

# Instant Visualization of twitter data

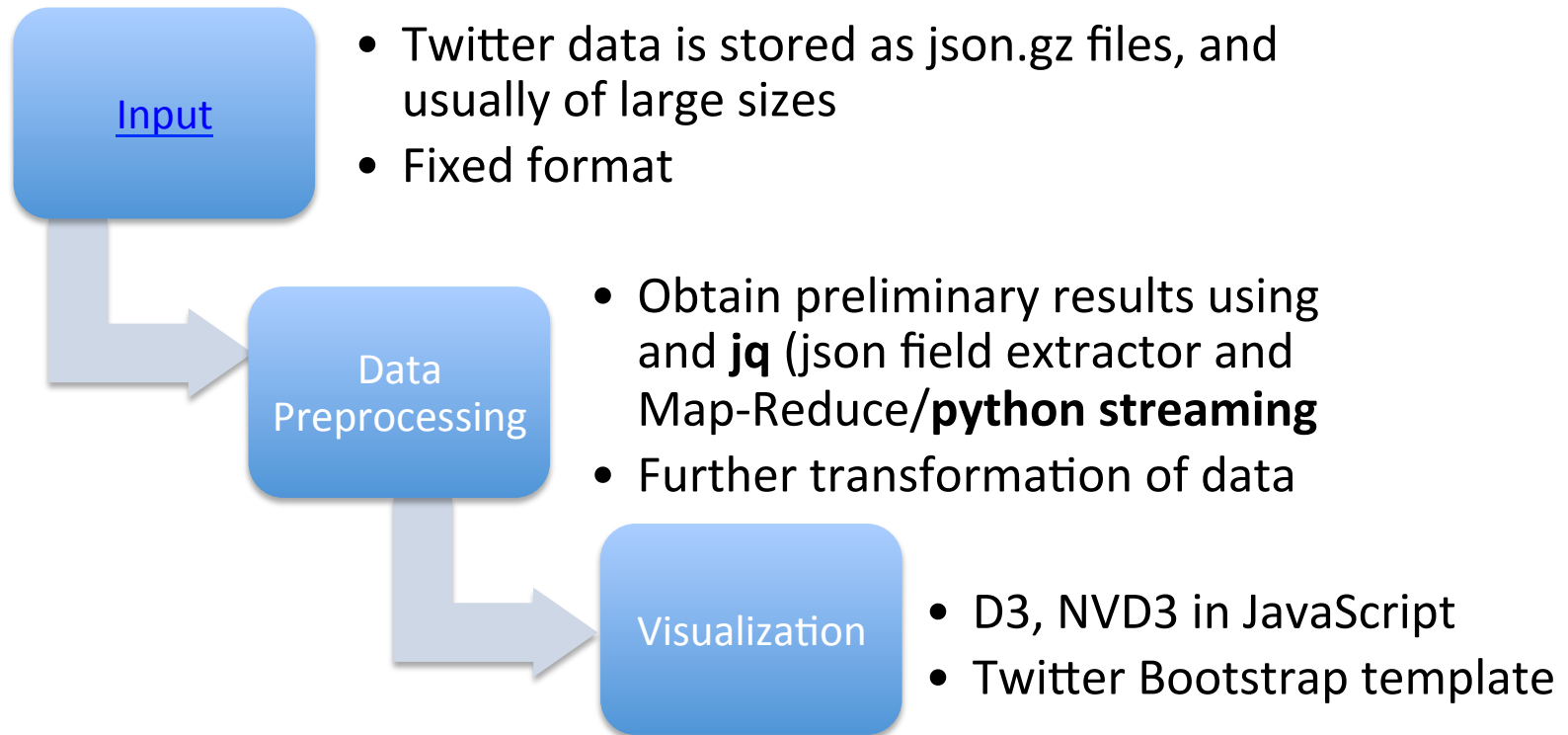
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# Our objectives

- Visualize the massive amount of twitter data (tweets) in a timely fashion
- Ideal for fast information extraction
- Reproducible in Python
- To be utilized by a variety of industries and technical/non-technical professionals

# Pipeline: How do we get there?



# Product: How does it work?

- Folder structure:

- Dahlia

- Data



Input data  
intermediate data

- Proc

- ./bashFilter



Filter out useful fields

- ./countMapreduce

- ./Proc\_d3



Process for visualization,  
output goes to Vis/data

- Vis

- ./bower\_components

- ./css

- ./data



Data directly used for visualization

- ./js

- Index.html



Visualization result in html

- run.sh



Trigger data processing

# Extracting information from data

- User information:
  - User name
  - Mentions
  - Statuses count
- Tweet information:
  - Text/Retweeted text
  - Location of the tweet (random sample with coordinates)
  - Source
  - Retweeted user

# Visualization

- Draw a Summary of the Dataset:
  - what are people talking about:
    - Word cloud
    - Popular tweets
    - Tweet sequence
  - who are sending tweets:
    - Pie charts on hashtags, geolocation, source, usermentions
    - Mention network
  - Interesting events:
    - Time series

Now take a look at our Demo!

# Following Work

- Wrapping up data pipeline
- Interactive plot
  - Field selection
  - Query function: type-in query or drop down menu
- Dashboard visualization structure
  - Make it compact: combine related plots together
  - Make it friendly: design layout