Pands-Project

Programming and Scripting

Anna Kozakiewicz

2022

Table of Contents

[1. Readingdata.py 1](#_Toc102144038)

[2. Summaryofdata.py 1](#_Toc102144039)

[3. Plots 2](#_Toc102144040)

[3.1. Hist.py 2](#_Toc102144041)

[3.2.0. Boxplot.py 3](#_Toc102144042)

[3.2.1. Boxplot.py 4](#_Toc102144043)

[3.2.2. Boxplot.py 5](#_Toc102144044)

[3.2.3. Boxplot.py 6](#_Toc102144045)

[3.2.4. Boxplot.py 7](#_Toc102144046)

[3.3.1. Scatter.py 8](#_Toc102144047)

[3.3.2. Scatter.py 9](#_Toc102144048)

[3.4.1. Violinplot.py 10](#_Toc102144049)

[3.4.2. Violinplot.py 11](#_Toc102144050)

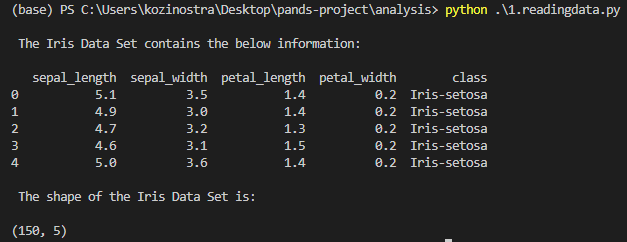
[3.4.3. Violinplot.py 12](#_Toc102144051)

[3.4.4. Violinplot.py 13](#_Toc102144052)

[4. Statistics.py 13](#_Toc102144053)

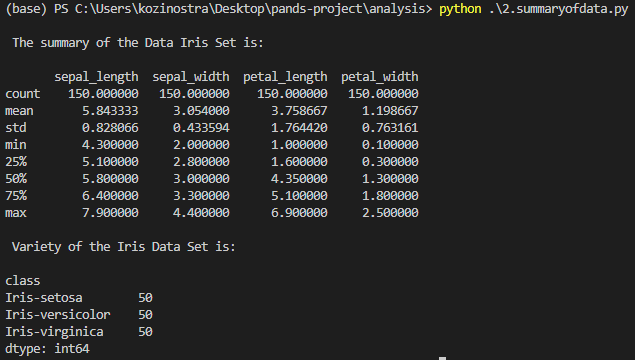
# Readingdata.py

This code shows what columns the Iris Data Set includes and what is the shape of the data (150 rows and 5 columns)



# Summaryofdata.py

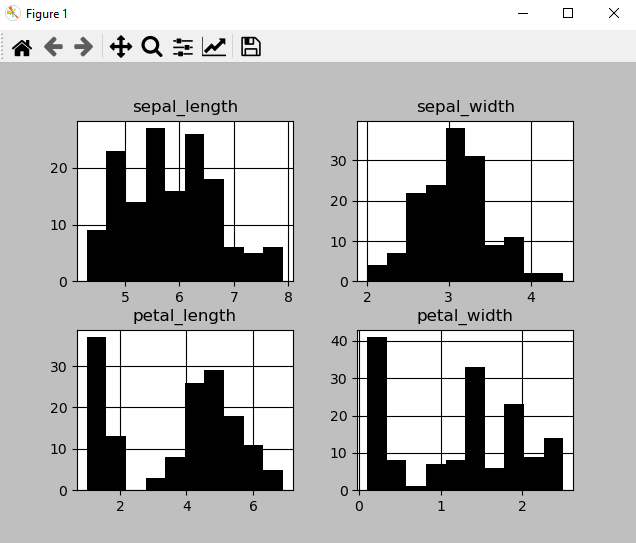
This code outputs the summary of data per each category and how the data is split by each variety/class (50 rows per each Iris class)



# Plots

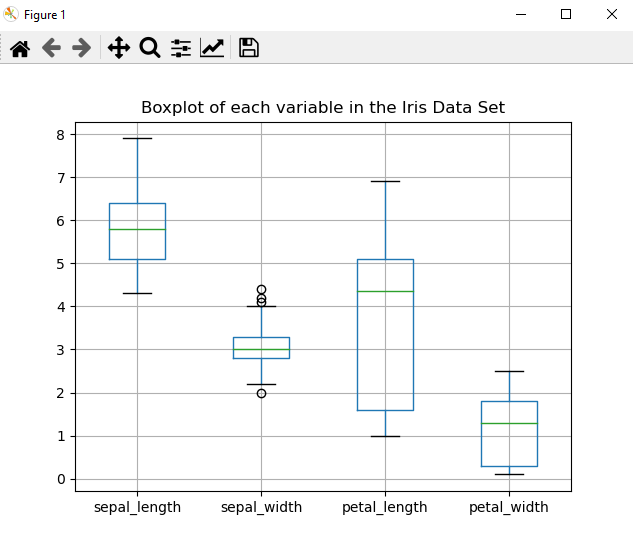
## 3.1. Hist.py

This code outputs a histogram of each variable in the Iris Data Set.



## 3.2.0. Boxplot.py

This code outputs a boxplot of each variable in the Iris Data Set.



## 3.2.1. Boxplot.py

This code outputs a boxplot of petal width for 3 Iris classes



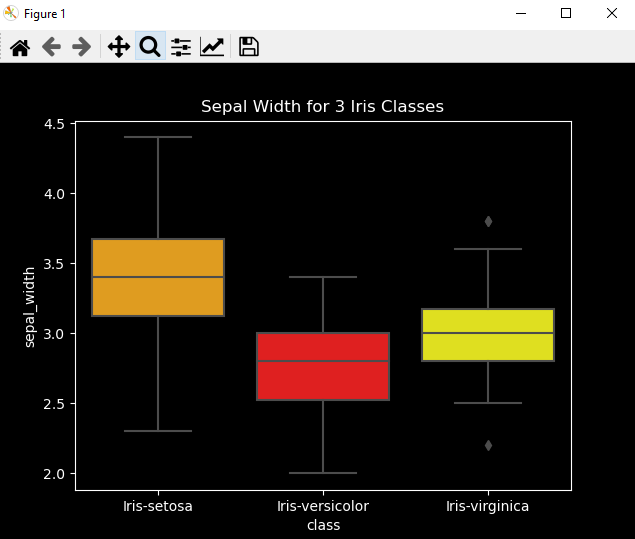
## 3.2.2. Boxplot.py

This code outputs a boxplot of petal length for 3 Iris classes



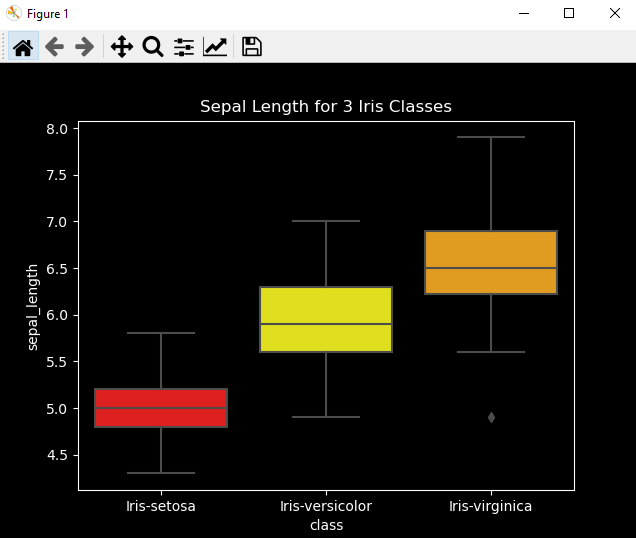
## 3.2.3. Boxplot.py

This code outputs a boxplot of sepal width for 3 Iris classes



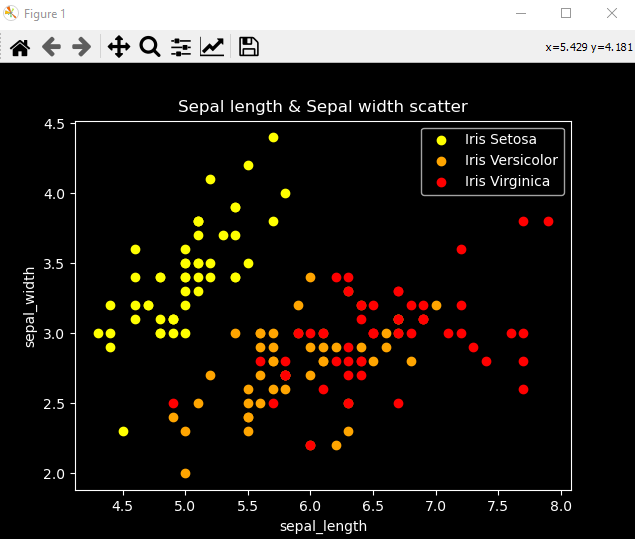
## 3.2.4. Boxplot.py

This code outputs a boxplot of sepal length for 3 Iris classes



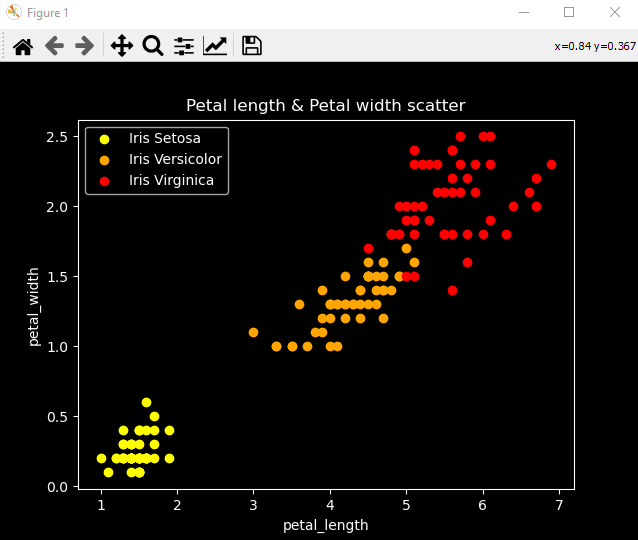
## 3.3.1. Scatter.py

This code outputs a scatter plot of sepal length and sepal width as a one pair of variables



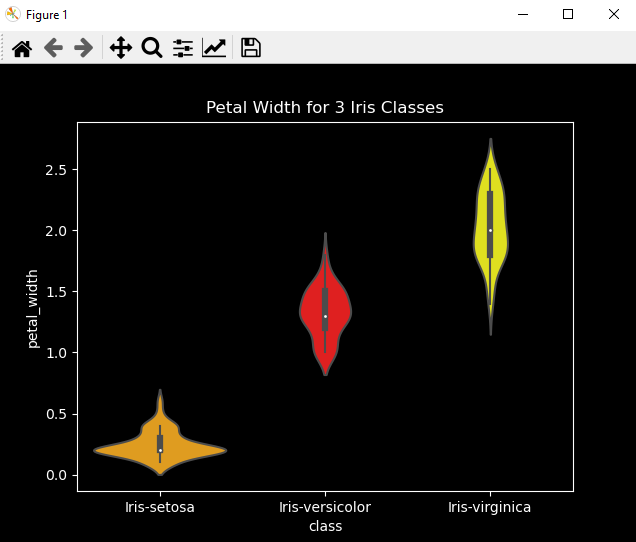
## 3.3.2. Scatter.py

This code outputs a scatter plot of petal length and petal width as a second pair of variables



## 3.4.1. Violinplot.py

This code outputs a violin plot of petal width for 3 Iris classes



## 3.4.2. Violinplot.py

This code outputs a violin plot of petal length for 3 Iris classes



## 3.4.3. Violinplot.py

This code outputs a violin plot of sepal width for 3 Iris classes

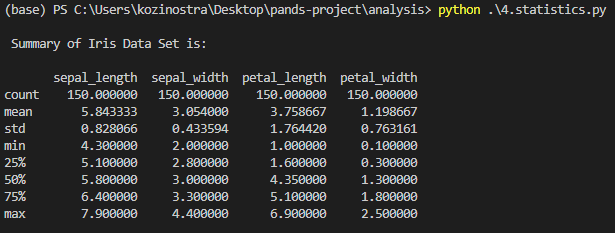


## 3.4.4. Violinplot.py

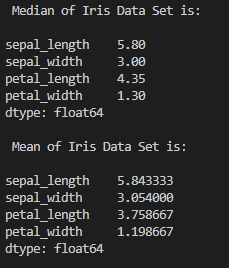
This code outputs a violin plot of sepal length for 3 Iris classes



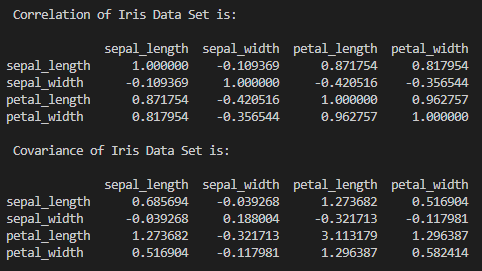
# Statistics.py

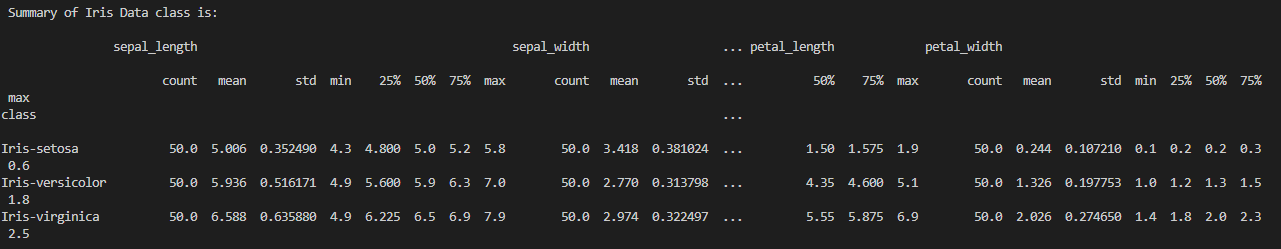


Median & Mean

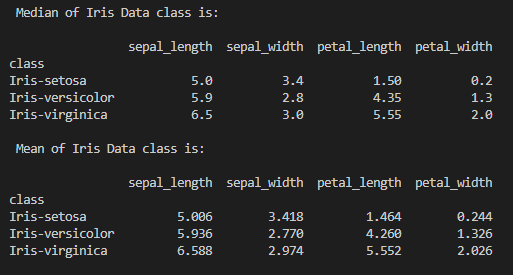


Correlation & Covariance





Median & Mean of each class



Correlation & Covariance of each class

