Newtonsche Axiom plot application

Python Application enabling Graphical representations of measured Data

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# Abstract

The graphical representation of measuring data generated by scientific experiments usually has a strong influence on the analysis process. The detection of correlation and causality between measured data points is often highly simplified viewing a graphical plot compared to a pure numeric representation. The major goal of this project was to build a easy to use and all the same versatile application, which can be used by experimental groups in order to generate an 2-dimensional plot of measured data. The application is capable of comparing different measurement series distinguishing them by color. Moreover it is able to draw different representations of data such as dot diagram, linear regression, line graph and a approximated function. Measured data can be imported from a csv-file. This altogether provides an fast and straightforward alternative to comparable plotting applications with higher complexity. The knowledge which we gained, both in python programming and project management, provides a solid basis regarding future projects.