ADDITIONAL INFO

HOW TO INSTALL GWIDGETS2?

Open Installation.R to your R studio and run the script. It will automatically install gwidgets2 along with its dependencies..

HOW TO RUN THE PROGRAM?

Open Main.R in R Studio and run the script. Make sure that the working directory is where the R files R.

WHAT IS THE CSV FORMAT?

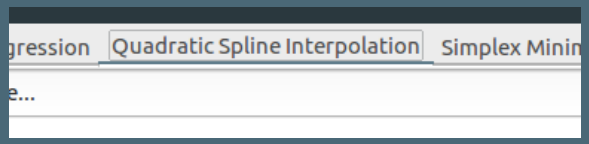
The values in the CSV must be comma separated for uniformity.

Quadratic Spline Interpolation

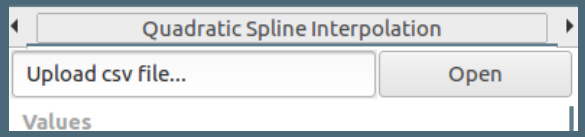
Ciara Mae Gotis
B-3L

HOW TO USE

Step 1:
Once you run the app, you will see three main tab in the upper left. Click the Quadratic Spline Interpolation.



Step 2:
Once you're in the QSI tab. Click on the button labeled Open and select the file that you want to upload. Note that only CSV files are accepted.

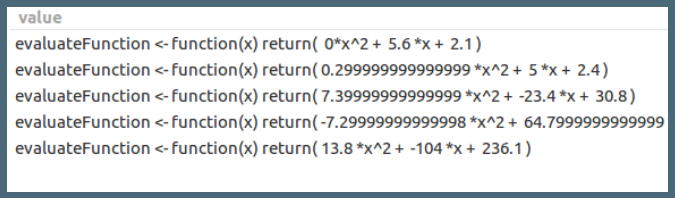


Step 3:
Now that you have uploaded the file, you will notice that a table has been updated containing the values from the csv file. You can now also view the functions per interval.

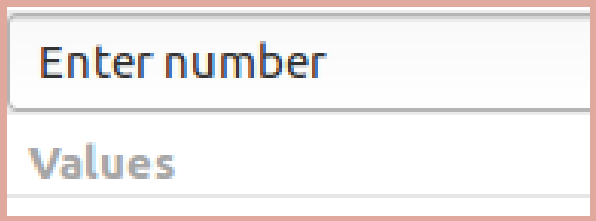
The x and y value table will appear after file selection

X1	X2
0	2.1
1	7.7
2	13.6
3	27.2

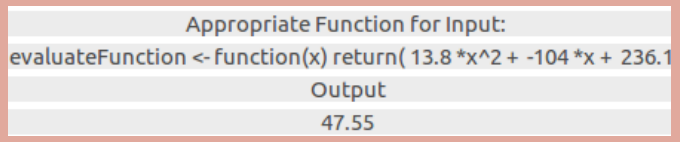
The functions per interval will also be displayed



Step 4:
Next, enter an input in the text box in order for the program to choose the appropriate function for the input. After typing the input, press ENTER.



Step 5:
After pressing ENTER, you'll notice the selected function for your input and the output of the function upon using the input is now showed on the window.



And there you have it!

ADDITIONAL INFO

HOW TO INSTALL GWIDGETS2?

Open Installation.R to your R studio and run the script. It will automatically install gwidgets2 along with its dependencies..

HOW TO RUN THE PROGRAM?

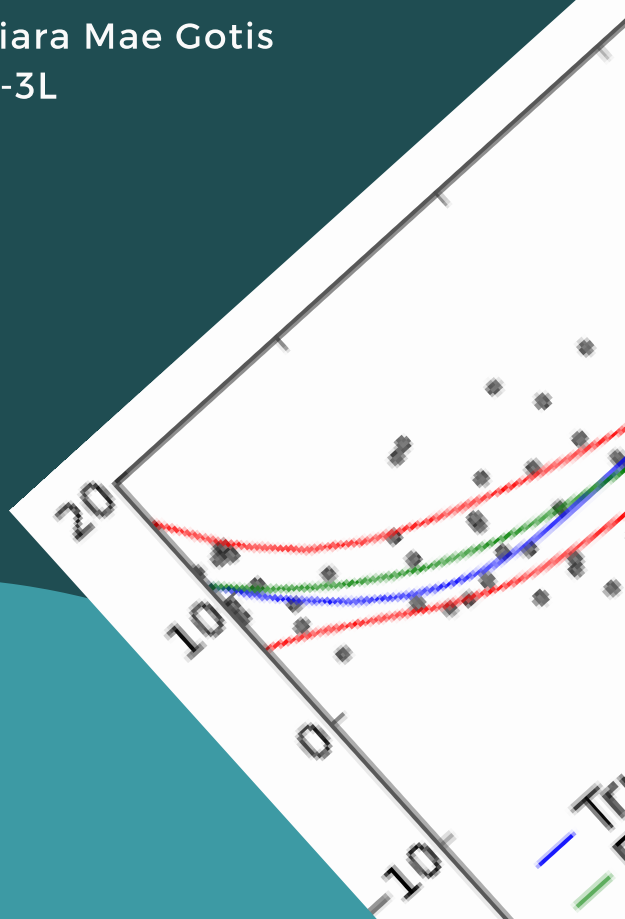
Open Main.R in R Studio and run the script. Make sure that the working directory is where the R files R.

WHAT IS THE CSV FORMAT?

The values in the CSV must be comma separated for uniformity.

POLYNOMIAL REGRESSION

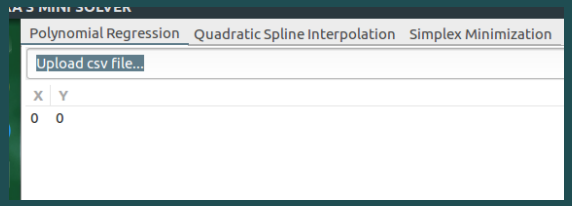
Ciara Mae Gotis
B-3L



HOW TO USE

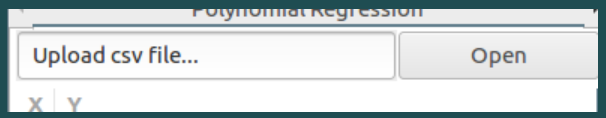
STEP 1

Open the application. You will see three main tabs on the upper left, Click on the Polynomial Regression tab.



STEP 2

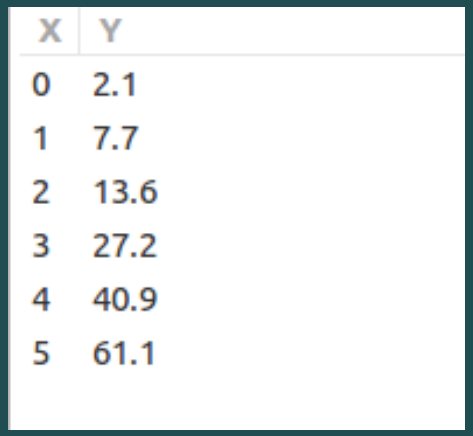
Next, click the Open button in order to select the csv file that you want to upload.



STEP 3

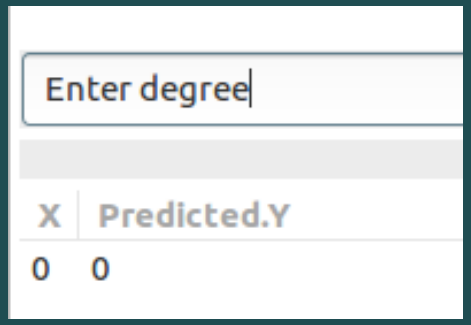
Once that you have uploaded the file, you will notice that the table is updated based on the input's x and y values. Next step is to type the degree of the function that will be produced. After typing the degree, press ENTER.

Updated x and y values

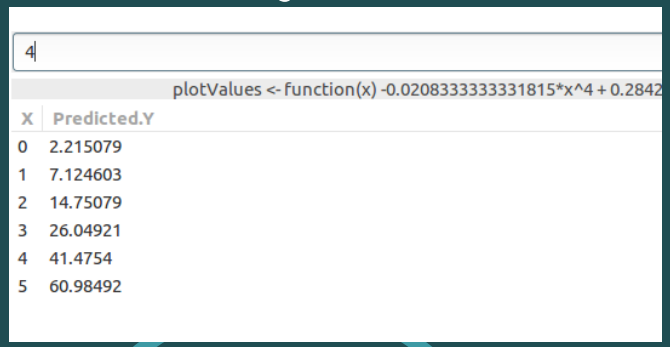


X	Y
0	2.1
1	7.7
2	13.6
3	27.2
4	40.9
5	61.1

Enter n where n is the degree of the resulting polynomial. Press ENTER.



It shows the resulting nth degree polynomial and the predicted Y values from the given X values



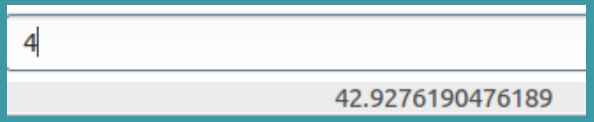
HOW TO USE

STEP 4

You an also try getting the resulting y value of a number by trying to the lowest input box. After typing, press ENTER and you will see the resulting y value.

Type the number input here then press ENTER

The result will be shown directly below the input box.



And there you have it! You now have a mini polynomial regression solver!

ADDITIONAL INFO

HOW TO INSTALL GWIDGETS2?

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HOW TO RUN THE PROGRAM?

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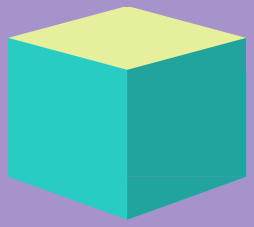
WHAT IS THE CSV FORMAT?

The values in the CSV must be comma separated for uniformity.



SIMPLEX MINIMIZATION

CIARA MAE GOTIS
B - 3 L

HOW TO USE

STEP 3: If you want to change the constraint, you can do so by typing on the input box in the table then PRESS enter.

STEP 2: Tick the checkbox if you want to see the BSS per iteration

STEP 1: Select CSV File

STEP 4: Press solve