Abstract

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MAKING TEACHING MATERIALS ABOUT INTERACTIVE DATA VISUALIZATION BASED ON PYTHON WITH CASE STUDIES OF INTRODUCTION TO VISUALIZATION WITH PYTHON AND CUSTOMIZED PLOTTING

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(13+ 71+ appendix)

This study aims to create teaching materials in the form of slides and videos from the book *Interactive Data Visualization with Python* which focuses *chapter 1: Introduction to Visualization with Python – Basic and Customized Plotting*. On what is visualization with python and how to customized it, this is because the complexity of the existing data and parameters requires data processing support that can process these data into visual data, where visualization is using computer technology as a support for interactive visual data depiction to strengthen observations. To present data, it is very important to use data visualization because it is easier to analyze and understand, and can explore and interact with the data.

In scientific writing, the author uses the jupyter notebook application and installs the python 3 library, namely numpy, pandas, matplotlib, and seaborn. The library is the most popular library to use. In this case, we learn about the various mistakes that can be made in various phases of the visualization process, so, ready to create interactive visualizations that are beautiful, meaningful, easy to understand, and make it easier for researchers to interact with the processed data.

References (2018-2021)