style baseline

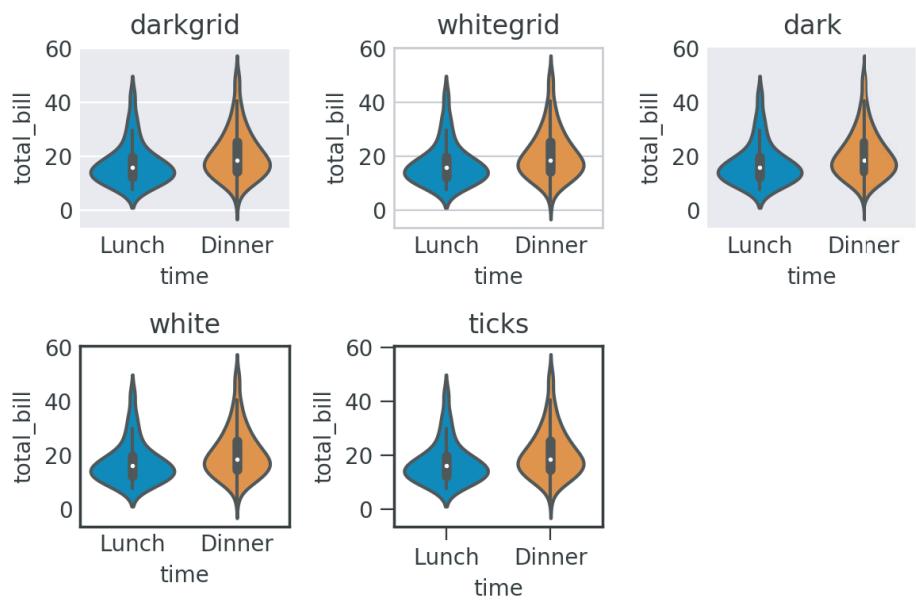


Figure 3.48 All seaborn styles

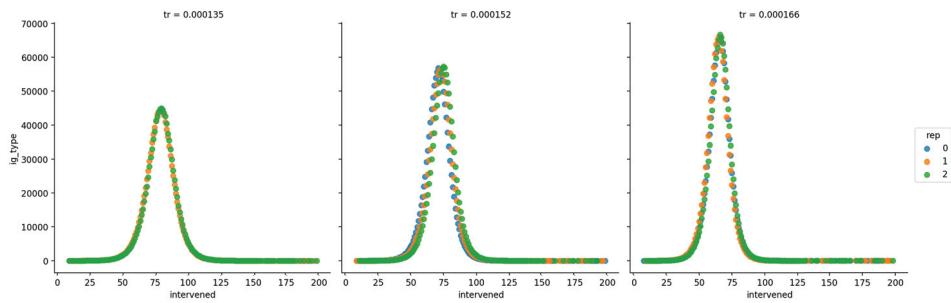


Figure 10.1 Grouped counts and mean

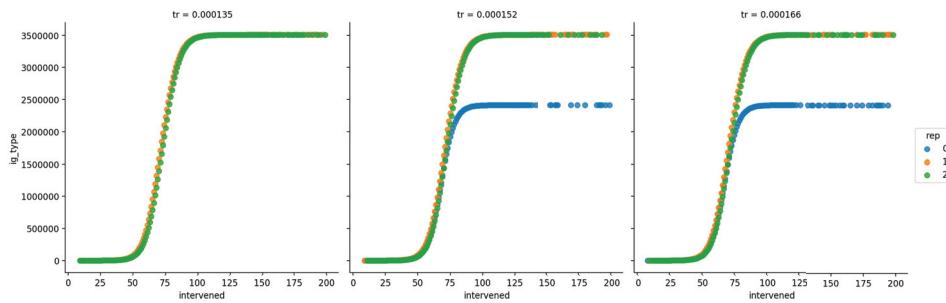


Figure 10.2 Grouped cumulative counts. The plot shows that one of the replicates did not run in our simulation.

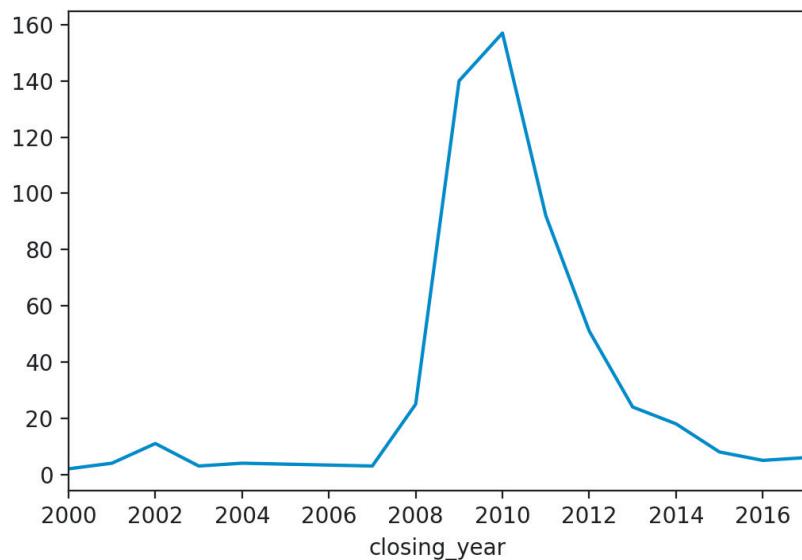


Figure 11.1 Number of banks closing each year

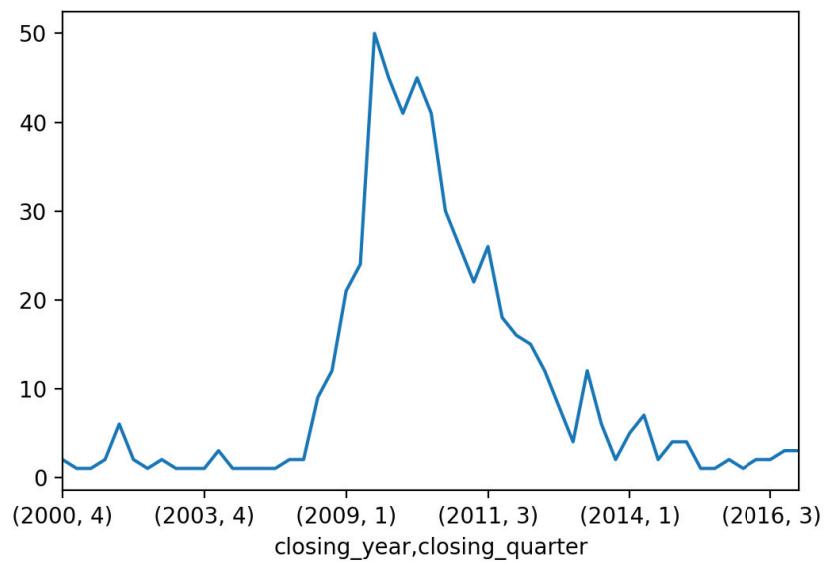


Figure 11.2 Number of banks closing each year by quarter

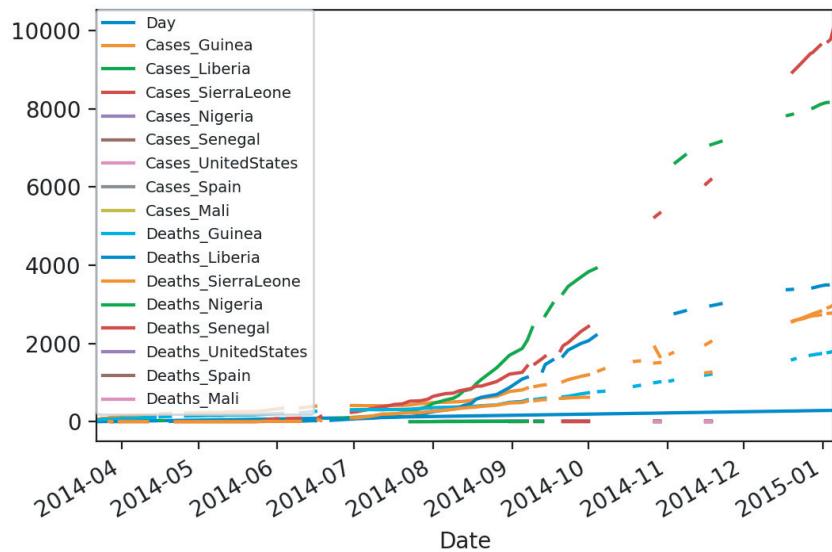


Figure 11.3 Ebola plot of cases and deaths (unshifted dates)

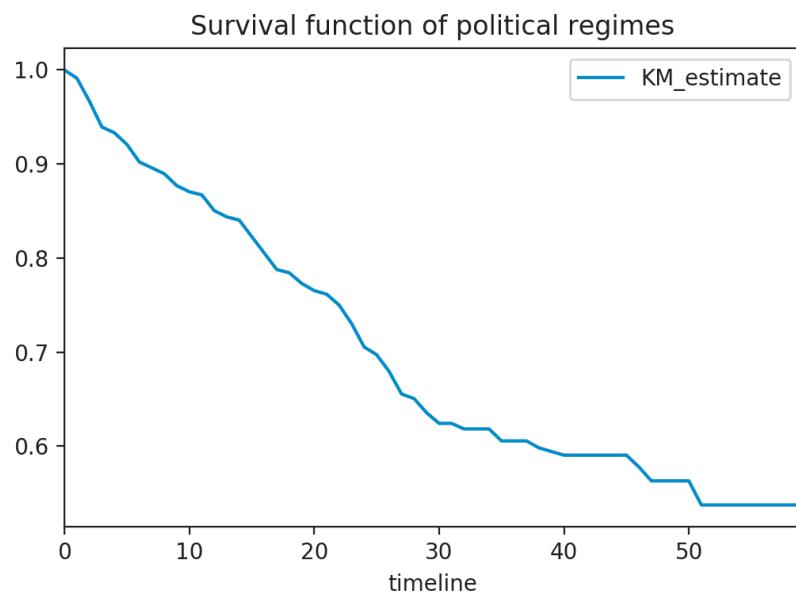


Figure 13.1 Survival function of political regimes using the KaplanMeierFitter

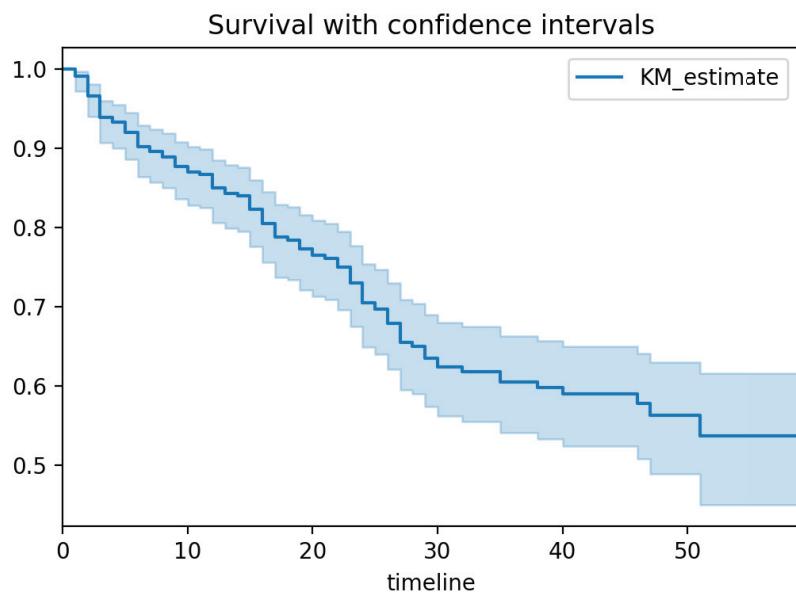


Figure 13.2 Survival function of political regimes with confidence intervals

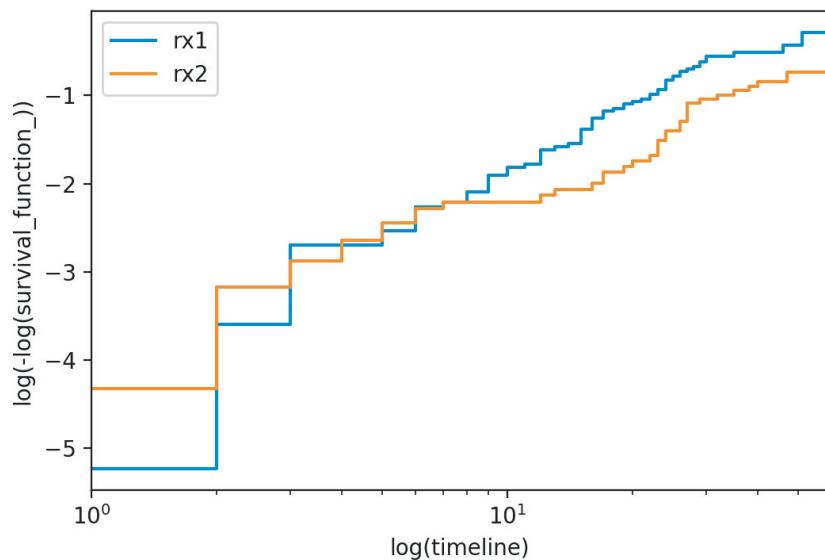


Figure 13.3 Plotting separate survival curves to check the Cox model assumptions

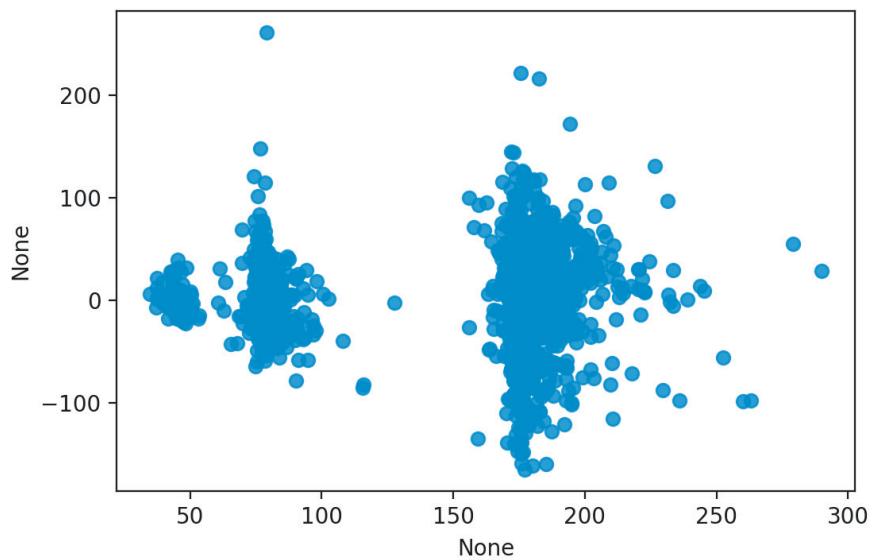


Figure 14.1 Residuals of the house1 model

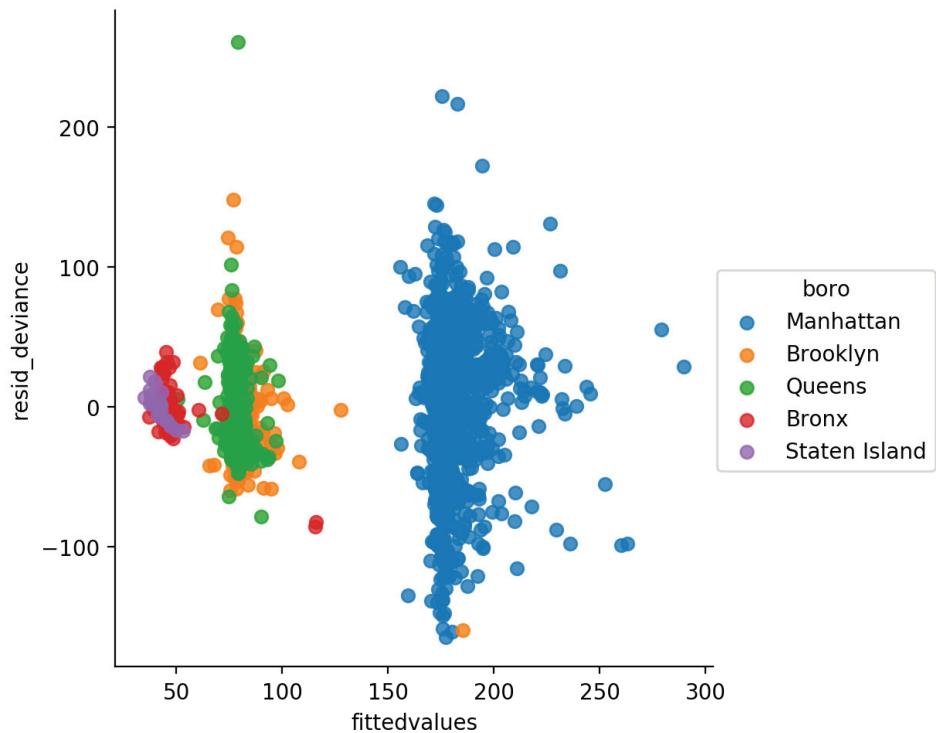


Figure 14.2 Residuals of the house1 model colored by boro

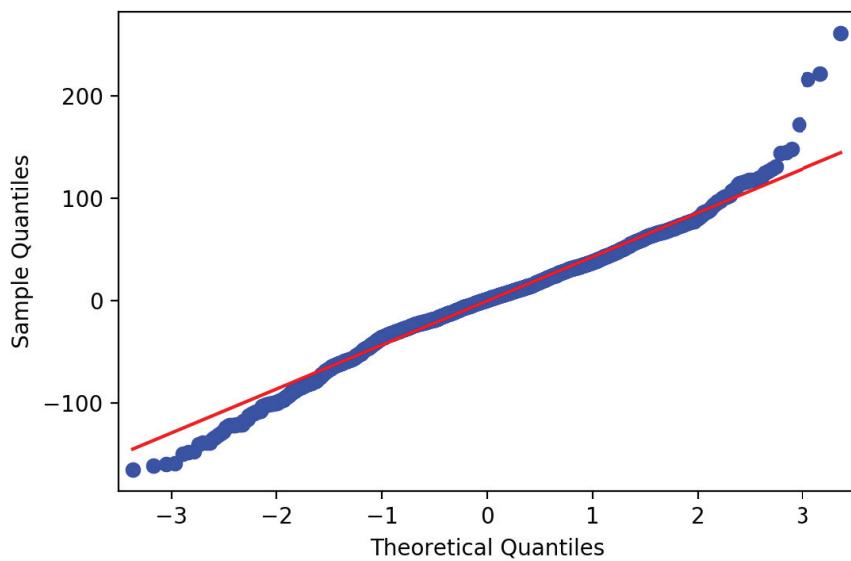


Figure 14.3 The q-q plot of the house1 model

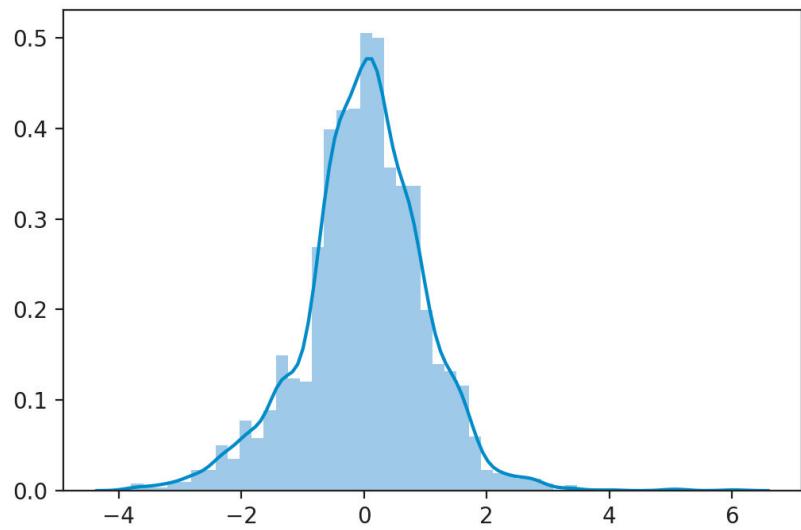


Figure 14.4 Histogram of the house1 model residuals

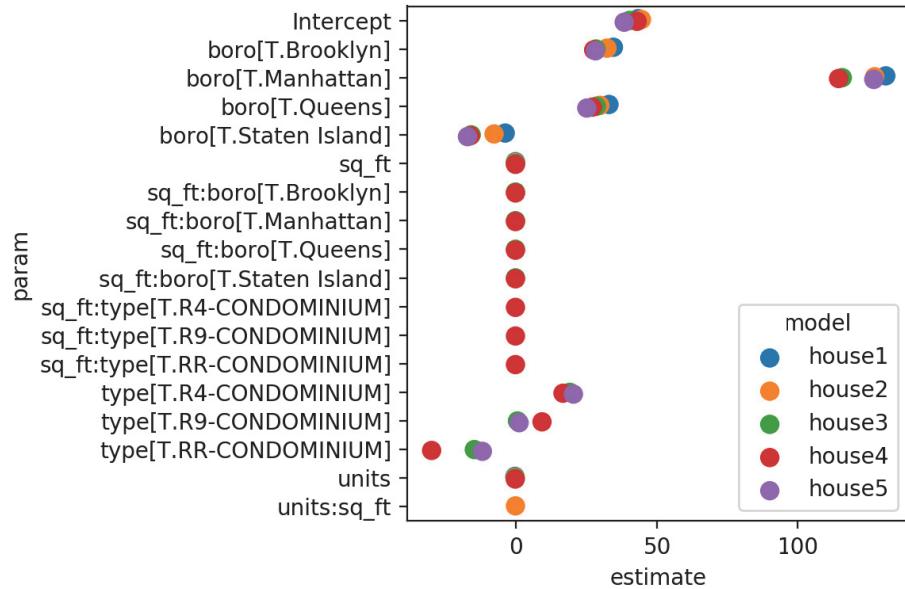


Figure 14.5 Coefficients of the house1 to house4 models

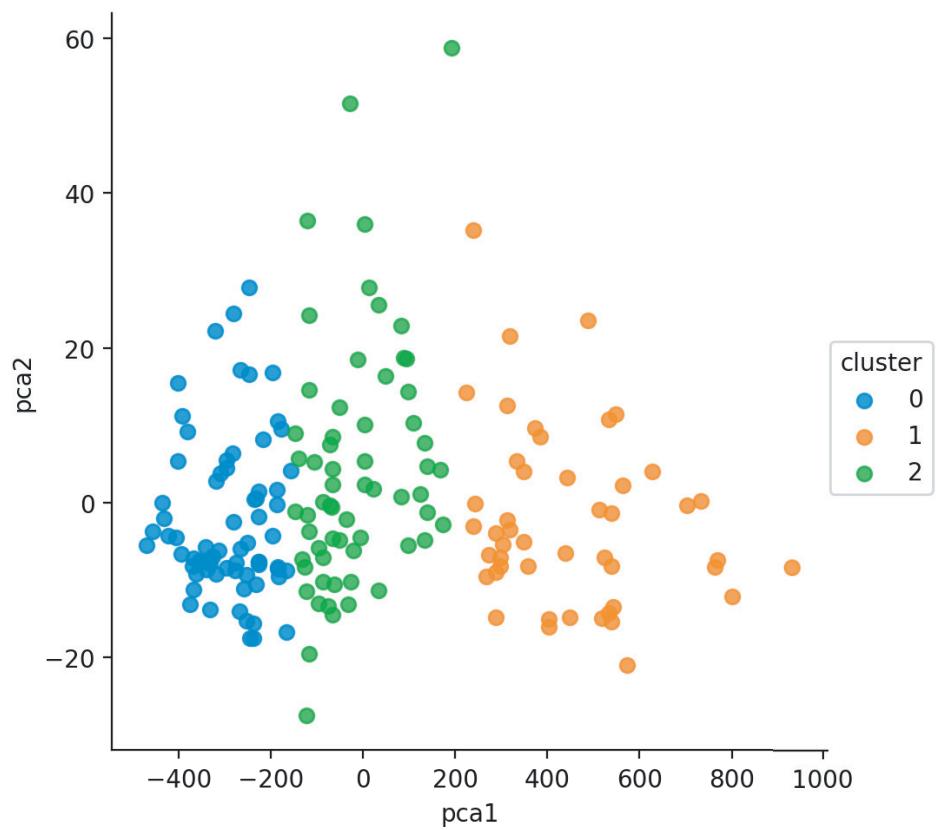


Figure 16.1 *k*-Means plot using PCA

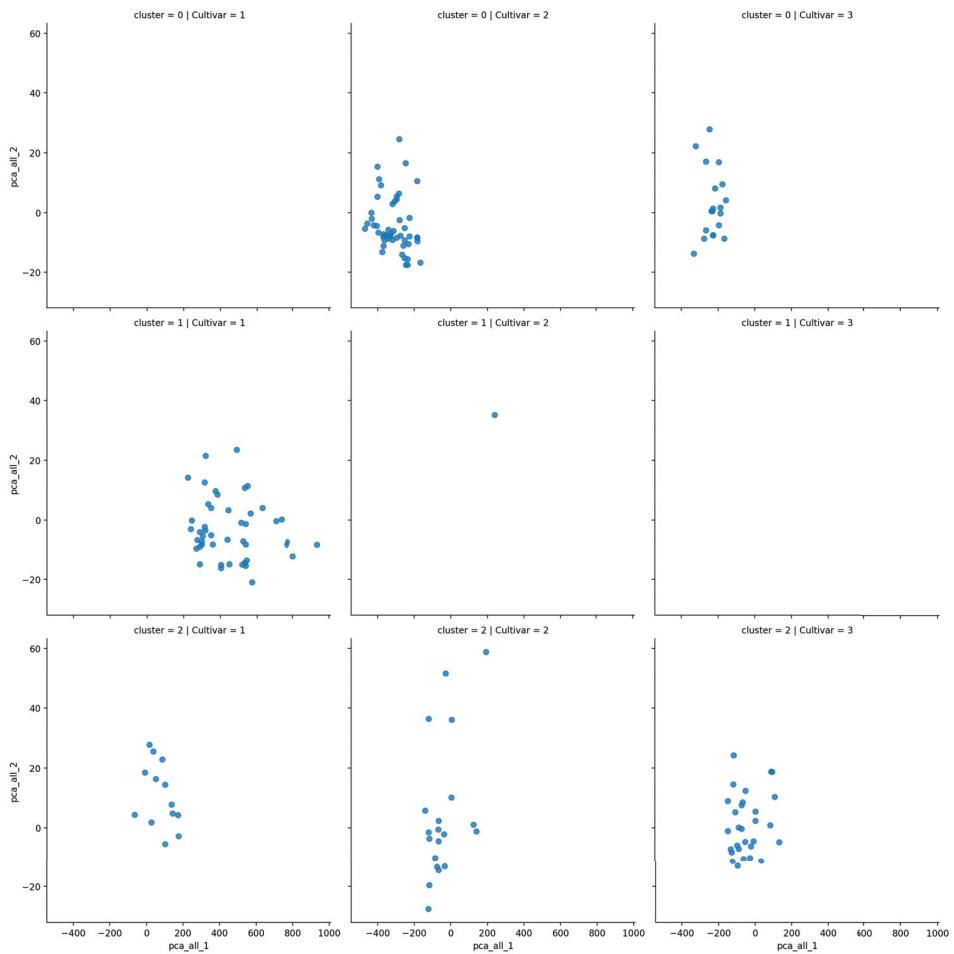


Figure 16.2 Faceted k -means plot

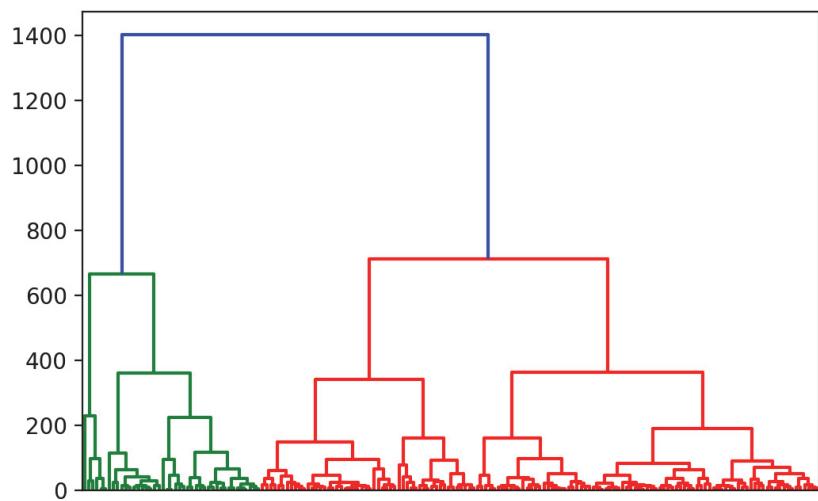


Figure 16.3 Hierarchical clustering: complete

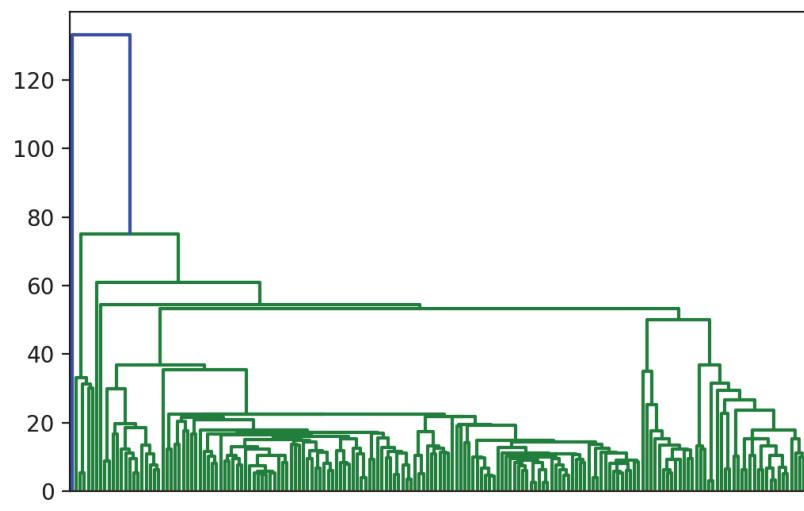


Figure 16.4 Hierarchical clustering: single

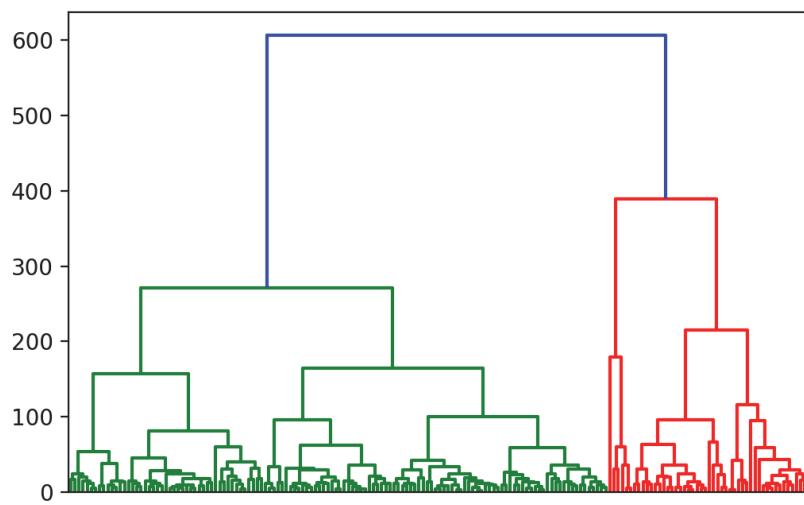


Figure 16.5 Hierarchical clustering: average

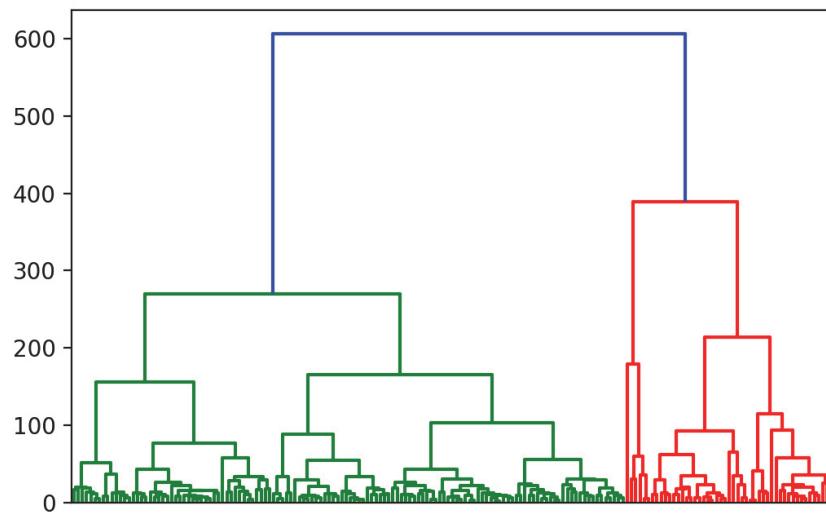


Figure 16.6 Hierarchical clustering: centroid

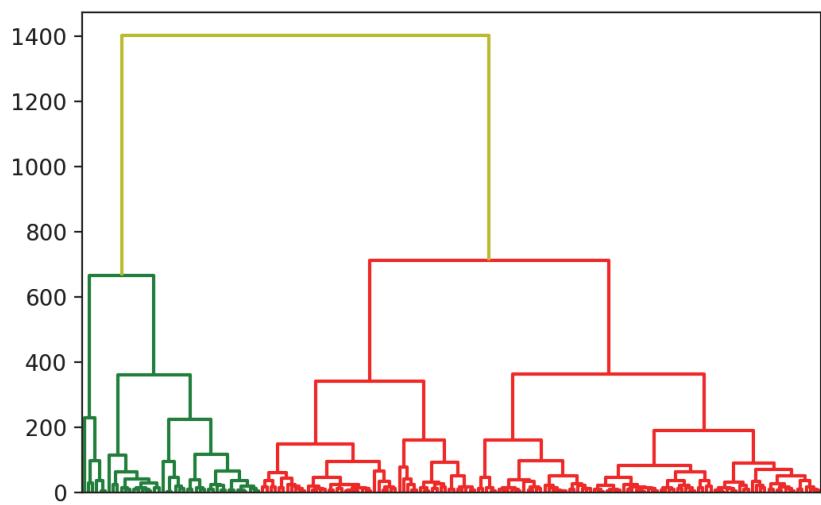


Figure 16.7 Manual hierarchical clustering threshold