



I am a Data Scientist at the Artificial Intelligence, Centre of Excellence of Fidelity Investments. My research interests include Applications of Natural Language Processing (NLP) in FinTech.

Over the last few years, I have been working on improving digital experience & financial well-being of millions of users across different industries like Financial Services, Internet and so on. In addition to being coauthor of the books NLP Fundamentals and The NLP Workshop, I have several publications in proceedings of international conferences and refereed journals.

I hold a Master's Degree in Software Systems (with specialization in Data Analytics) from BITS Pilani, India and a Bachelor's Degree in Computer Science & Engineering.

Outside work, I like to play harmonica & cajon. Being an adventure lover and a fitness buff, I believe that "Health is Wealth".

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Natural Language Processing Fundamentals



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Data and its types

Data→Information→Insights

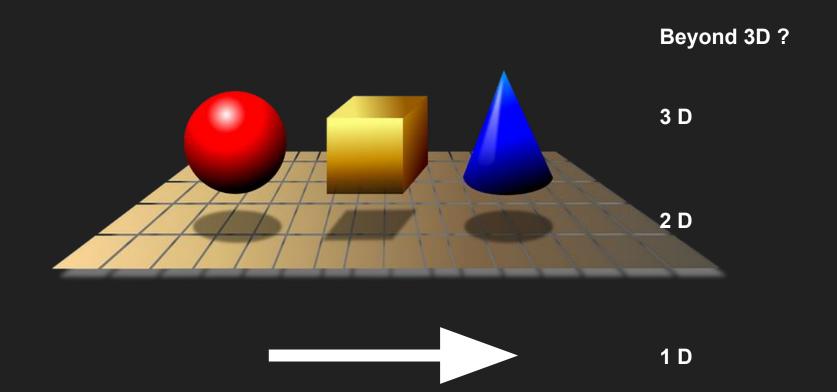




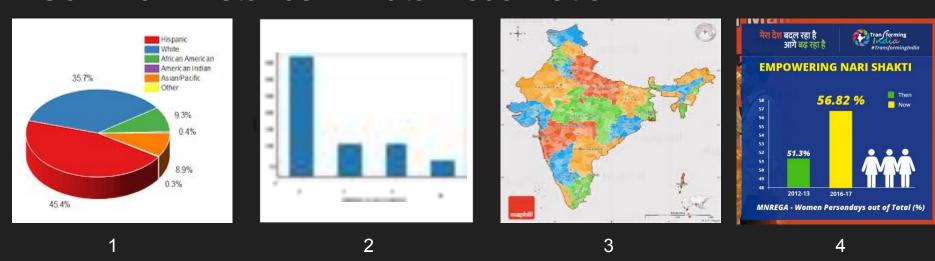
Structured (e.g. csv, excel), Semi-structured (e.g HTML, XML), Unstructured



What we can/(not) visualize?



Common mistakes in Data visualization



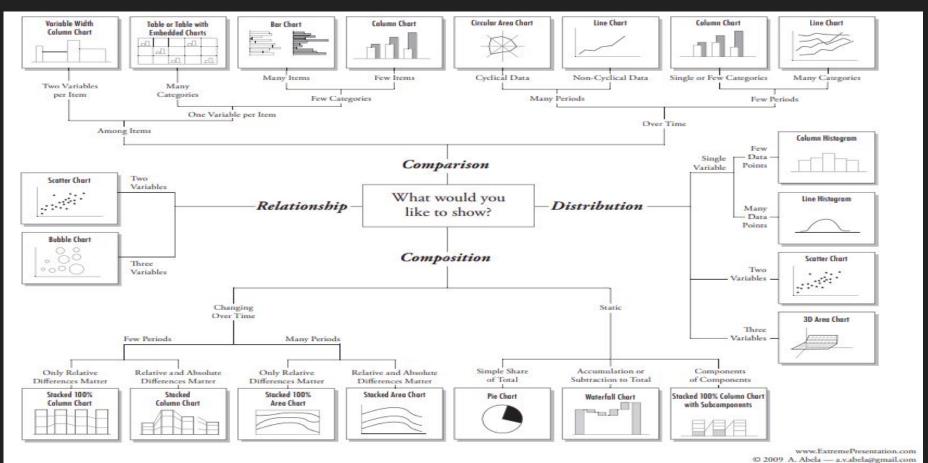
Other points to remember:

- Don't forget to label the axes
- Avoid putting too much information in one go
- For publishing in academic journals try to use shape(s) instead of colour(s).

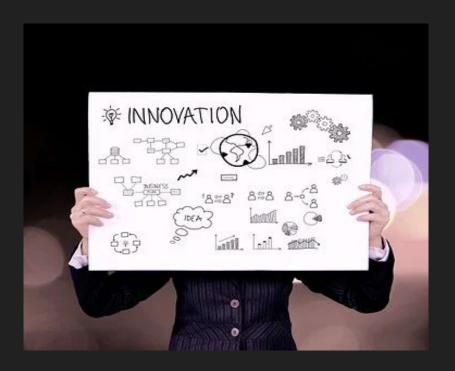
Different kinds of visualization



How to decide which visualization would be appropriate?



Case study 1: Visualizing Loan Application Data





Case study 2: Visualizing Financial Tweets

- Word Cloud
- Clusters using TSNE
- Named Entities
- Dependency trees



Dataset: https://sites.google.com/nlg.csie.ntu.edu.tw/finnum/data

Thank you

Any questions?

All the training materials are available at:

https://github.com/sohomghosh/Data_Visualization_FDP

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