



Visualization for Presentation and better Understanding!

By: Iman Khani Jazani

- *AI and Data Specialist, Business Developer | AiHum*
- *Adjunct Professor | Sharif University of Technology*
- *Senior Data Scientist, Community builder | Adin*



Last Lecture

- What is scope?
 - Module
 - Library
 - Package
- Let's do it with unit test!
- Application of Programming in the Digital Age



Today

- Short Presentations
- Review the last lecture
- Data story telling
- Visualization in Python!
- **Application of Programming in the Digital Age!**



Together

Send your feedback about the
class whenever you want!



Contact me

- Gmail: ImanKhaniJazani@gmail.com
- LinkedIn: <https://www.linkedin.com/in/ImanKhaniJazani/>
- Telegram: [@IKJ1992](https://www.t.me/IKJ1992)

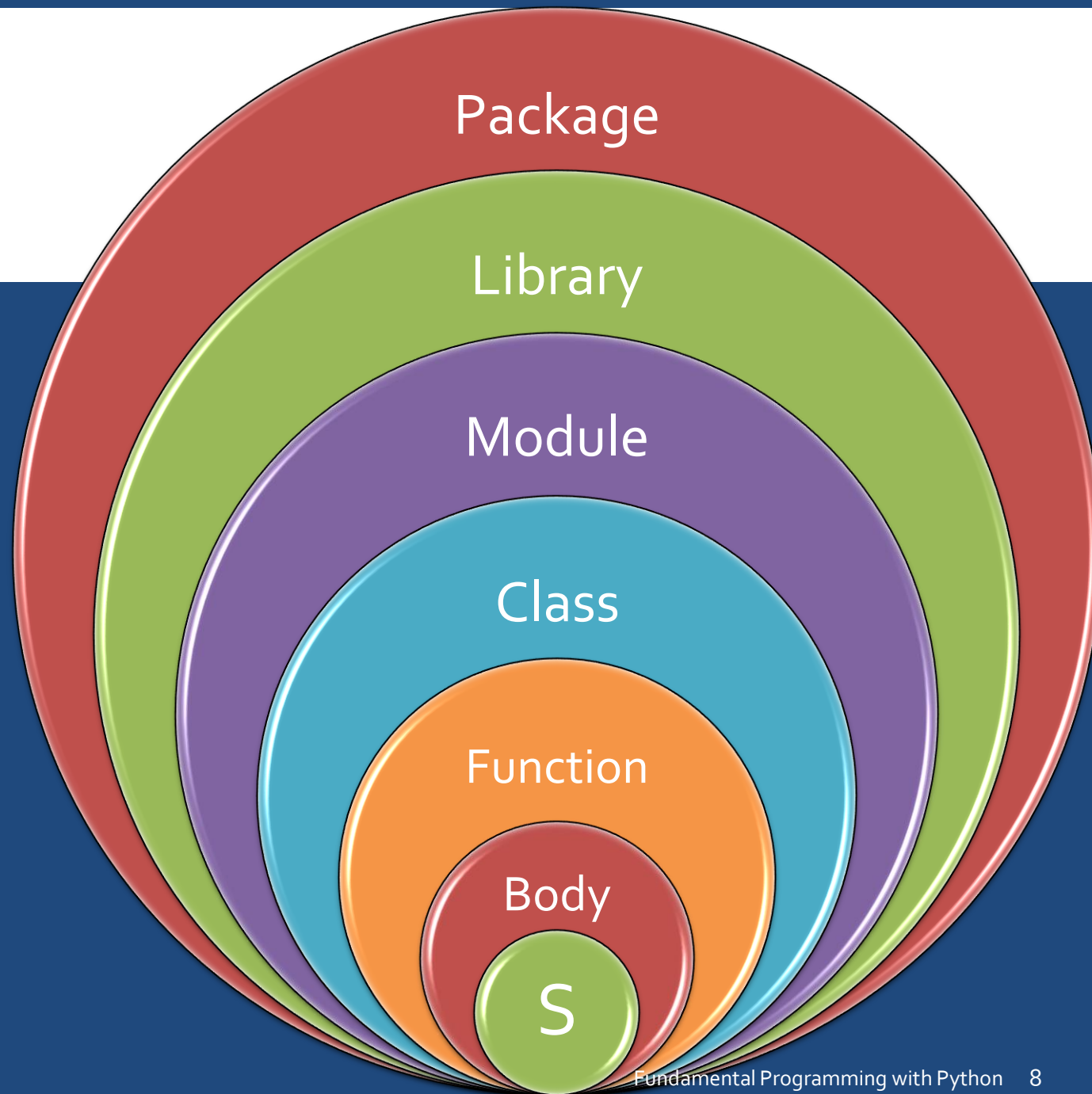


Short Presentations

Review the Last Lecture



Scope Level





Version Control in VSCode

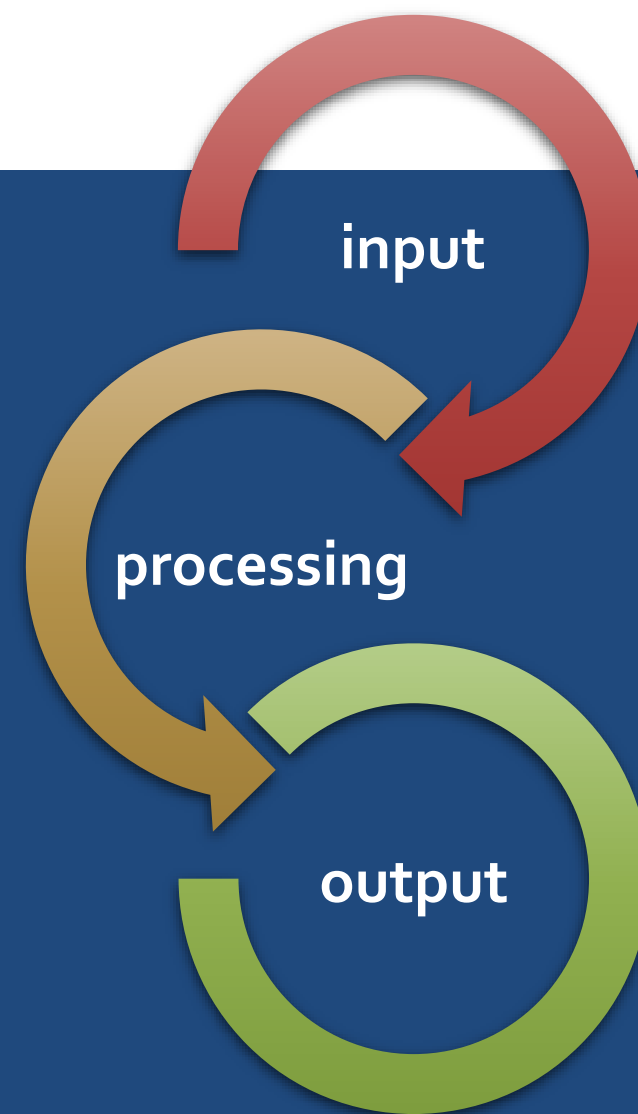
- Git
- Initial explanation about:
 - Branch
 - Unchanged
 - Changed
 - Merge
 - Modified
 - Commit
 - Sync with GitHub

Data Story Telling



What is Data? Where is Data?

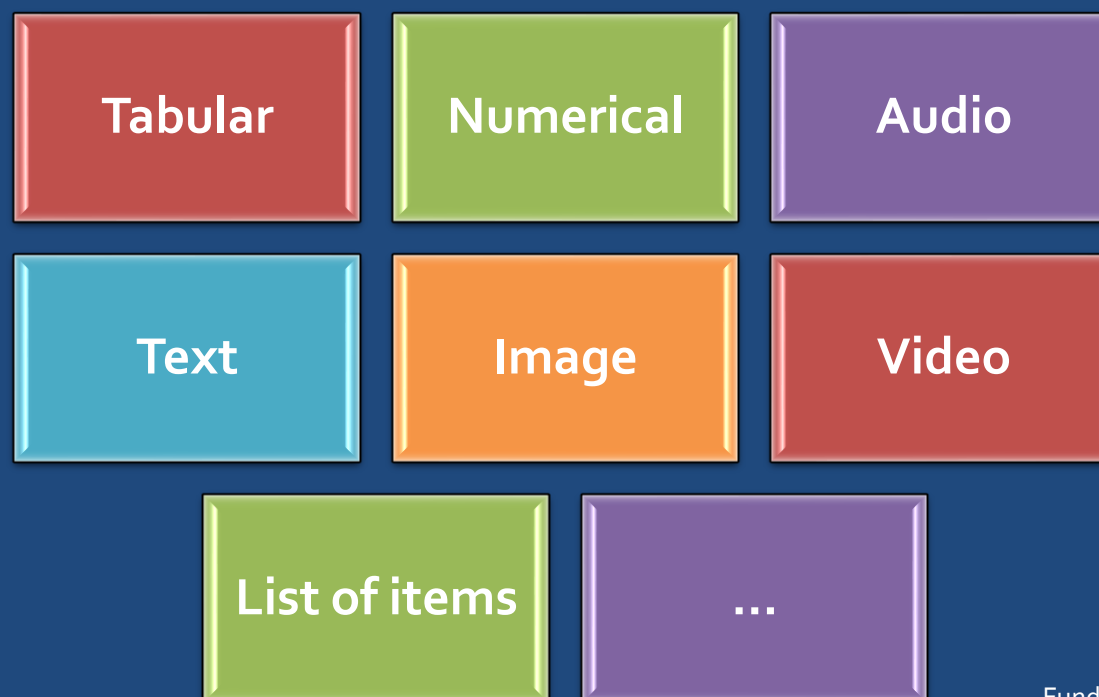
Data refers to a collection of numbers, fact, figures, statistics, or any other information for analyzing and insight extraction!





Different problem, different data!

- You can encounter with different types of data in input, output, or even in process (auxiliary)





What is data story telling (DST)?

- DST is a powerful technique for **communicating insights** from data a way that is **engaging** and **memorable**.



DST Procedure











Visualization with Python



Let's go to matplotlib.org!


 [Plot types](#) [Examples](#) [Tutorials](#) [Reference](#) [User guide](#) [Develop](#) [Releases](#)

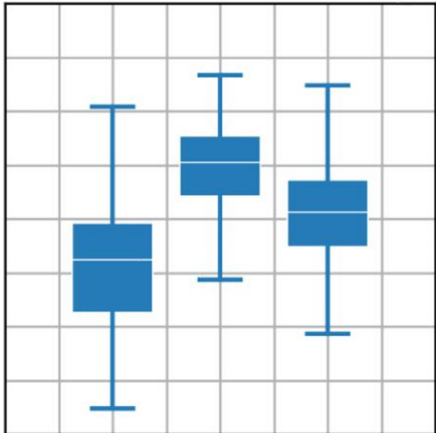
    

Matplotlib: Visualization with Python


Matplotlib is a comprehensive library for creating static, animated, and interactive visualizations in Python. Matplotlib makes easy things easy and hard things possible.

- Create publication quality plots.
- Make interactive figures that can zoom, pan, update.
- Customize visual style and layout.
- Export to many file formats.
- Embed in JupyterLab and Graphical User Interfaces.
- Use a rich array of third-party packages built on Matplotlib.

[Try Matplotlib \(on Binder\)](#) 



boxplot(X)



Application of Programming in the Digital Age!



Getfloorplan



Getfloorplan

[Our service](#)

[Your benefits](#)

[How it looks](#)

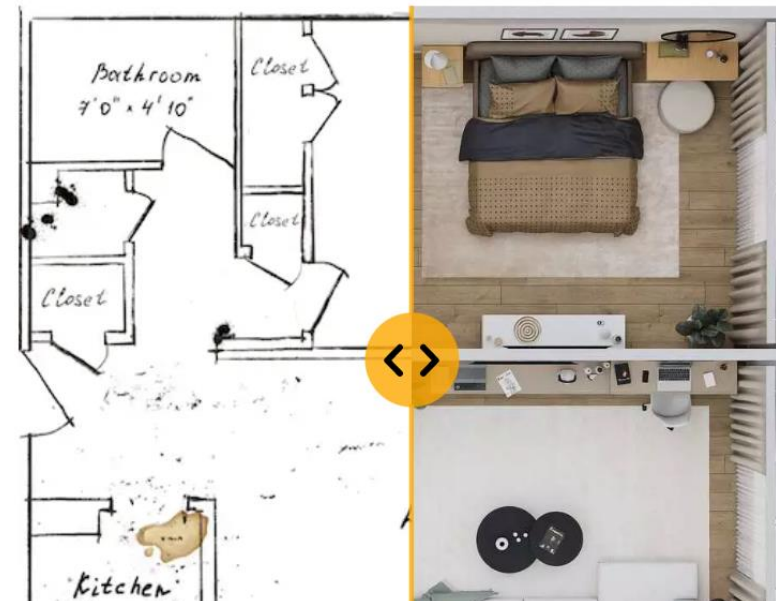
[How it works](#)

[Ask a question](#)

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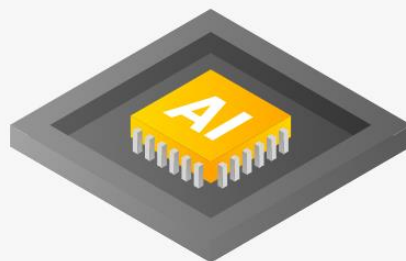
Getfloorplan

How it works?



Upload your floor plan

It takes you 1 minute to upload a plan or a sketch



AI works

Let the AI make all routine work for you



Quality Assurance

Your materials can be optionally checked by human





Lecture Resources

- https://www.w3schools.com/python/matplotlib_pyplot.asp
- <https://www.geeksforgeeks.org/data-visualization-using-matplotlib/>