

Project 0

Data File Description

Each line of the file IrisData.txt contains four values representing (in order) the sepal length, sepal width, petal length, and petal width of a type of iris flower, followed by the name of the iris type: either setosa, versicolor, or virginica. Values are tab separated. There are 150 records in the file.

Assignment

Write a python program that does a single plot of sepal length versus petal length for all three varieties of iris flowers. Be sure to label your axes and print a title to your plot. Name your program yourlastname_yourfirstname_2DPlot.py. Your program should read in and open the file named IrisData.txt and write out the plot to a png file named yourlastname_yourfirstname_MyPlot.png and to the screen when executed.

Project 0 Rubric			
Criteria	Ratings		Pts
Named correctly Program named correctly (lastname_yourfirstname_2DPlot.py).	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
No error Executes without generating an error statement.	30.0 pts Full Marks	0.0 pts No Marks	30.0 pts
Input Reads in the correct file.	10.0 to >0.0 pts Full Marks	0.0 pts No Marks	10.0 pts
Output to Screen Writes a plot to the computer screen.	10.0 pts Full Marks	0.0 pts No Marks	10.0 pts
Output to file Writes correct output to yourlastname_yourfirstname_MyPlot.png.	10.0 pts Full Marks	0.0 pts No Marks	10.0 pts
Axis Lables Axes are labelled correctly with values and what they represent.	10.0 to >0.0 pts Full Marks	0.0 pts No Marks	10.0 pts
Title of plot. Plot has a title.	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
Flower markers Plot distinguishes the three types of Iris flowers with colors and/or markers.	10.0 pts Full Marks	0.0 pts No Marks	10.0 pts
Correct Plot Data is correctly plotted in space.	10.0 pts Full Marks	0.0 pts No Marks	10.0 pts
Total Points: 100.0			

What to Turn In

Upload your program file to Canvas no later than 11:59pm on September 6, 2019. **Late programs will be penalized $3n$ points where n is the number of days late.** This projects counts as 5% of your total grade.