

EDU-BOOST DATA VISUALIZATION Objective Understanding Data Visualization MR. HUYNH NAM – WWW. Biangdayit.com • How to set up Python Environment WRITTEN BY MR. HUYNH NAM www.giangdayit.com

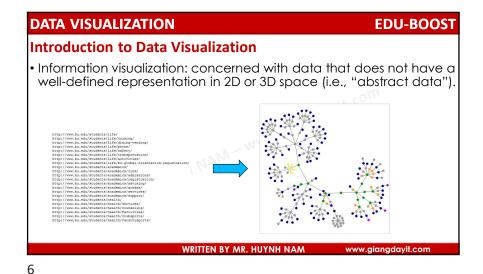
DATA VISUALIZATION EDU-BOOST Content Introduction to Data Visualization MR. HUYNH NAM – www.giangdayit.com • Anaconda 3 and Spyder plugin for Python 3.x WRITTEN BY MR. HUYNH NAM www.giangdayit.com

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Introduction to Data Visualization • Visualization: converting raw data to a form that is viewable and understandable to humans. • Scientific visualization: specifically concerned with data that has a well-defined representation in 2D or 3D space (e.g., from simulation mesh or scanner).

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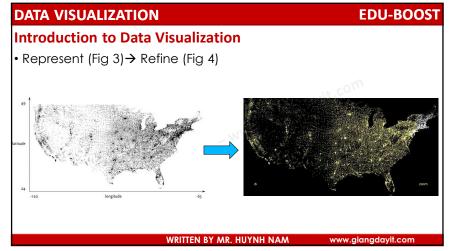


Introduction to Data Visualization

• Network visualization (Fig 1)

• Circle chart (Fig 2)

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Anaconda 3

 Conda is a powerful package manager and environment manager that you use with command line commands at the Anaconda Prompt for Windows, or in a Terminal window for macOS or Linux.

- Some tools
 - · Managing conda:
 - Verify that conda is installed and running on your system by typing: conda -version
 - Update conda to the current version. Type the following: conda update conda
 - Managing Environments
 - Managing Python
 - Managing packages

ANACONDA

• See more: https://conda.io/docs/user-guide/install/index.html

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Spyder Plugin

- Spyder, the Scientific Python Development Environment, is a free integrated development environment (IDE) that is included with Anaconda. It includes editing, interactive testing, debugging and introspection features.
- To install this package with conda run:
 - conda install -c anaconda spyder
- After you have installed Anaconda, start Spyder on Windows, macOS or Linux by running the command spyder
- See more: https://anaconda.org/anaconda/spyder



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DATA VISUALIZATION Data Visualization with Python Python is powerful to visualize data in sciencific and bussiness Popular data visualisation libraries in Python are Matplotlib, Seaborn, applot, plotly, bokeh, Dash, Leather, Altair, among others. Python gives a lot of options to visualize data, it is important to identify the method best suited to your needs from basic plotting to sophisticated and complicated statistical charts, and others. It may also depend on functionalities such as generating vector and interactive files to flexibility offered by these.



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