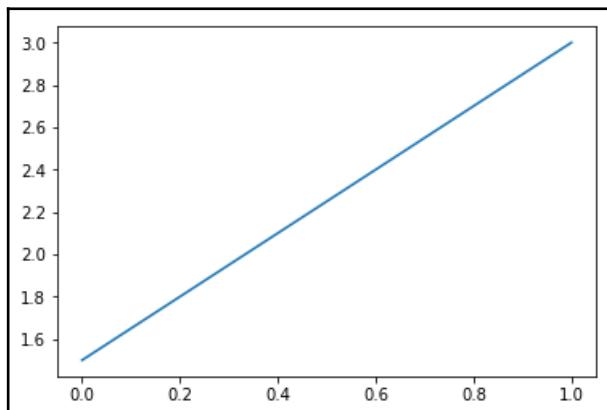
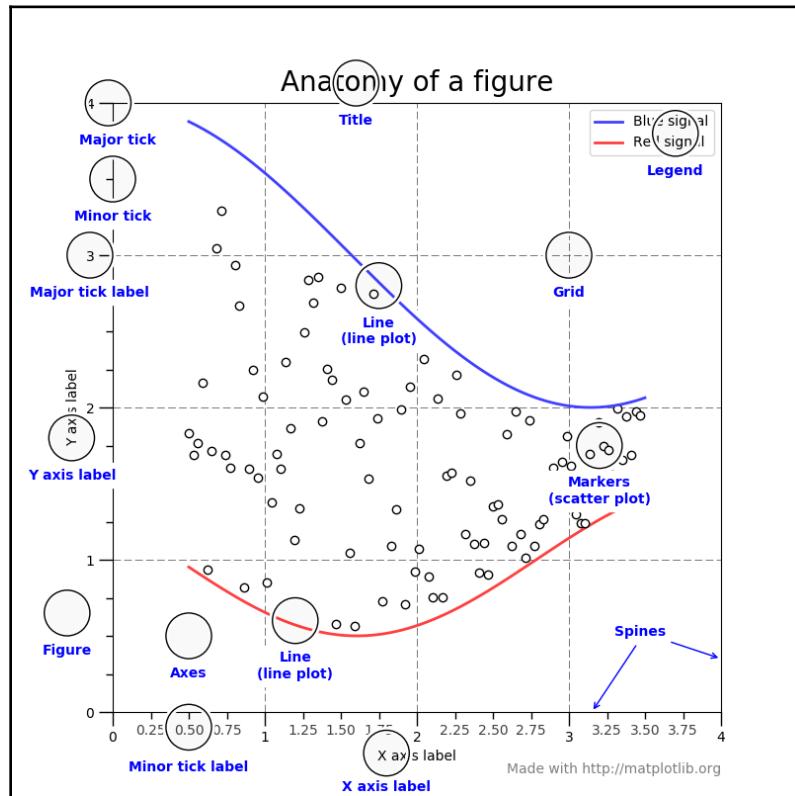
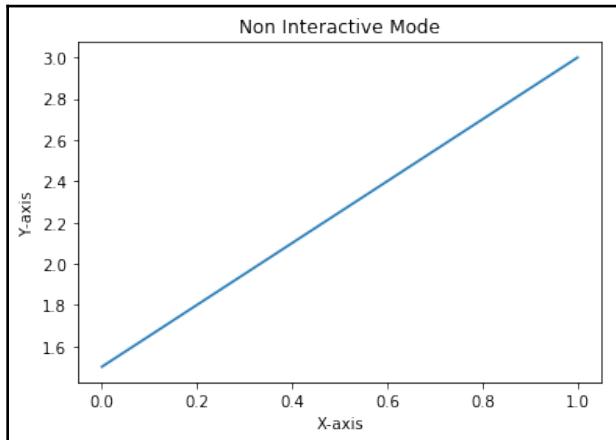
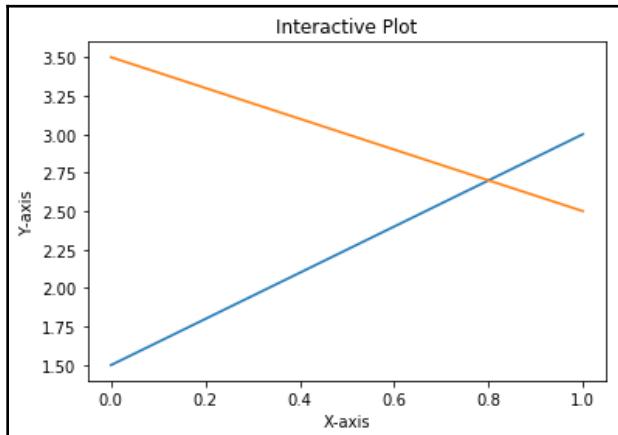
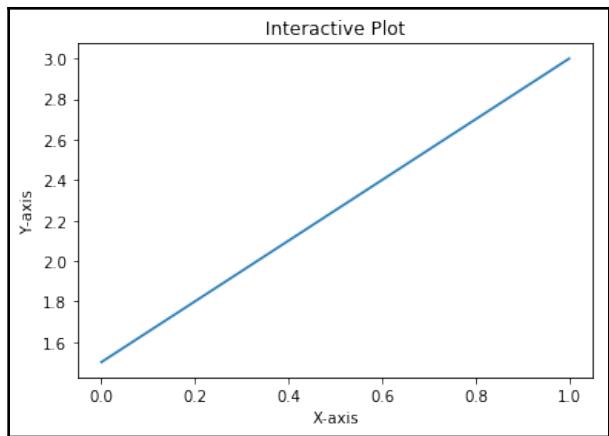
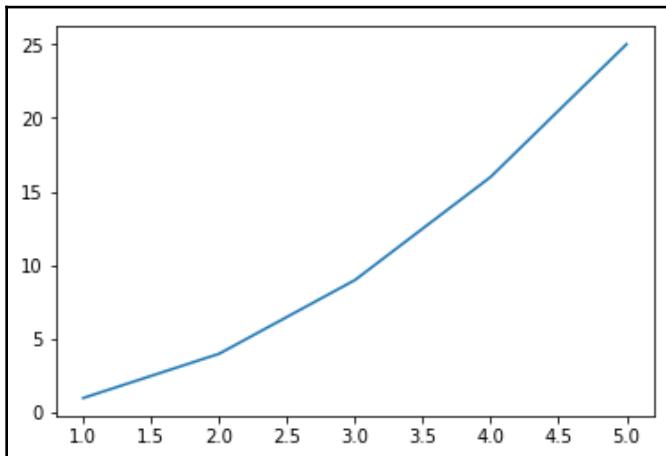
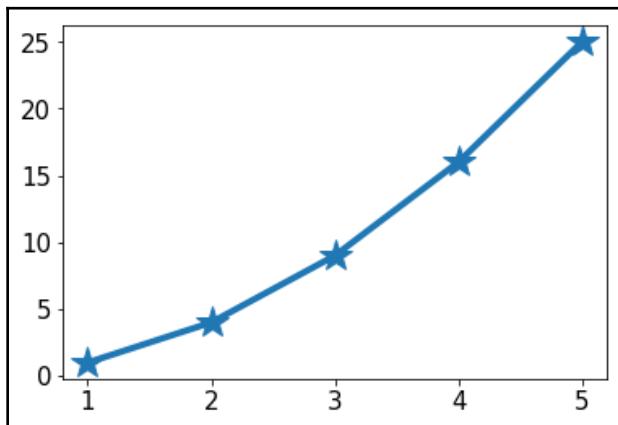
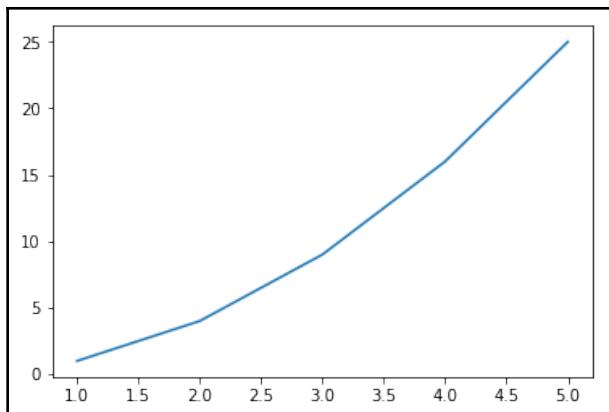


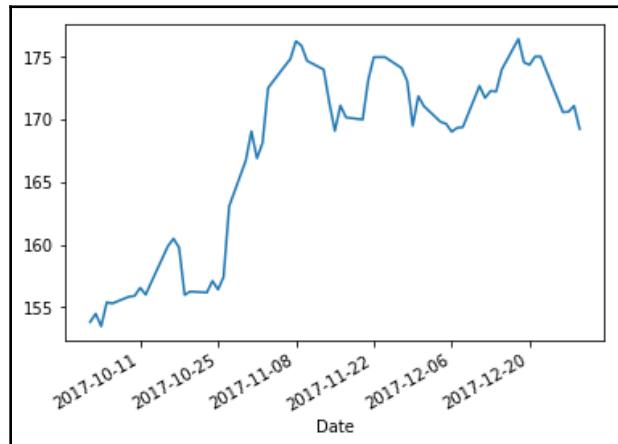
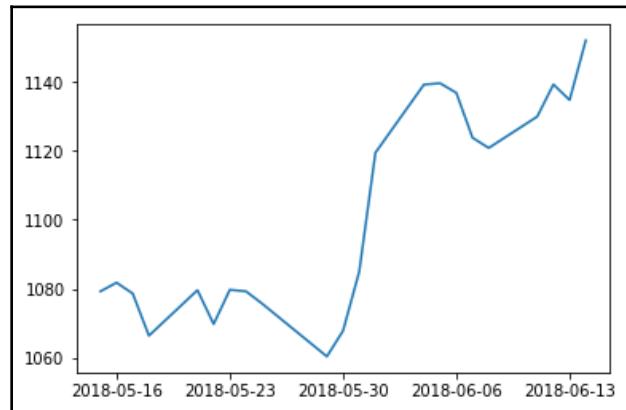
Chapter 1: Anatomy of Matplotlib

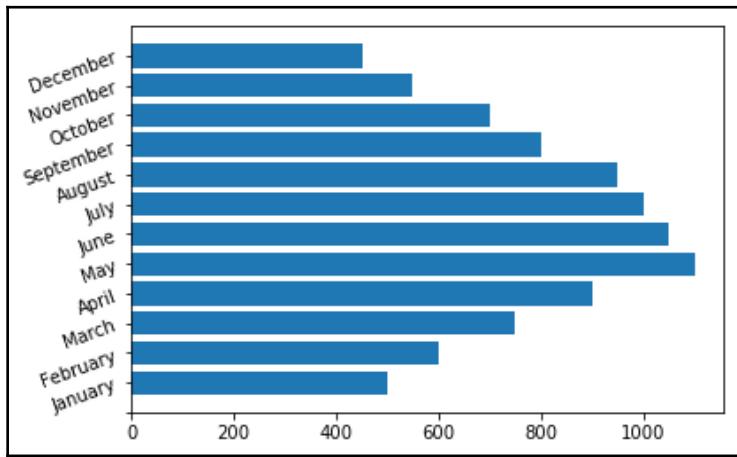
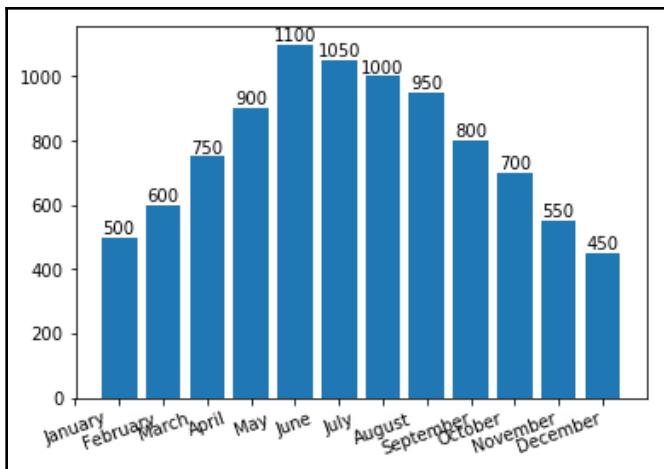


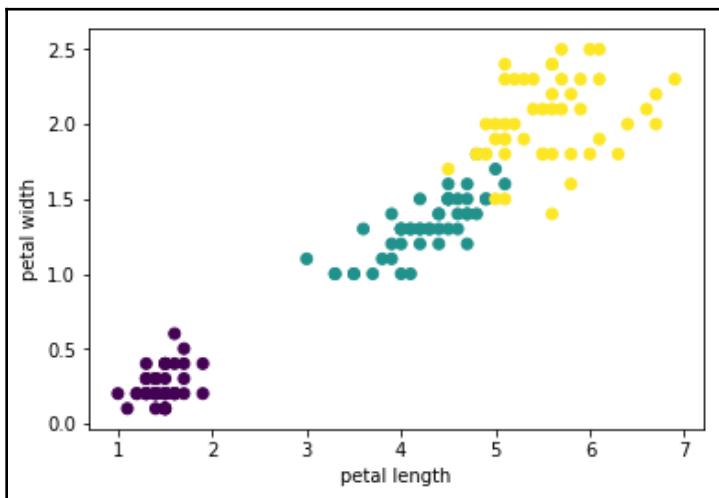
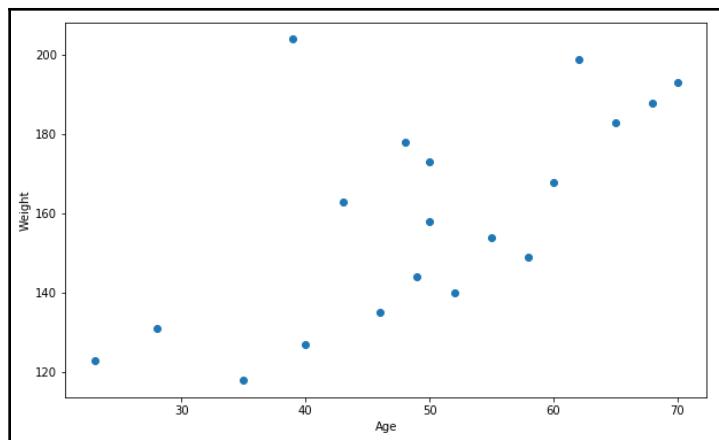


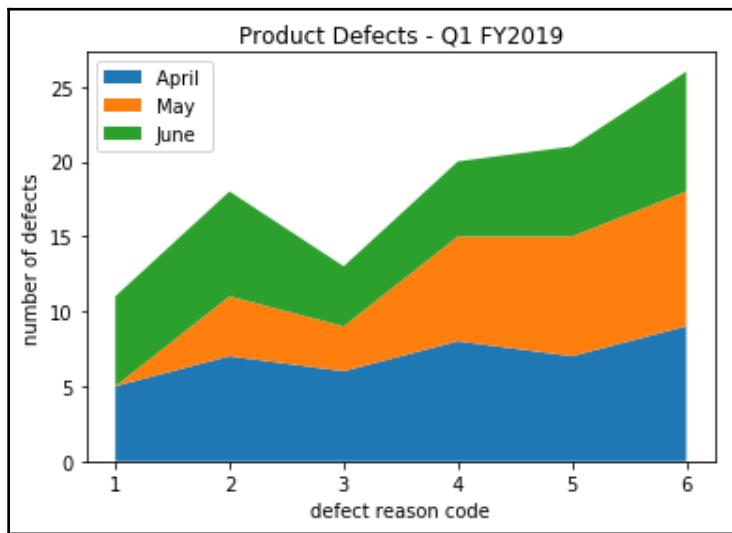
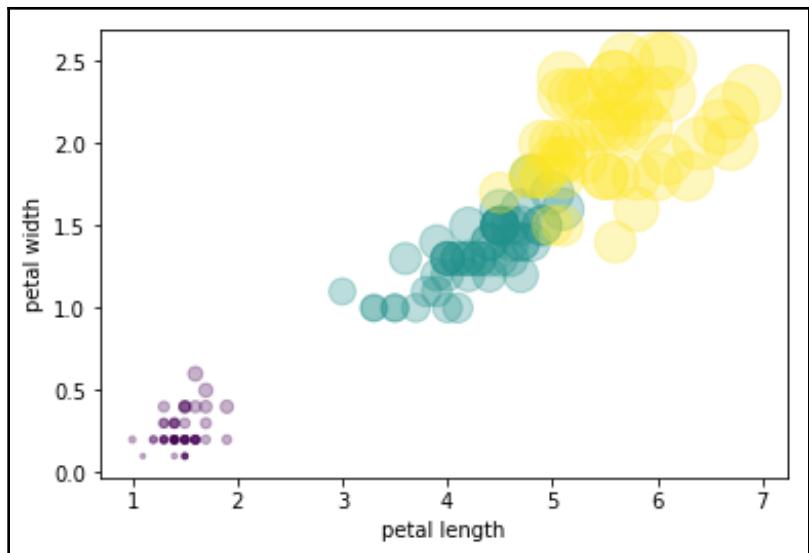


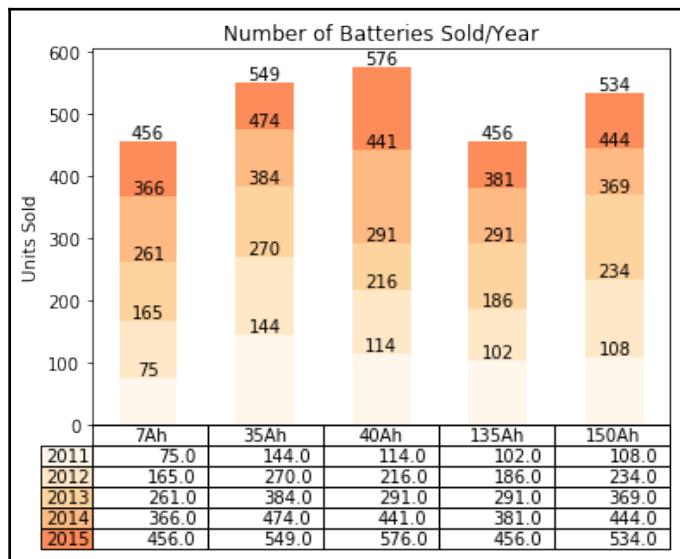
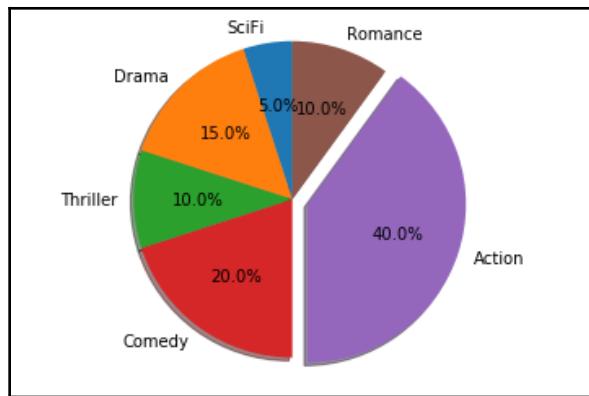
Chapter 2: Getting Started with Basic Plots

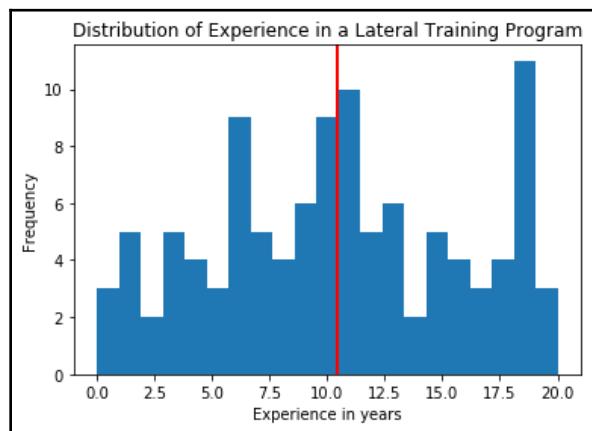
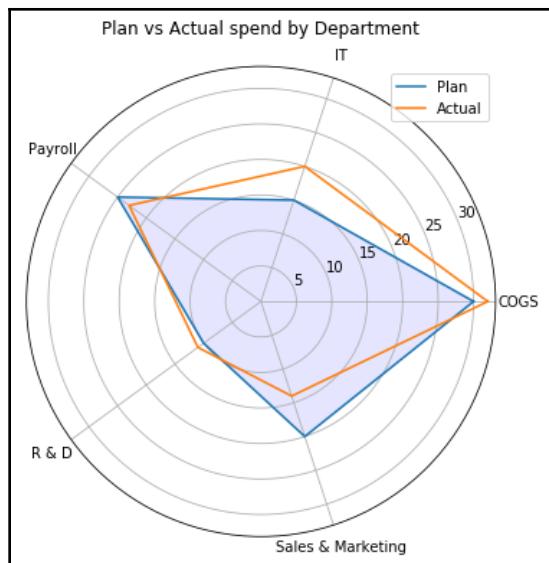


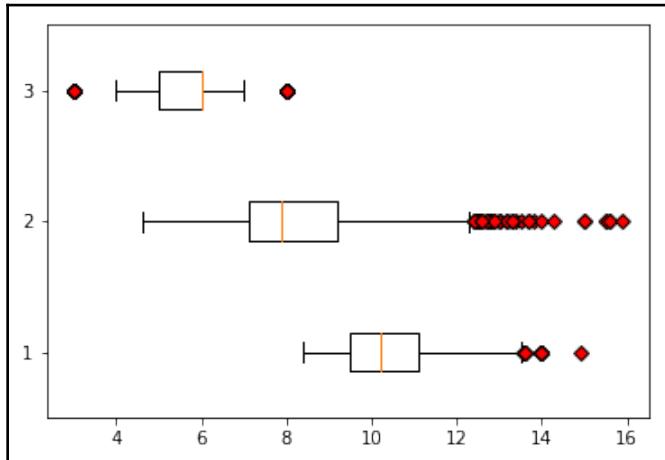
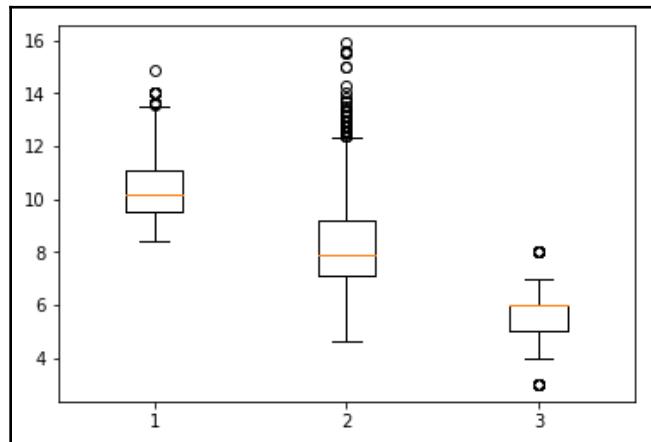
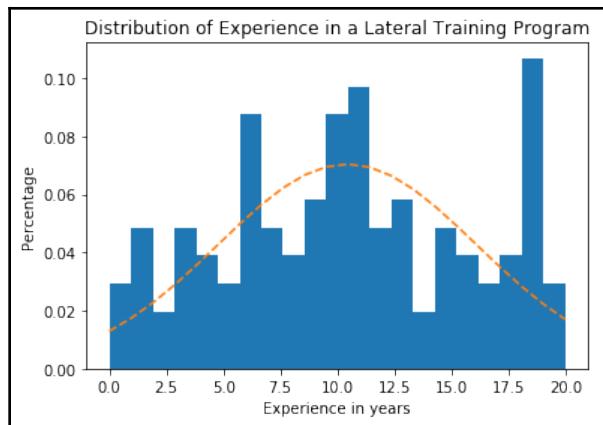


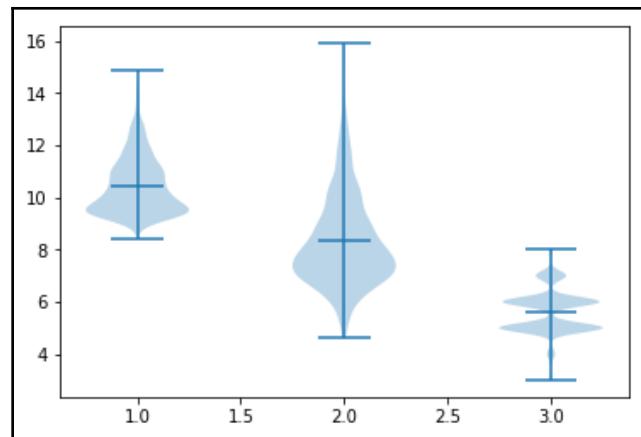


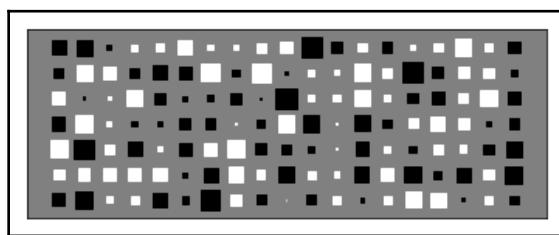
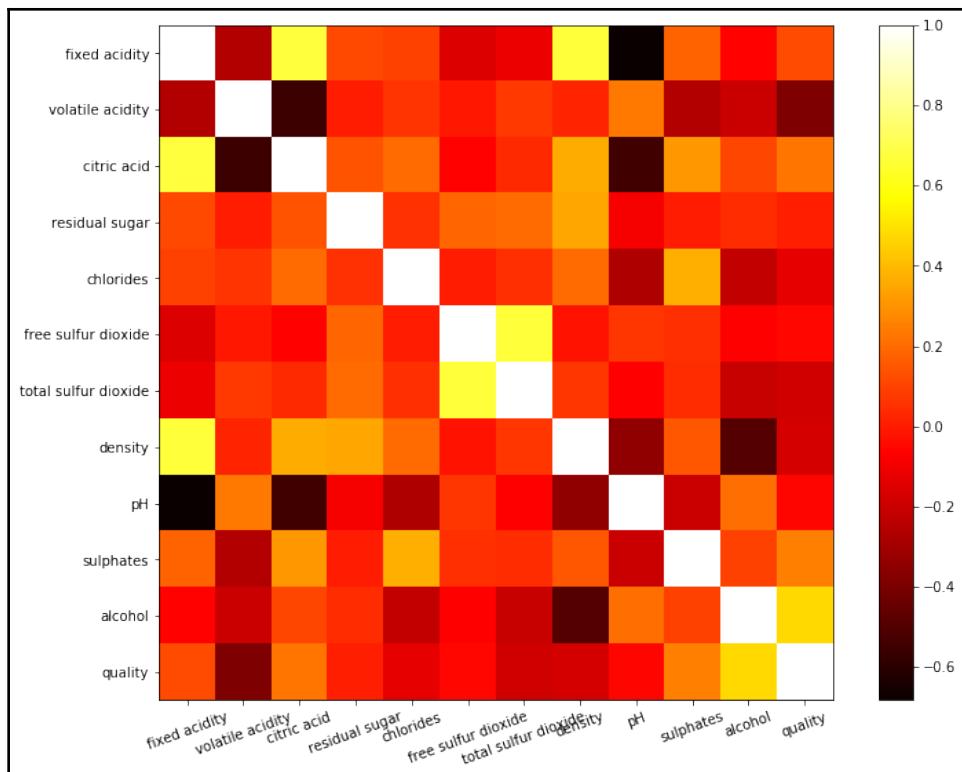


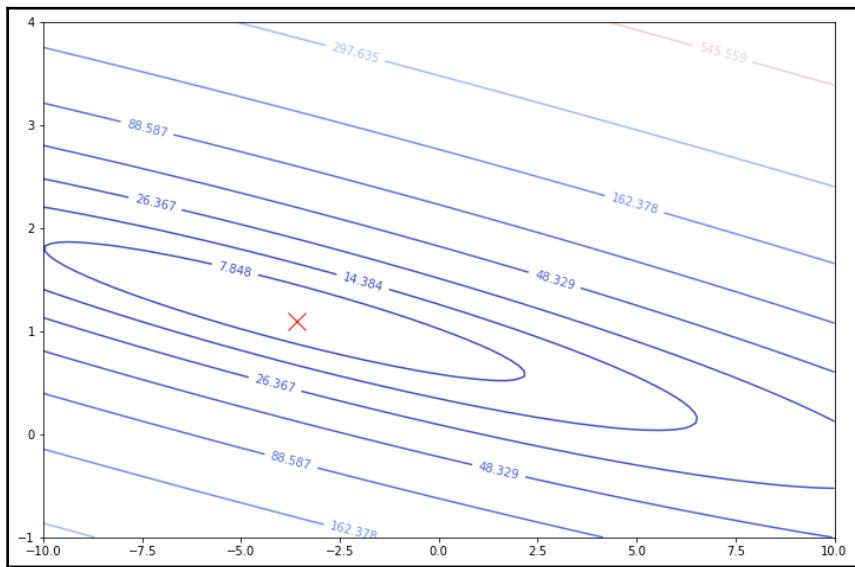
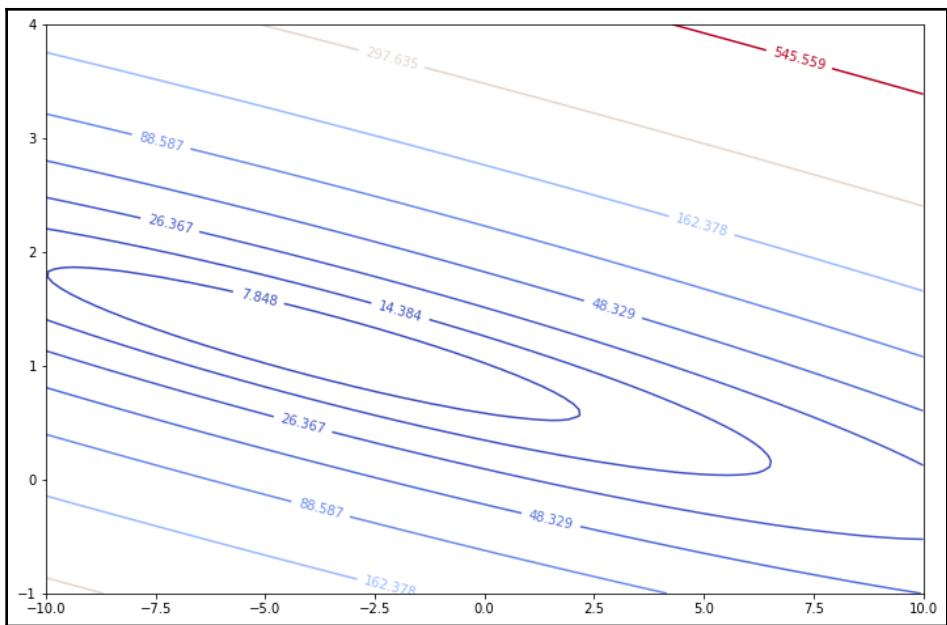


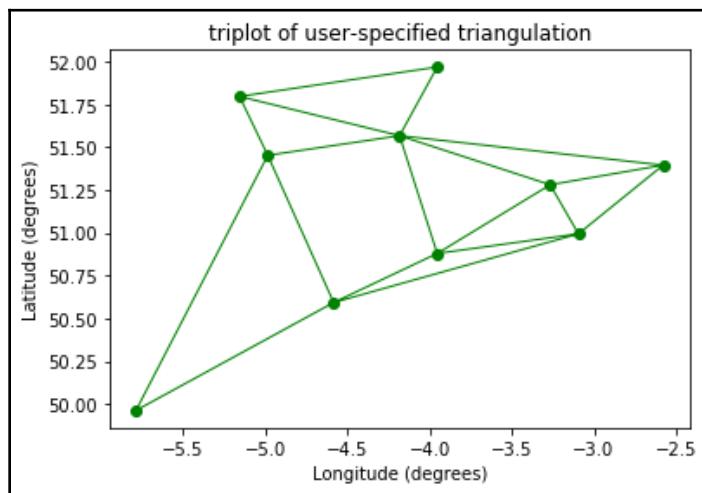
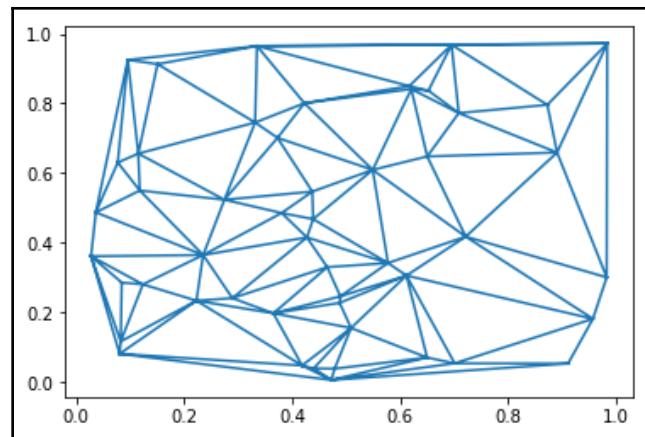


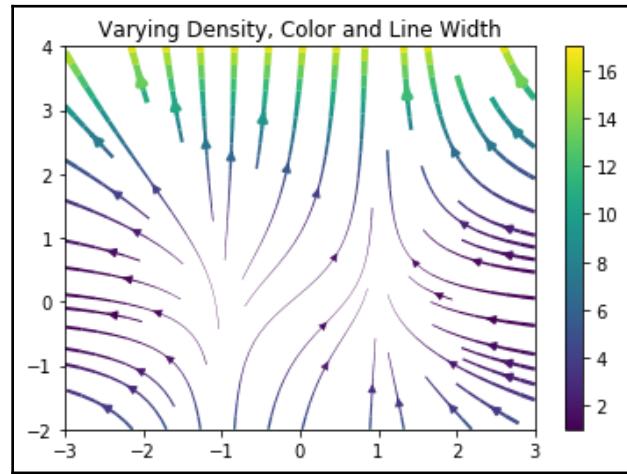
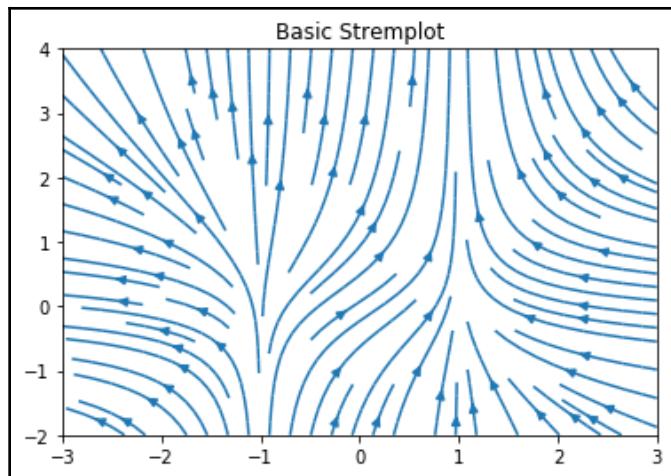


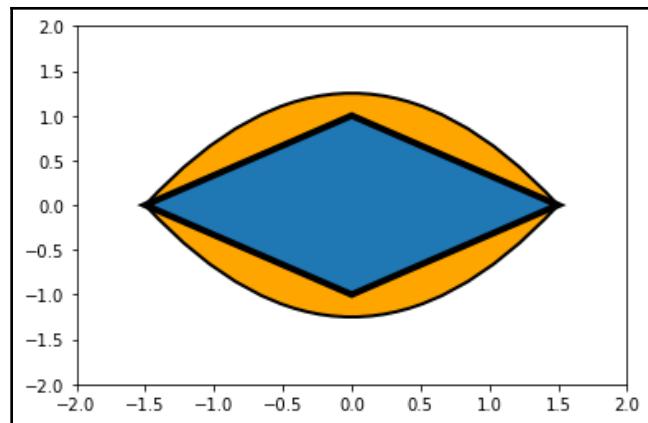




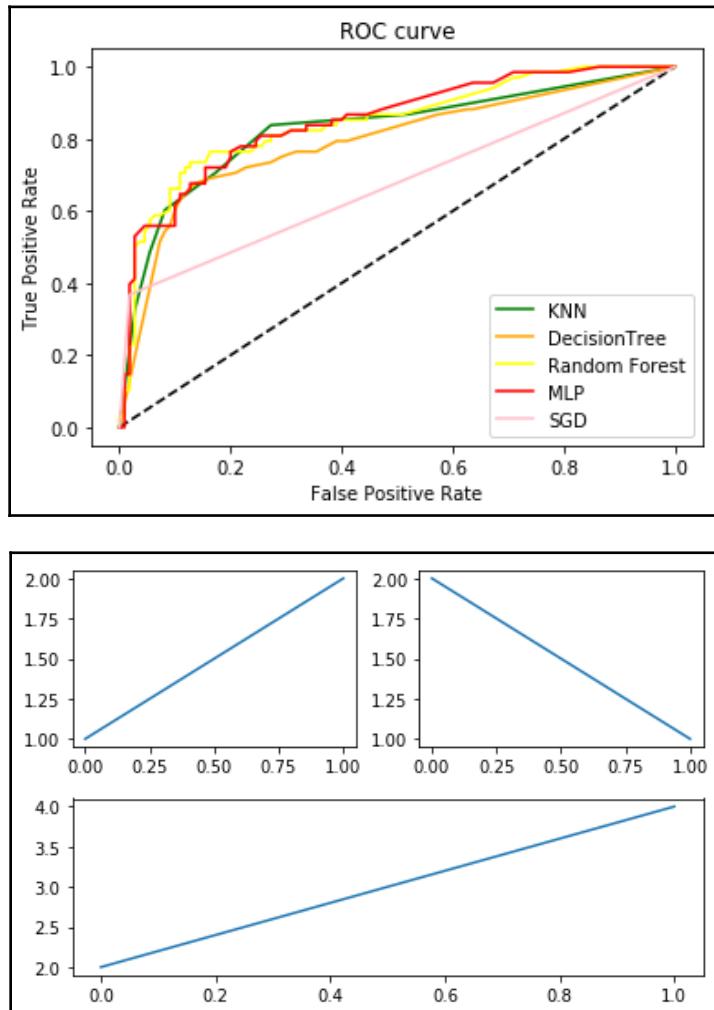








Chapter 3: Plotting Multiple Charts, Subplots, and Figures



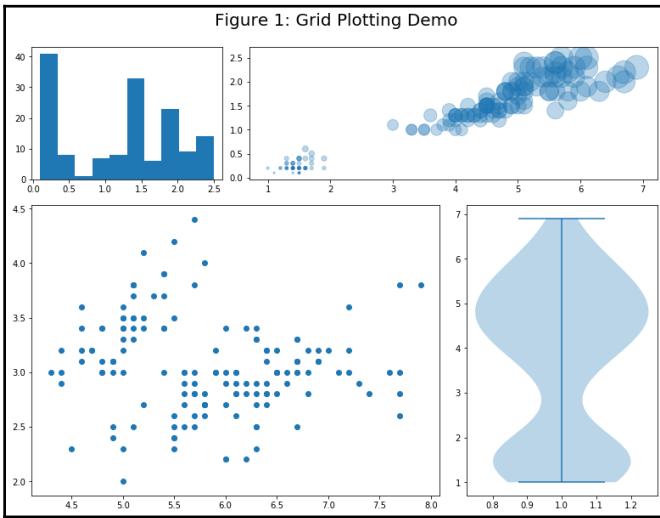
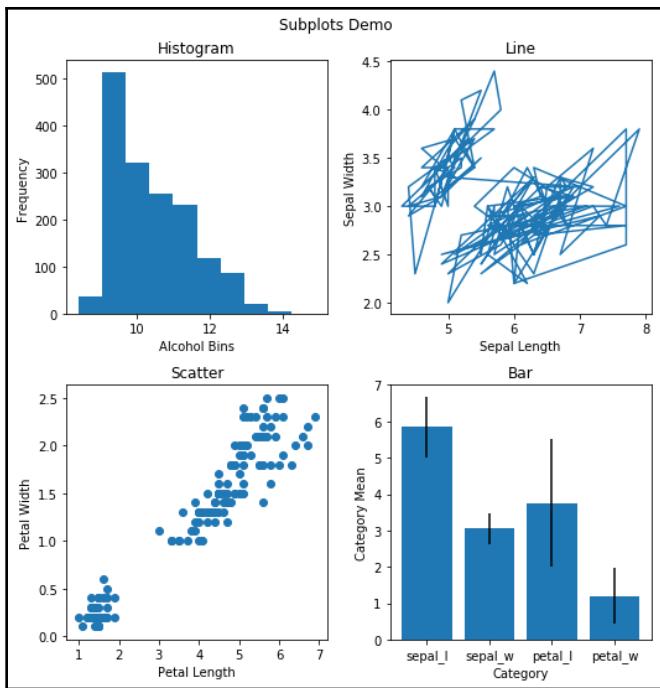
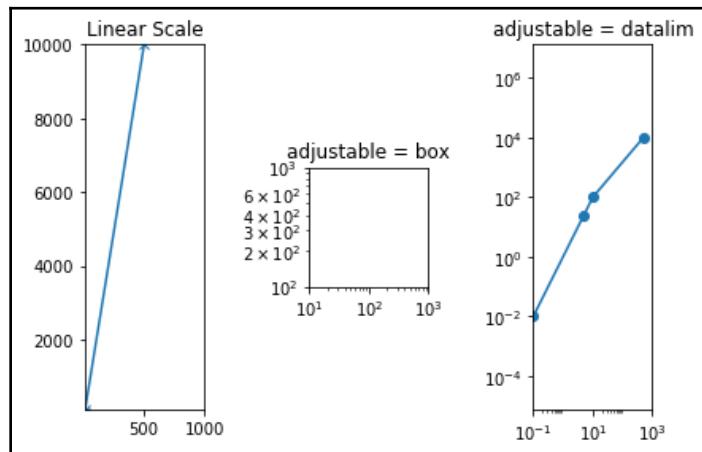
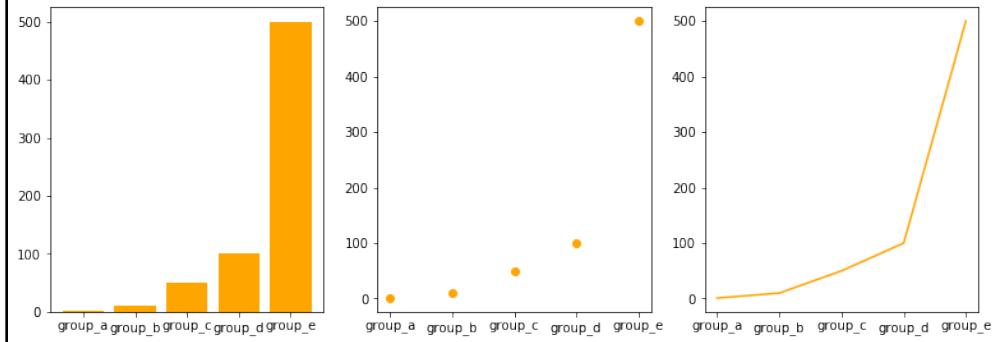
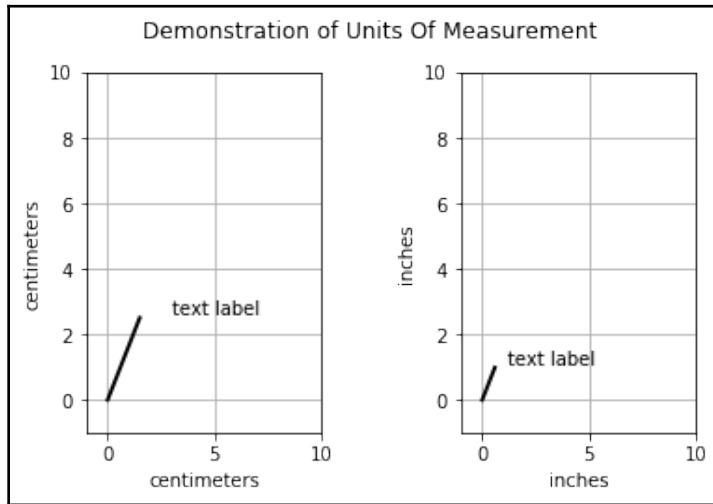
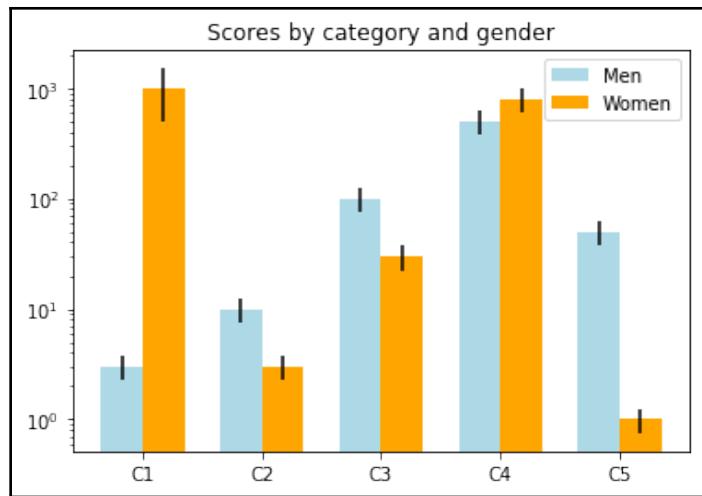
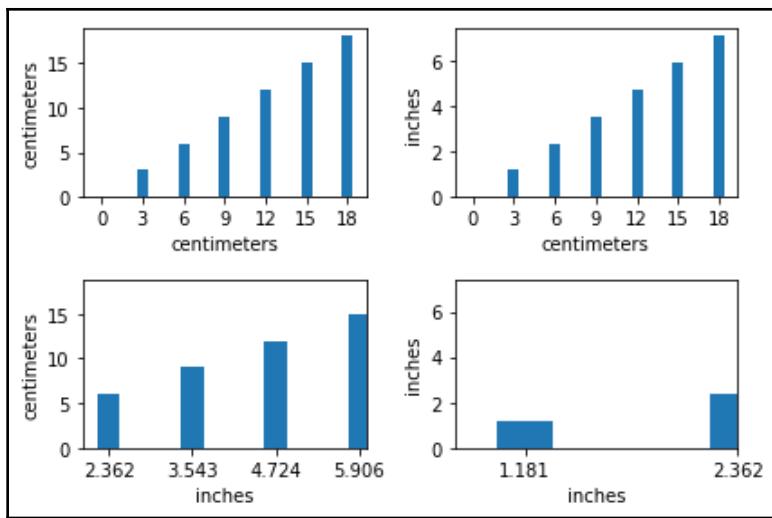


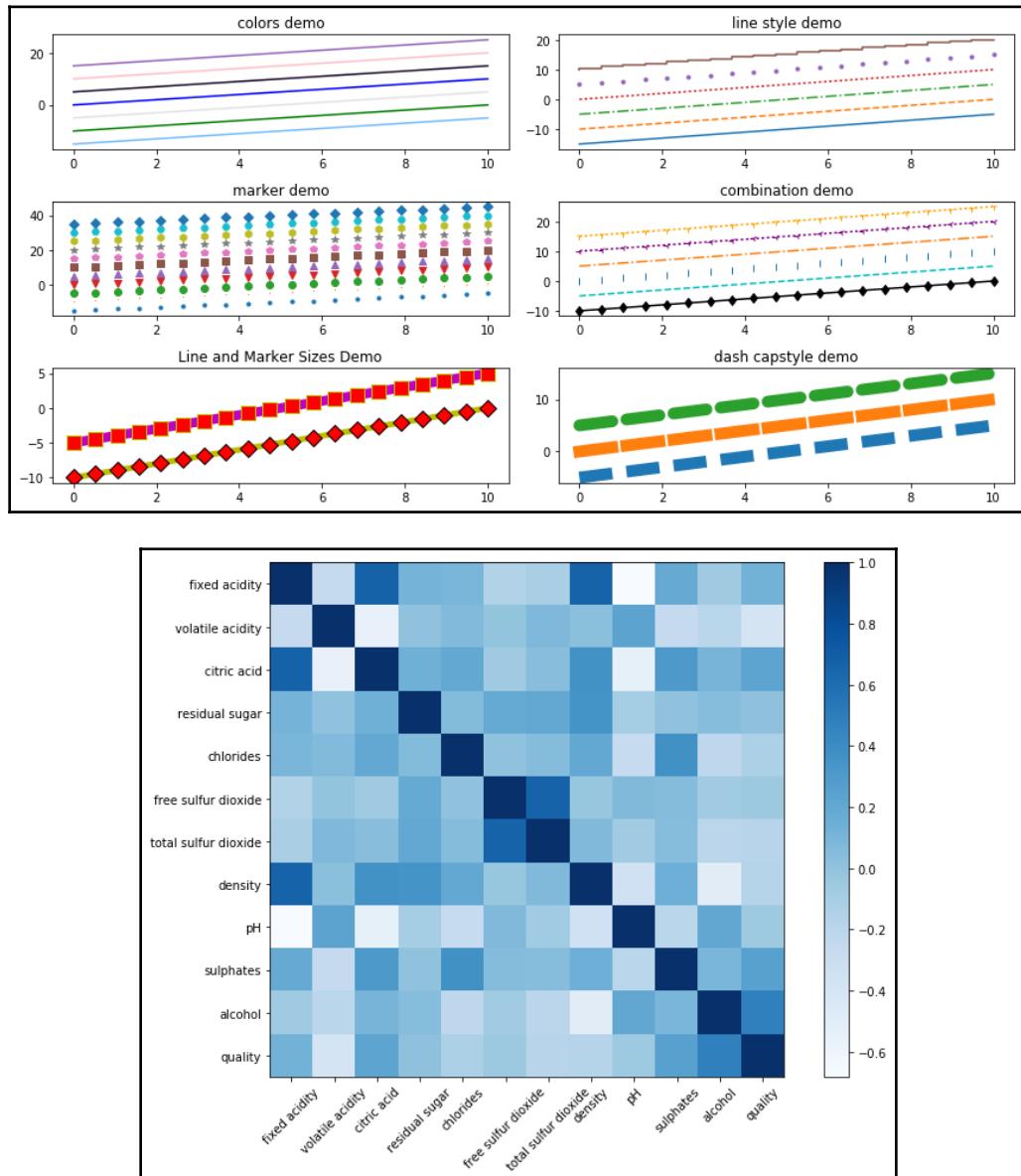
Figure 2: Row Plotting Demo

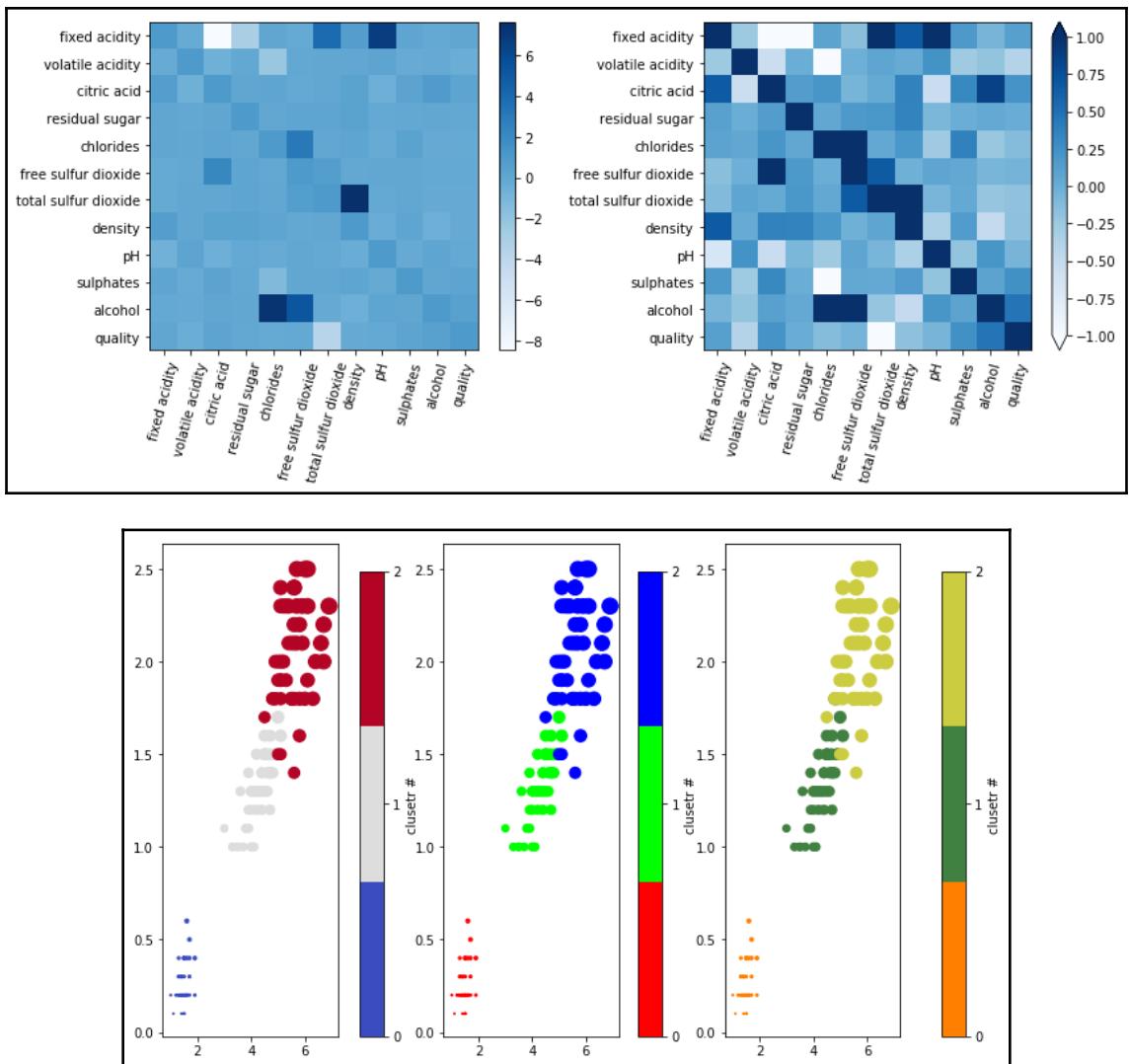


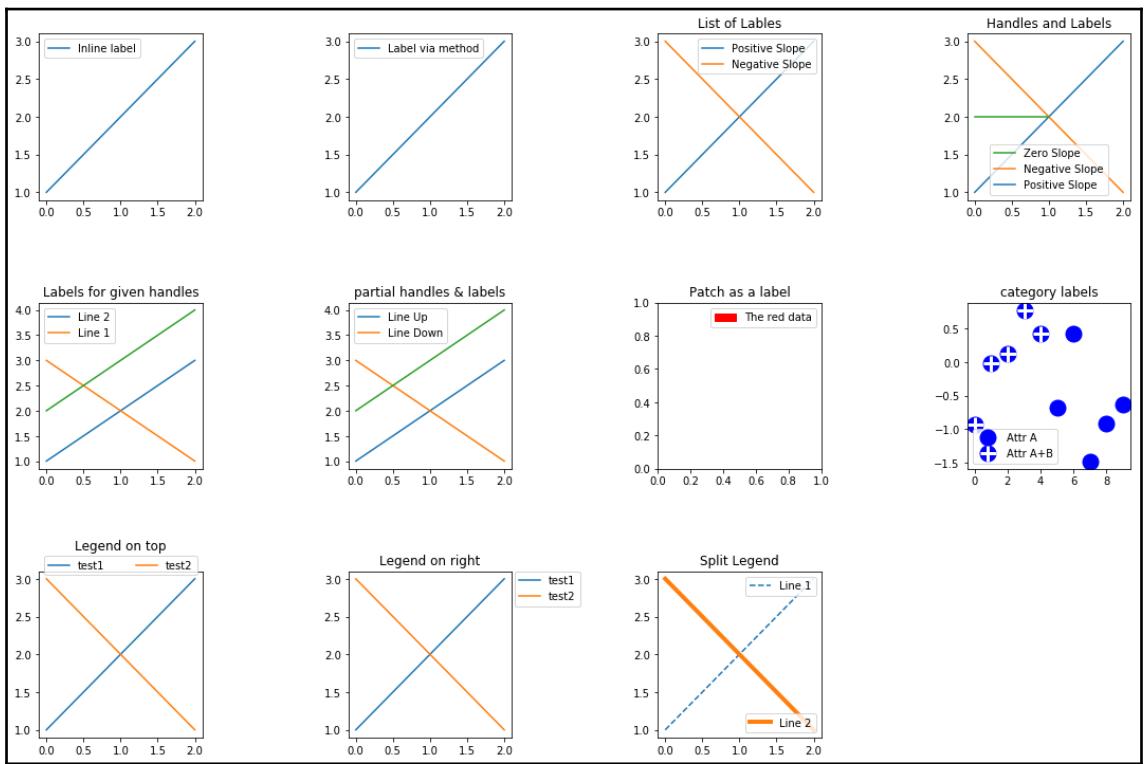
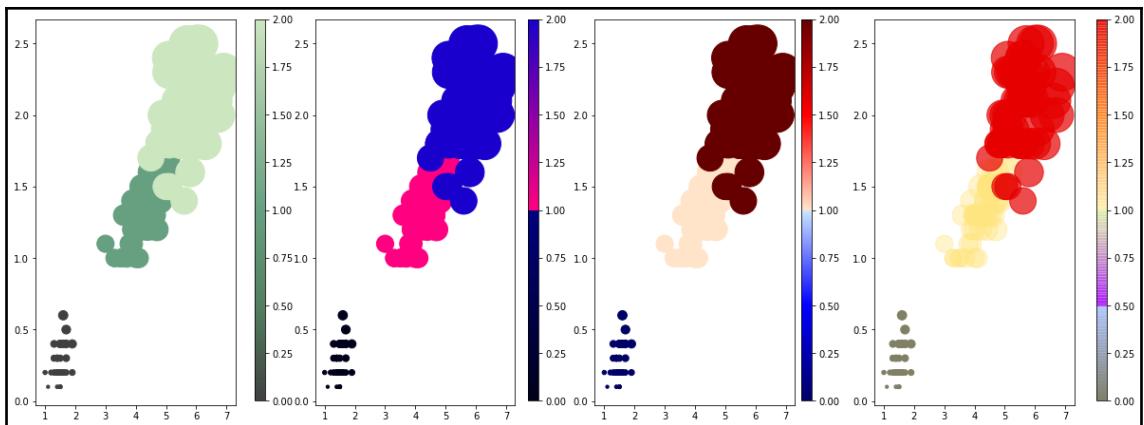


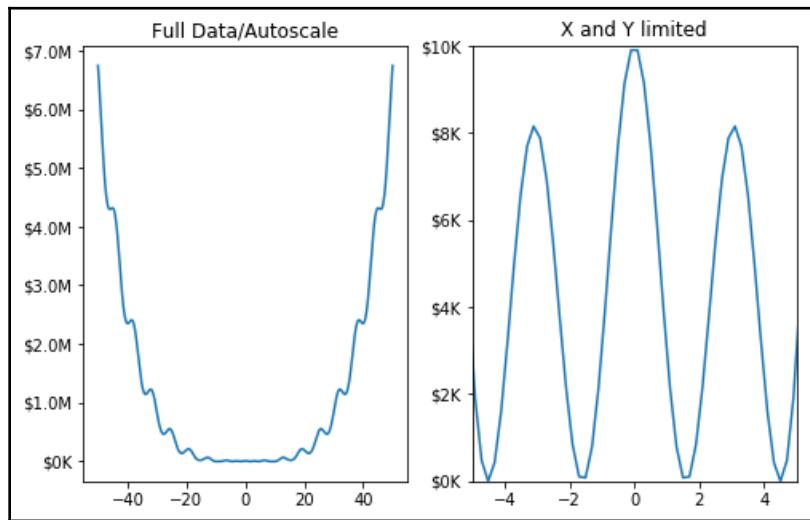
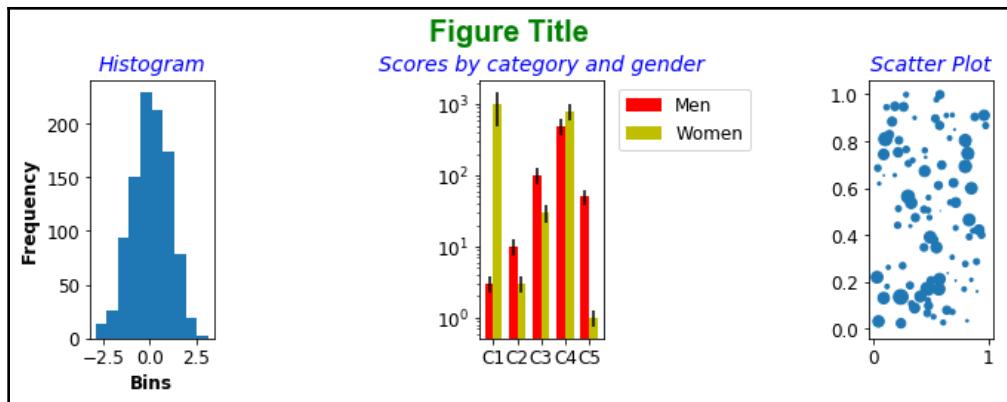


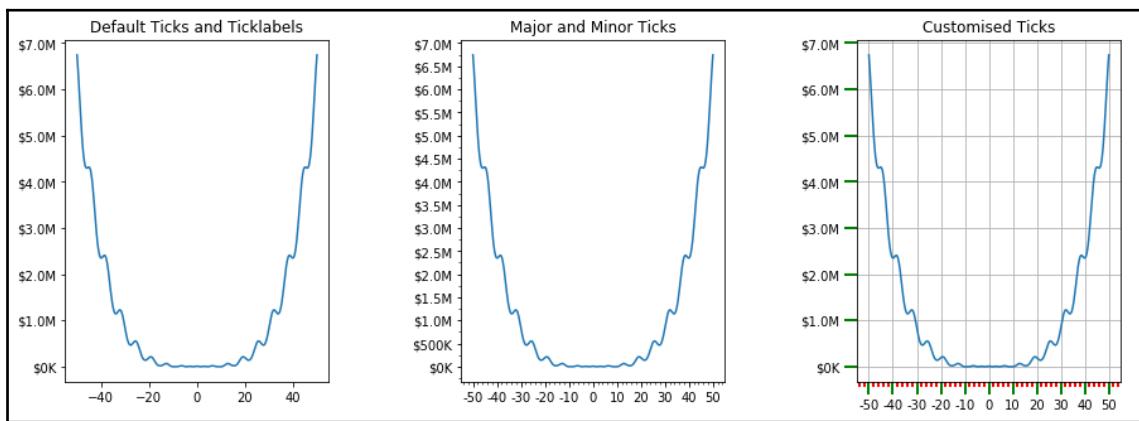
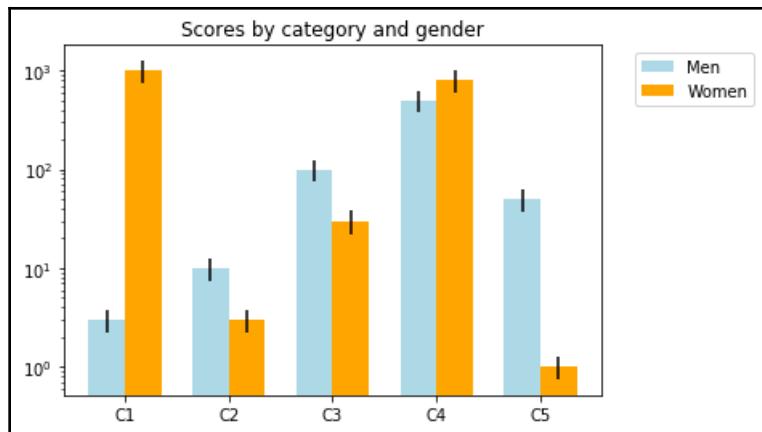
Chapter 4: Developing Visualizations for Publishing Quality

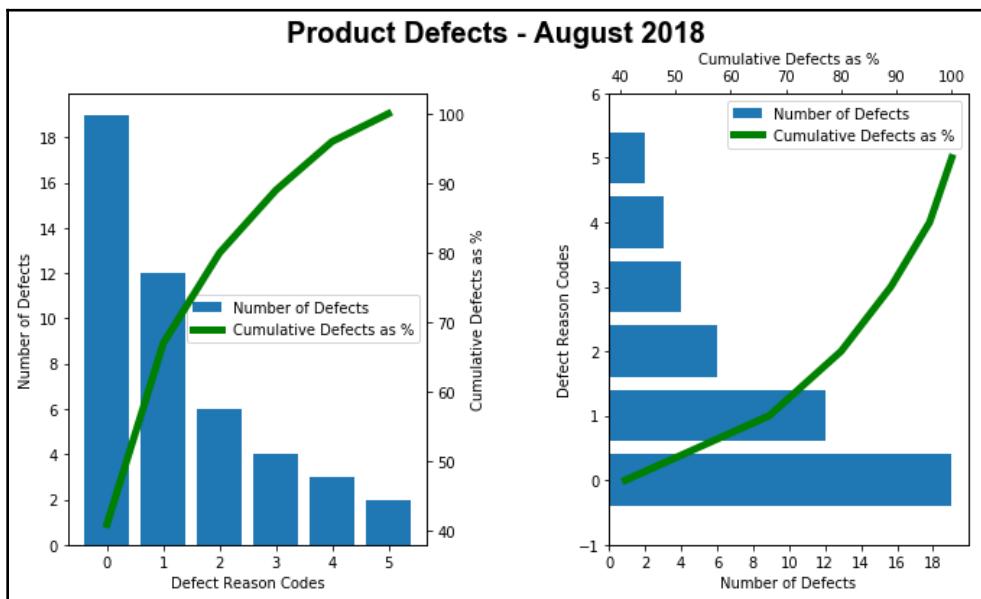
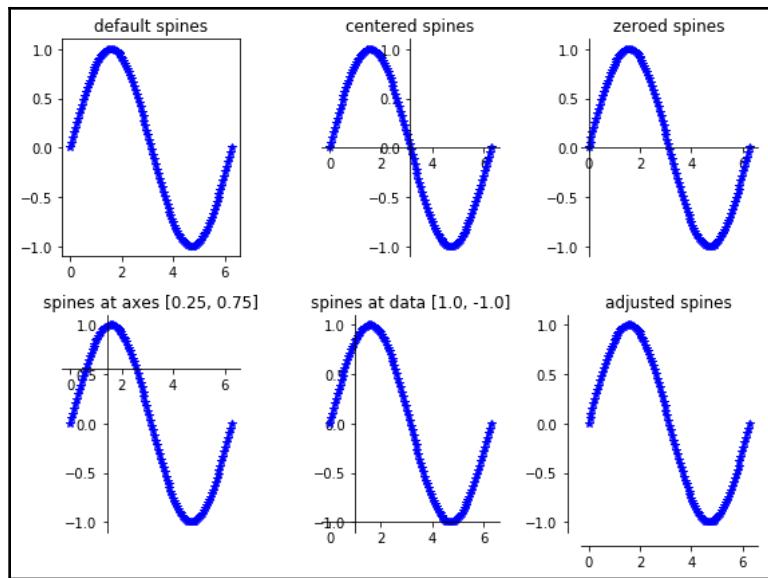


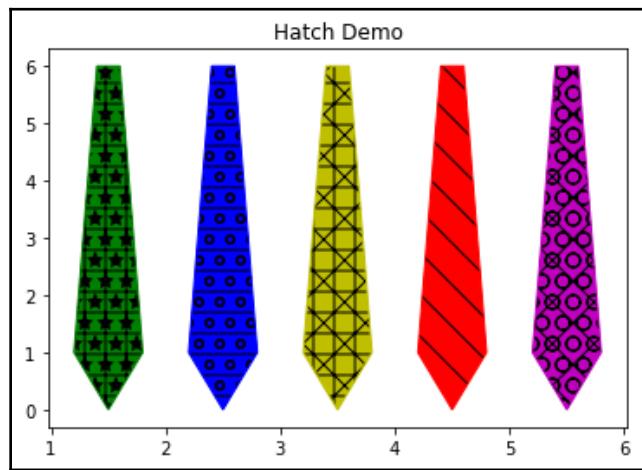
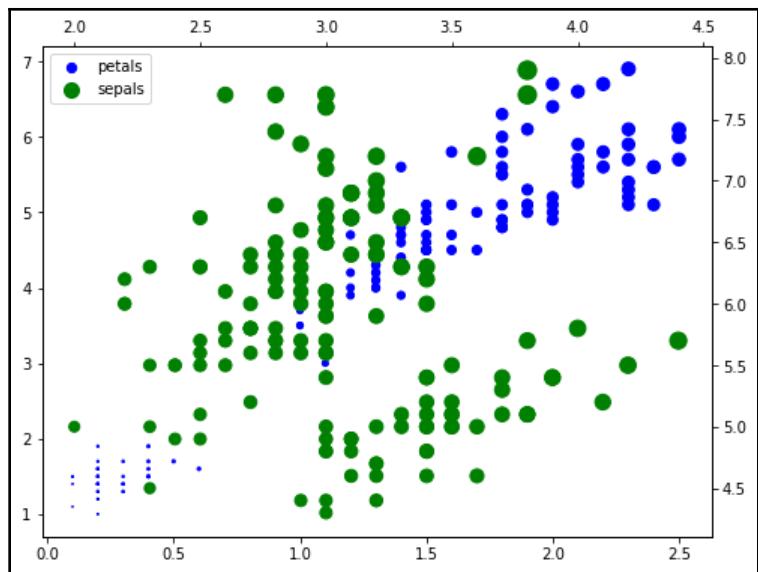


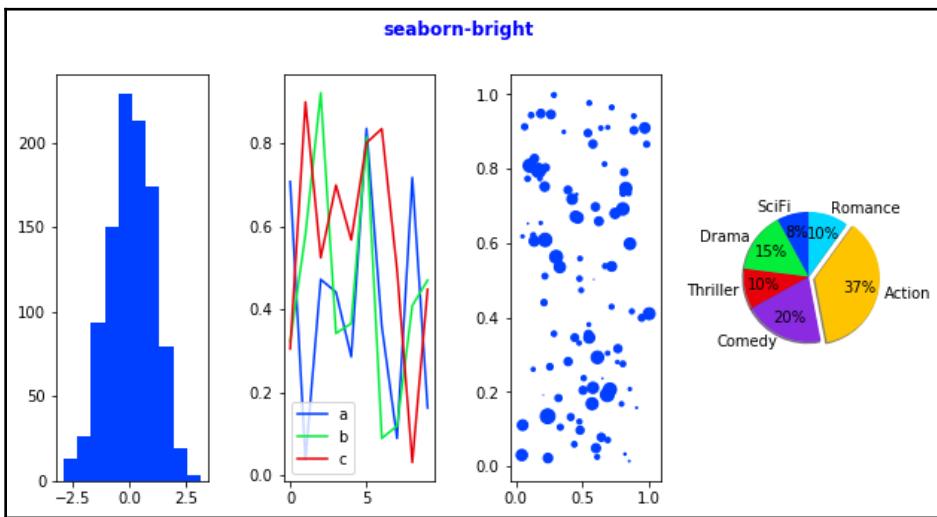
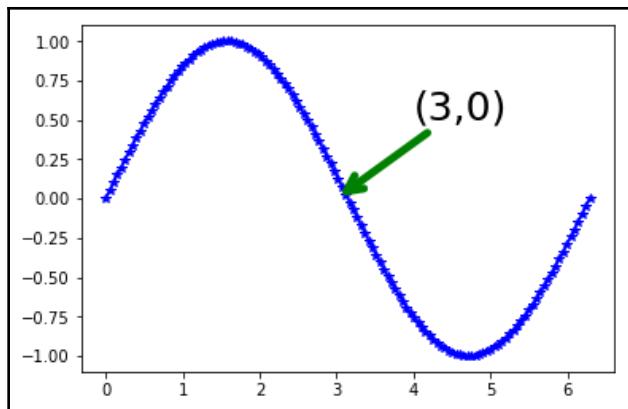


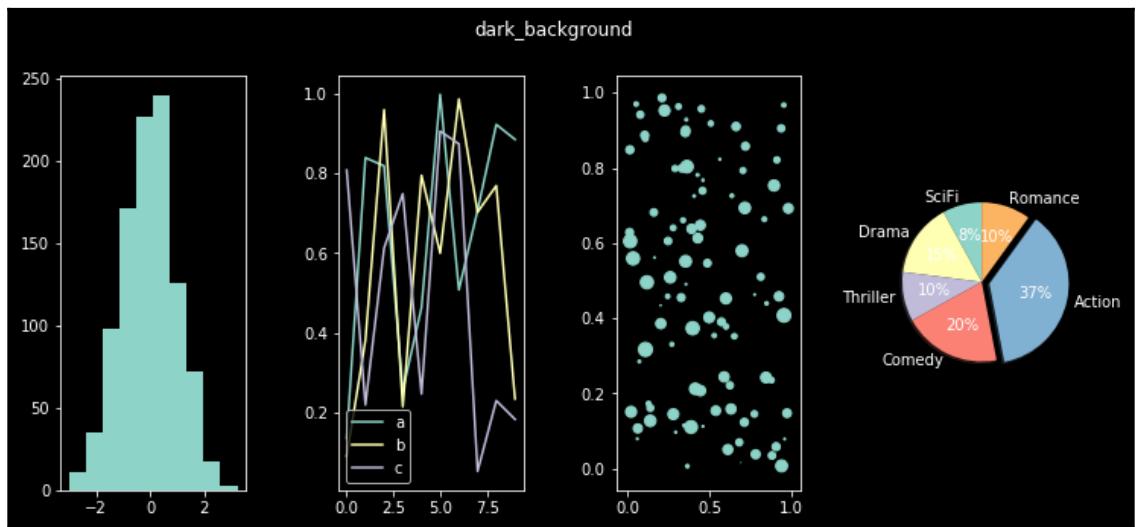
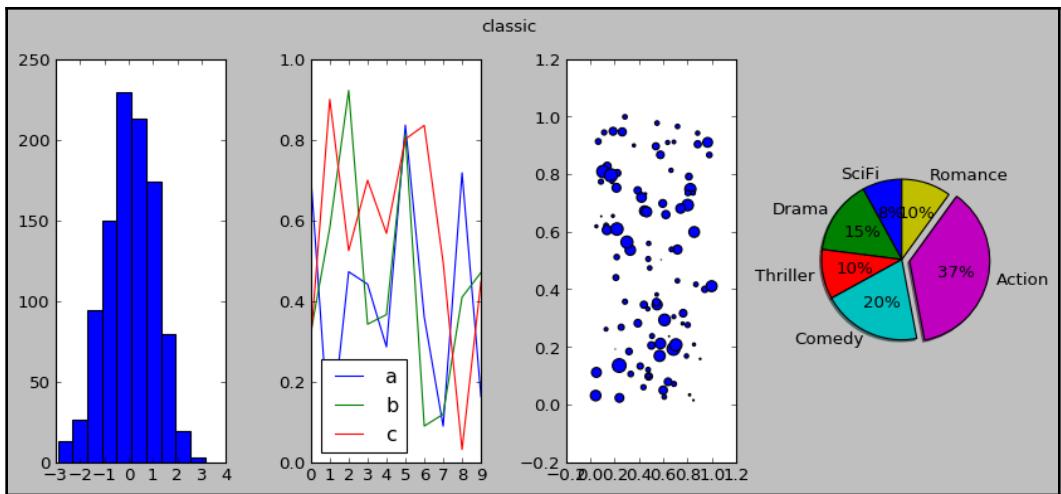


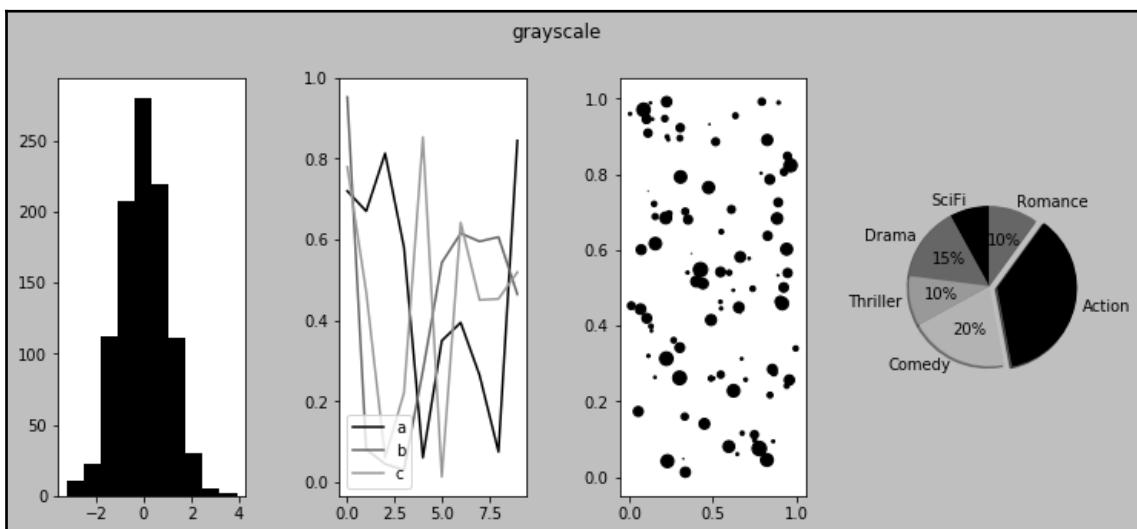
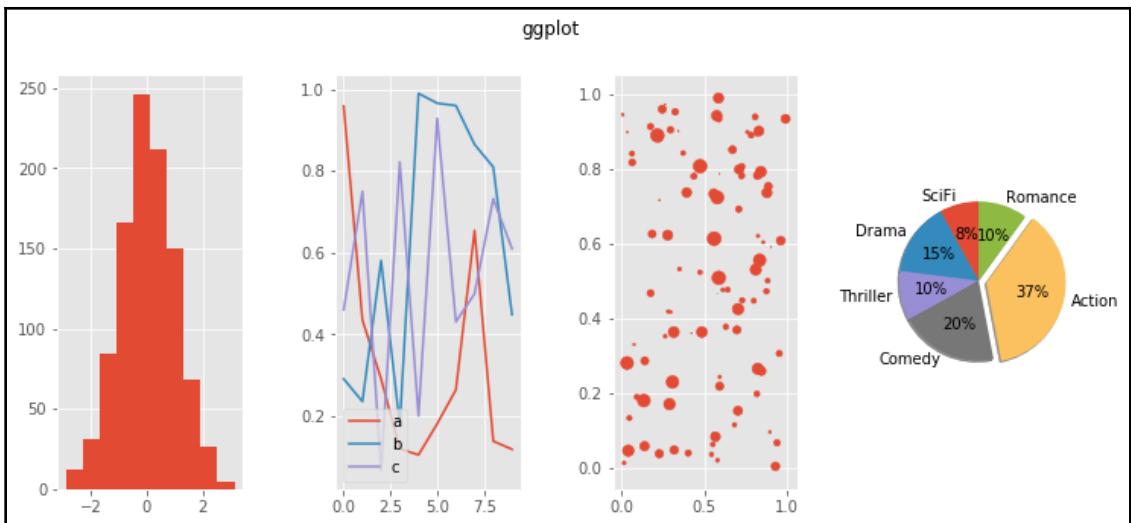


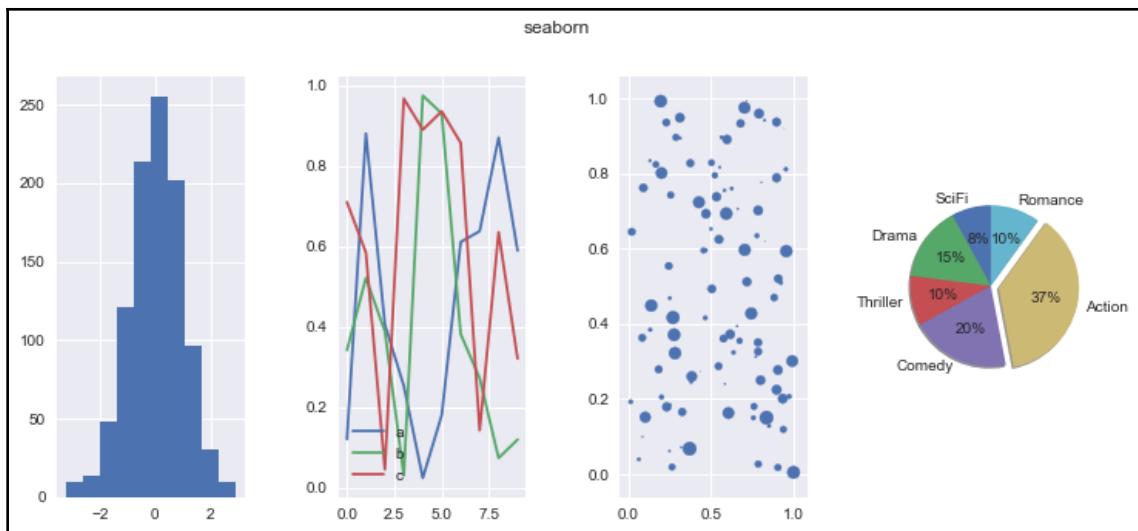




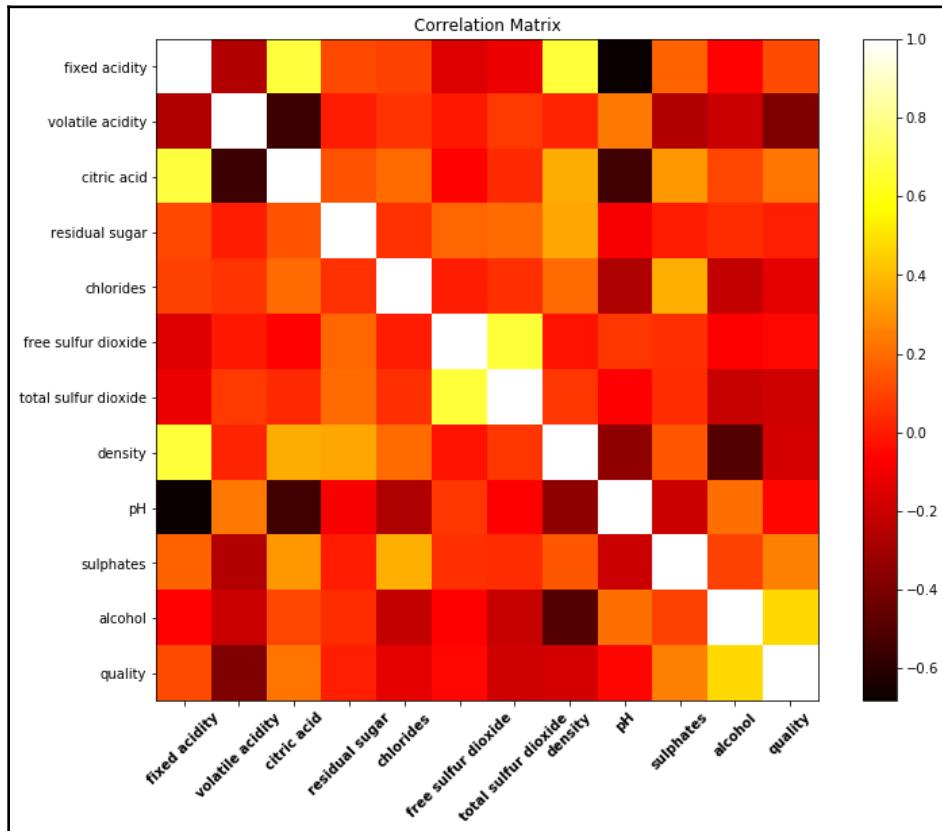


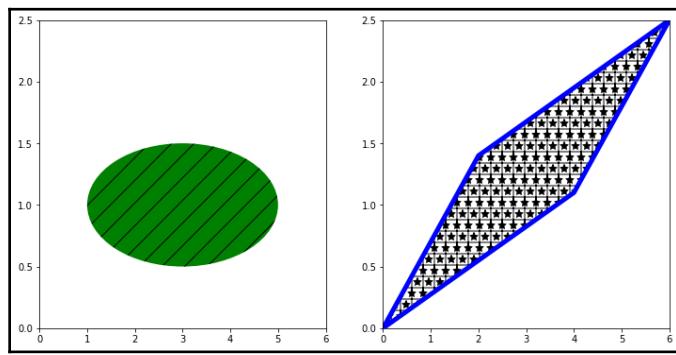
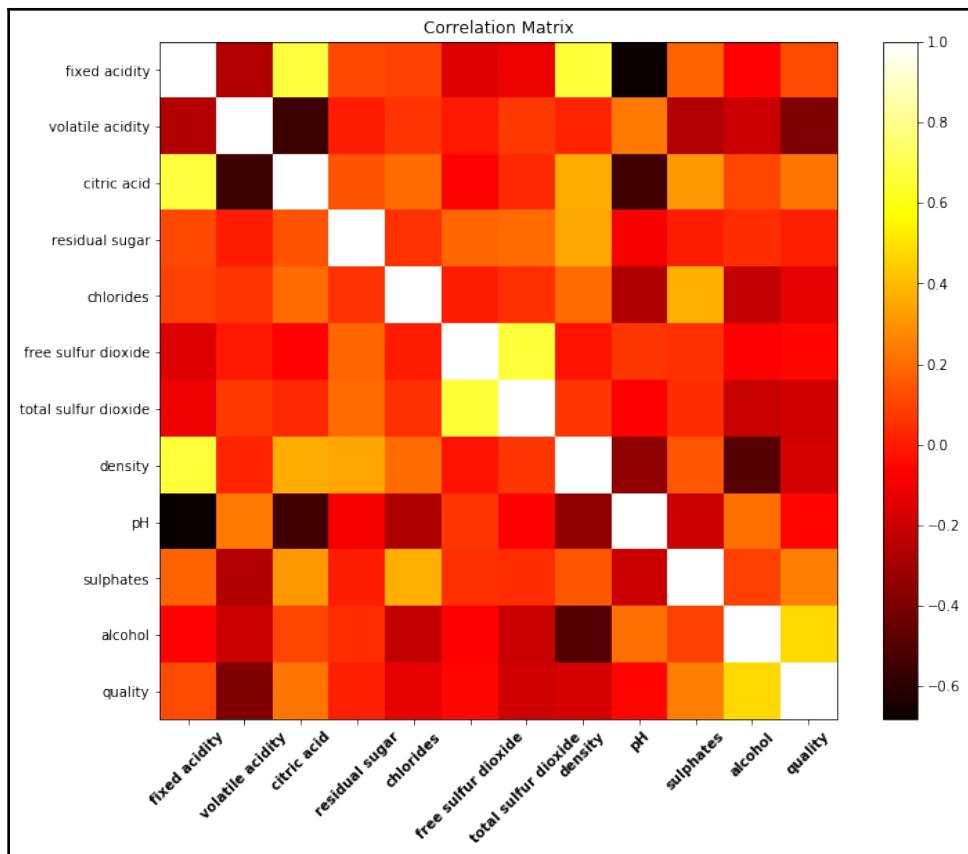


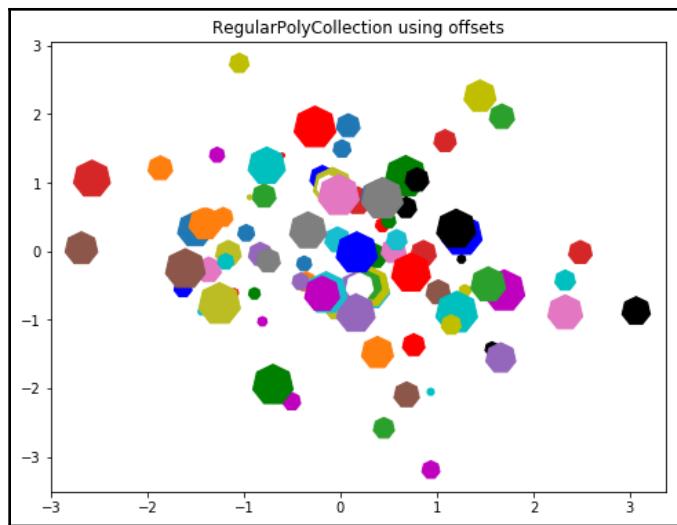




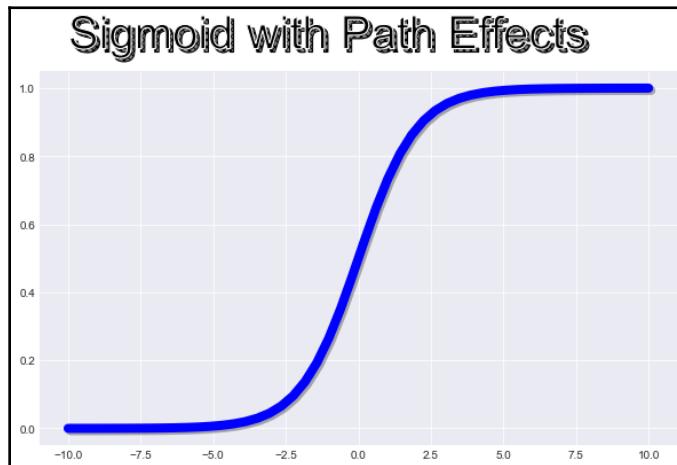
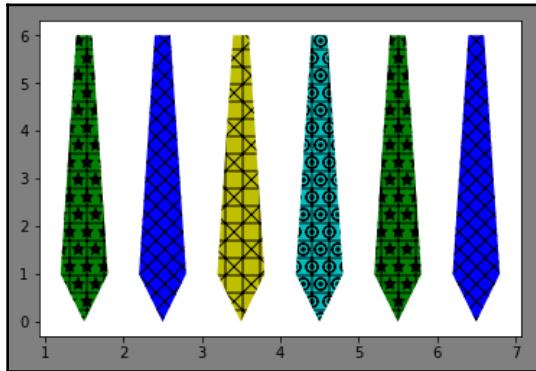
Chapter 5: Plotting with Object-Oriented API

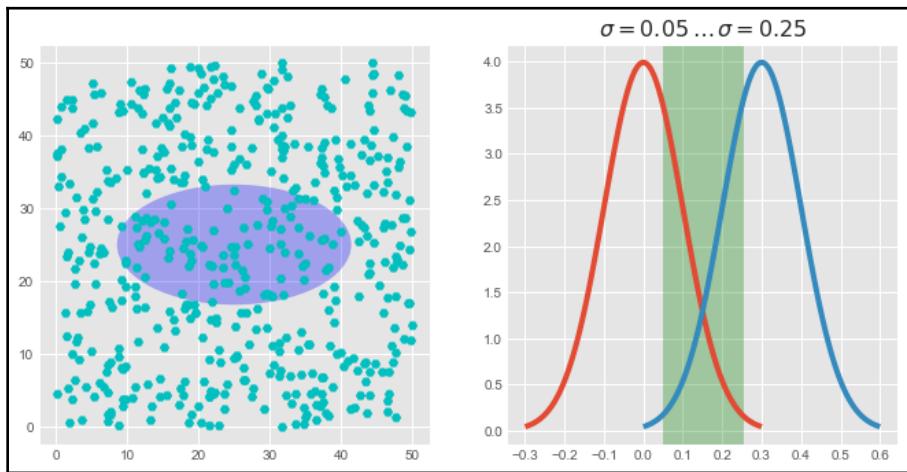
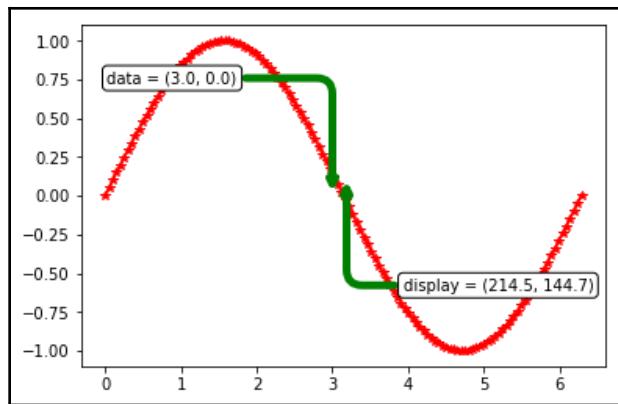


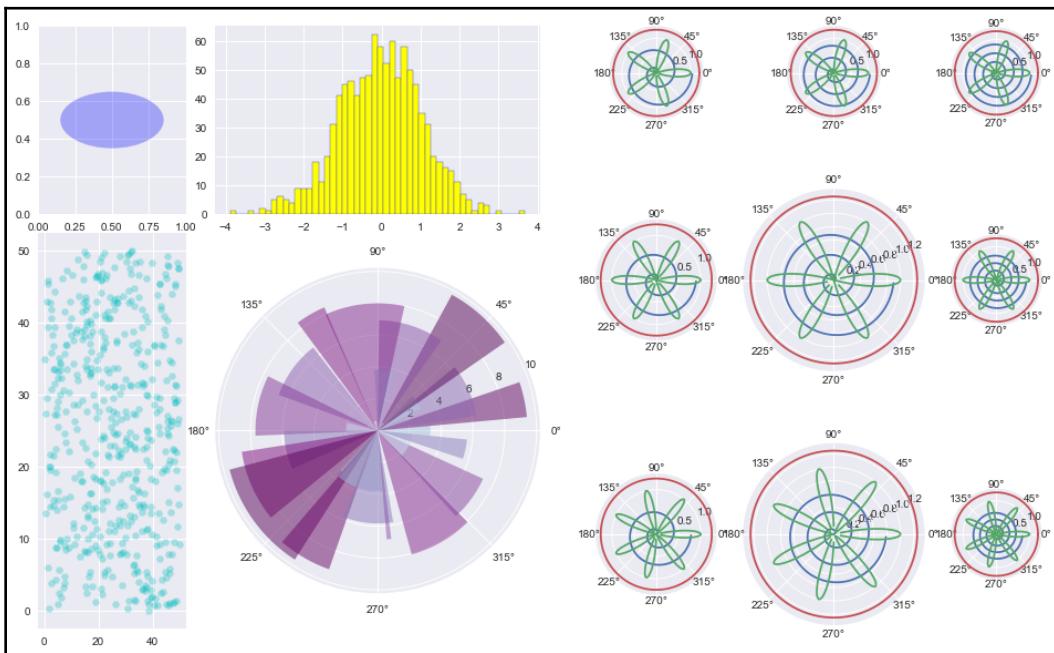
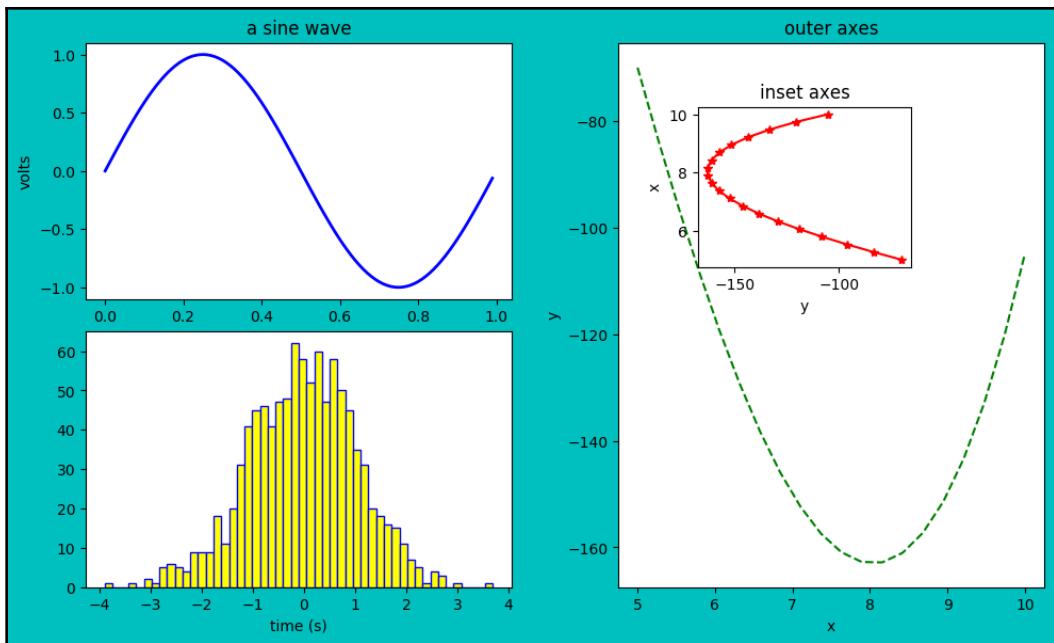


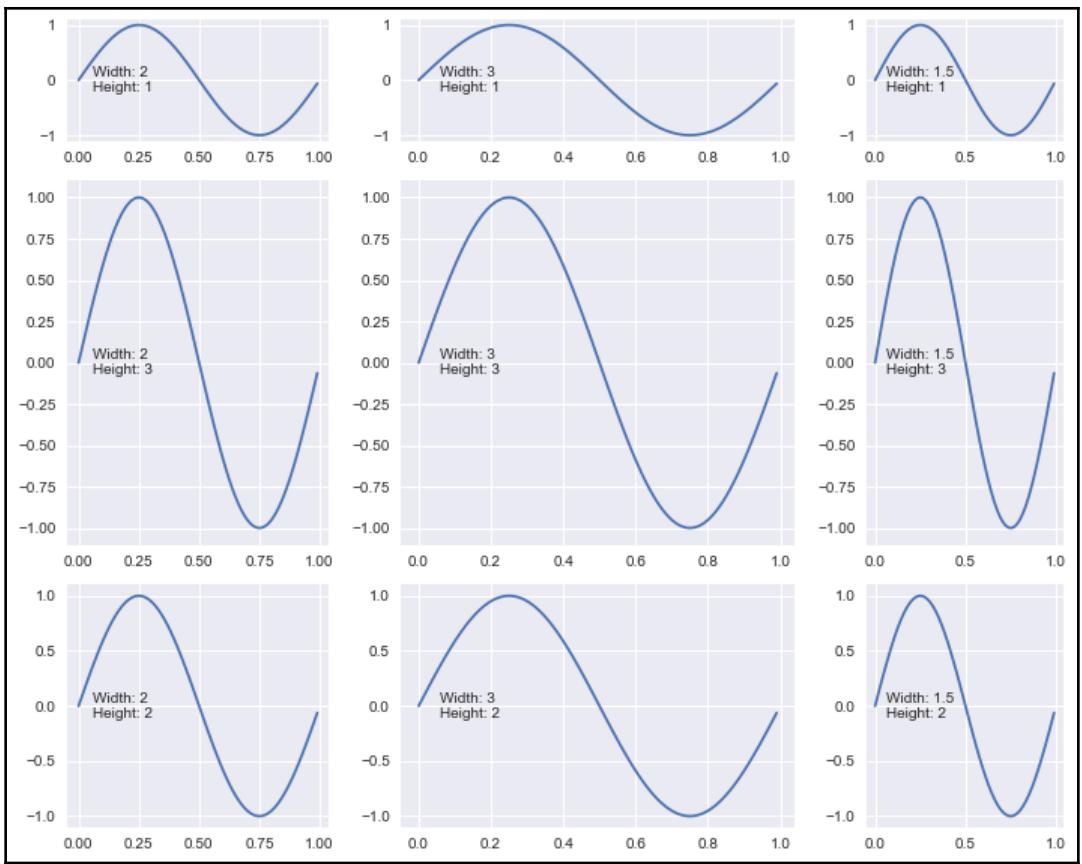


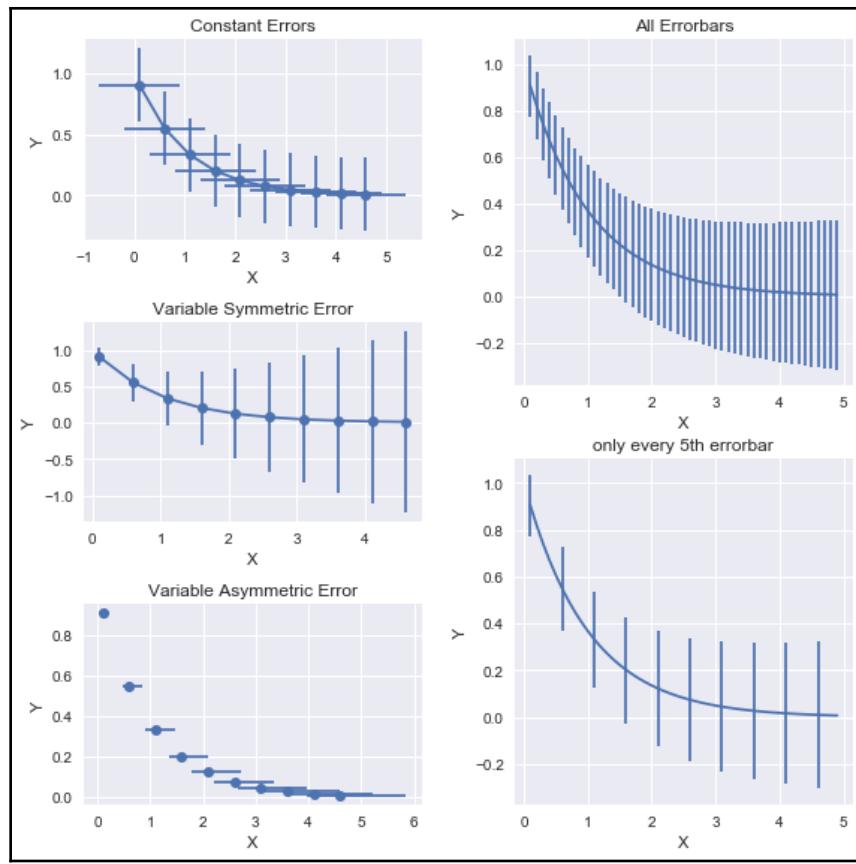
Chapter 6: Plotting with Advanced Features

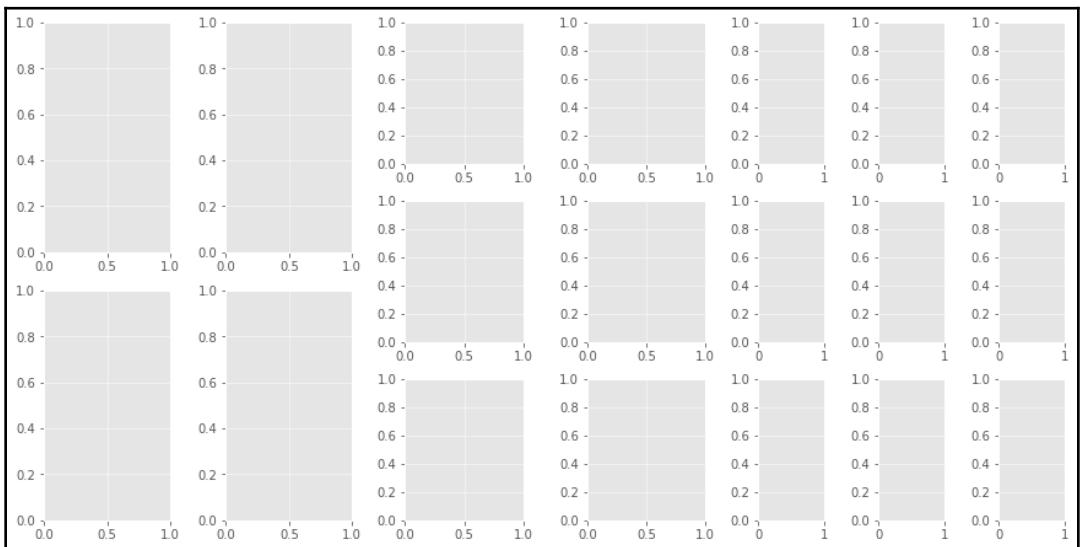
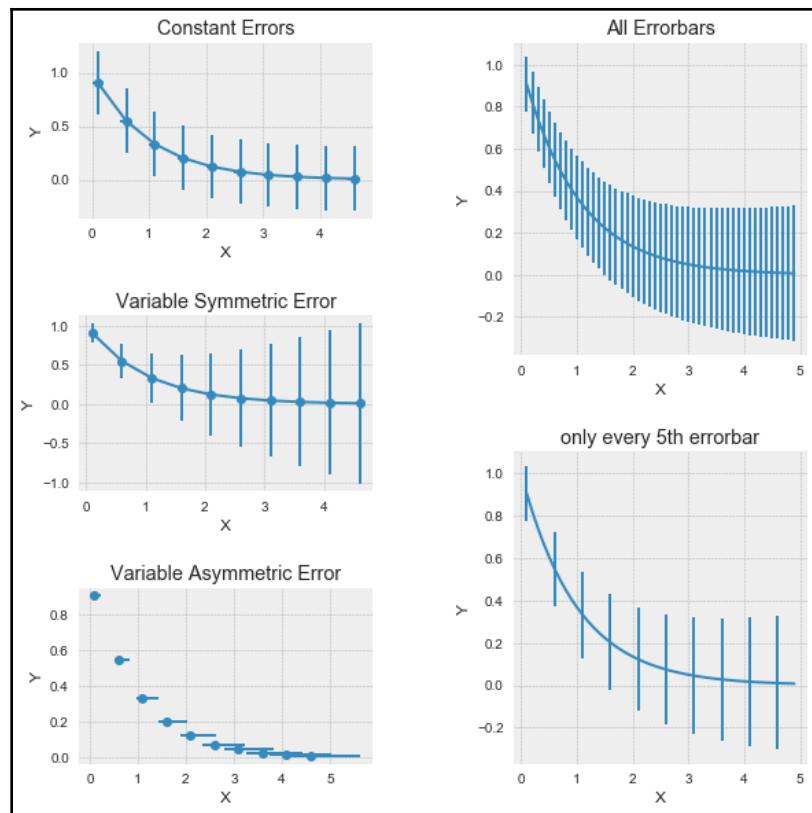


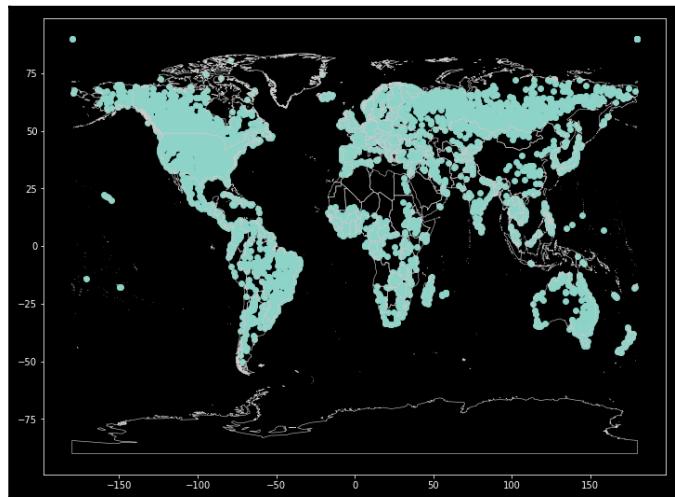
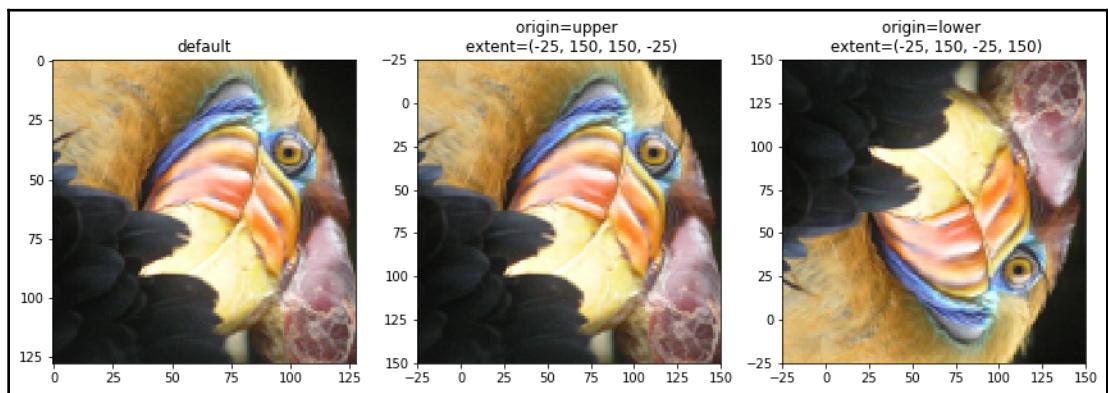
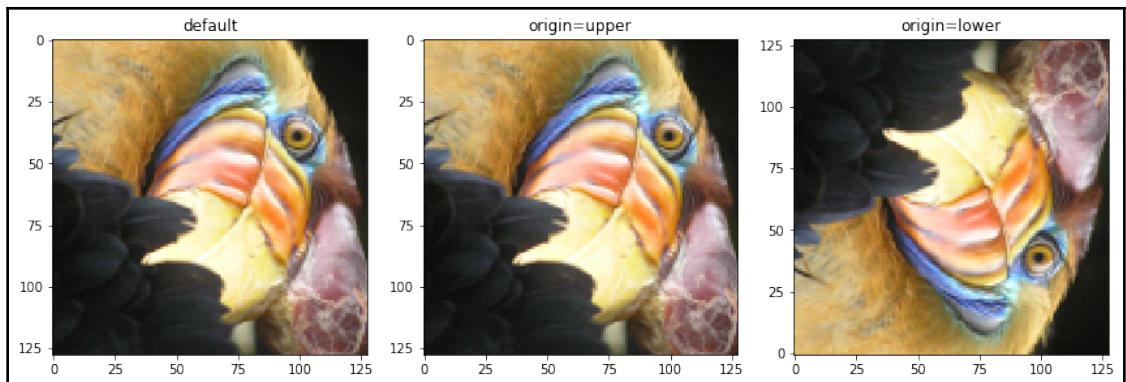




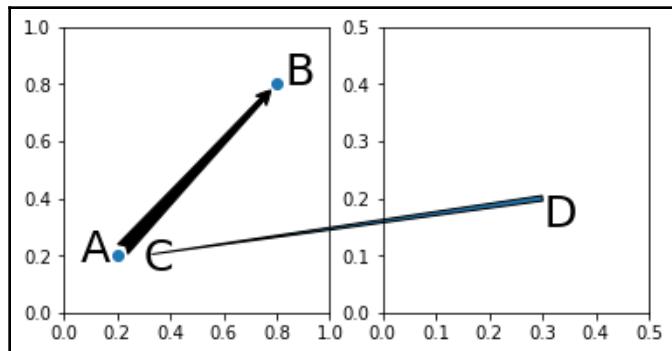
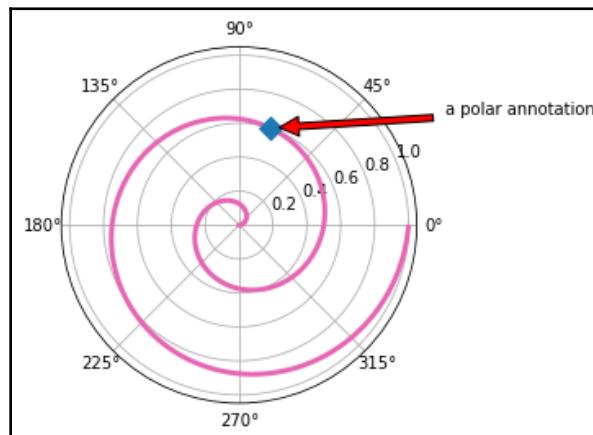
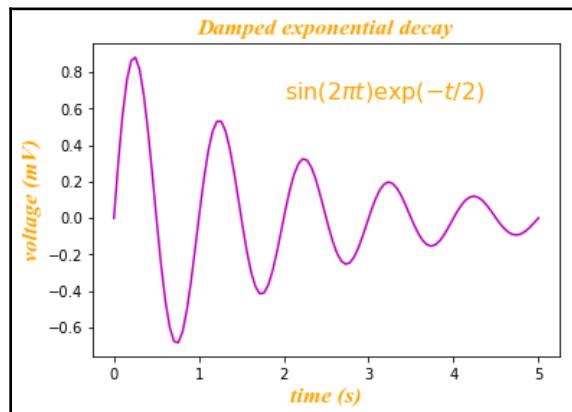


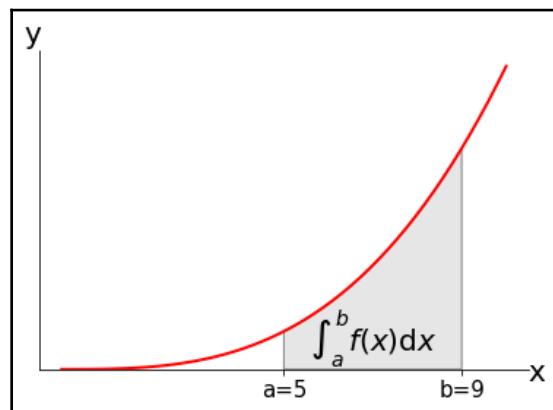
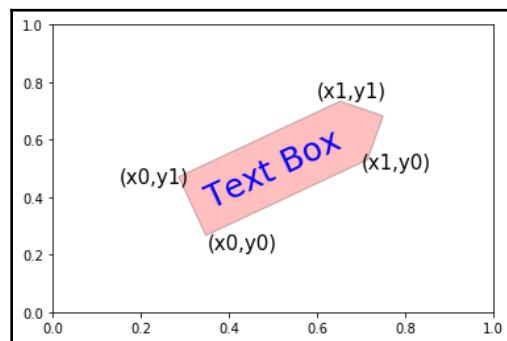
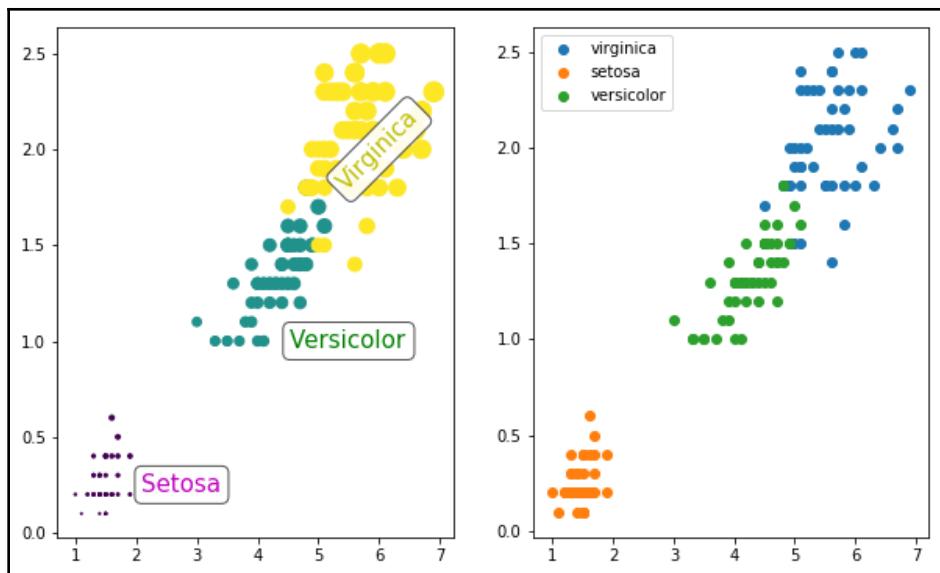


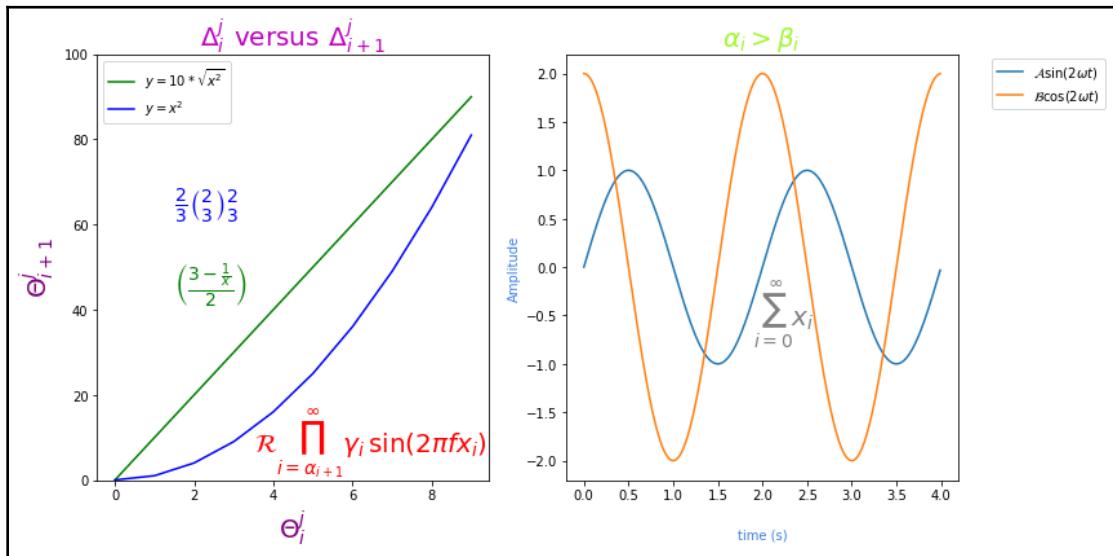
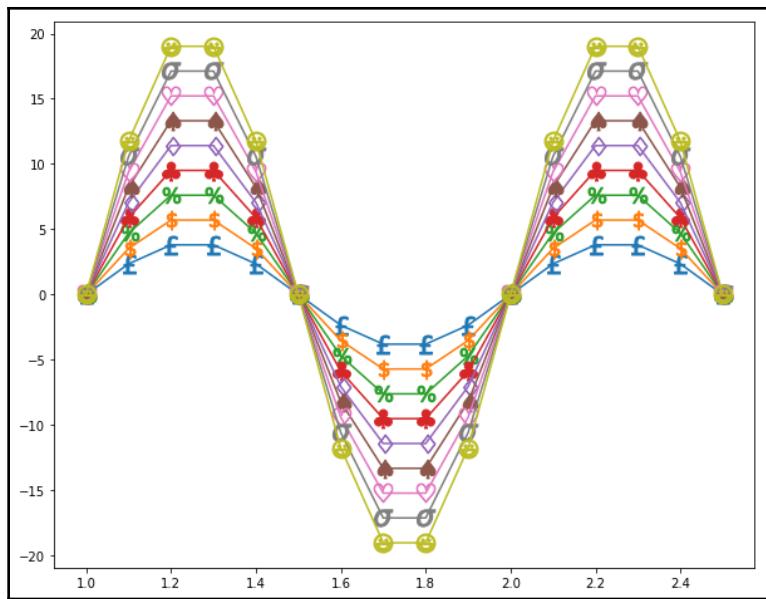


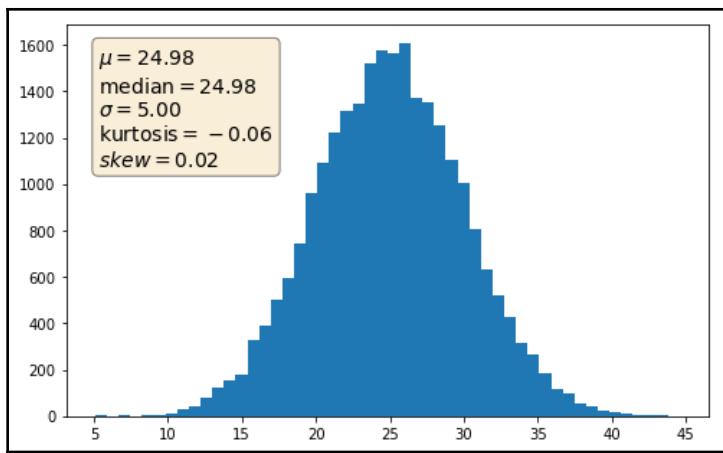


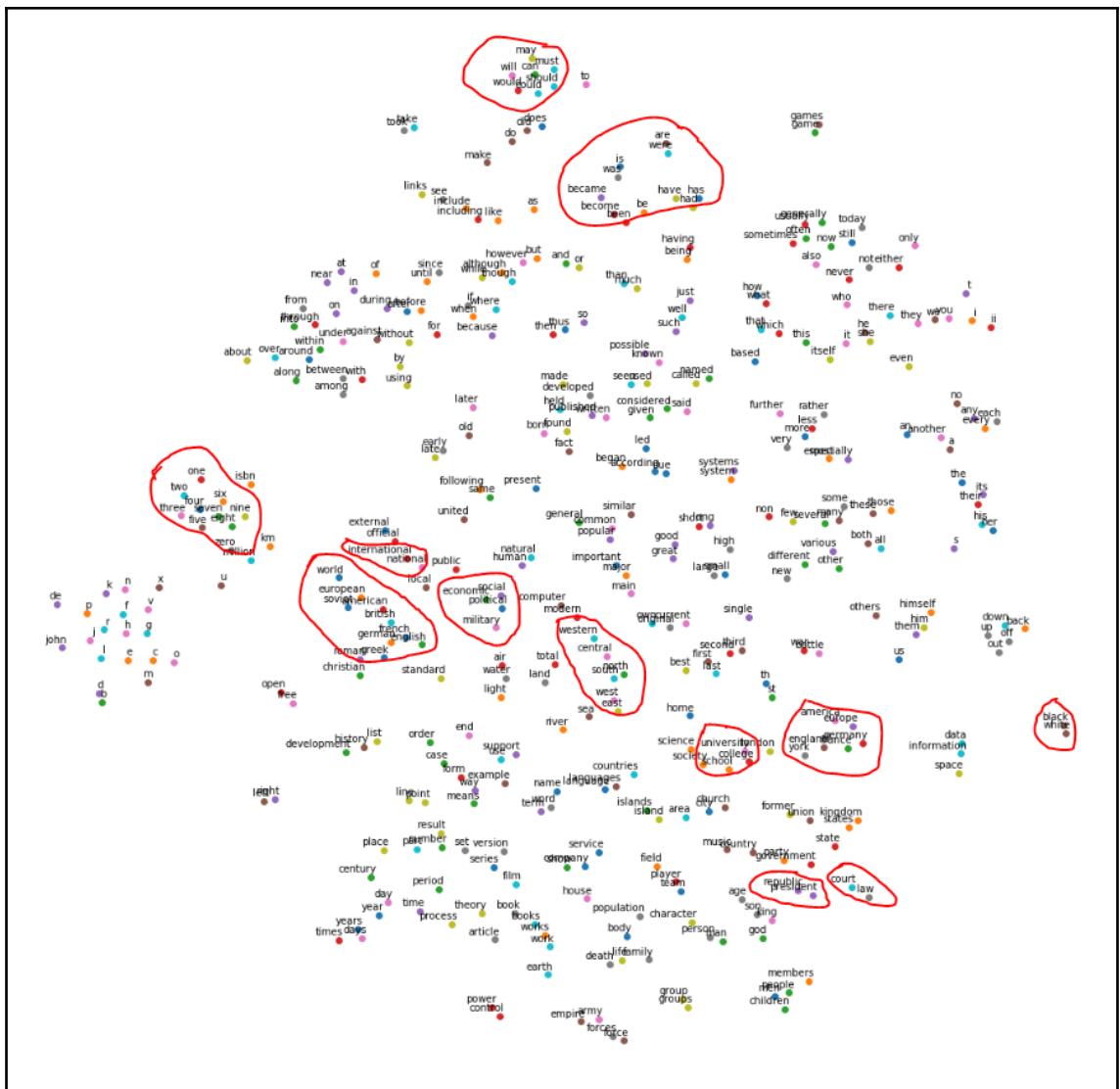
Chapter 7: Embedding Text and Expressions



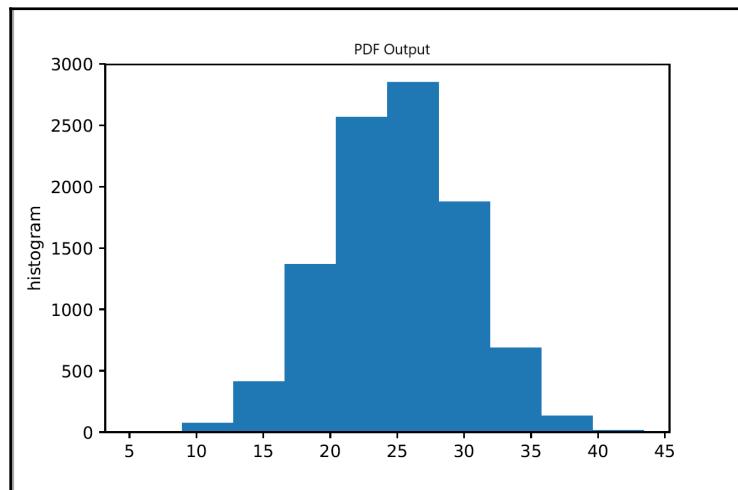
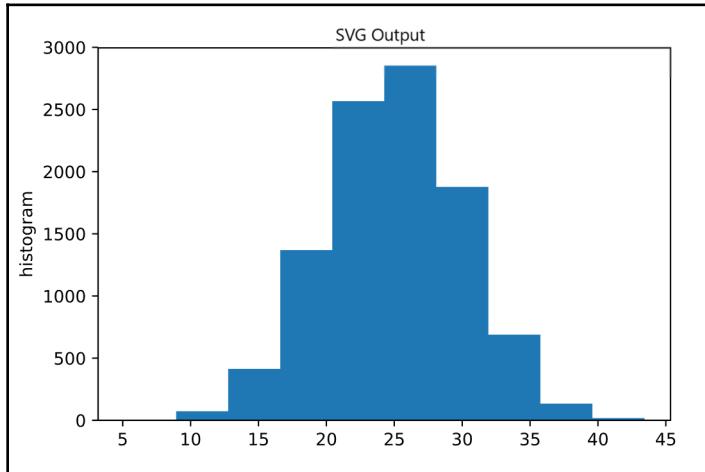


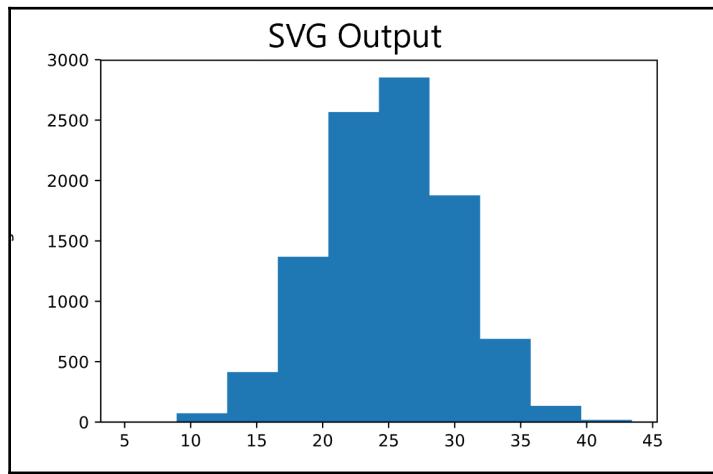
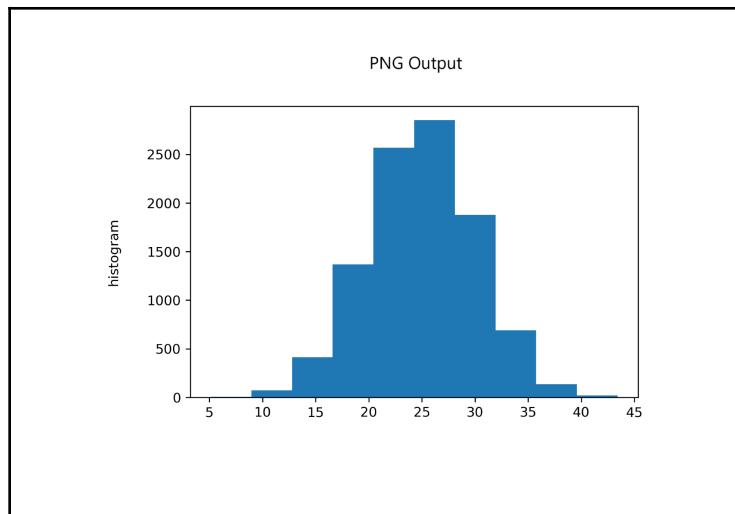


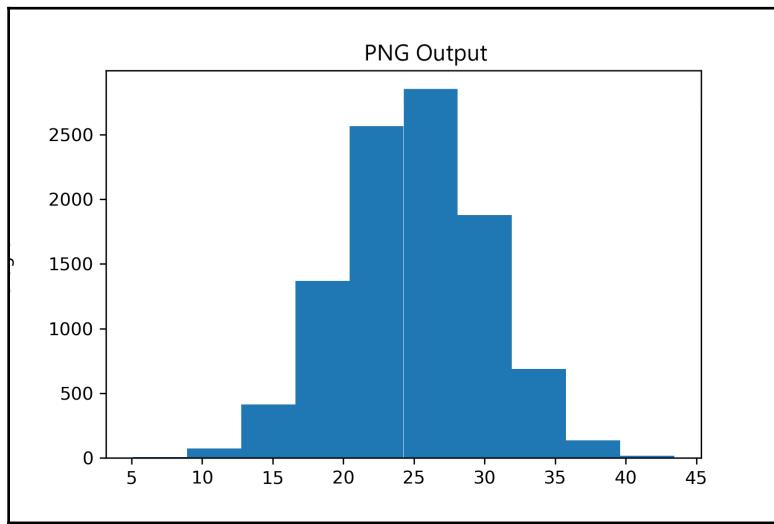
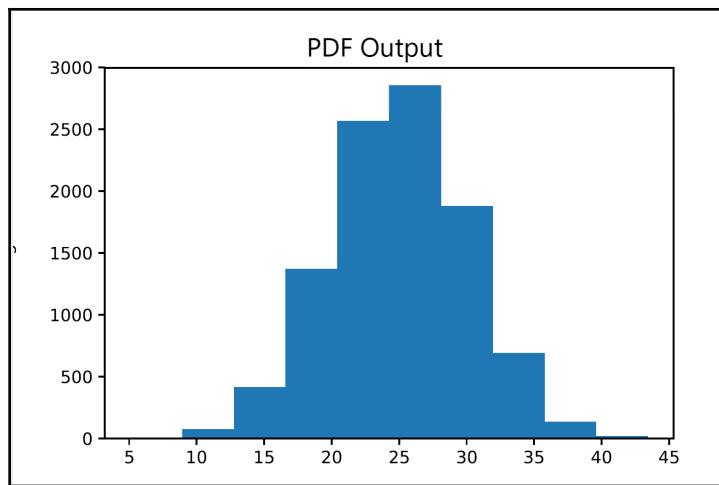


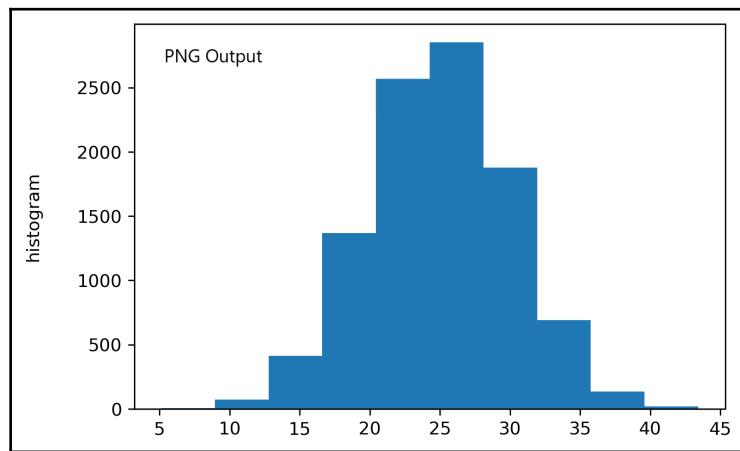
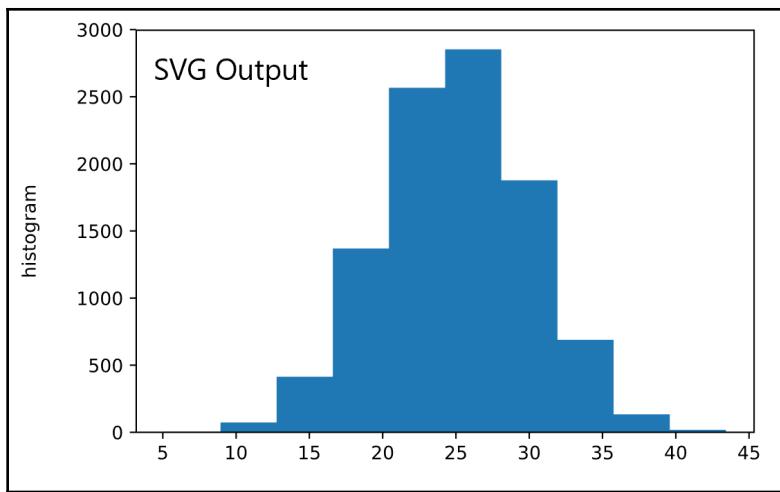


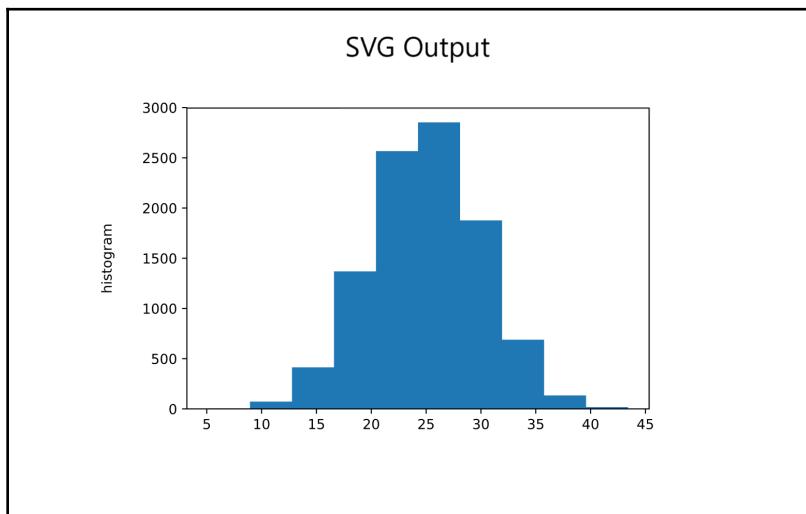
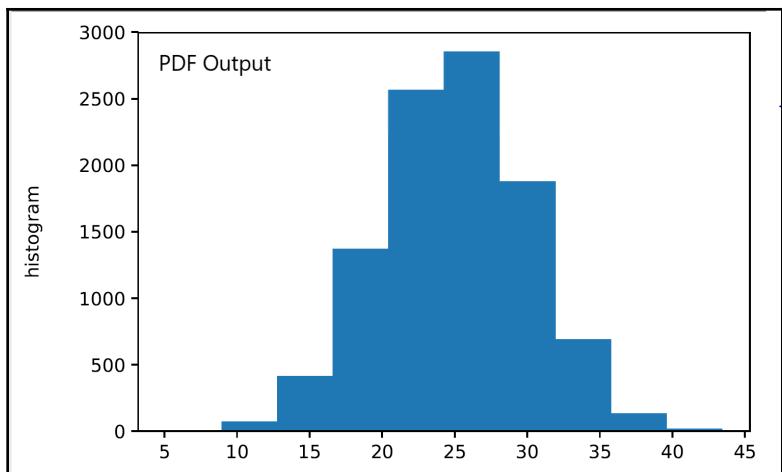
Chapter 8: Saving the Figure in Different Formats

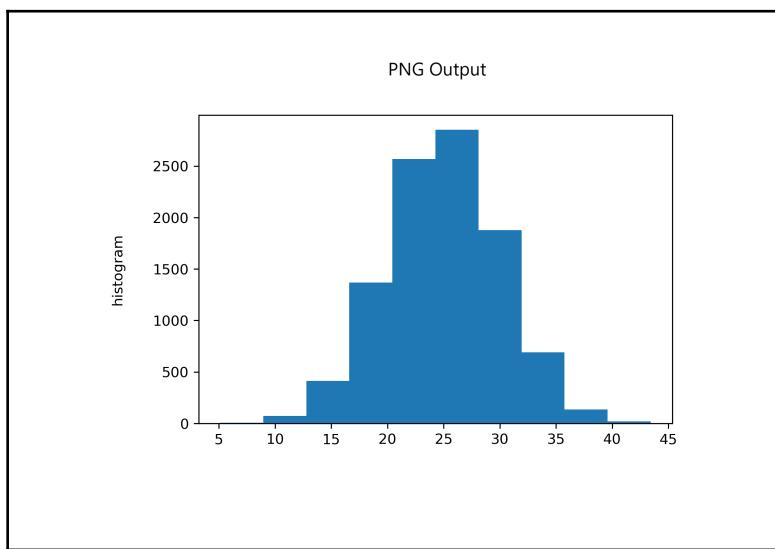
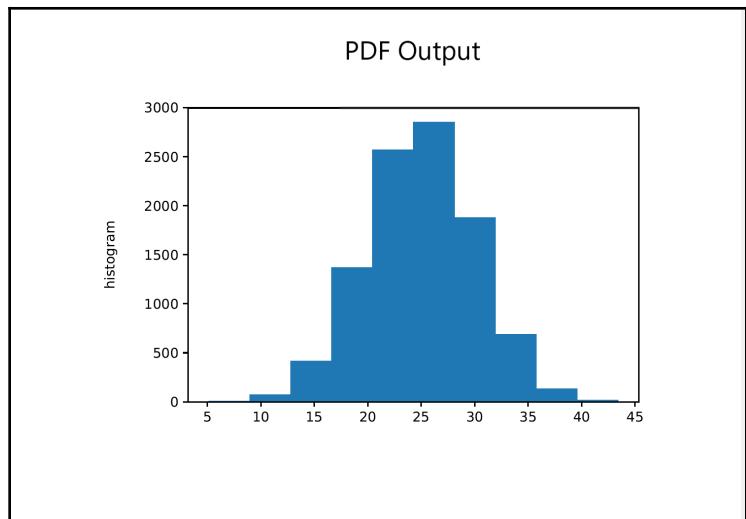


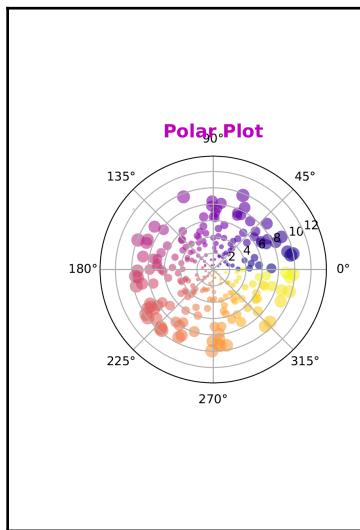
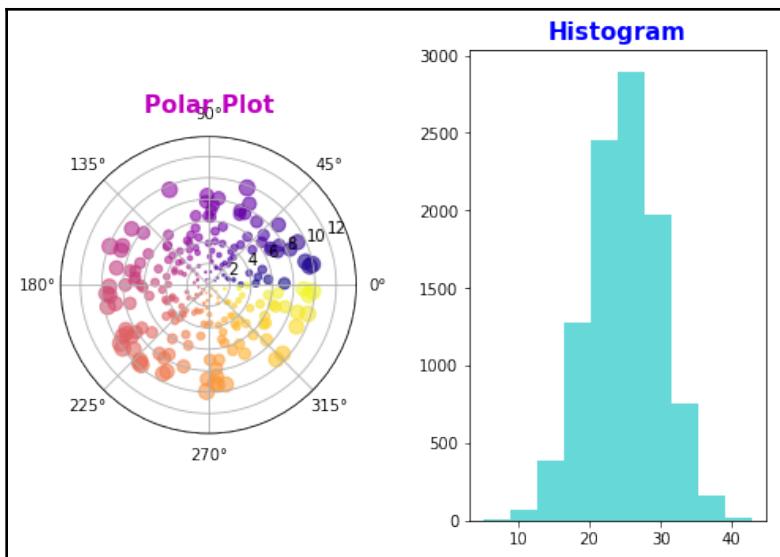


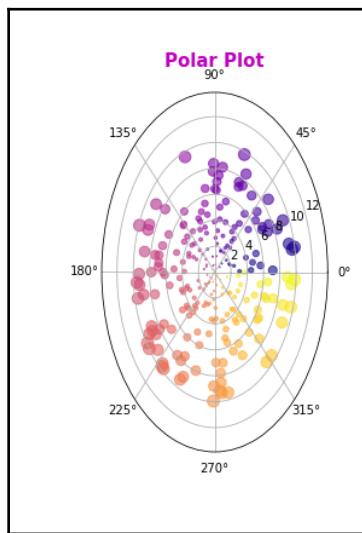
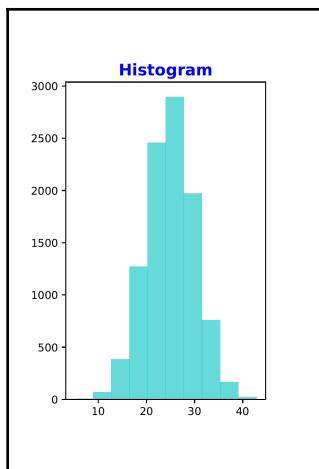


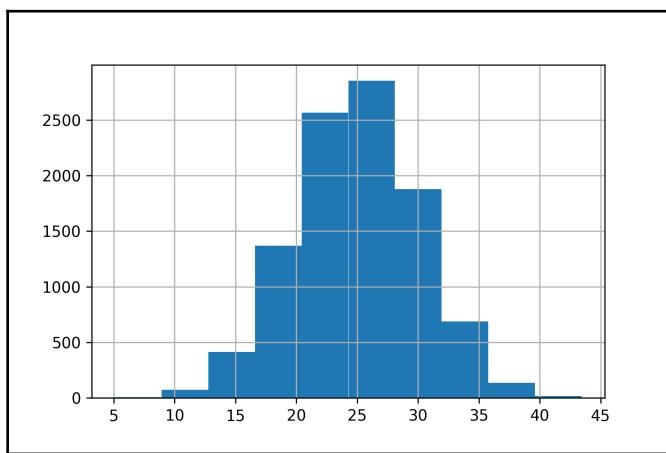
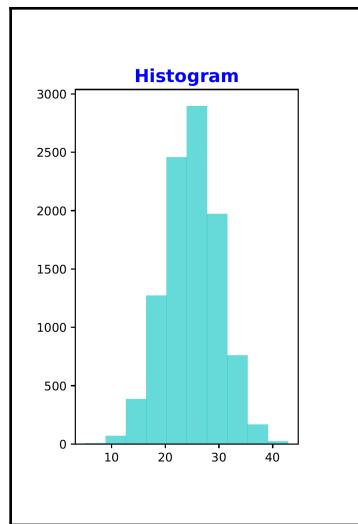


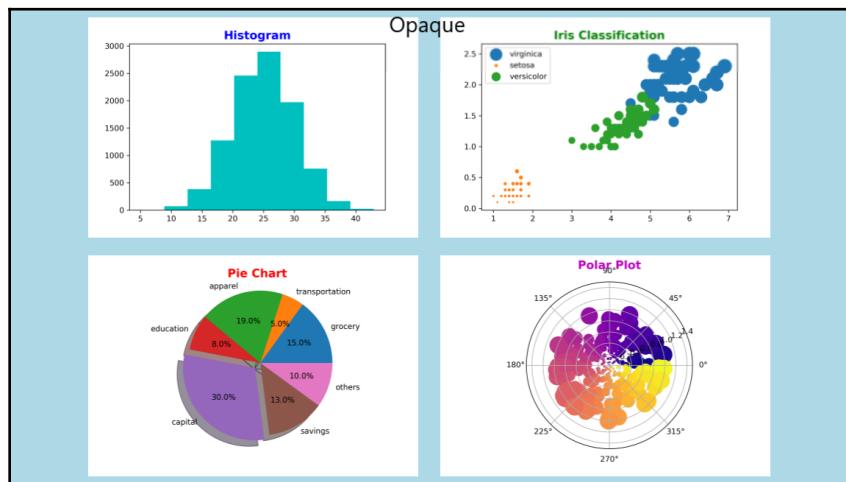
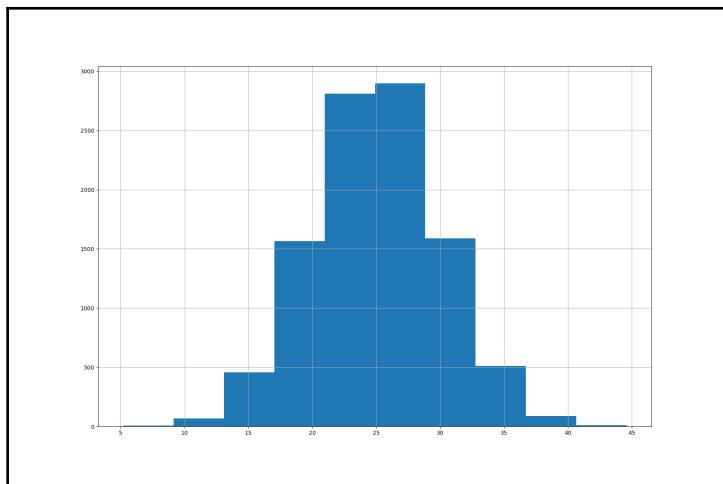


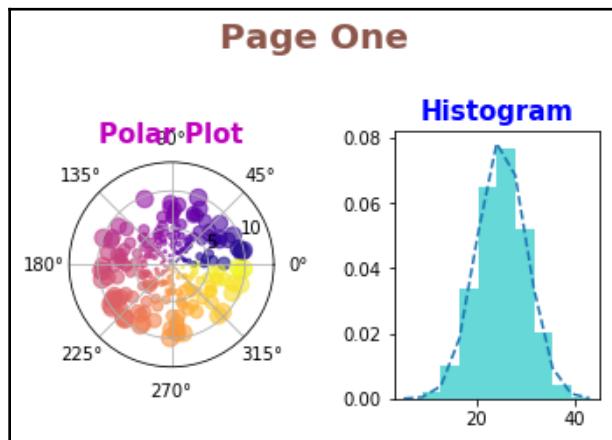
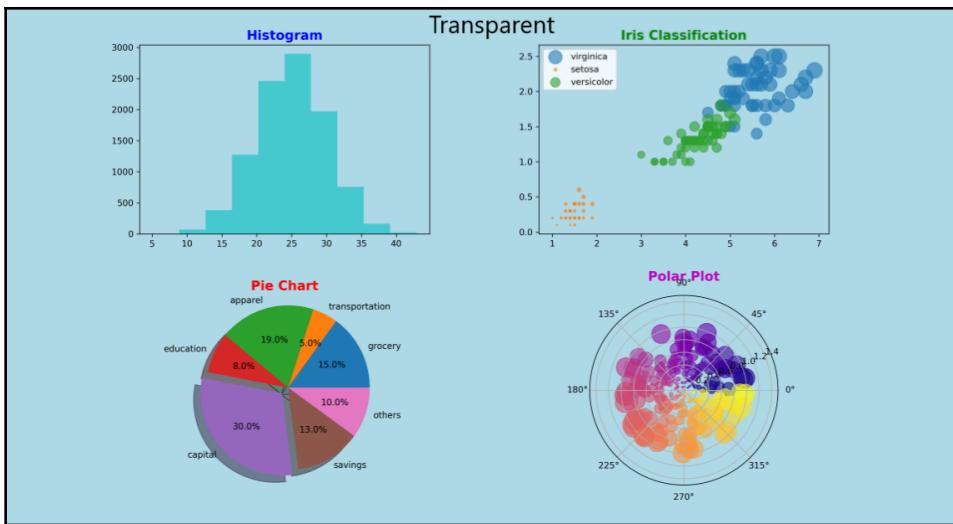






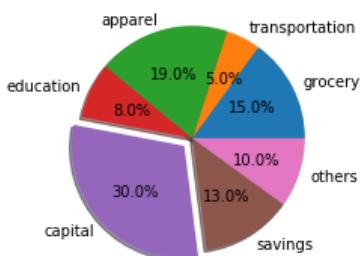




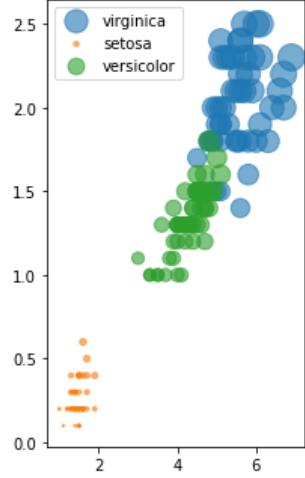


Page Two

Expenses Pie Chart

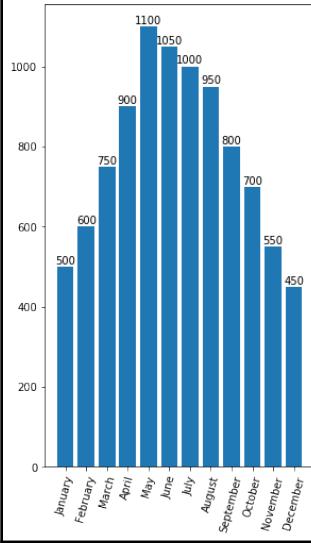


Iris Classification

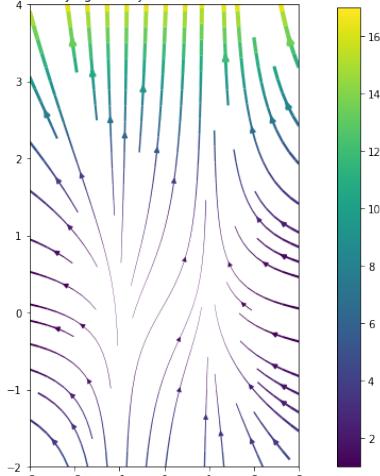


Page Three

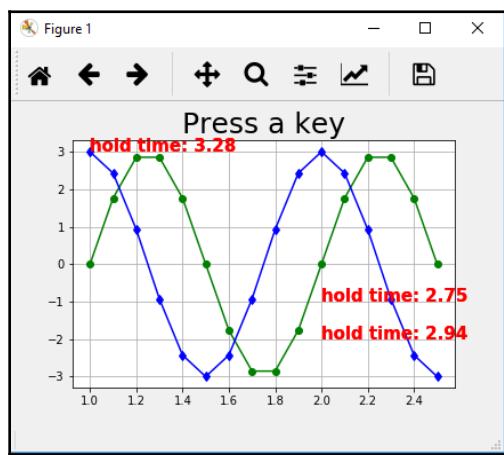
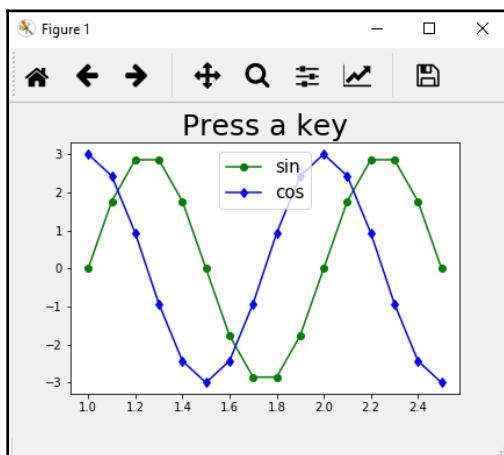
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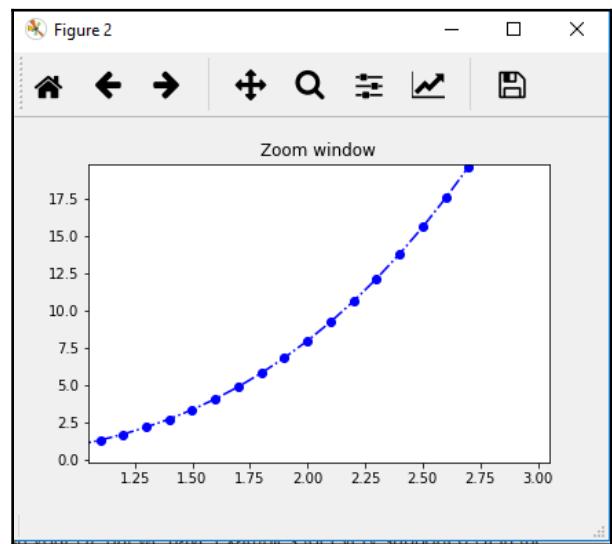
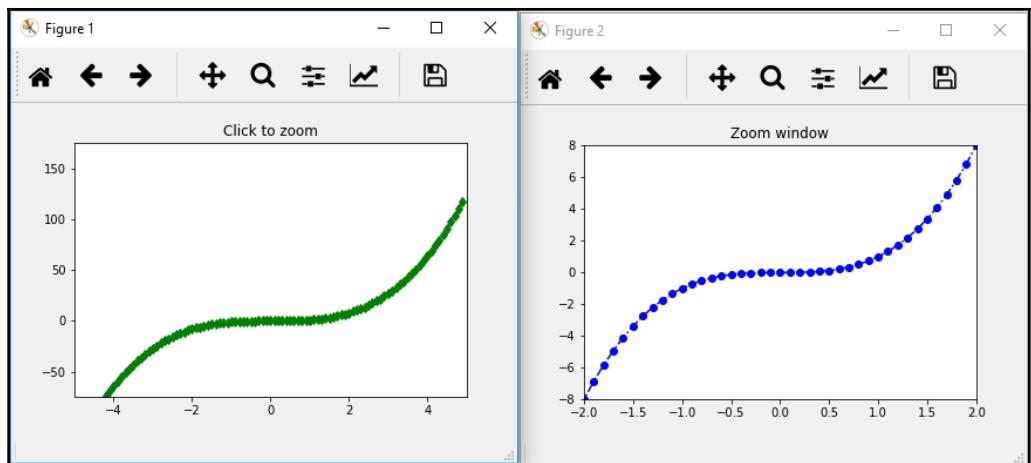


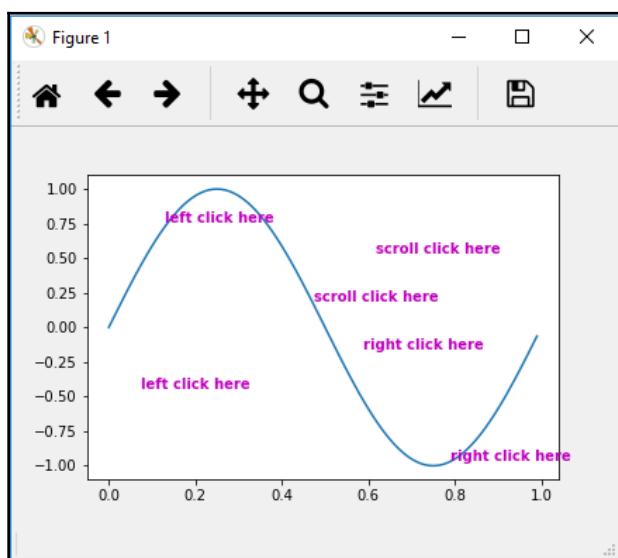
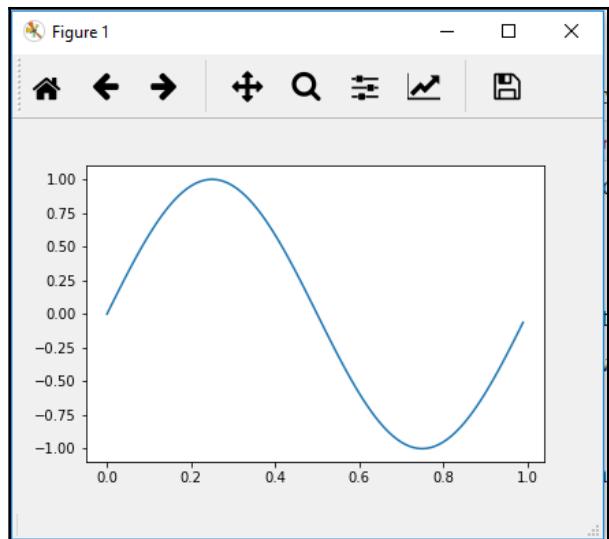
Varying Density, Color and Line Width

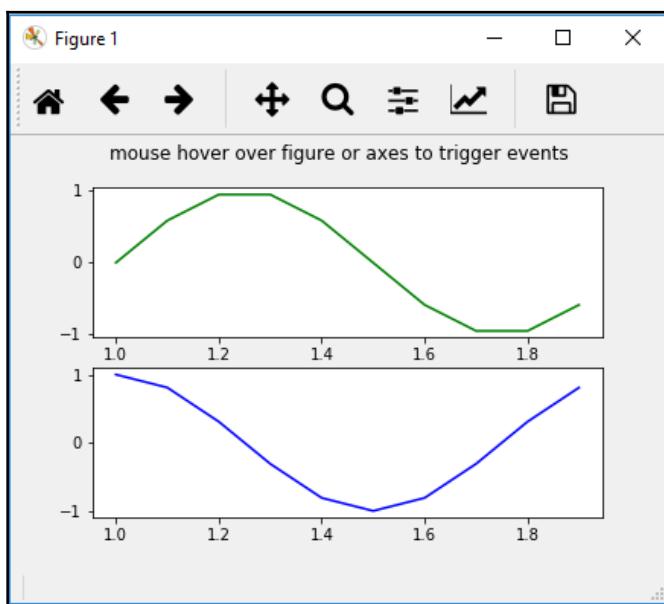
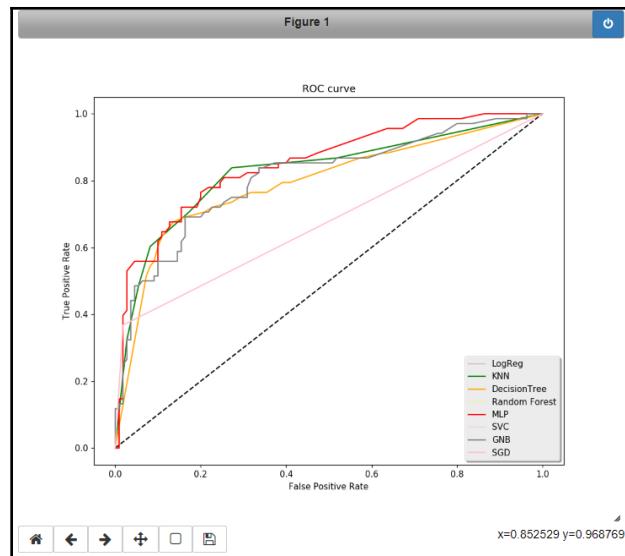


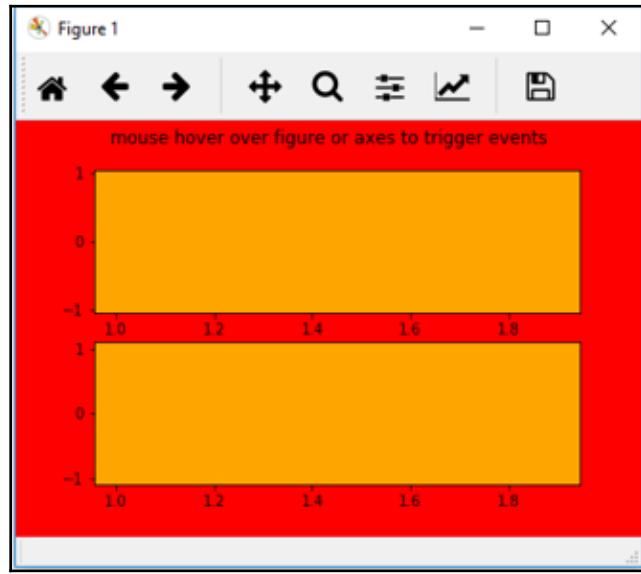
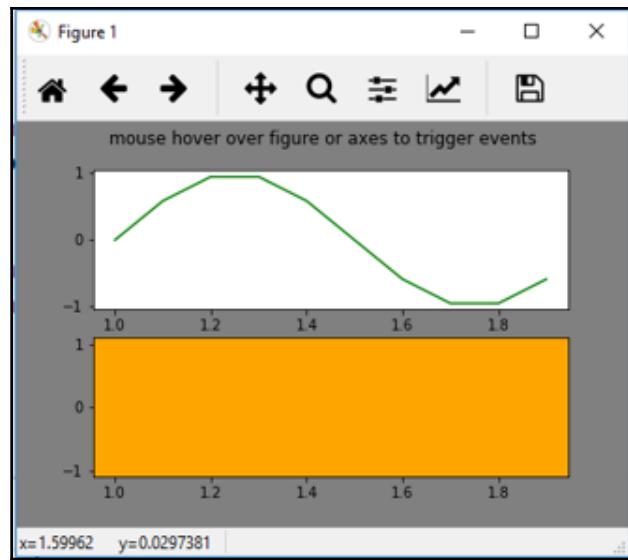
Chapter 9: Developing Interactive Plots

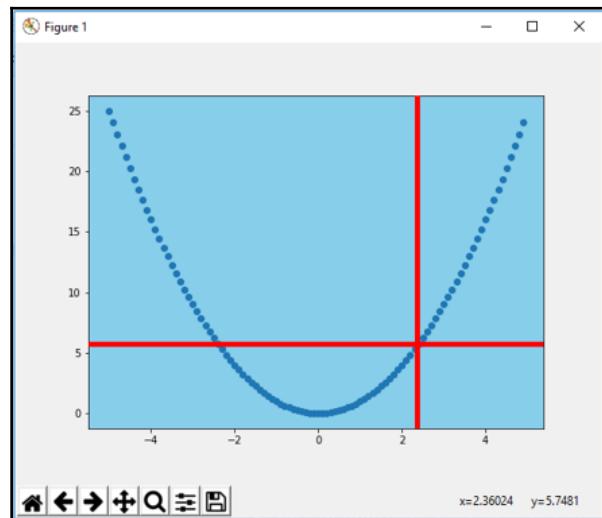
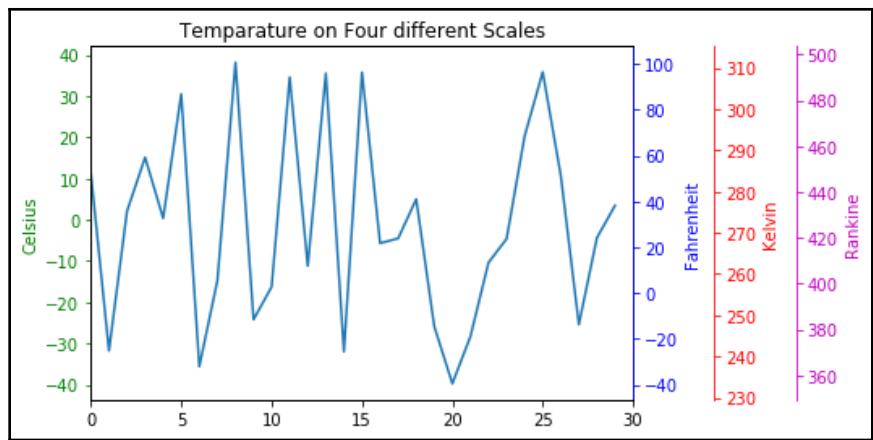


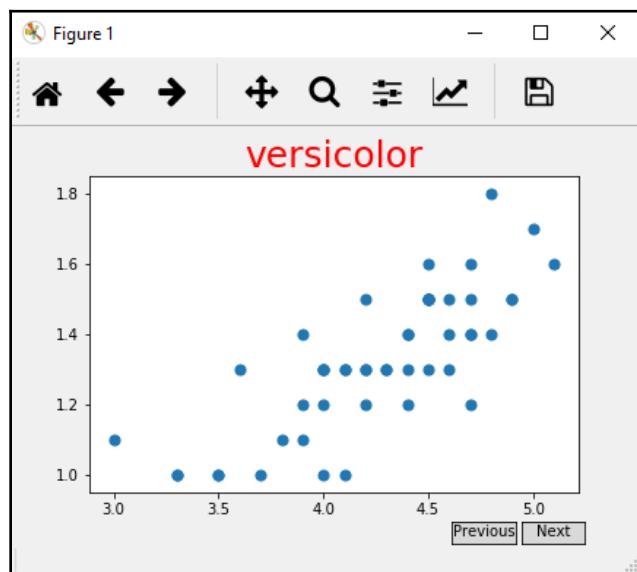
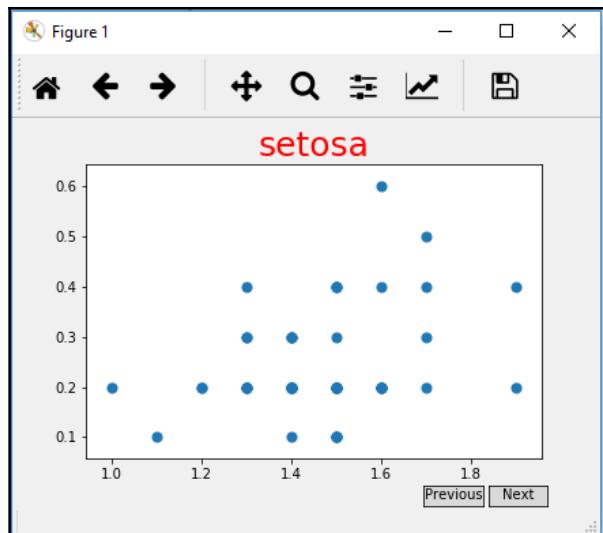


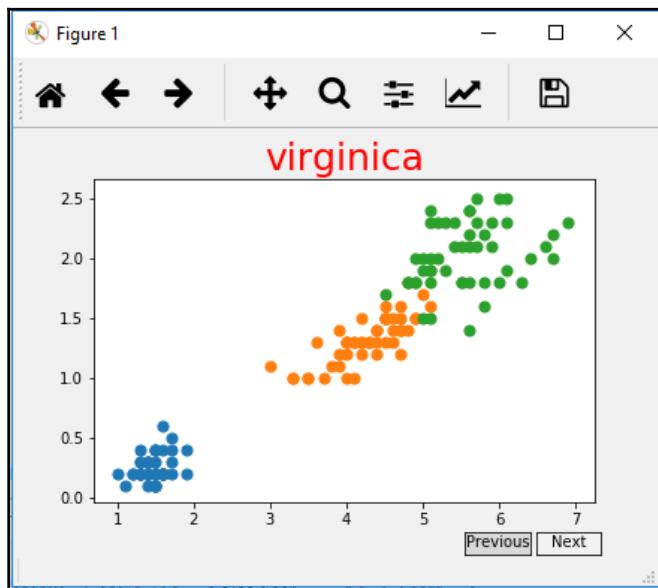
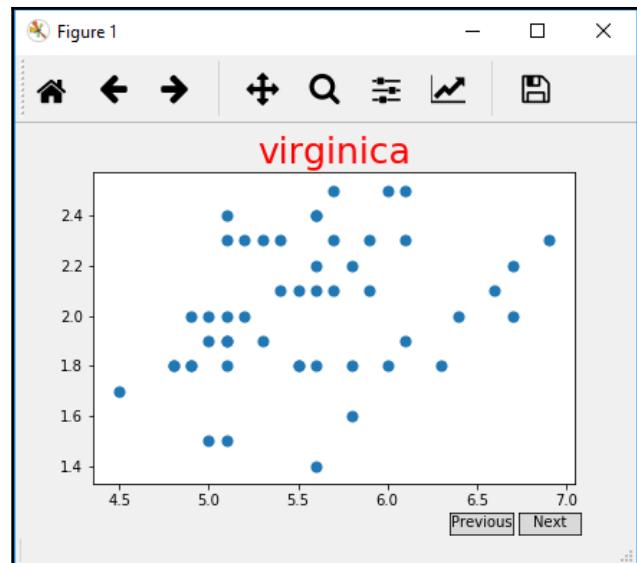


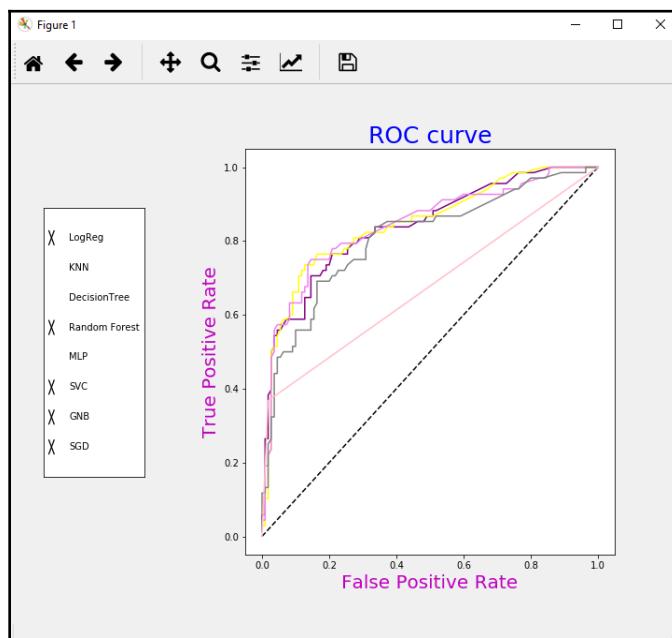
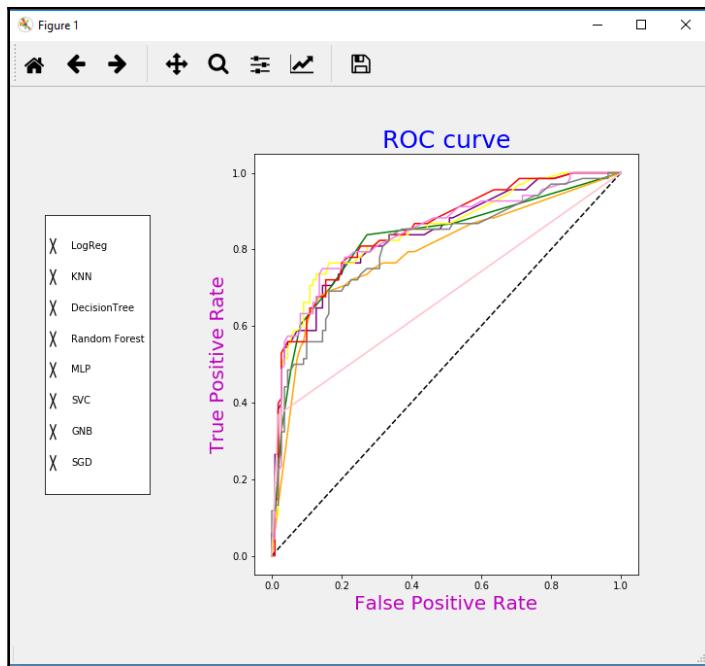


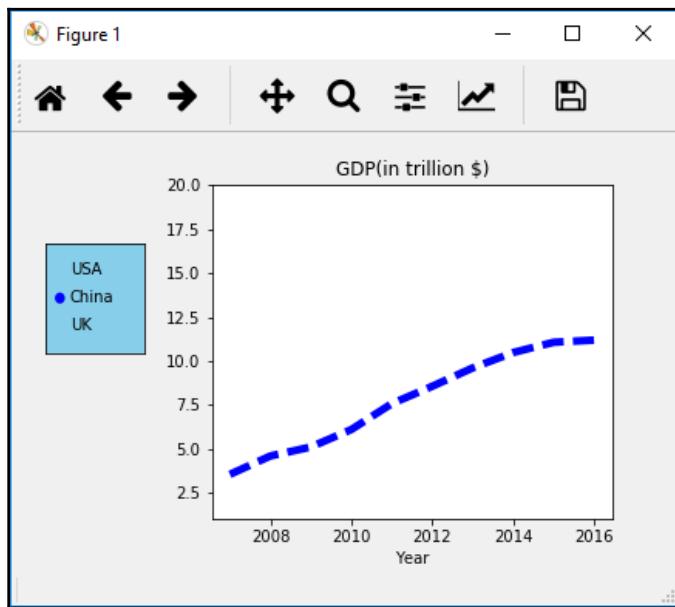
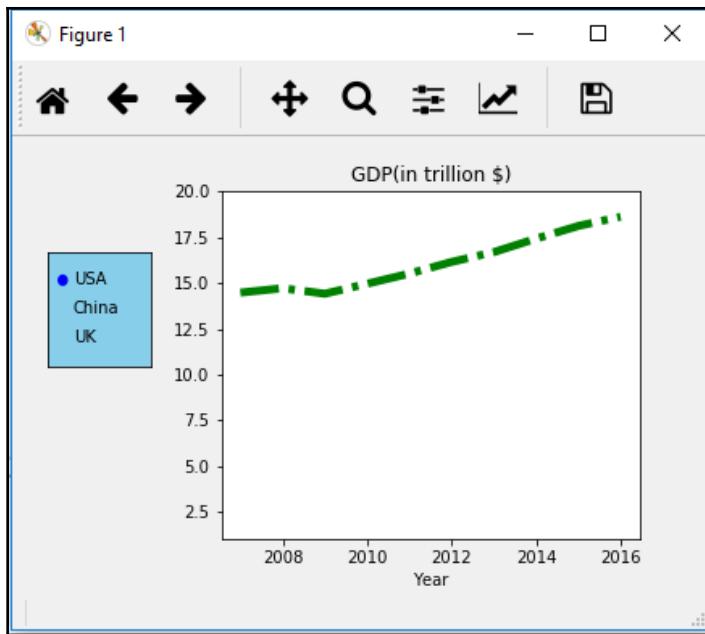


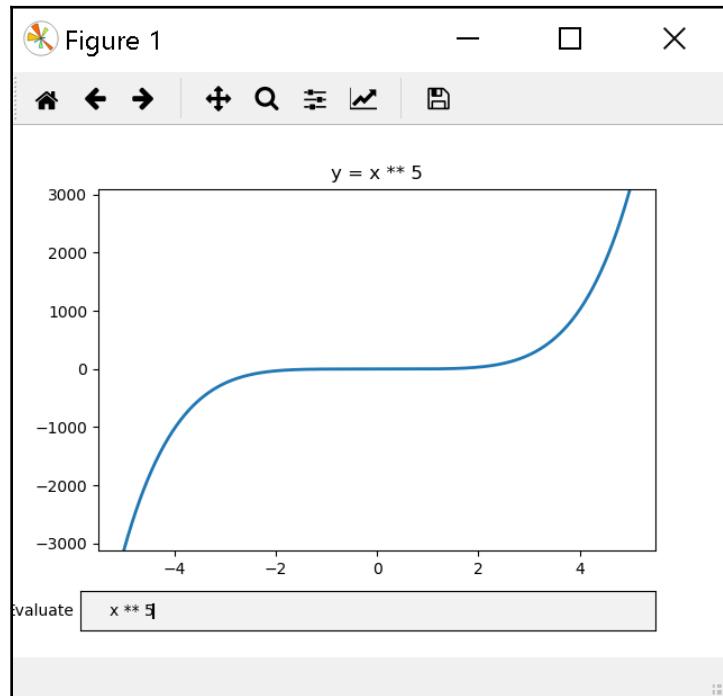
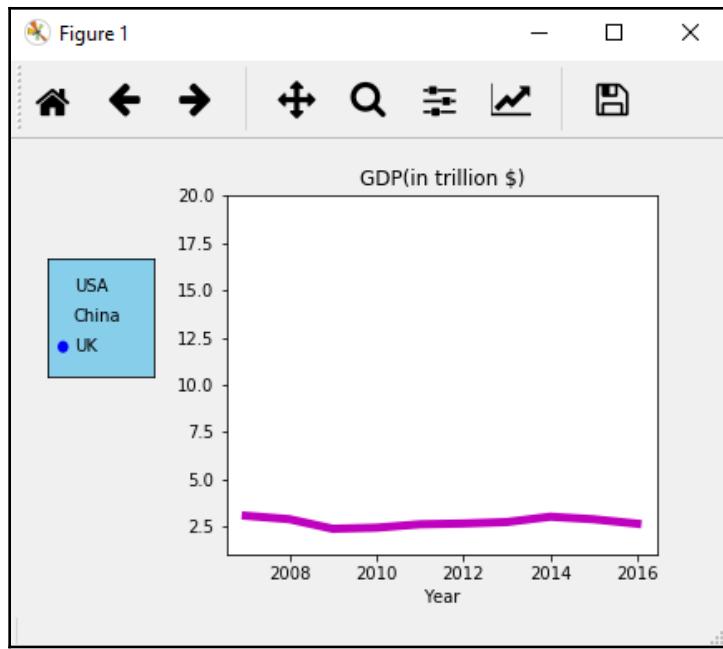


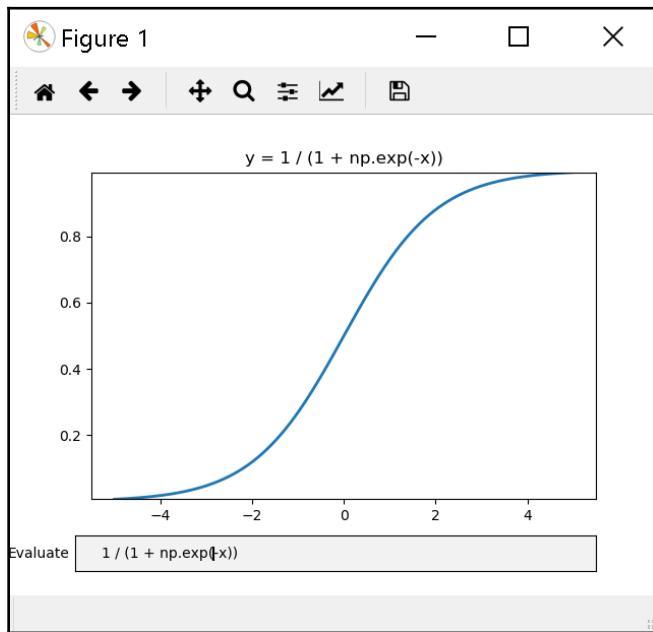
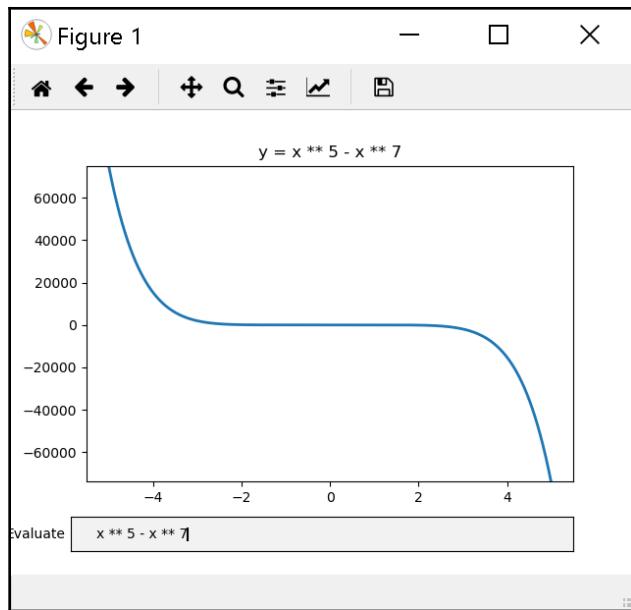


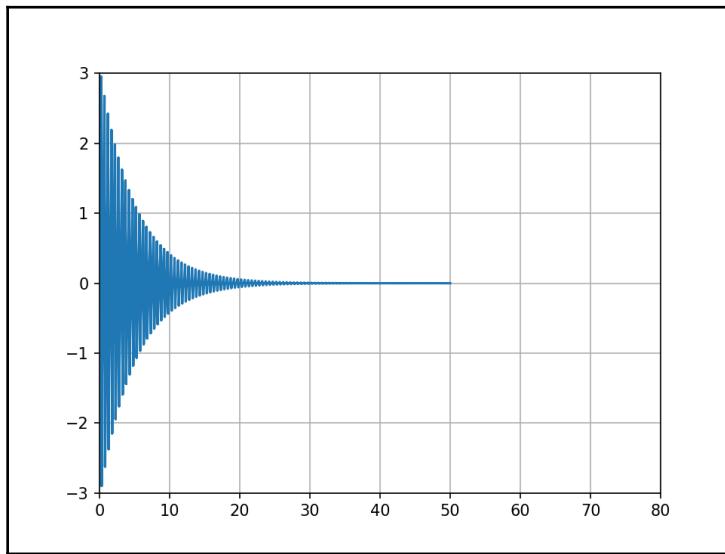
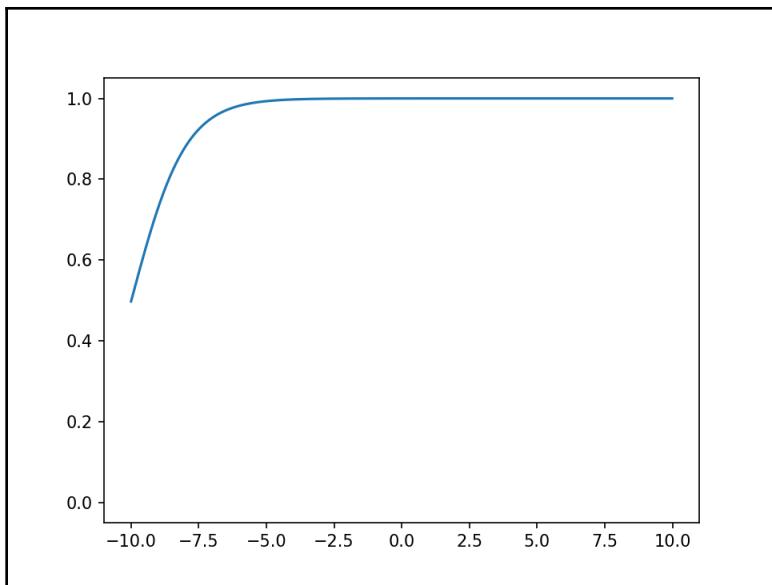


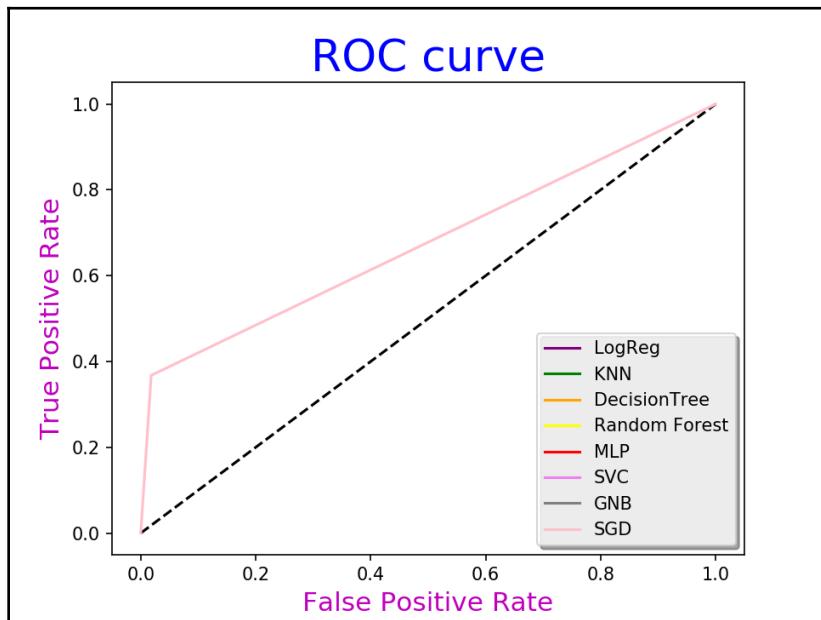
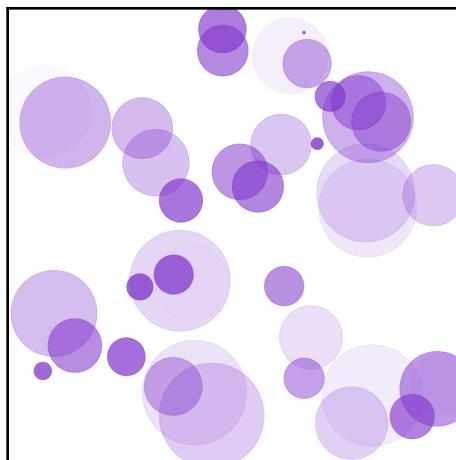




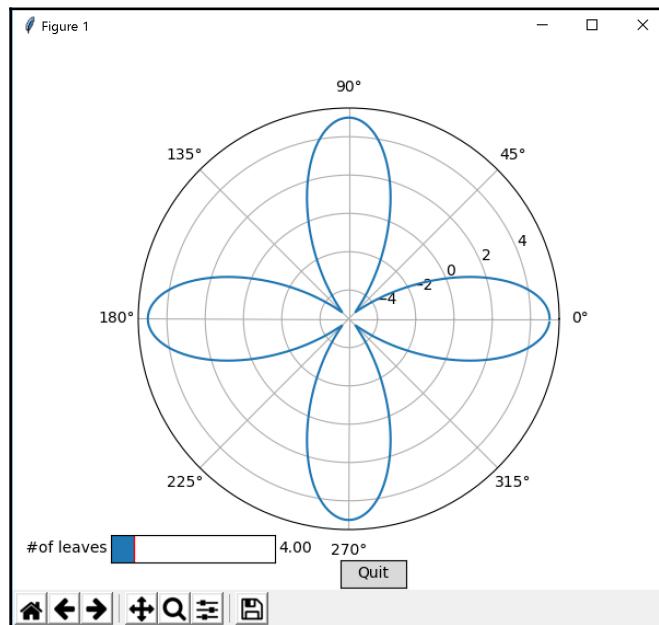


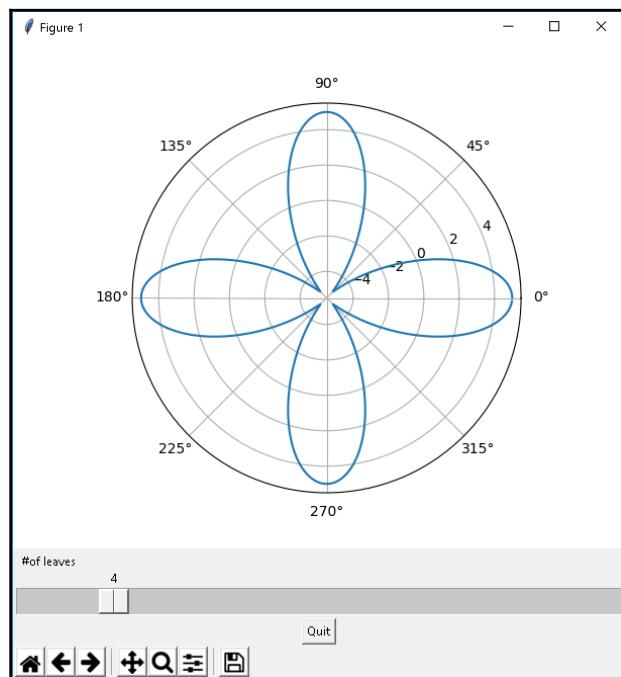
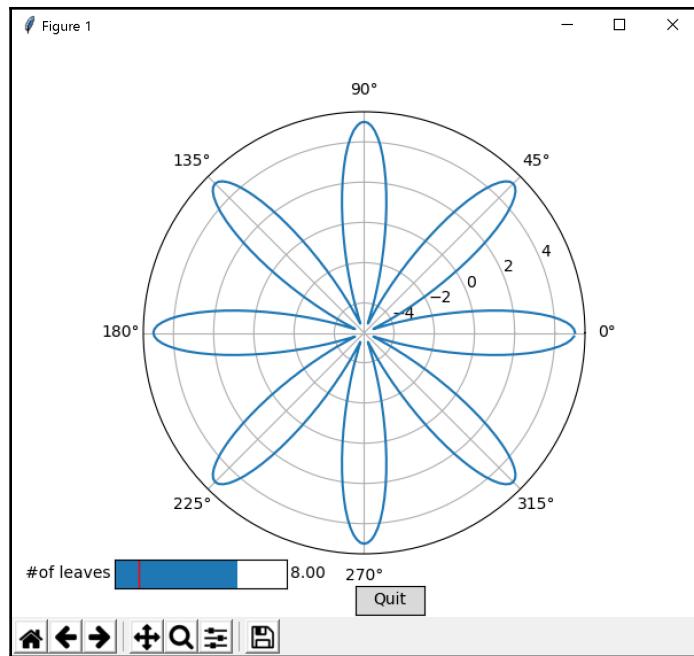


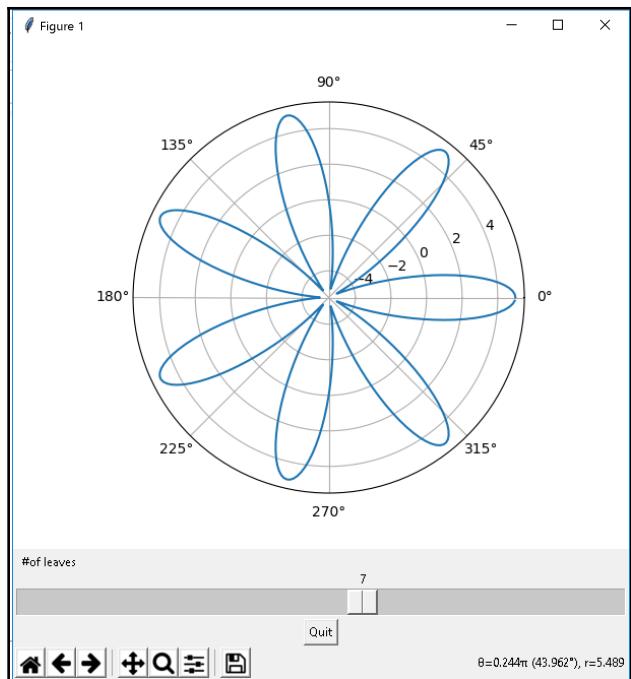


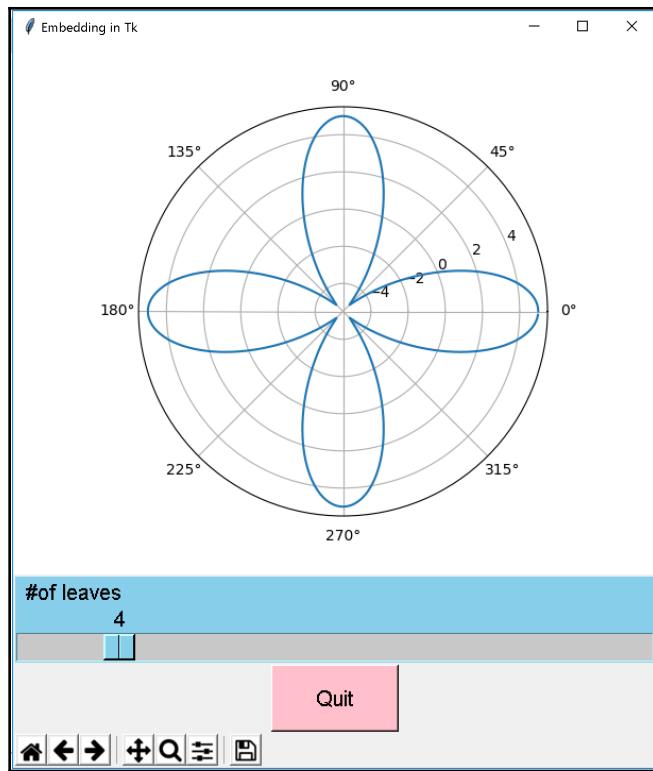


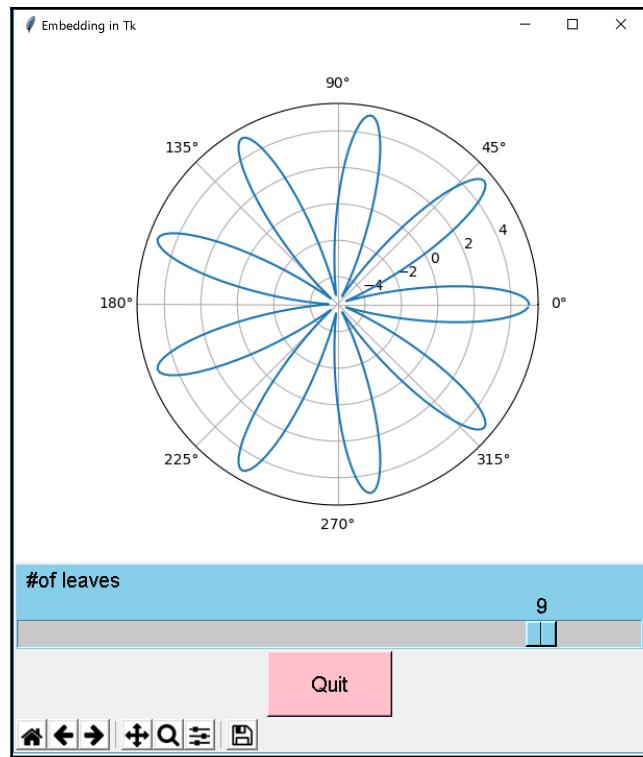
Chapter 10: Embedding Plots in a Graphical User Interface

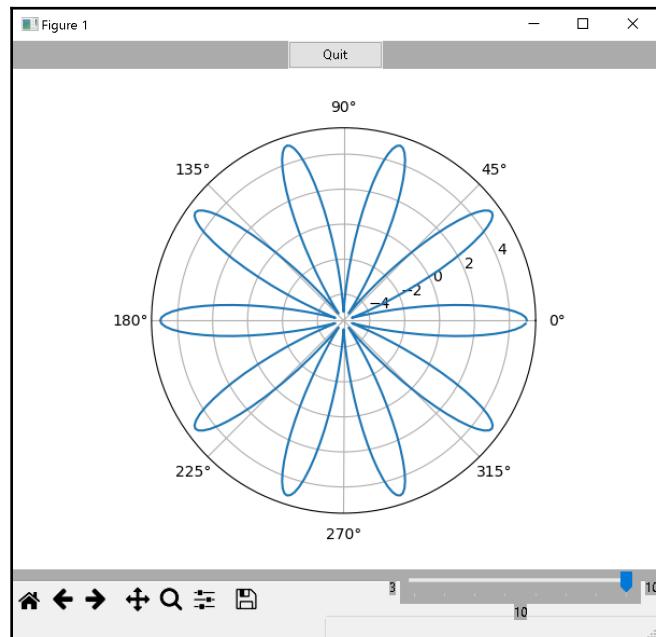
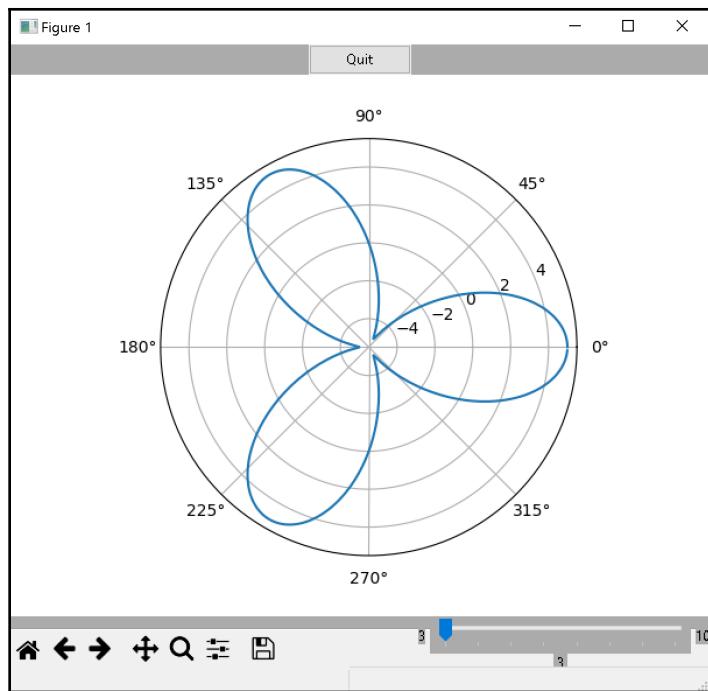


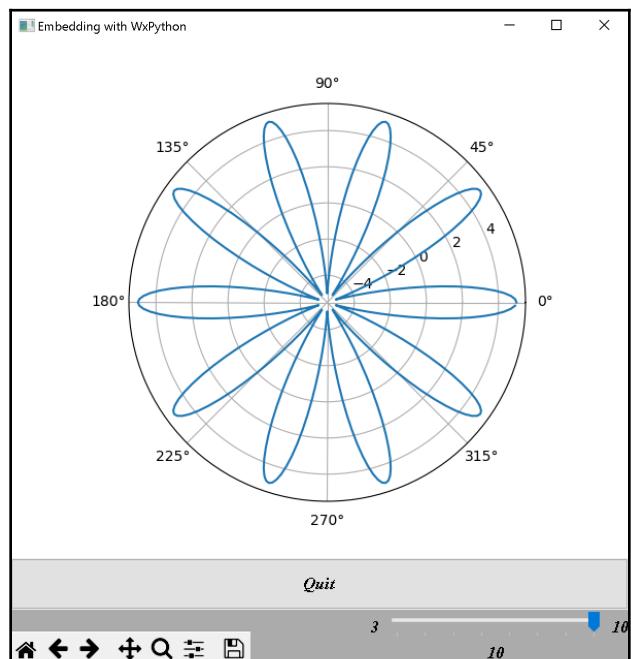
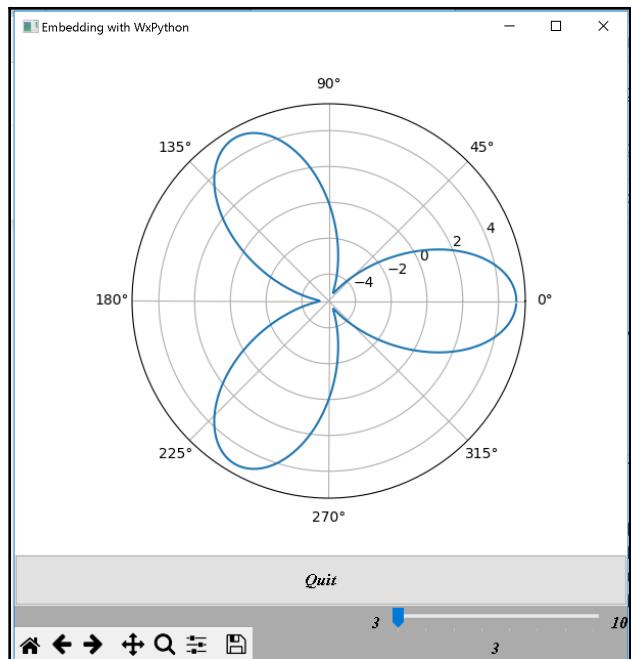


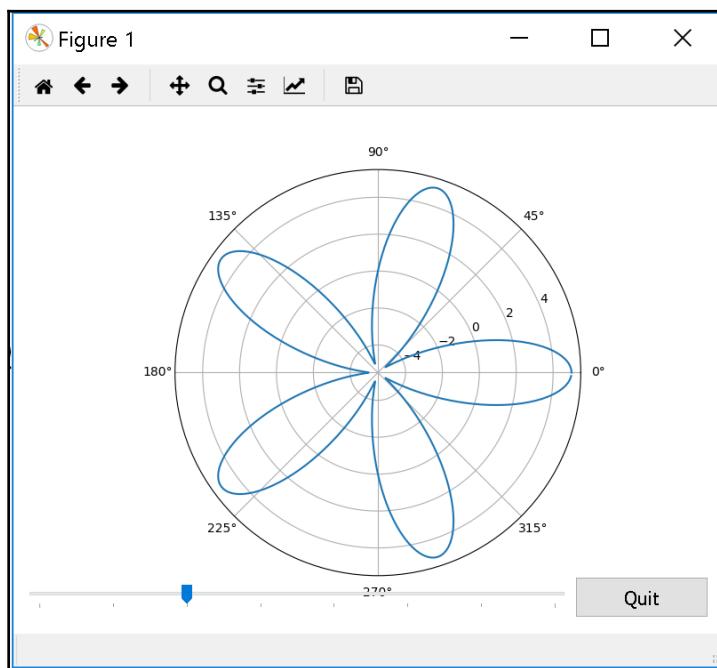
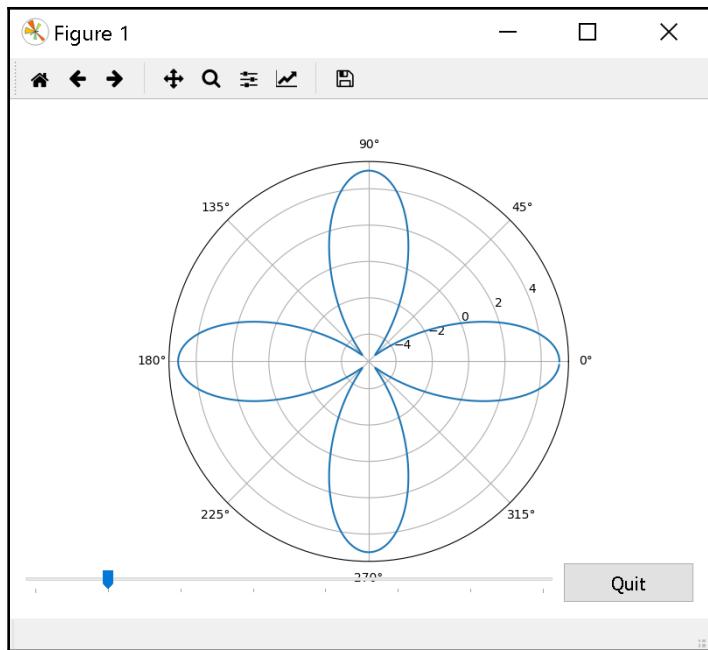


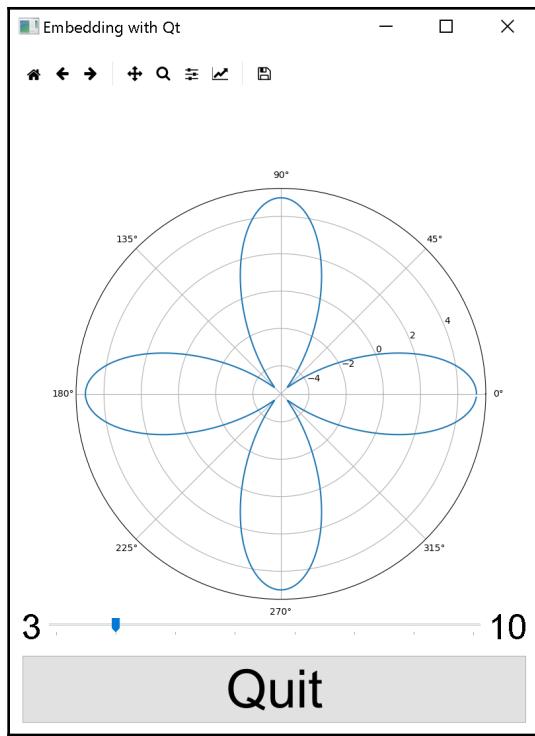


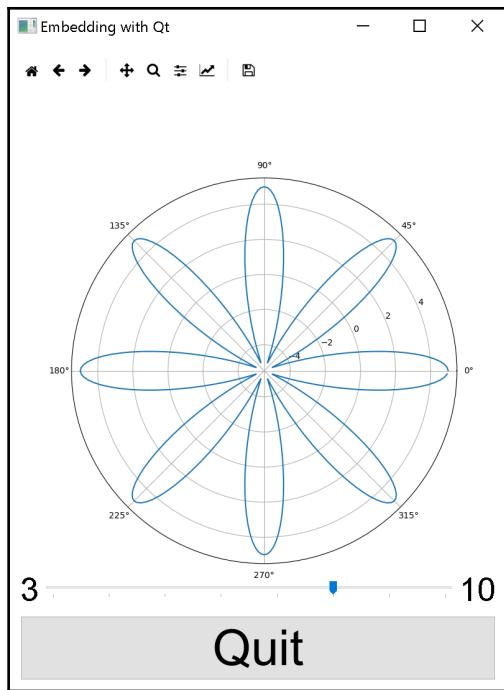




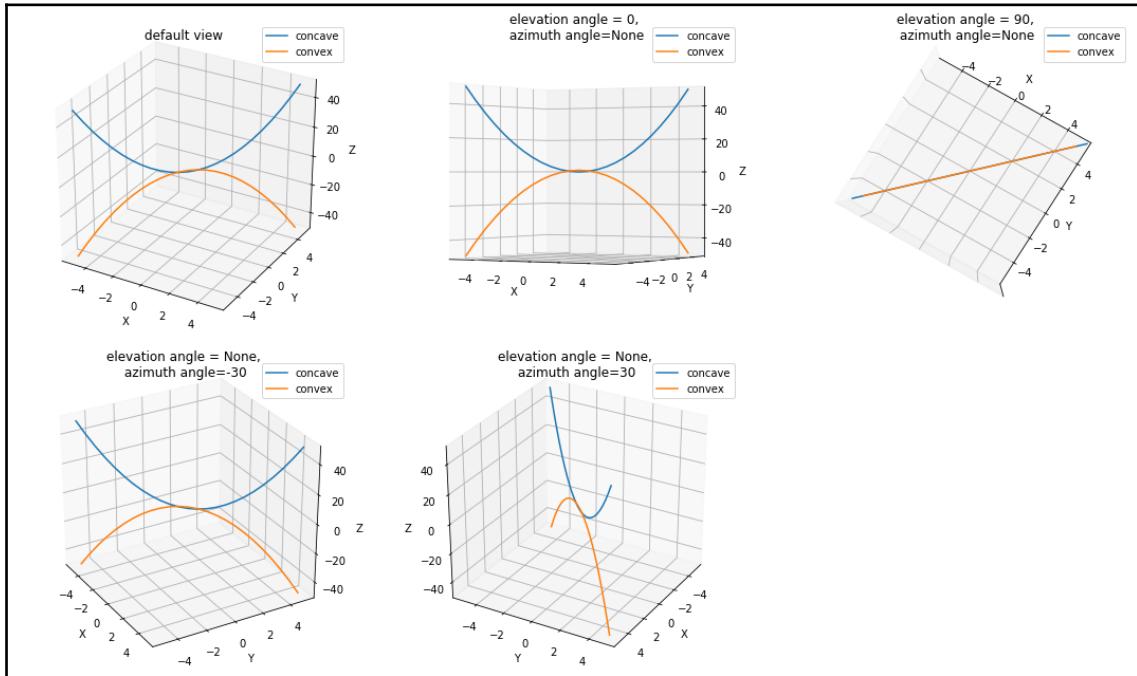


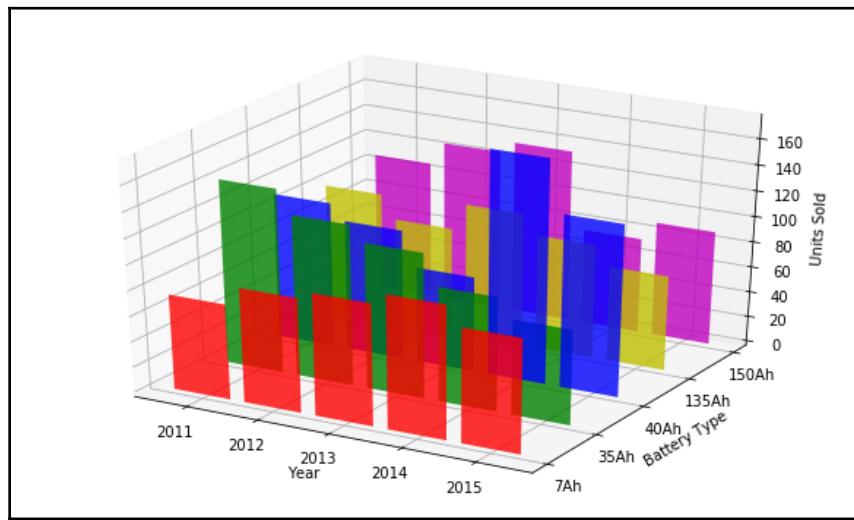
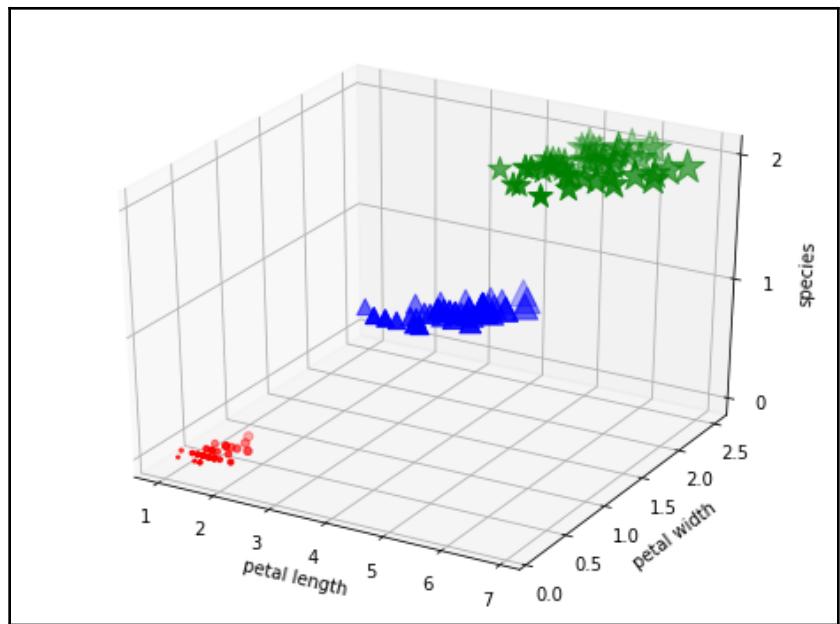


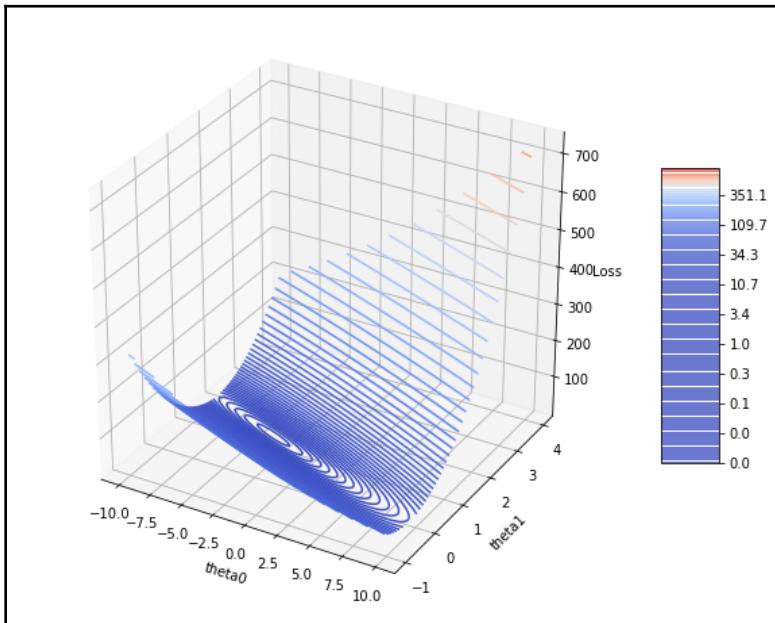
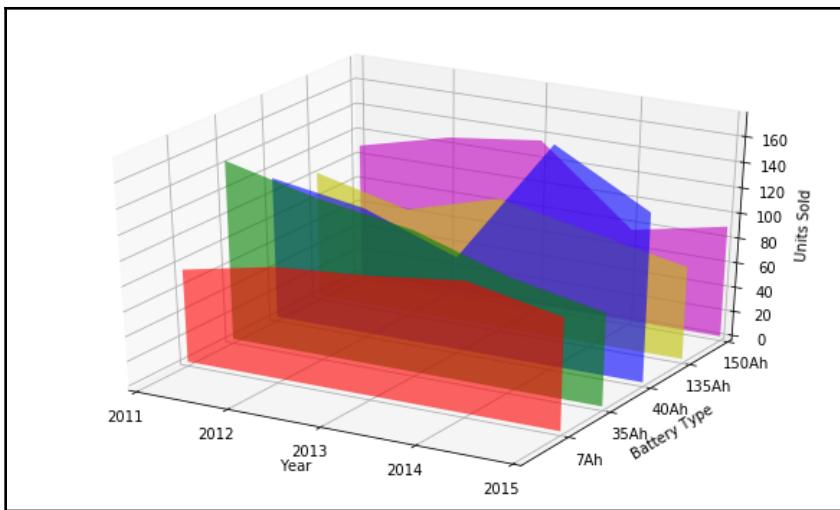


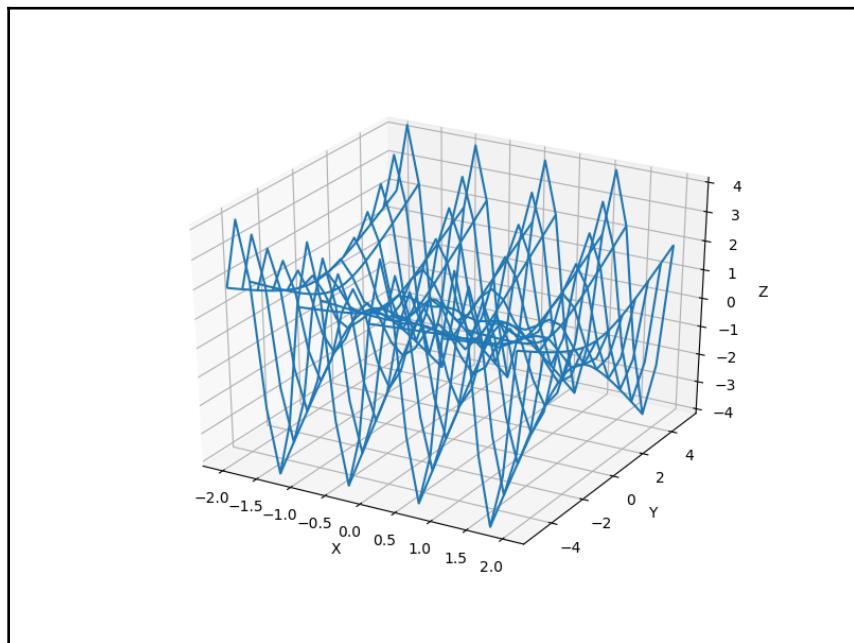
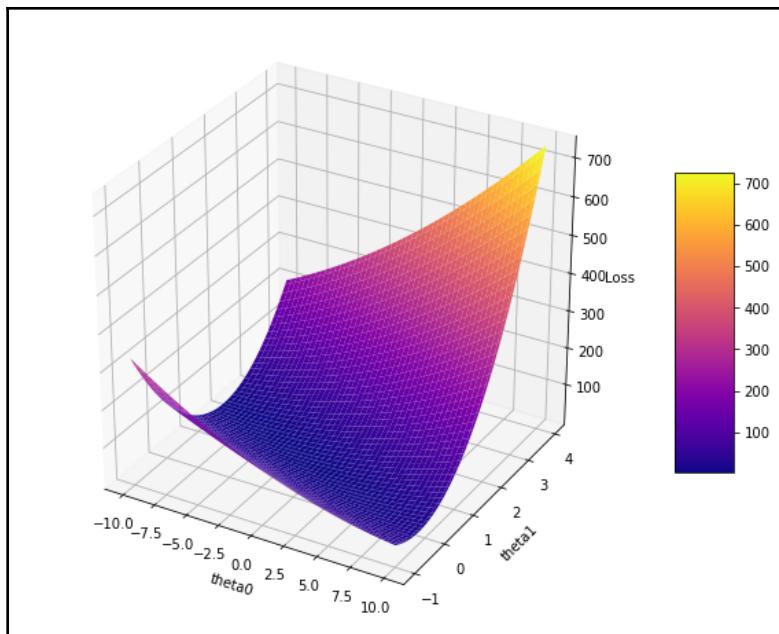


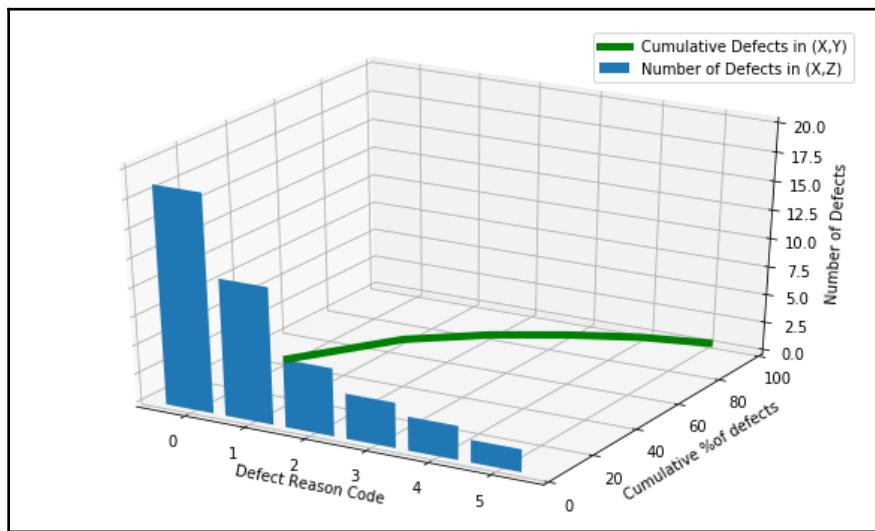
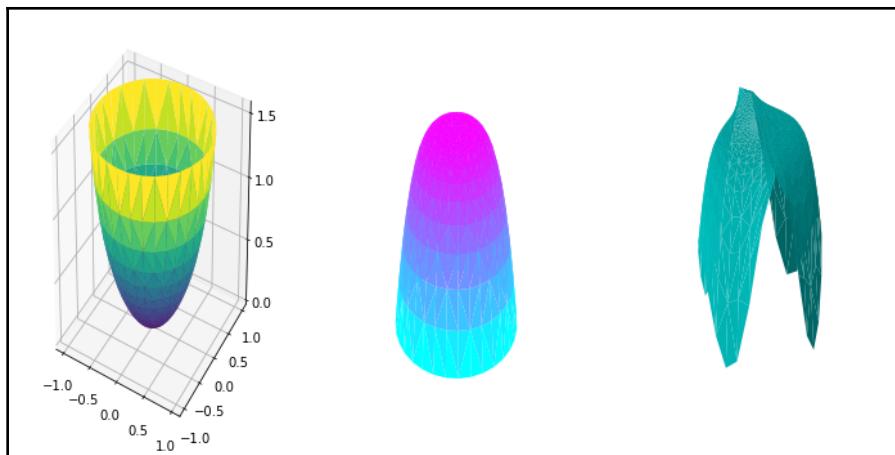
Chapter 11: Plotting 3D Graphs Using the mplot3d Toolkit

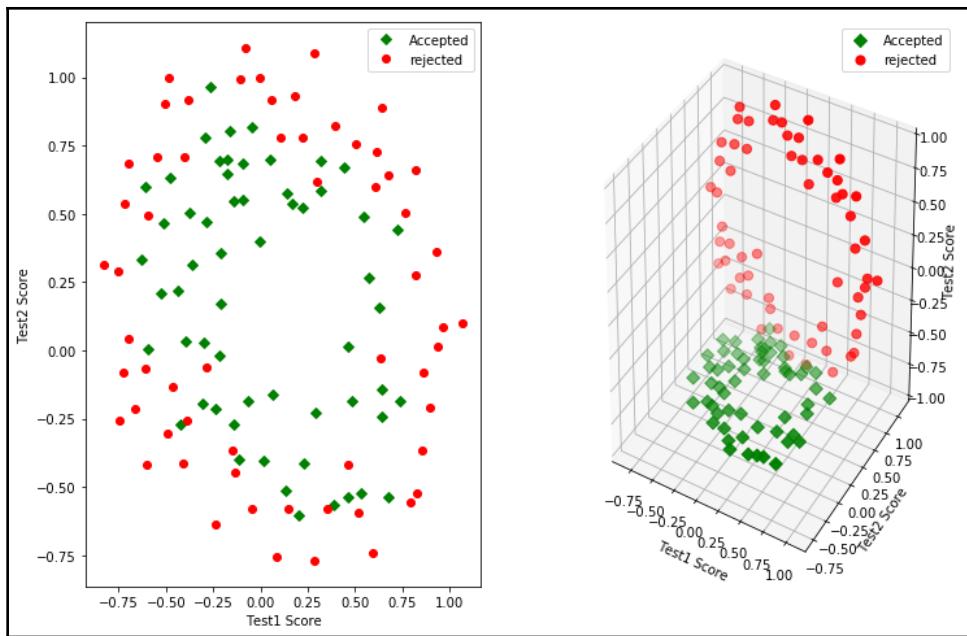


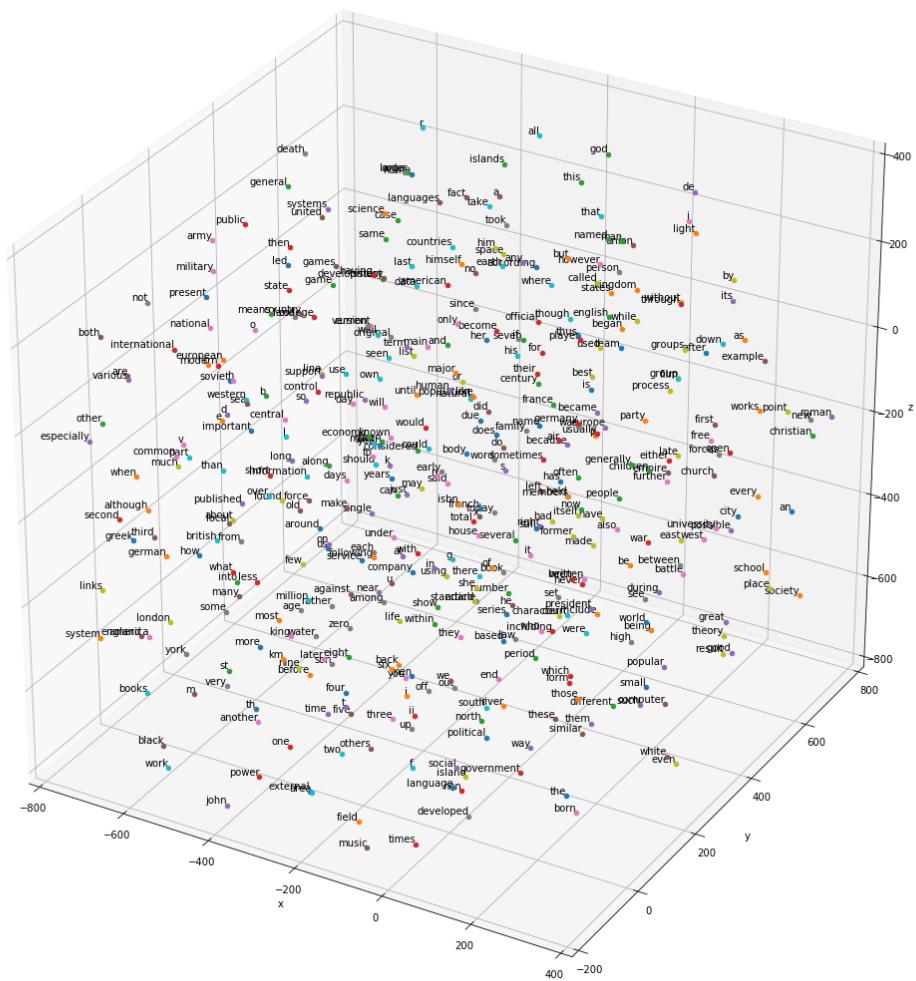




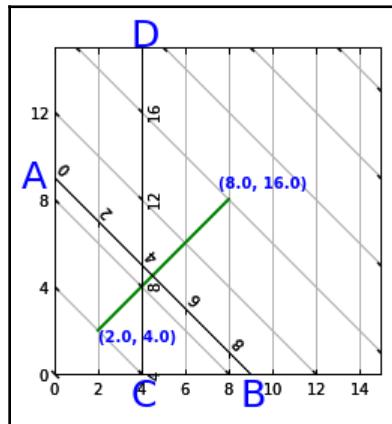
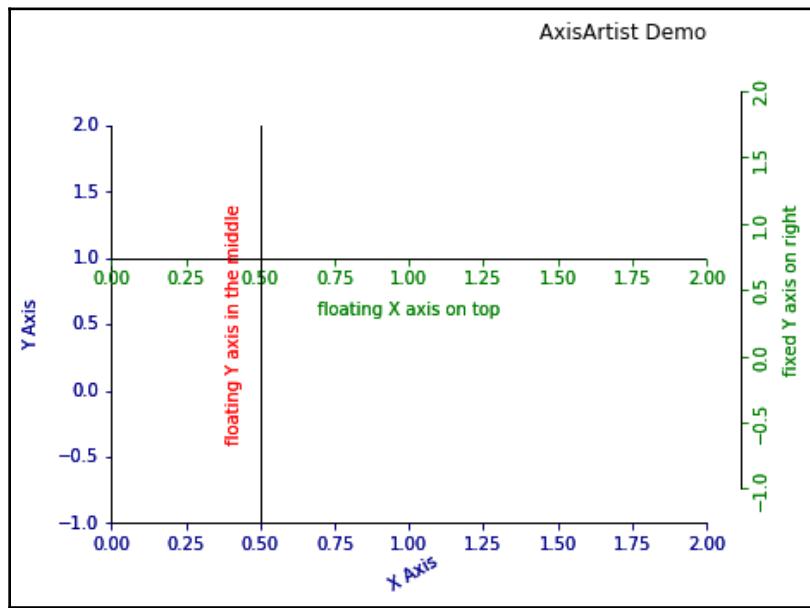


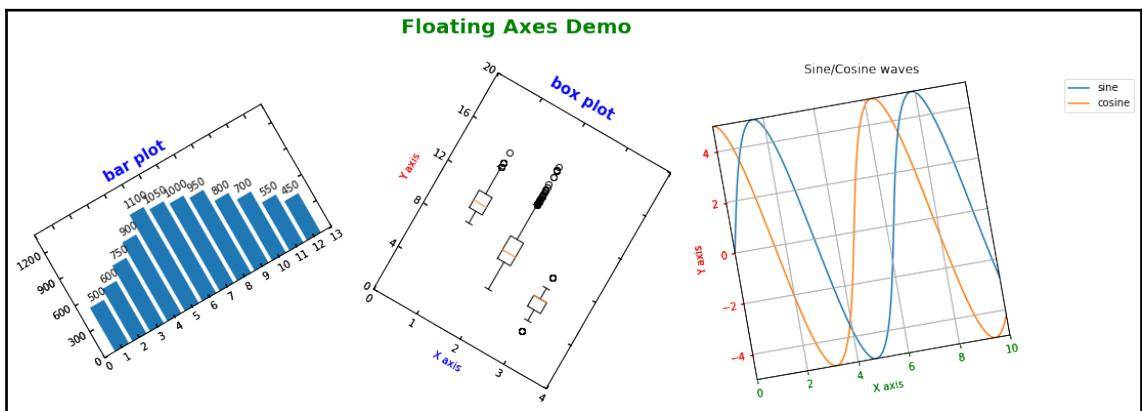
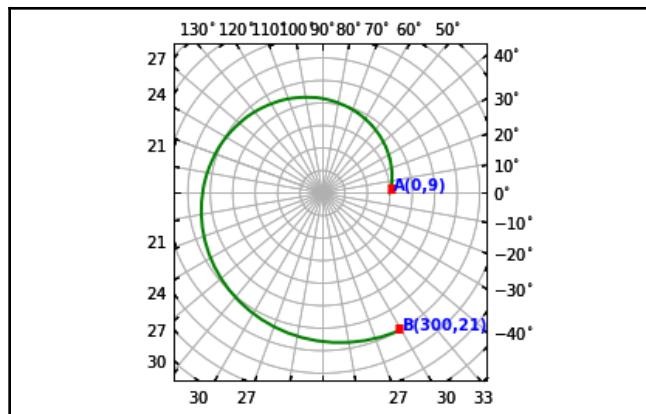


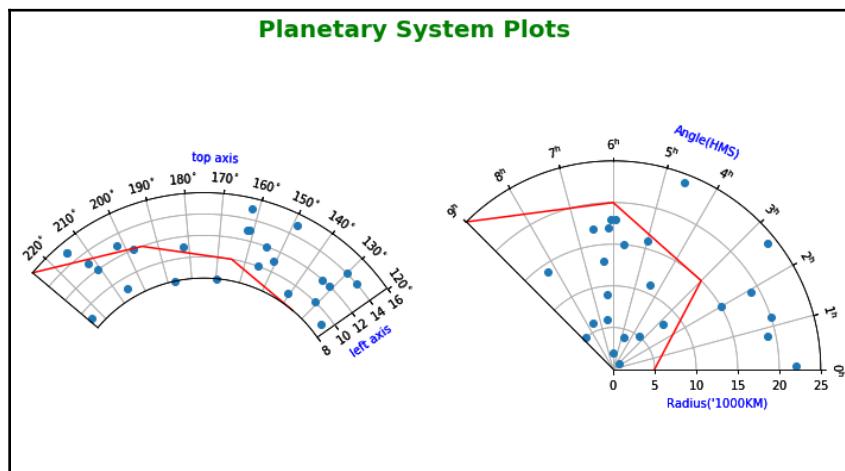
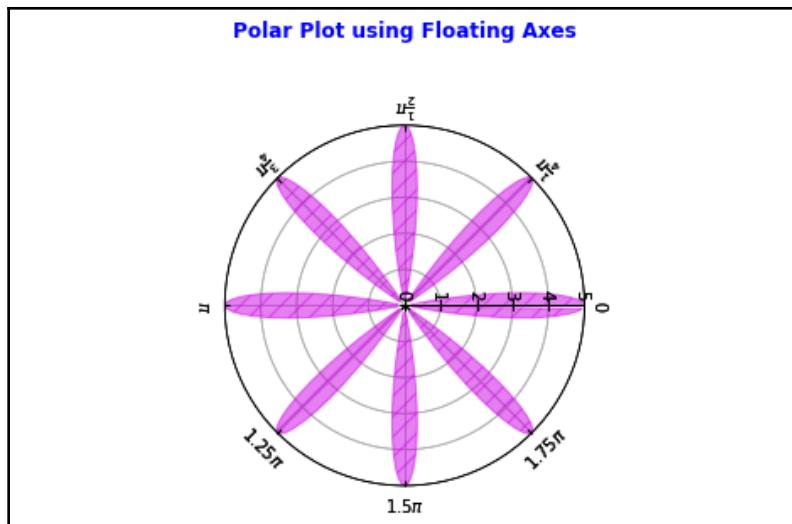




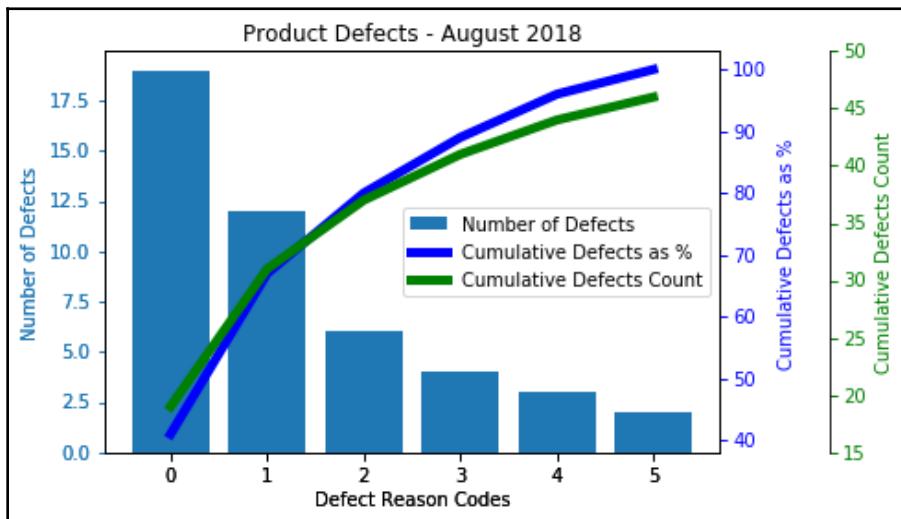
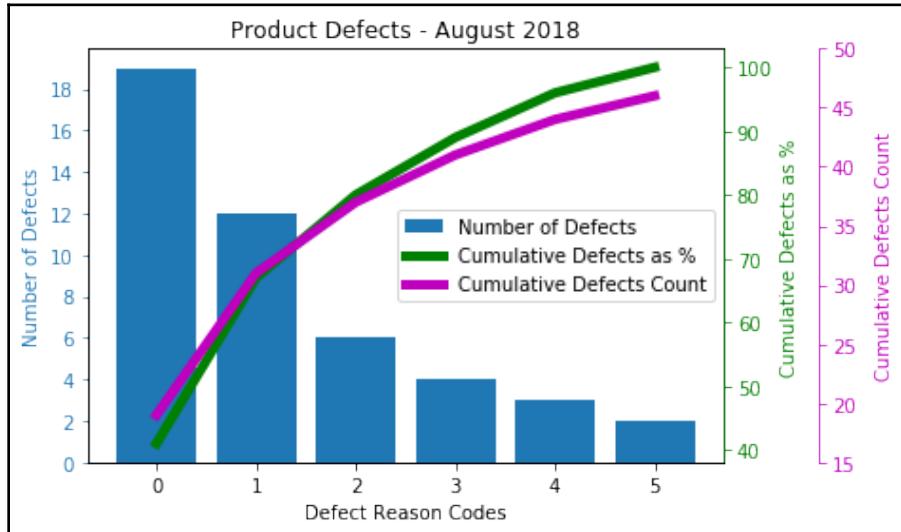
Chapter 12: Using the axisartist Toolkit

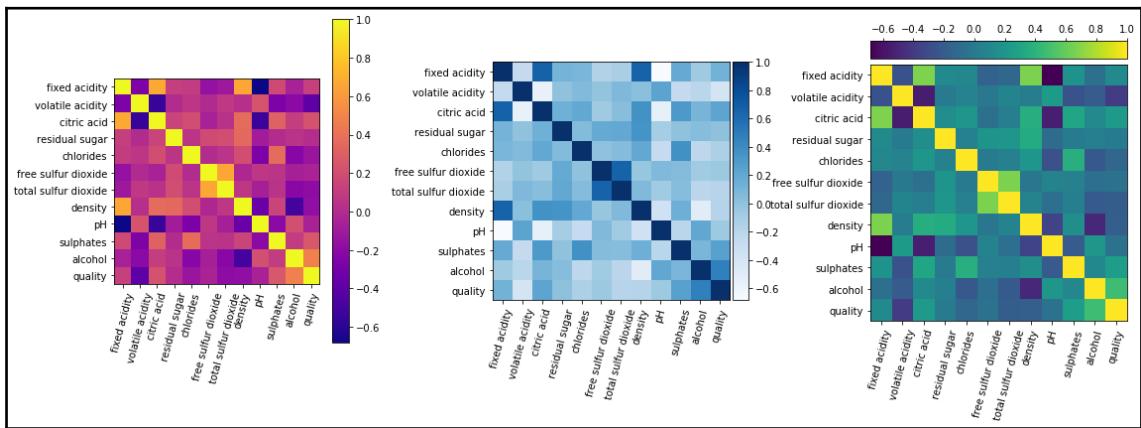
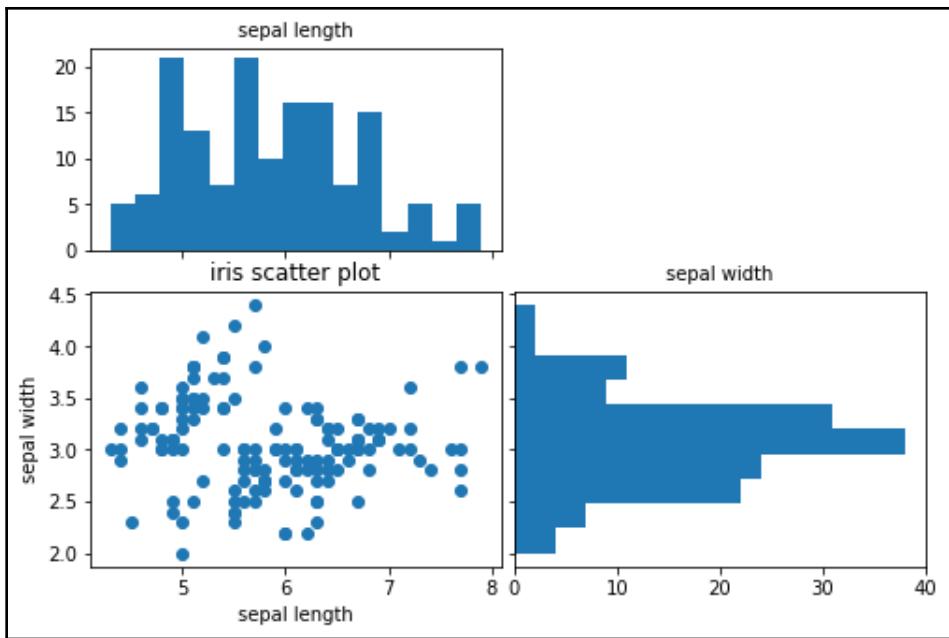


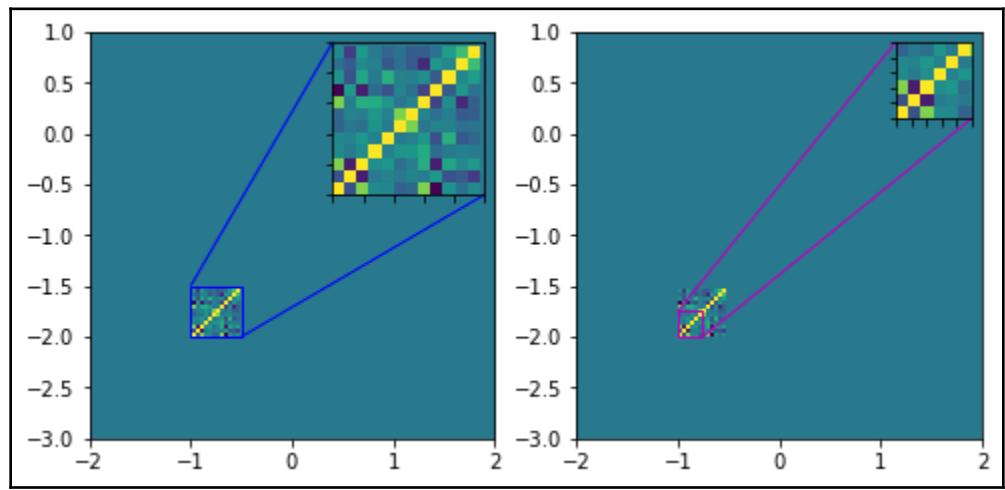
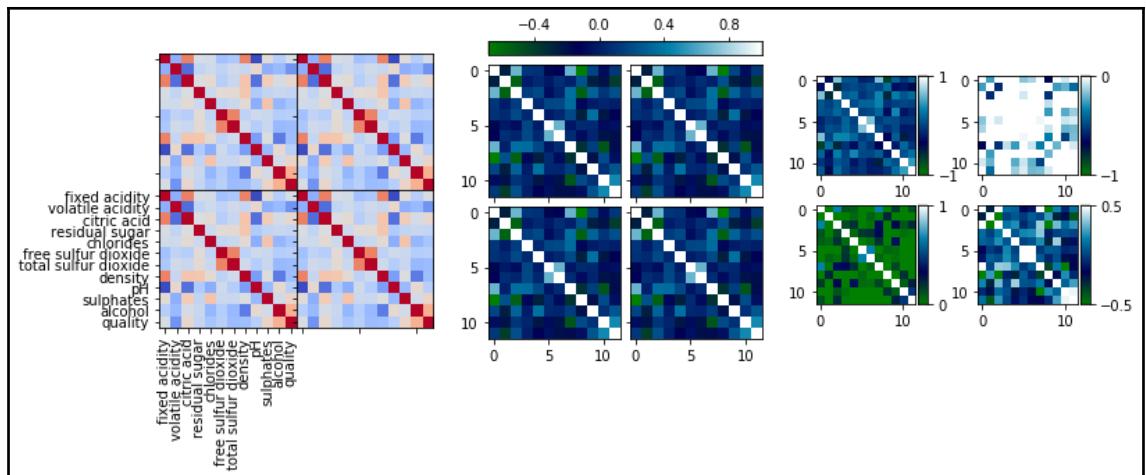


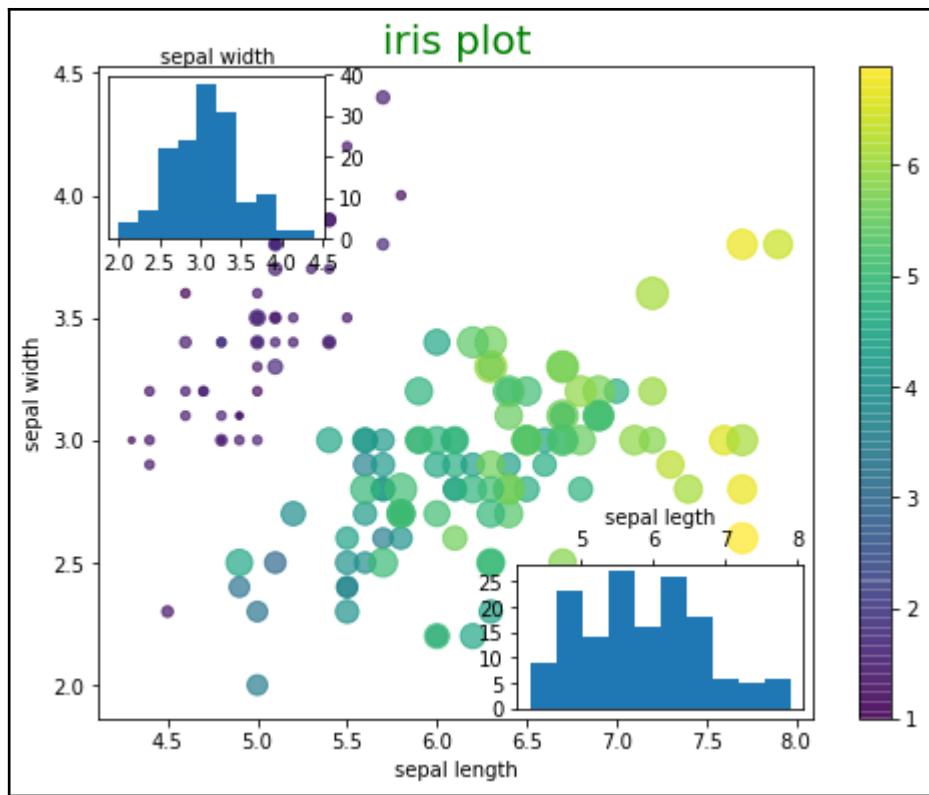


Chapter 13: Using the axes_grid1 Toolkit

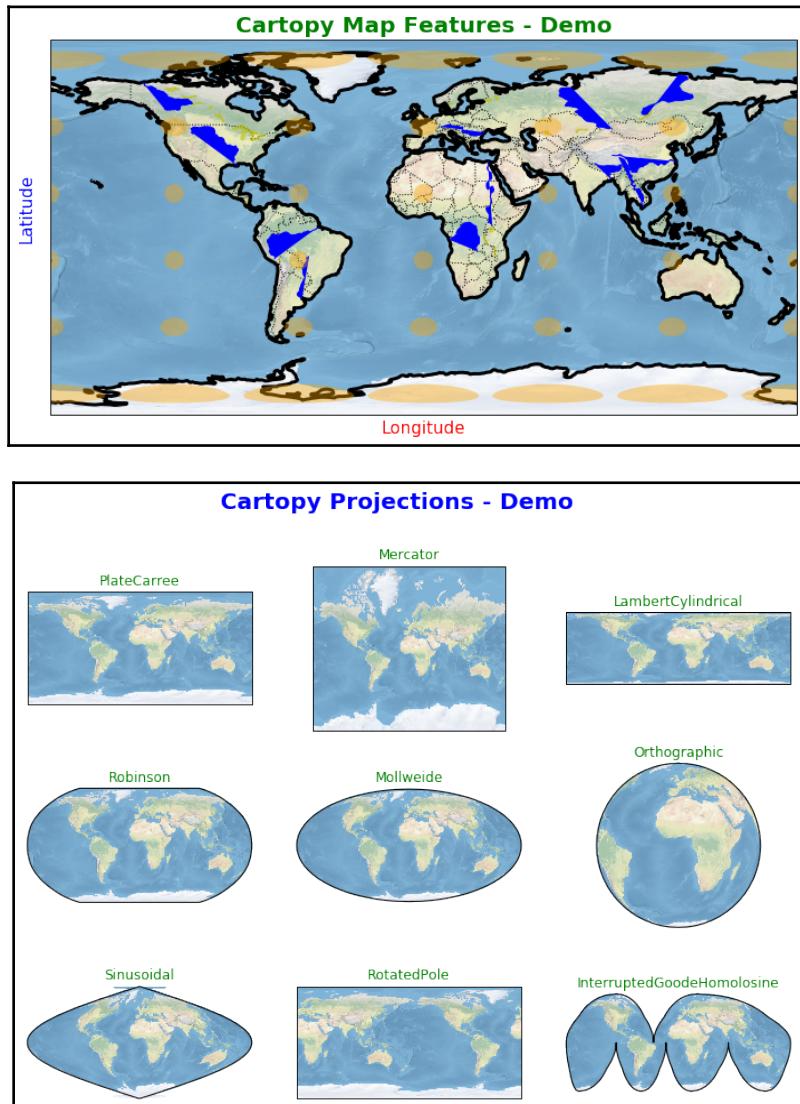


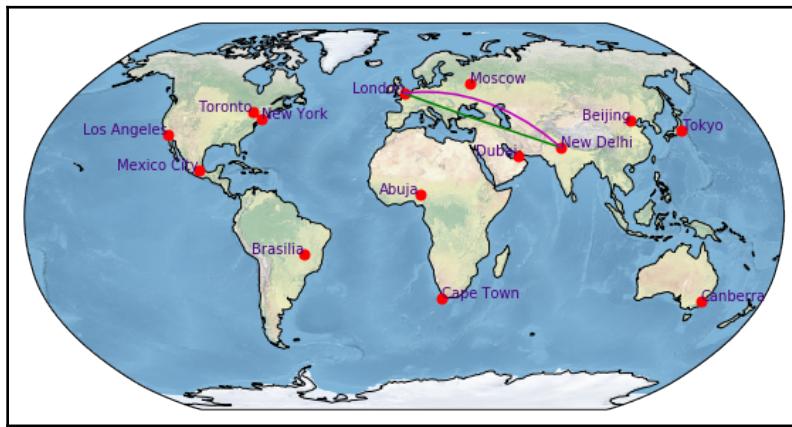
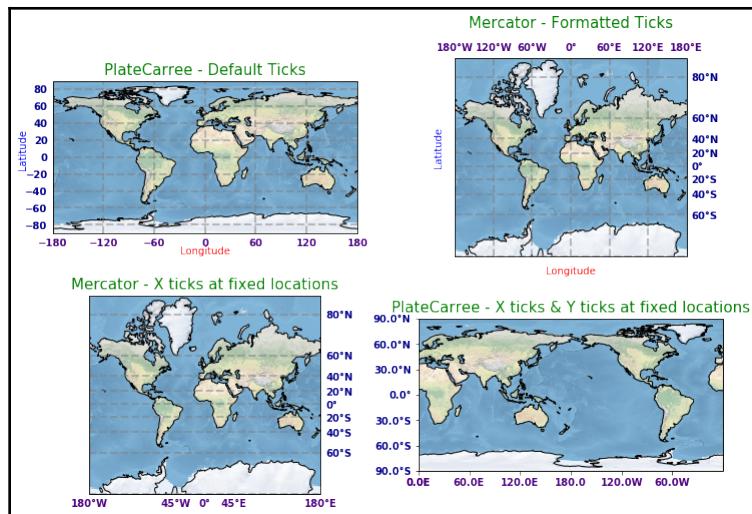


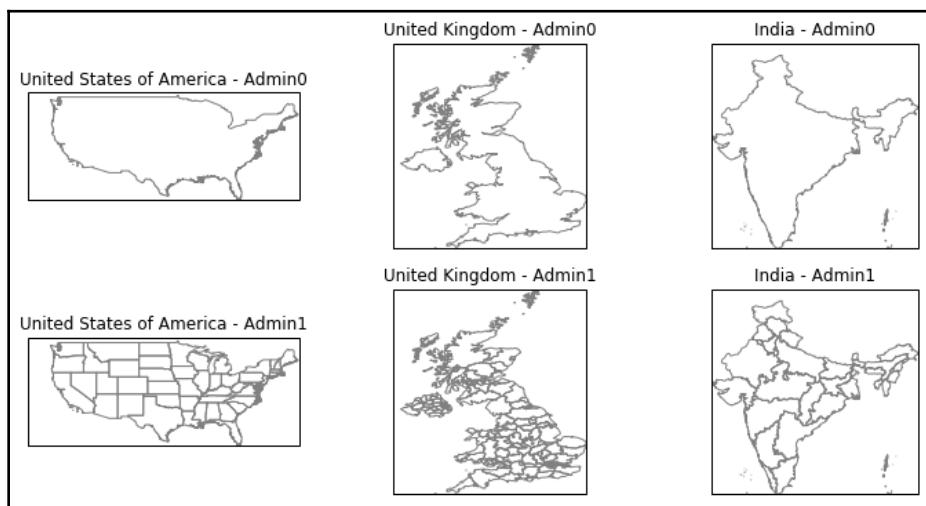
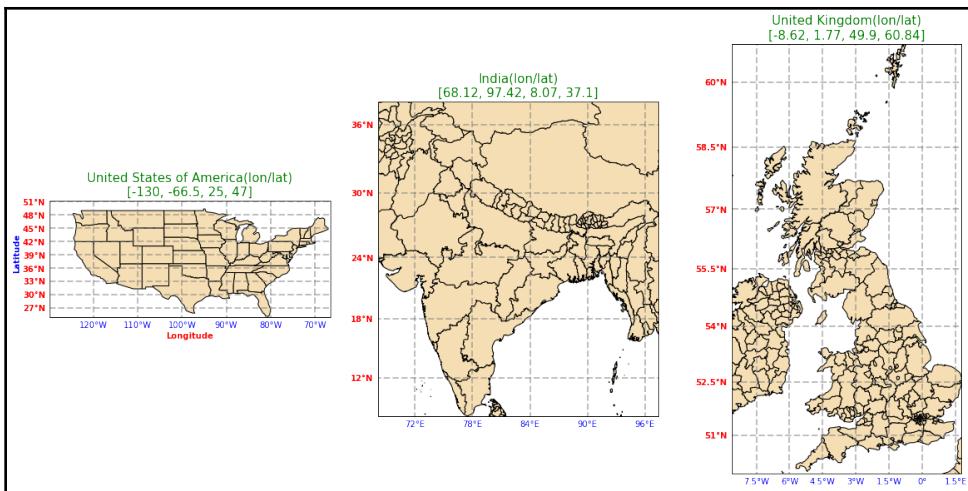


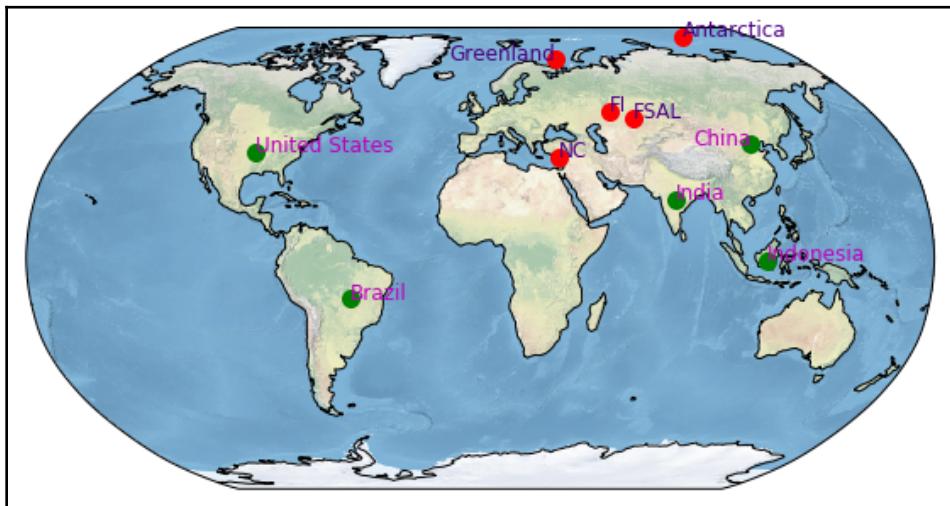
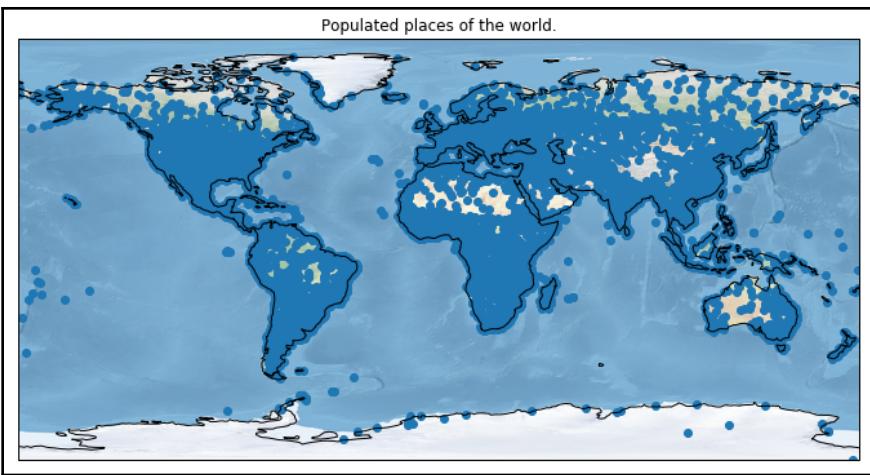


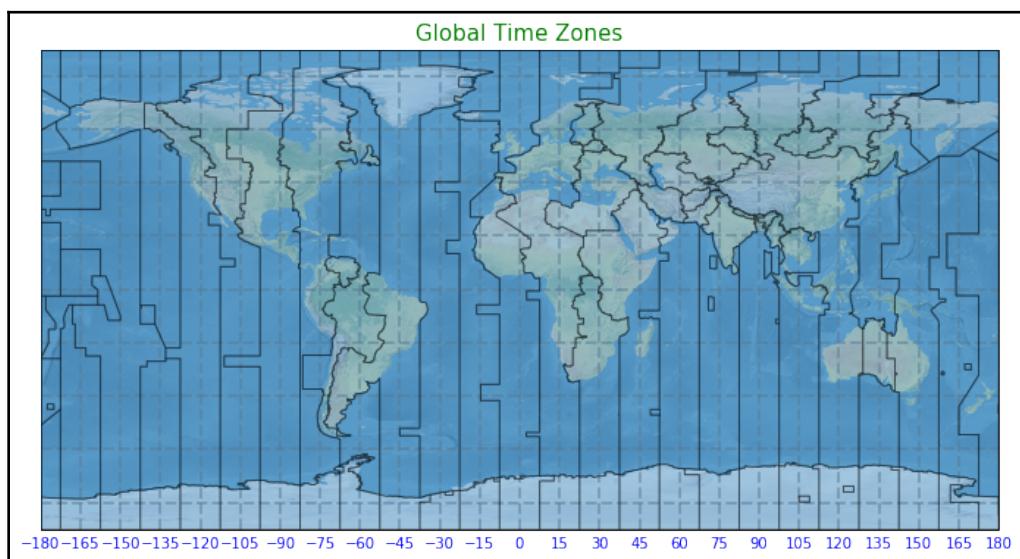
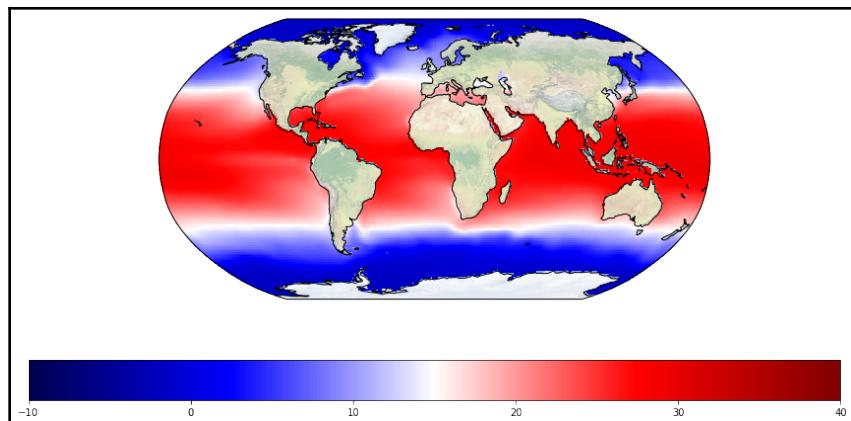
Chapter 14: Plotting Geographical Maps Using Cartopy Toolkit









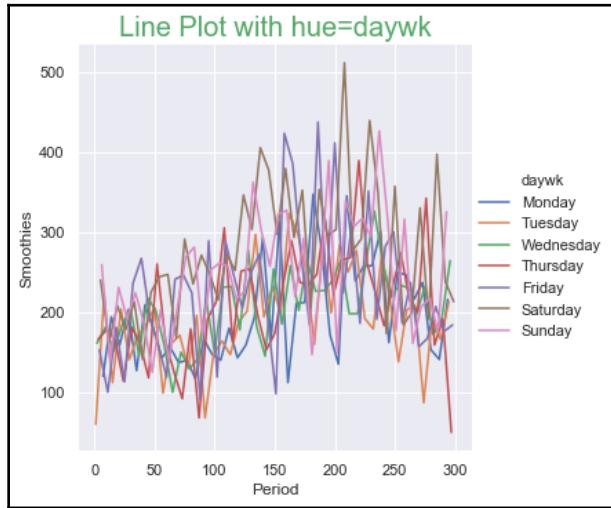
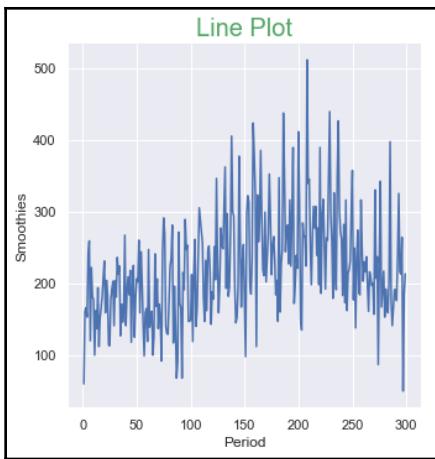


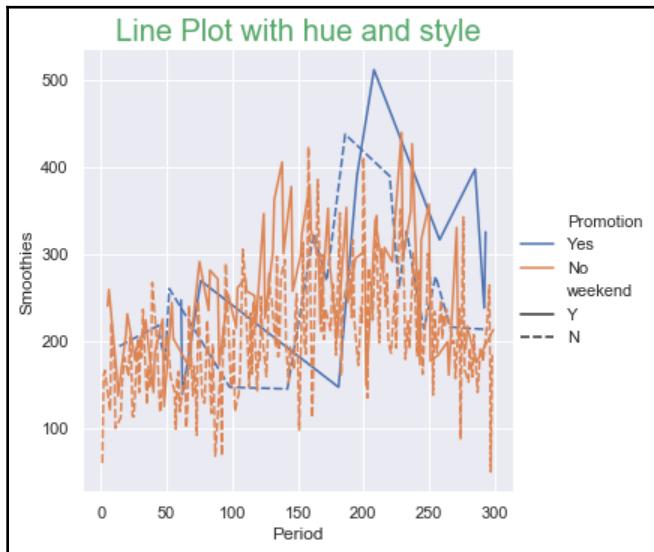
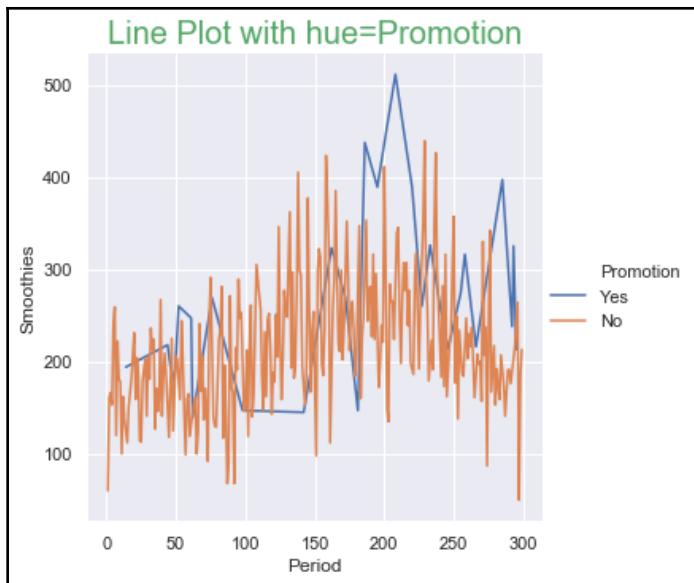
Chapter 15: Exploratory Data Analysis Using the Seaborn Toolkit

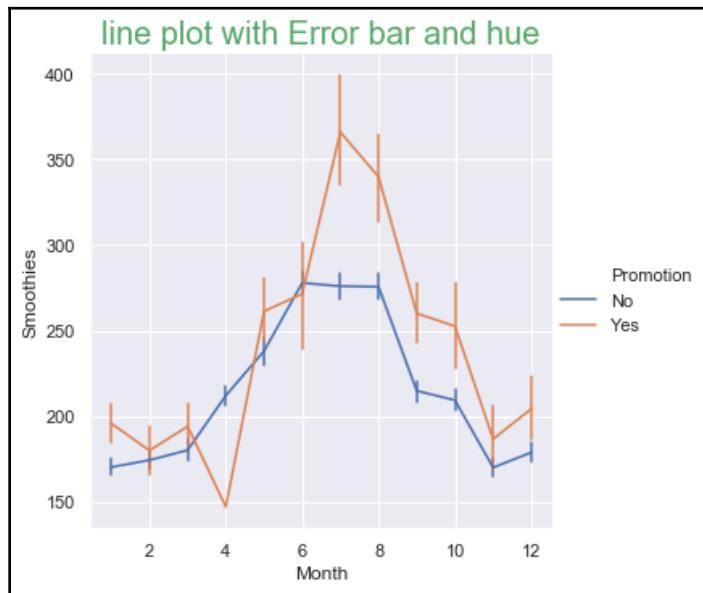
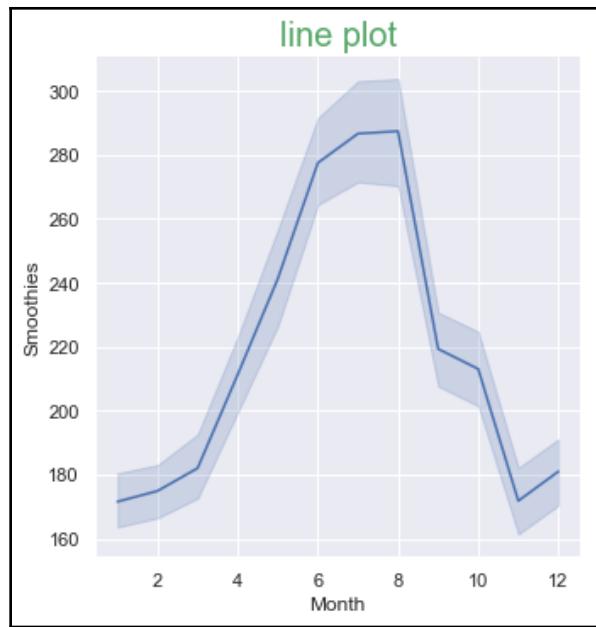
| Period | daywk | weekend | Date | Cakes | Pies | Cookies | Smoothies | Coffee | Promotion | |
|--------|-------|-----------|------|----------|------|---------|-----------|--------|-----------|----|
| 0 | 1 | Tuesday | N | 1/1/2015 | 79 | 46 | 518 | 60 | 233 | No |
| 1 | 2 | Wednesday | N | 1/2/2015 | 91 | 50 | 539 | 161 | 427 | No |
| 2 | 3 | Thursday | N | 1/3/2015 | 47 | 60 | 222 | 166 | 347 | No |
| 3 | 4 | Friday | N | 1/4/2015 | 89 | 64 | 734 | 153 | 358 | No |
| 4 | 5 | Saturday | Y | 1/5/2015 | 112 | 73 | 764 | 240 | 392 | No |

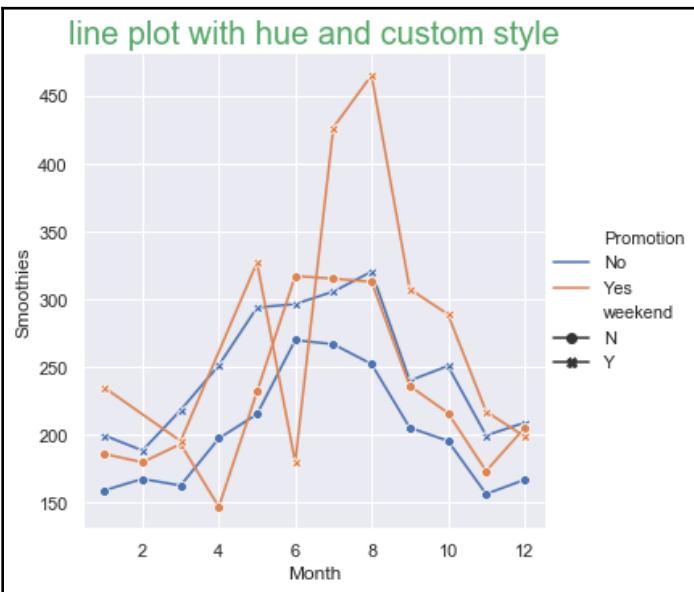
| Period | daywk | weekend | Date | Cakes | Pies | Cookies | Smoothies | Coffee | Promotion | Month | Quarter | |
|--------|-------|-----------|------|----------|------|---------|-----------|--------|-----------|-------|---------|---|
| 0 | 1 | Tuesday | N | 1/1/2015 | 79 | 46 | 518 | 60 | 233 | No | 1 | 1 |
| 1 | 2 | Wednesday | N | 1/2/2015 | 91 | 50 | 539 | 161 | 427 | No | 1 | 1 |
| 2 | 3 | Thursday | N | 1/3/2015 | 47 | 60 | 222 | 166 | 347 | No | 1 | 1 |
| 3 | 4 | Friday | N | 1/4/2015 | 89 | 64 | 734 | 153 | 358 | No | 1 | 1 |
| 4 | 5 | Saturday | Y | 1/5/2015 | 112 | 73 | 764 | 240 | 392 | No | 1 | 1 |

| | fixed acidity | volatile acidity | citric acid | residual sugar | chlorides | free sulfur dioxide | total sulfur dioxide | density | pH | sulphates | alcohol | quality | Quality |
|---|---------------|------------------|-------------|----------------|-----------|---------------------|----------------------|---------|------|-----------|---------|---------|---------|
| 0 | 7.4 | 0.70 | 0.00 | 1.9 | 0.076 | 11.0 | 34.0 | 0.9978 | 3.51 | 0.56 | 9.4 | 5 | Med |
| 1 | 7.8 | 0.88 | 0.00 | 2.6 | 0.098 | 25.0 | 67.0 | 0.9968 | 3.20 | 0.68 | 9.8 | 5 | Med |
| 2 | 7.8 | 0.76 | 0.04 | 2.3 | 0.092 | 15.0 | 54.0 | 0.9970 | 3.26 | 0.65 | 9.8 | 5 | Med |
| 3 | 11.2 | 0.28 | 0.56 | 1.9 | 0.075 | 17.0 | 60.0 | 0.9980 | 3.16 | 0.58 | 9.8 | 6 | Med |
| 4 | 7.4 | 0.70 | 0.00 | 1.9 | 0.076 | 11.0 | 34.0 | 0.9978 | 3.51 | 0.56 | 9.4 | 5 | Med |

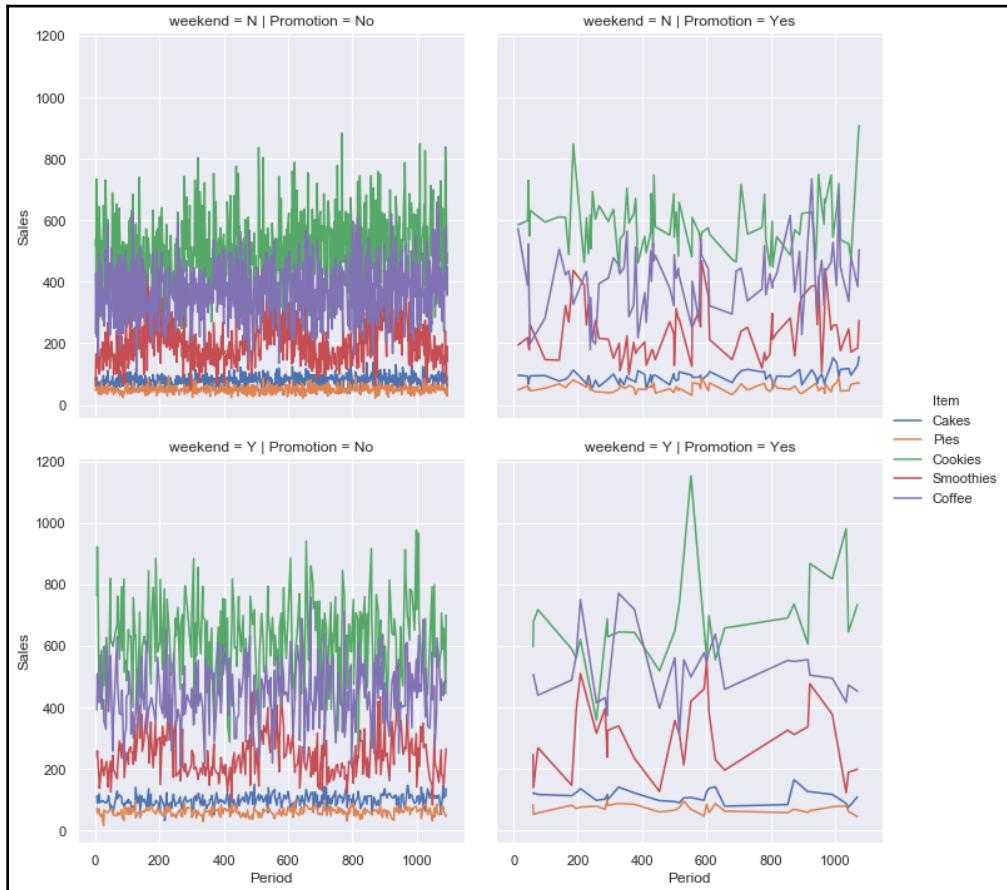


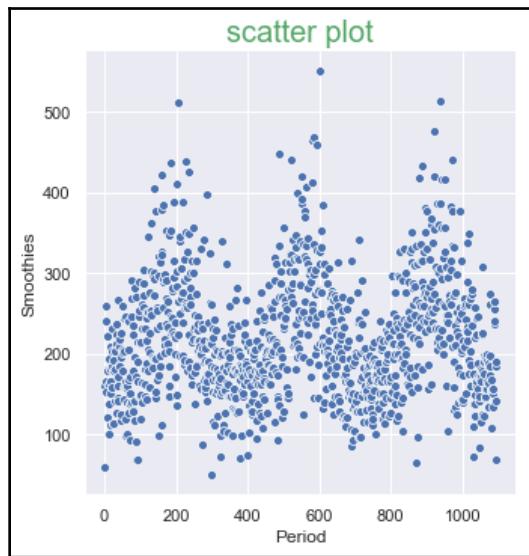
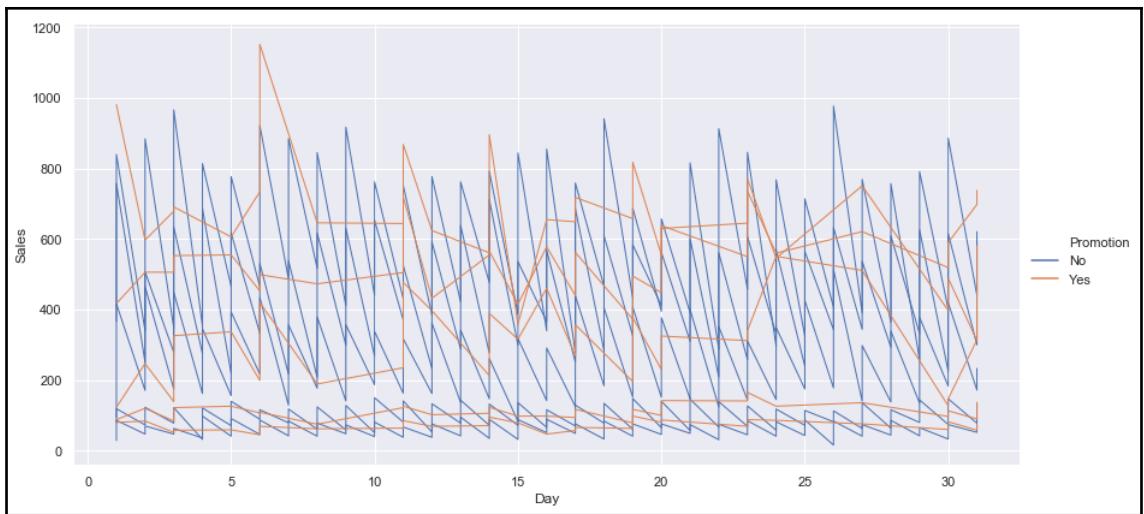


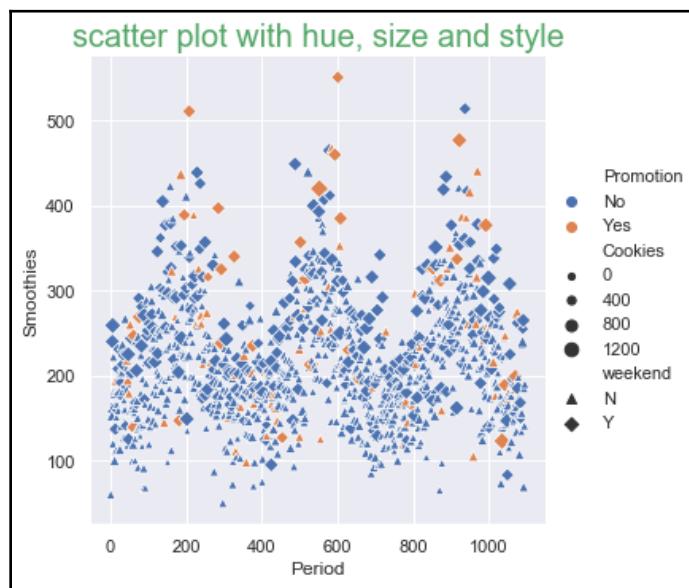
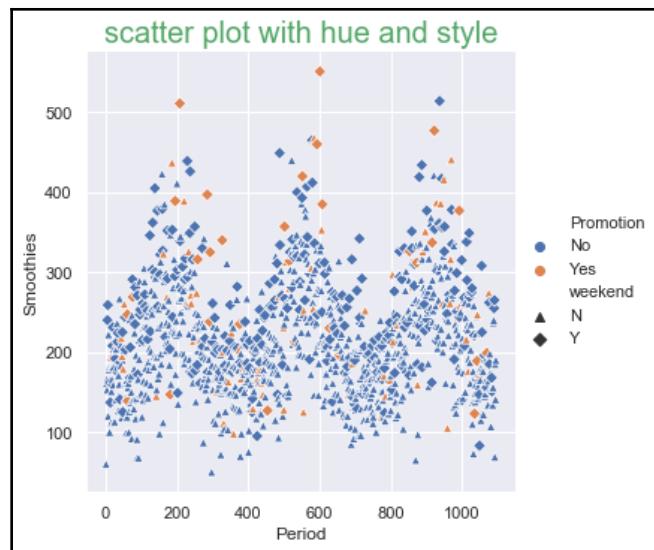


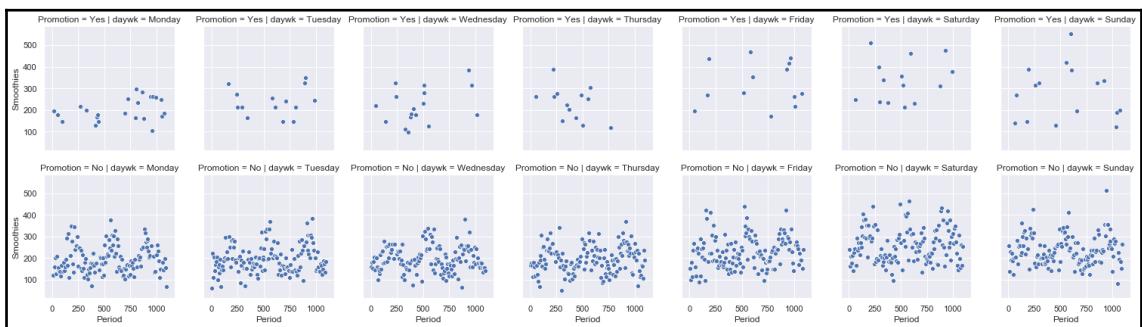
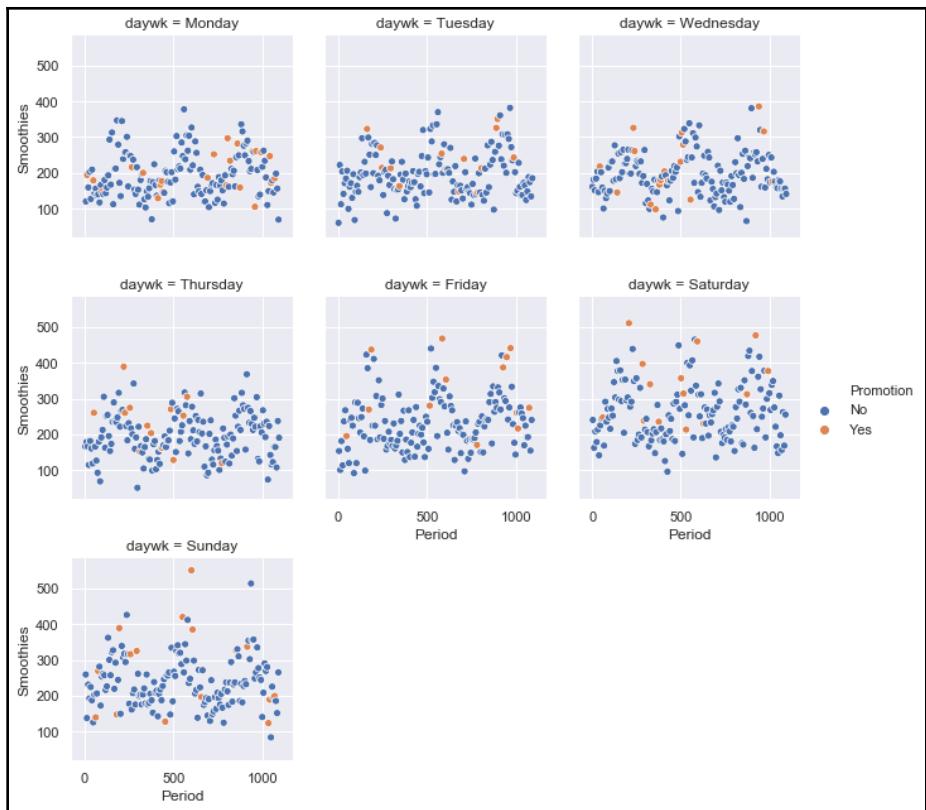


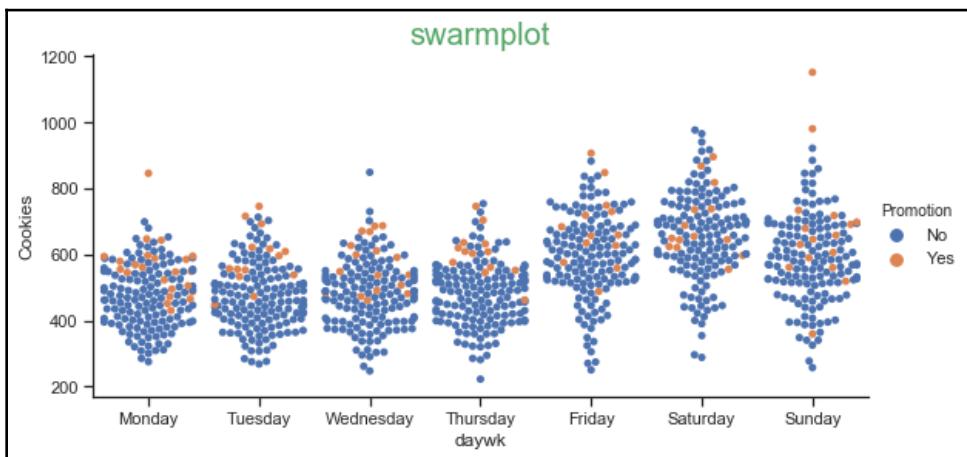
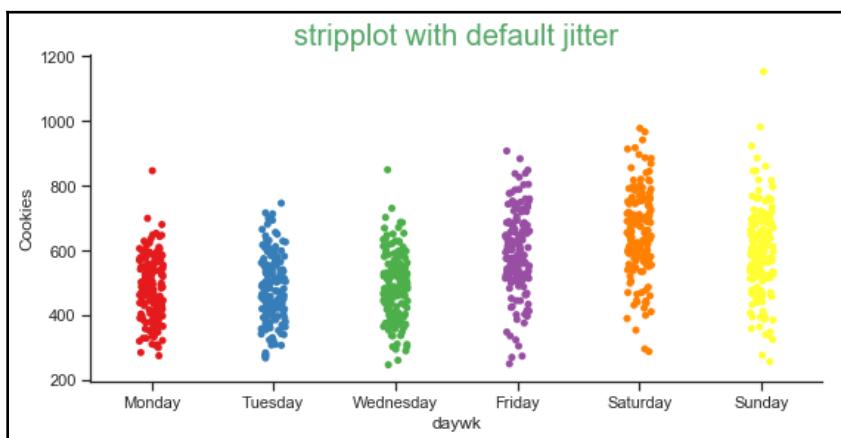
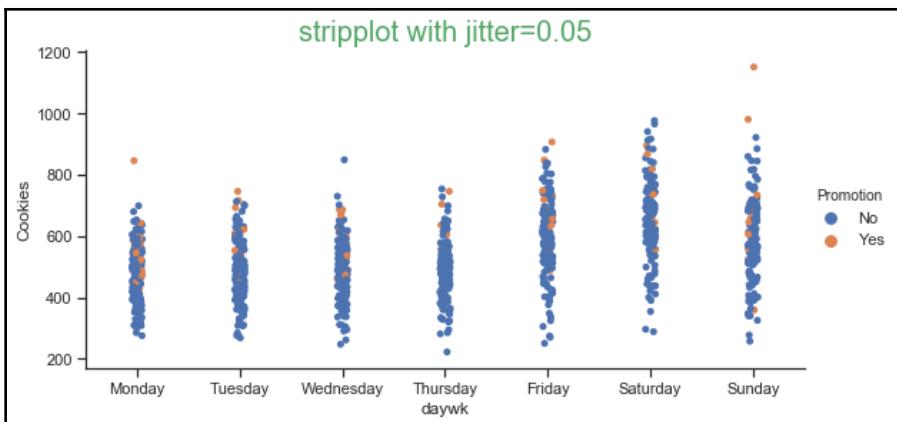
| | daywk | weekend | Date | Promotion | Period | Month | Quarter | Item | Sales |
|------|-----------|---------|------------|-----------|--------|-------|---------|-----------|-------|
| 3899 | Sunday | Y | 9/7/2016 | No | 615 | 9 | 3 | Smoothies | 298 |
| 2689 | Thursday | N | 5/15/2016 | Yes | 500 | 5 | 2 | Cookies | 545 |
| 1193 | Tuesday | N | 4/9/2015 | No | 99 | 4 | 2 | Pies | 63 |
| 1274 | Saturday | Y | 6/29/2015 | No | 180 | 6 | 2 | Pies | 62 |
| 2884 | Wednesday | N | 11/26/2016 | No | 695 | 11 | 4 | Cookies | 558 |

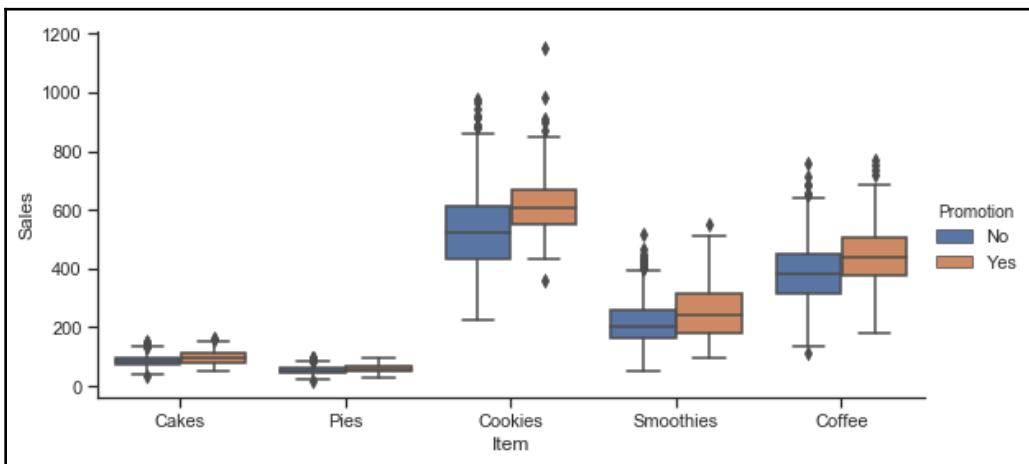
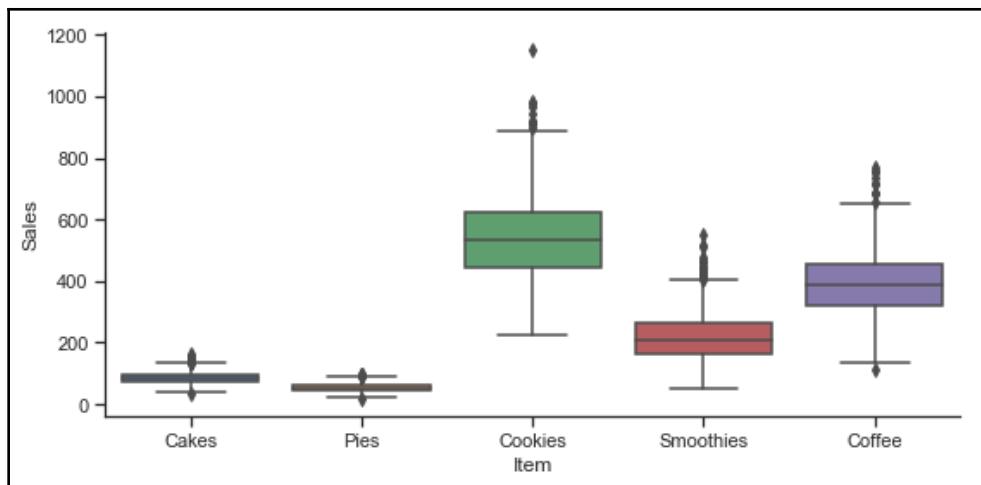


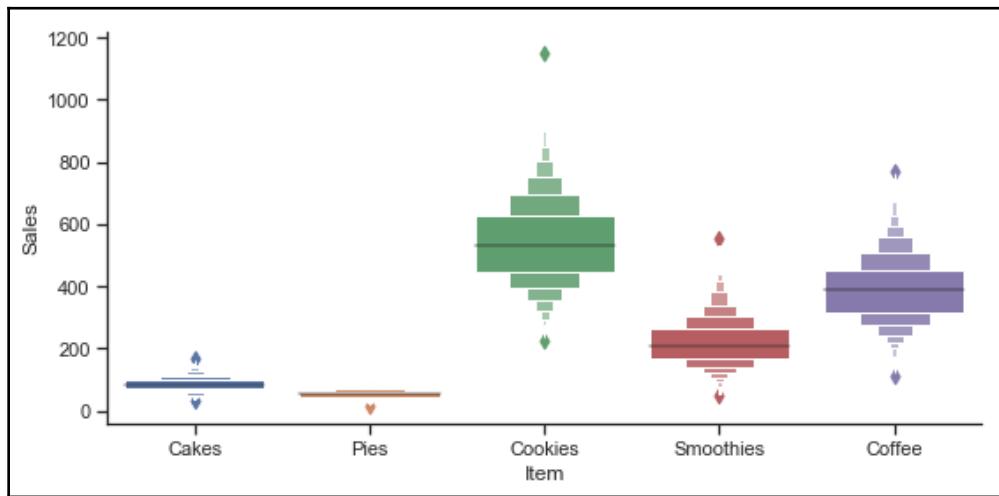
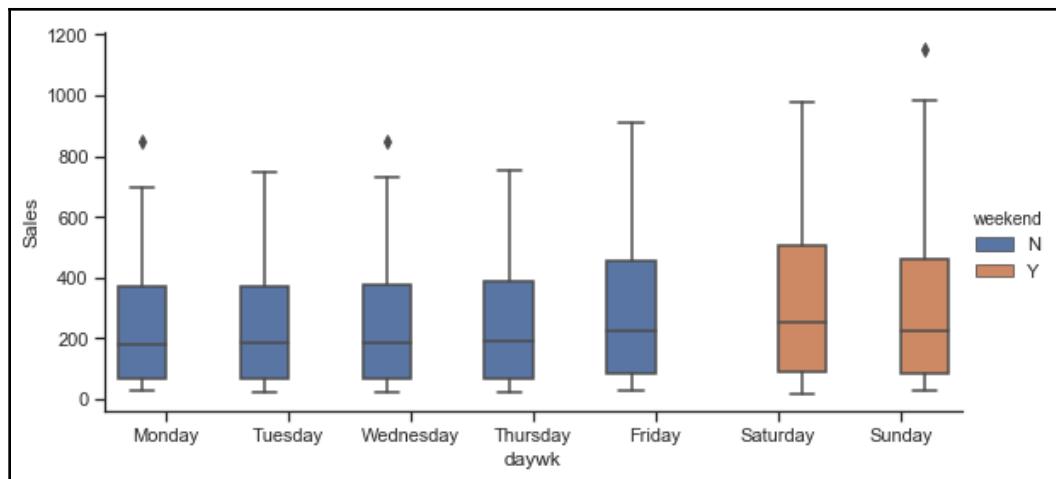


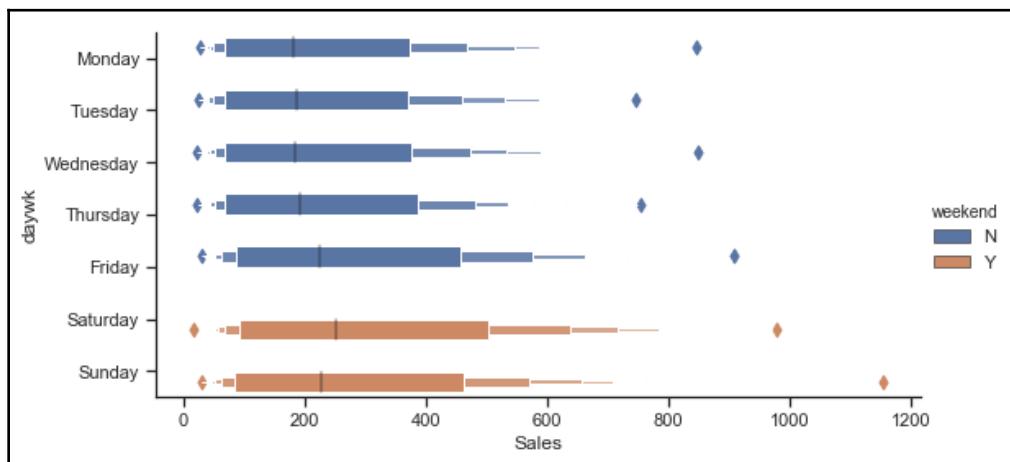
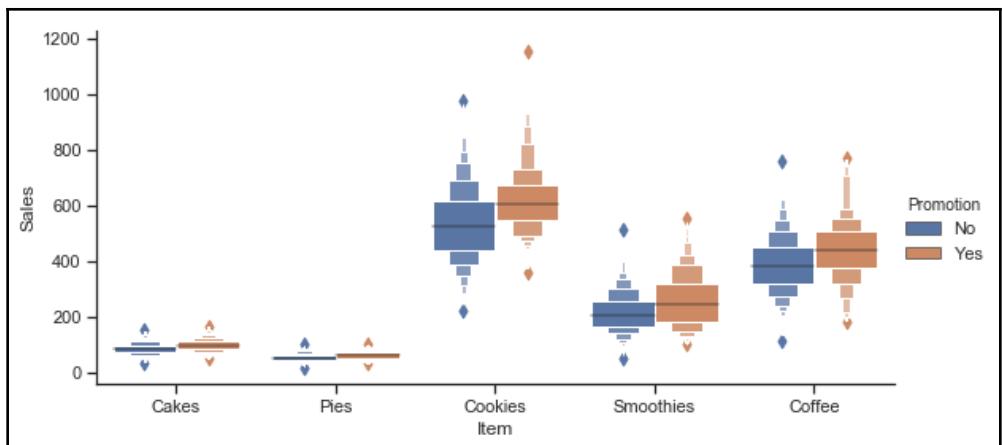


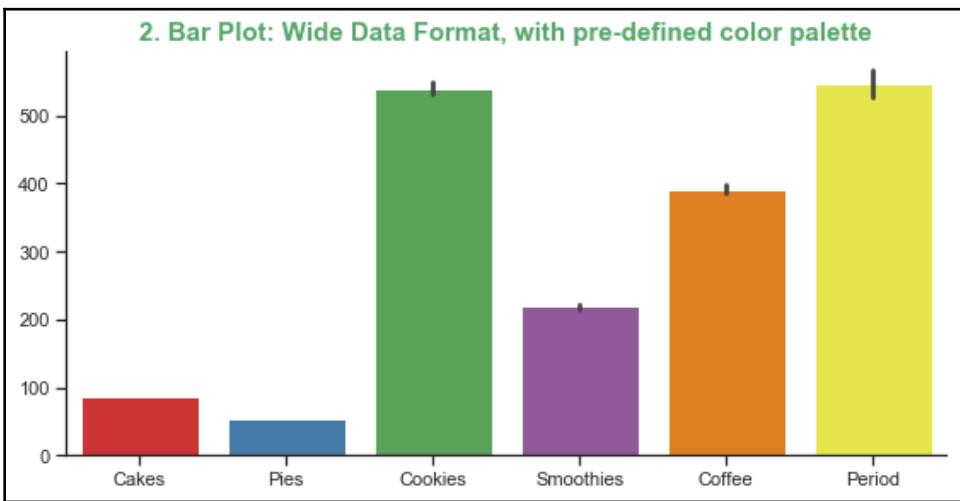
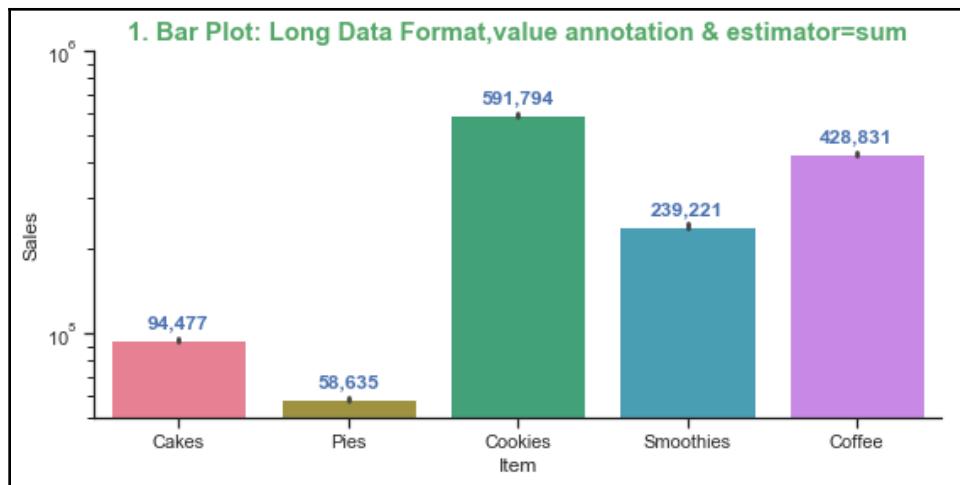


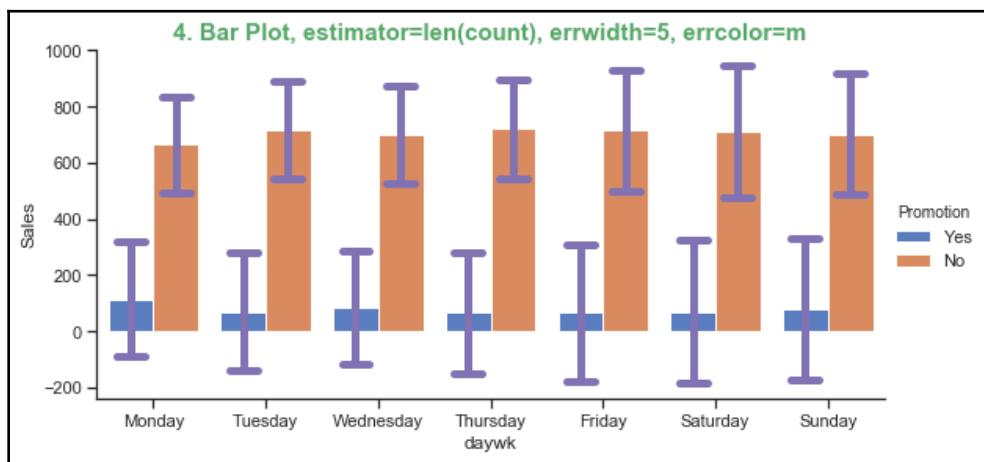
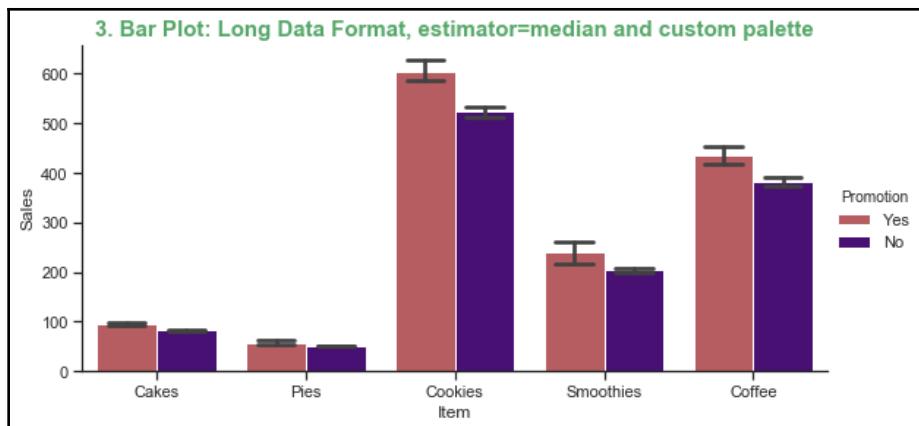


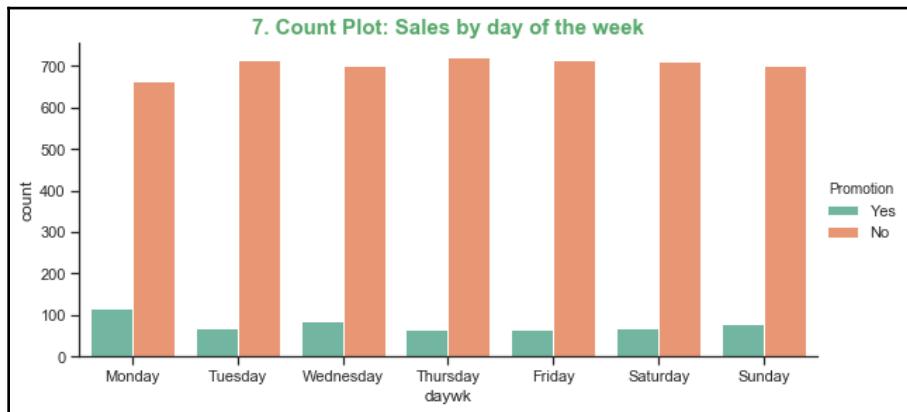
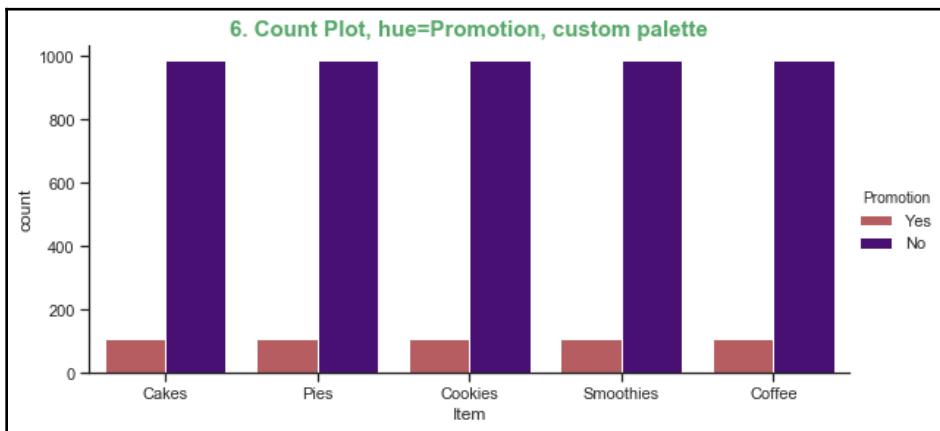
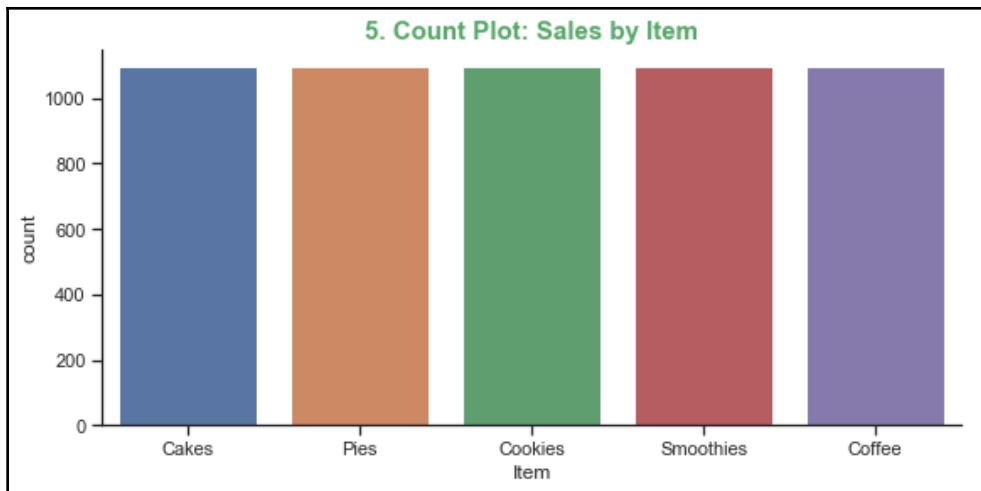


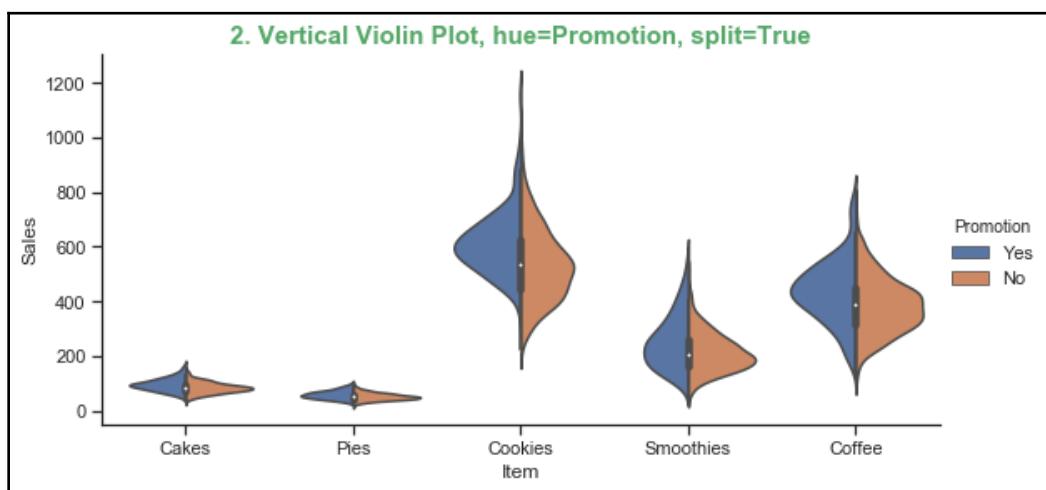
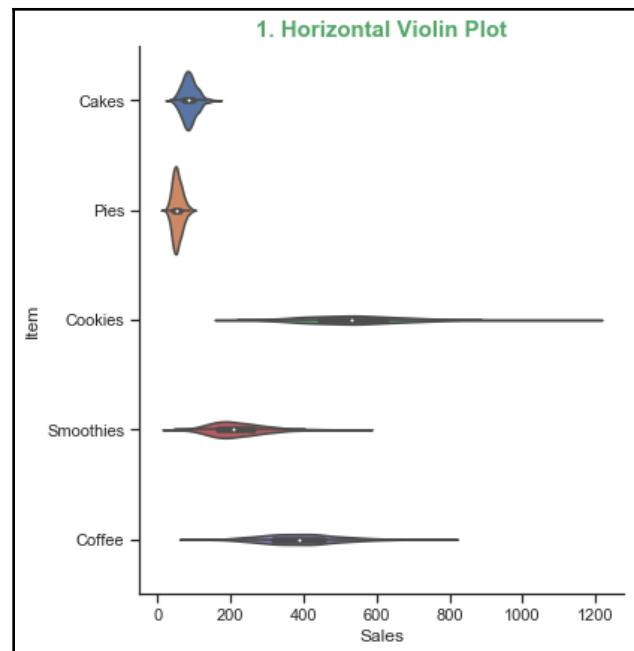


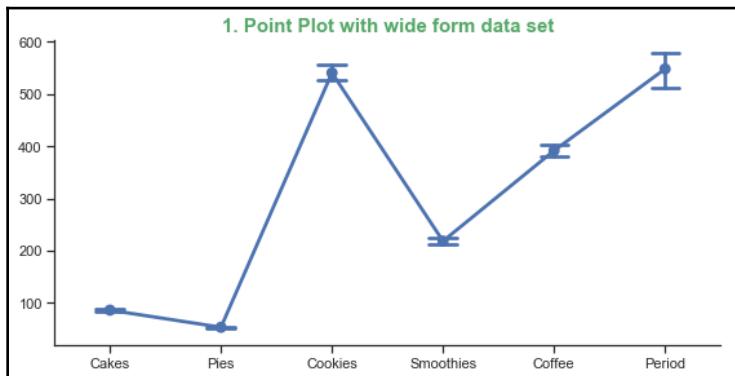
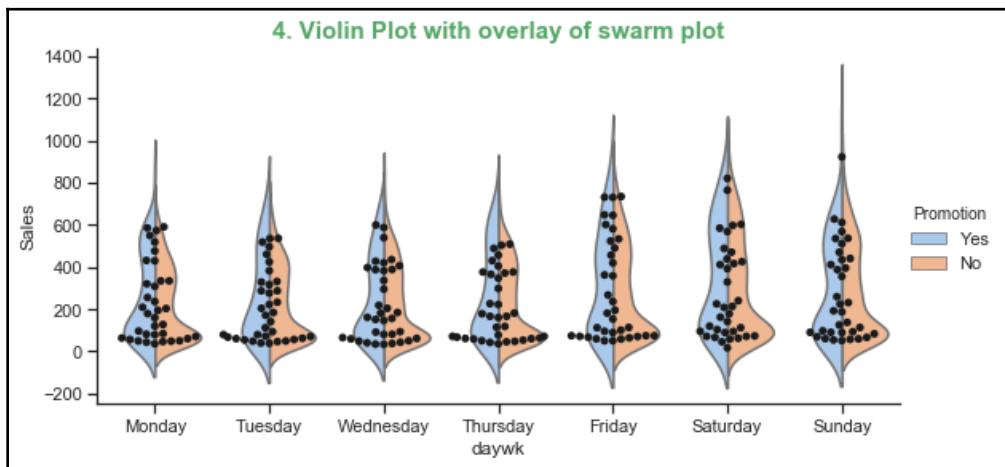
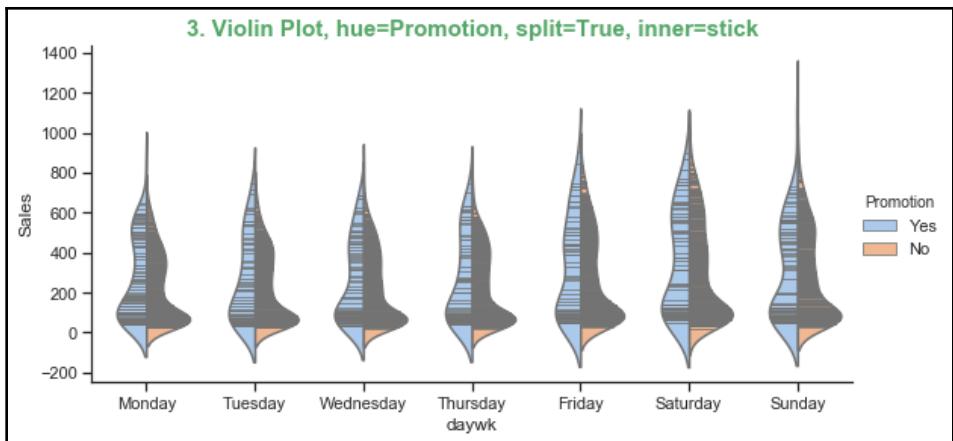




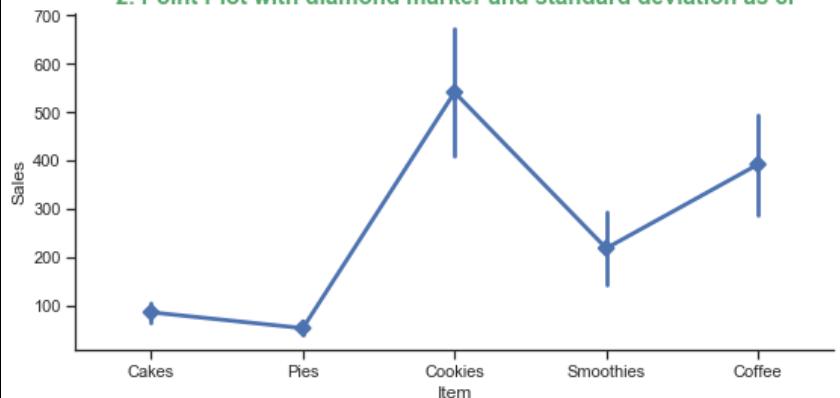




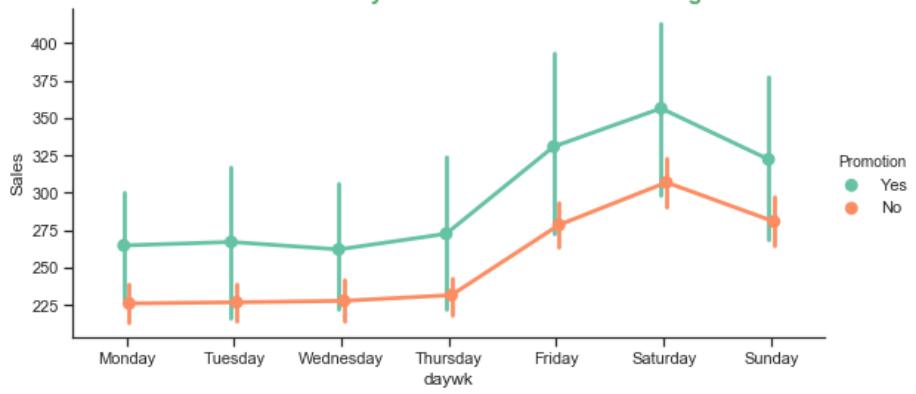


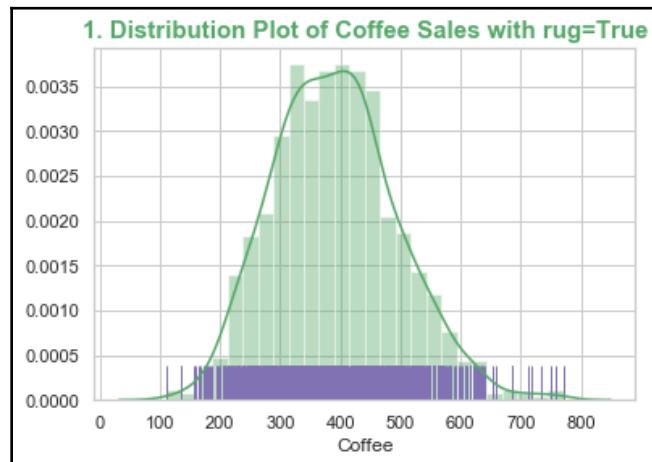
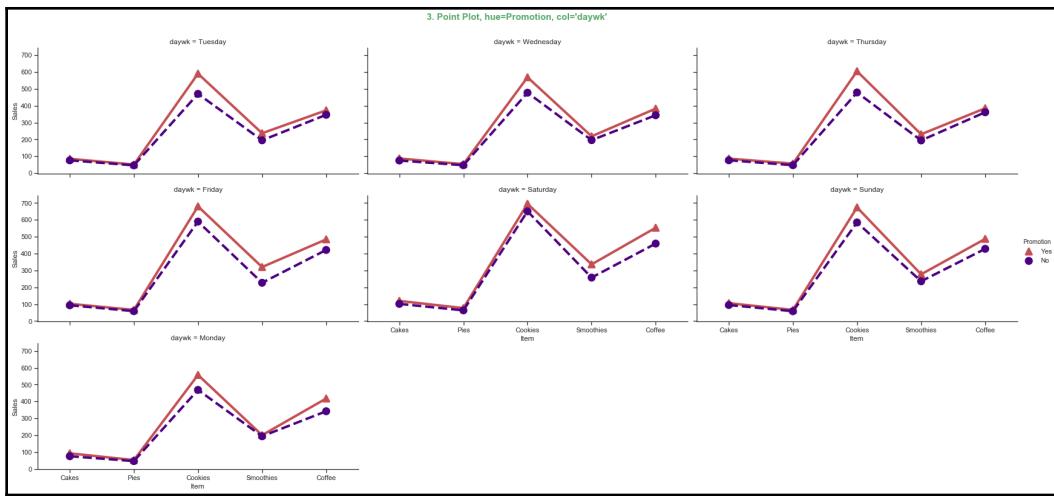


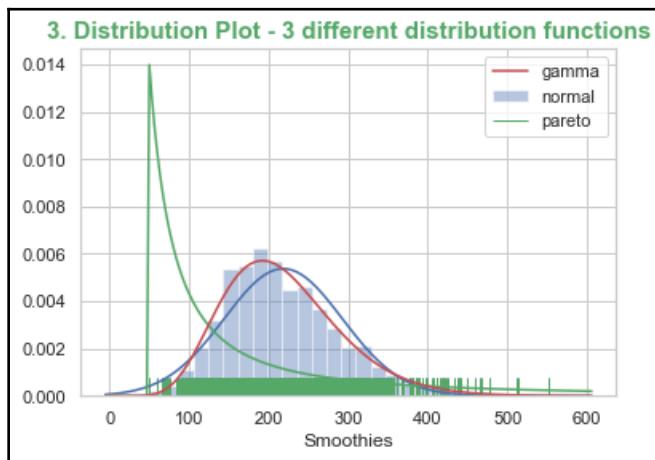
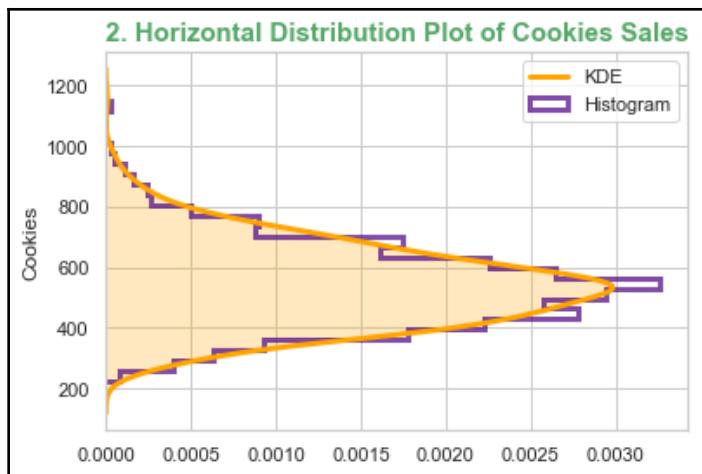
2. Point Plot with diamond marker and standard deviation as ci

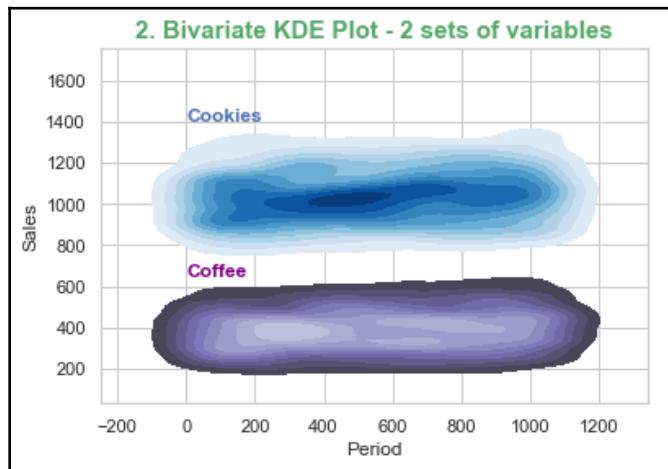
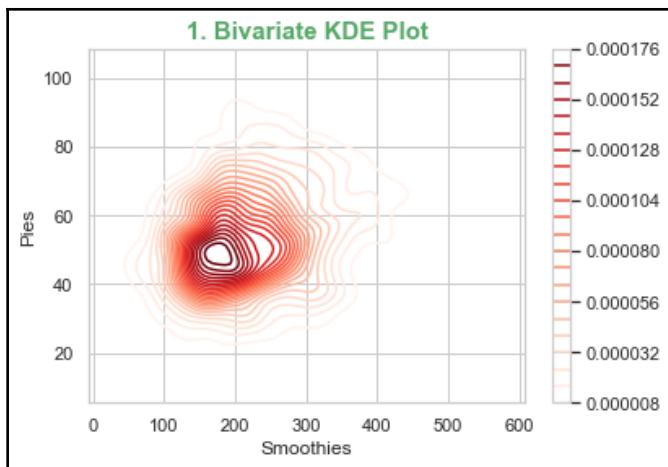


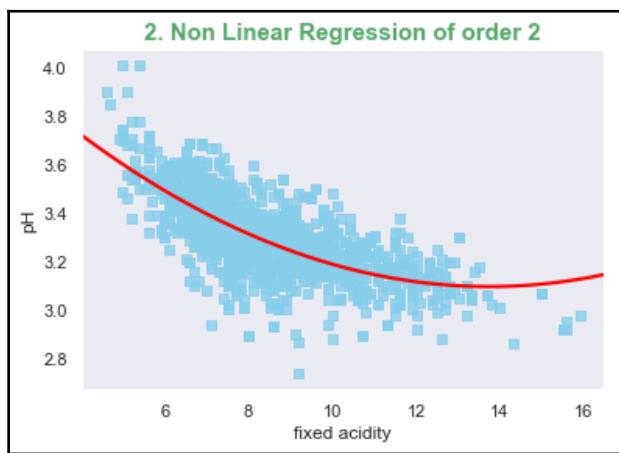
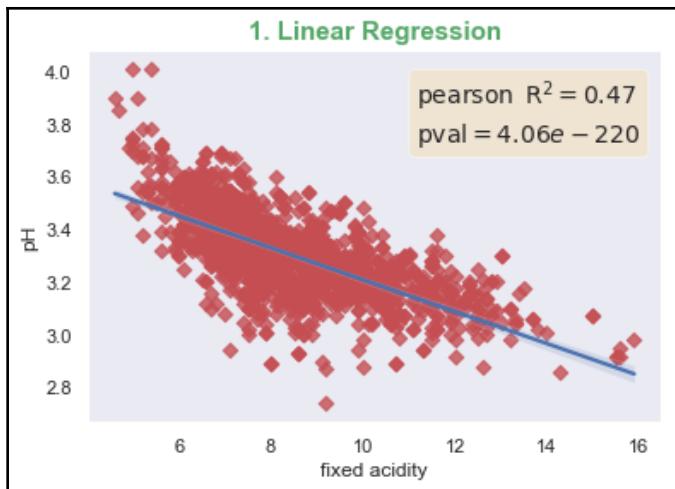
4. Point Plot of day wise sales with hue and dodge

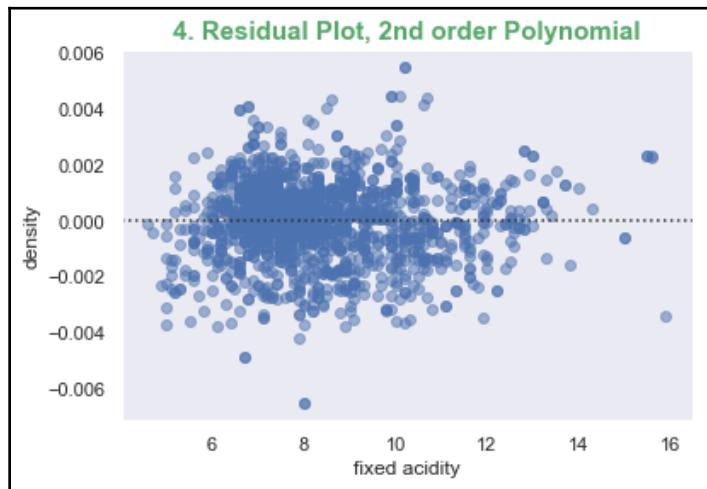
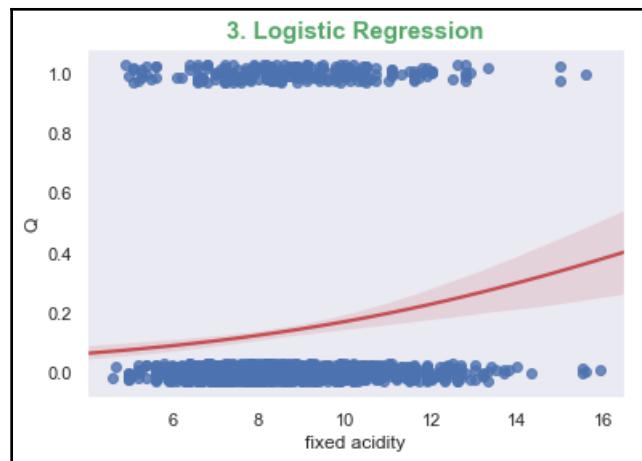


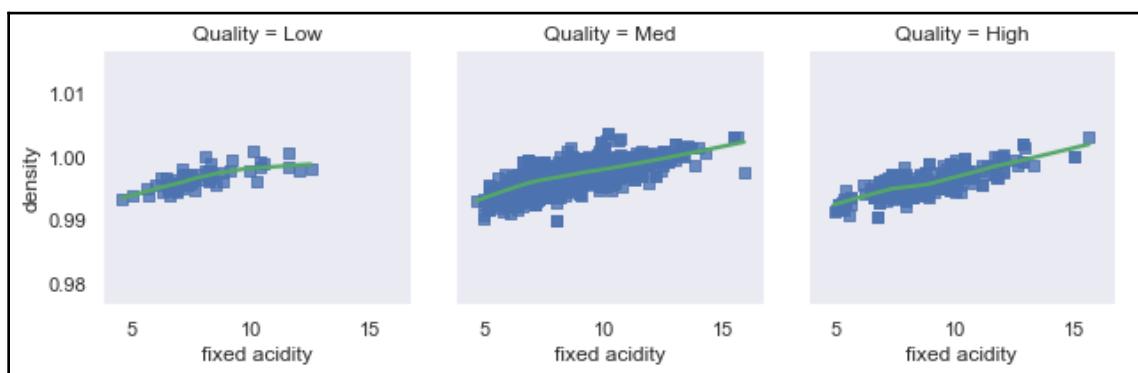
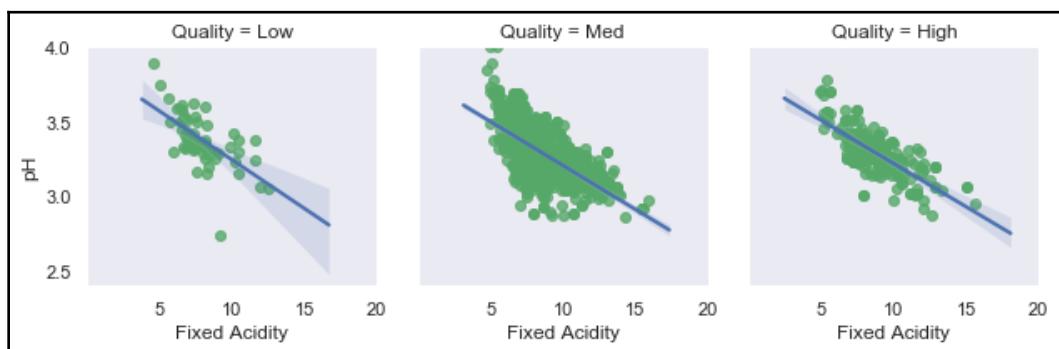
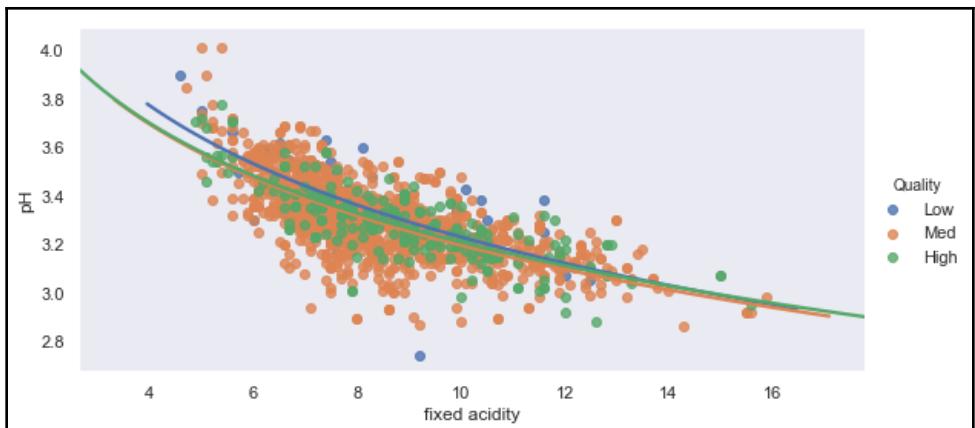




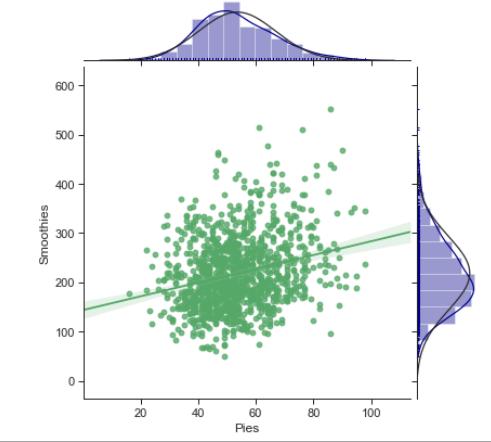




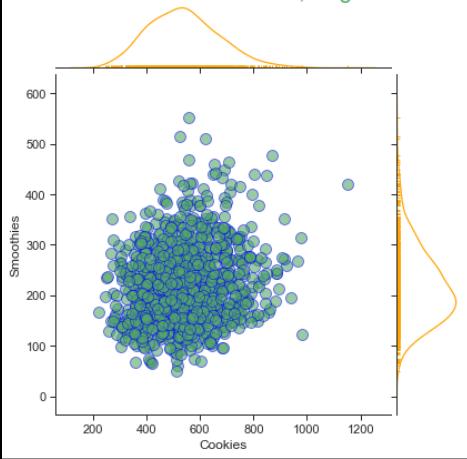


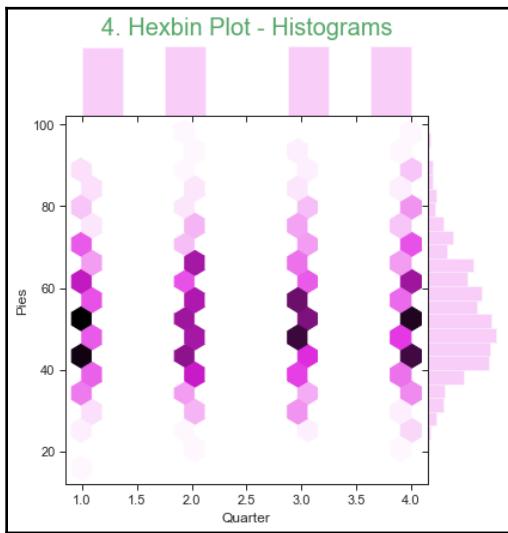
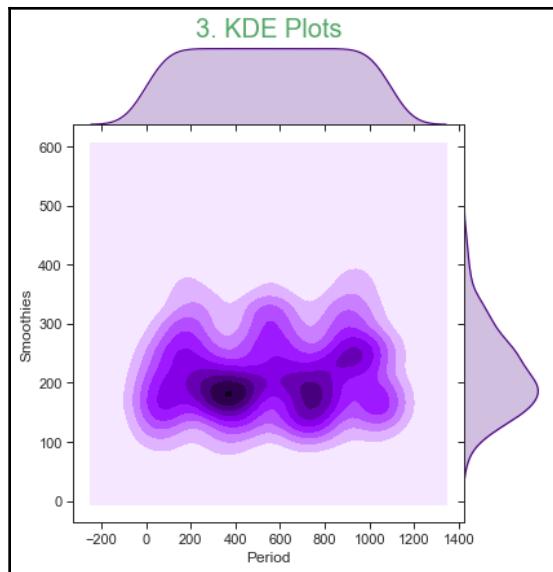


1. Regression Plot - Histogram, KDE, Normal, Rug

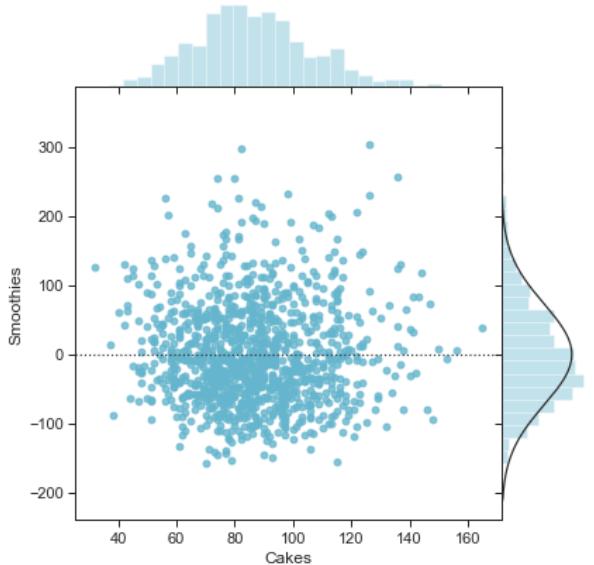


2. Scatter Plot - KDE, Rug

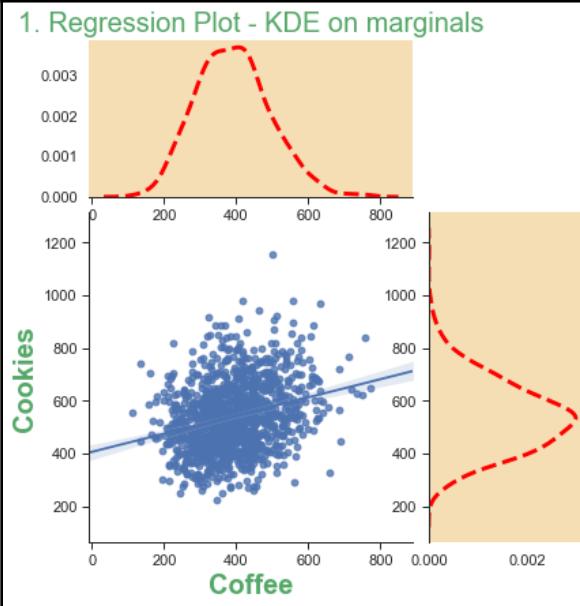




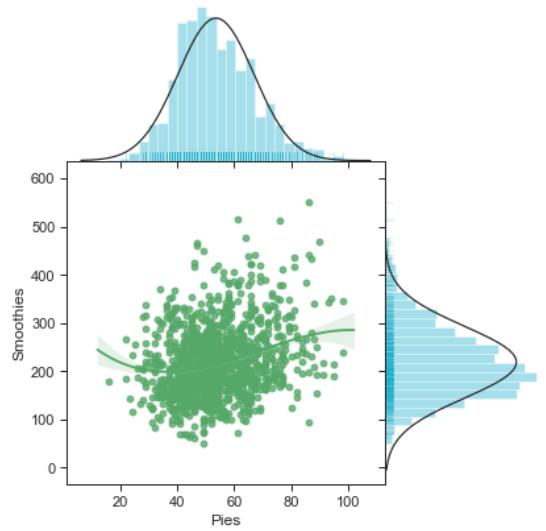
5. Residual Plot - Histogram, Normal



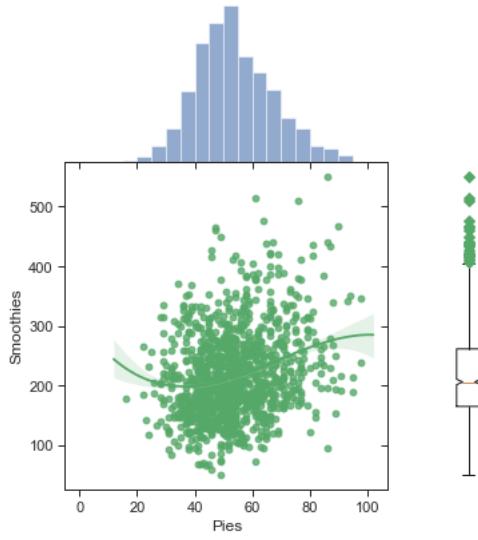
1. Regression Plot - KDE on marginals



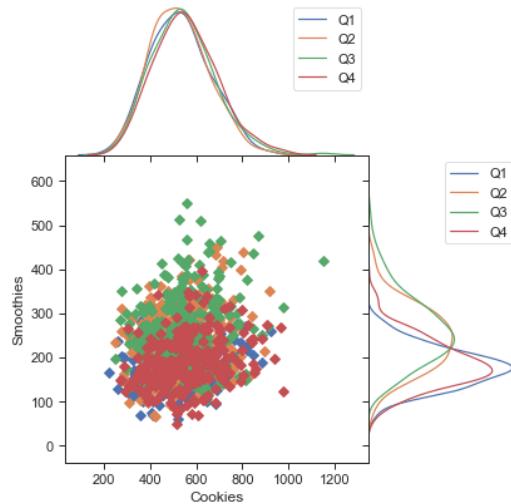
2. Regression Plot - Histogram, Normal, Rug



3. Regression Plot - Histogram, Boxplot



4. Scatter Plot - Histogram with hue, KDE on marginals



5. Regression Plot with hue - Boxplots on marginals

