Introduction to Data Science in Python by Appsilon

Quarto Example

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In this notebook we will explore an important function

# Note code folding  
import numpy as np  
import matplotlib.pyplot as plt  
import pandas as pd

plt.figure(dpi=300)  
plt.plot(x, y, '.')  
plt.show()

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| Figure 1: Plot of [Equation 1](#eq-sinus) |

The most important insight of [Equation 1](#eq-sinus) is presented at [Figure 1](#fig-sinus). [Table 1](#tbl-sinus) contains used data.

Table 1: Experiment data

|  | x | y |
| --- | --- | --- |
| 0 | 0.000001 | 1.000000 |
| 1 | 0.517242 | 0.956003 |
| 2 | 1.034484 | 0.830945 |
| 3 | 1.551725 | 0.644327 |
| 4 | 2.068966 | 0.424588 |
| 5 | 2.586208 | 0.203878 |
| 6 | 3.103449 | 0.012288 |
| 7 | 3.620690 | -0.127318 |
| 8 | 4.137932 | -0.202876 |
| 9 | 4.655173 | -0.214463 |
| 10 | 5.172414 | -0.173235 |
| 11 | 5.689656 | -0.098300 |
| 12 | 6.206897 | -0.012279 |
| 13 | 6.724138 | 0.063473 |
| 14 | 7.241380 | 0.112983 |
| 15 | 7.758621 | 0.128303 |
| 16 | 8.275863 | 0.110239 |
| 17 | 8.793104 | 0.067155 |
| 18 | 9.310345 | 0.012264 |
| 19 | 9.827587 | -0.039888 |
| 20 | 10.344828 | -0.076911 |
| 21 | 10.862069 | -0.091244 |
| 22 | 11.379311 | -0.081488 |
| 23 | 11.896552 | -0.052187 |
| 24 | 12.413793 | -0.012243 |
| 25 | 12.931035 | 0.027580 |
| 26 | 13.448276 | 0.057402 |
| 27 | 13.965517 | 0.070553 |
| 28 | 14.482759 | 0.064965 |
| 29 | 15.000000 | 0.043353 |