

Retrieving and Visualizing Data

Charles Severance

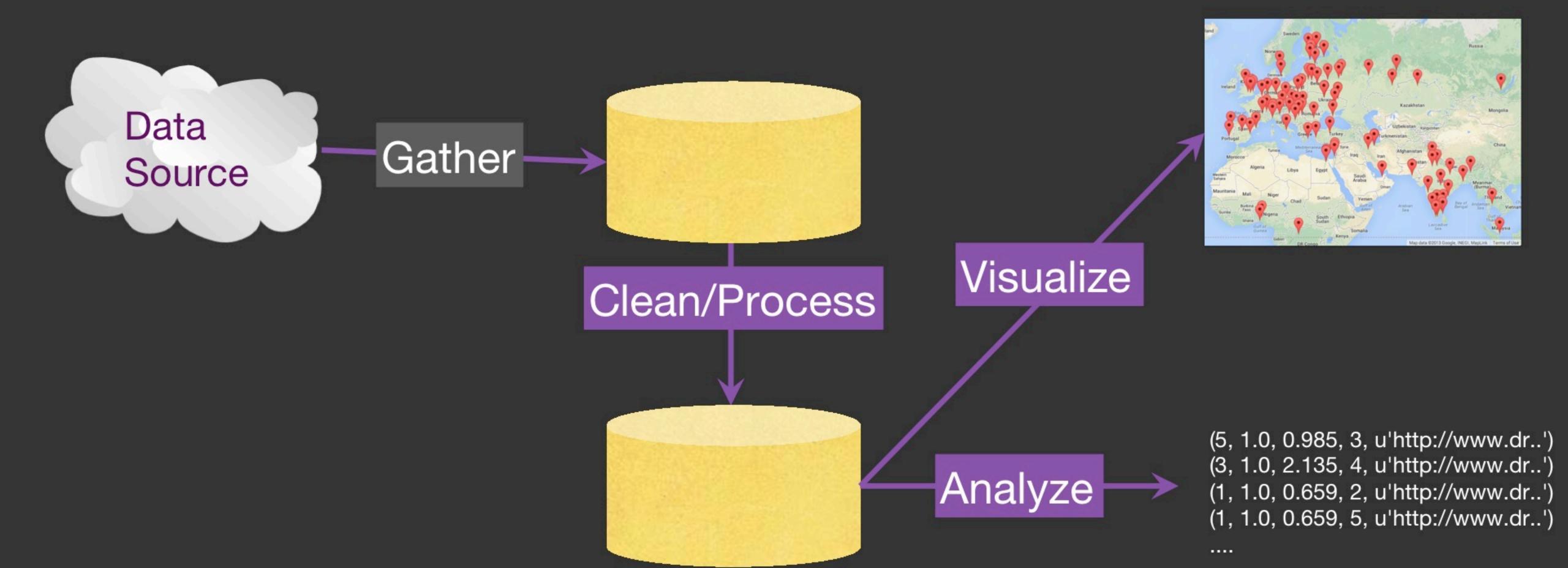


Python for Everybody www.py4e.com





Multi-Step Data Analysis





Many Data Mining Technologies

- https://hadoop.apache.org/
- http://spark.apache.org/
- https://aws.amazon.com/redshift/
- http://community.pentaho.com/

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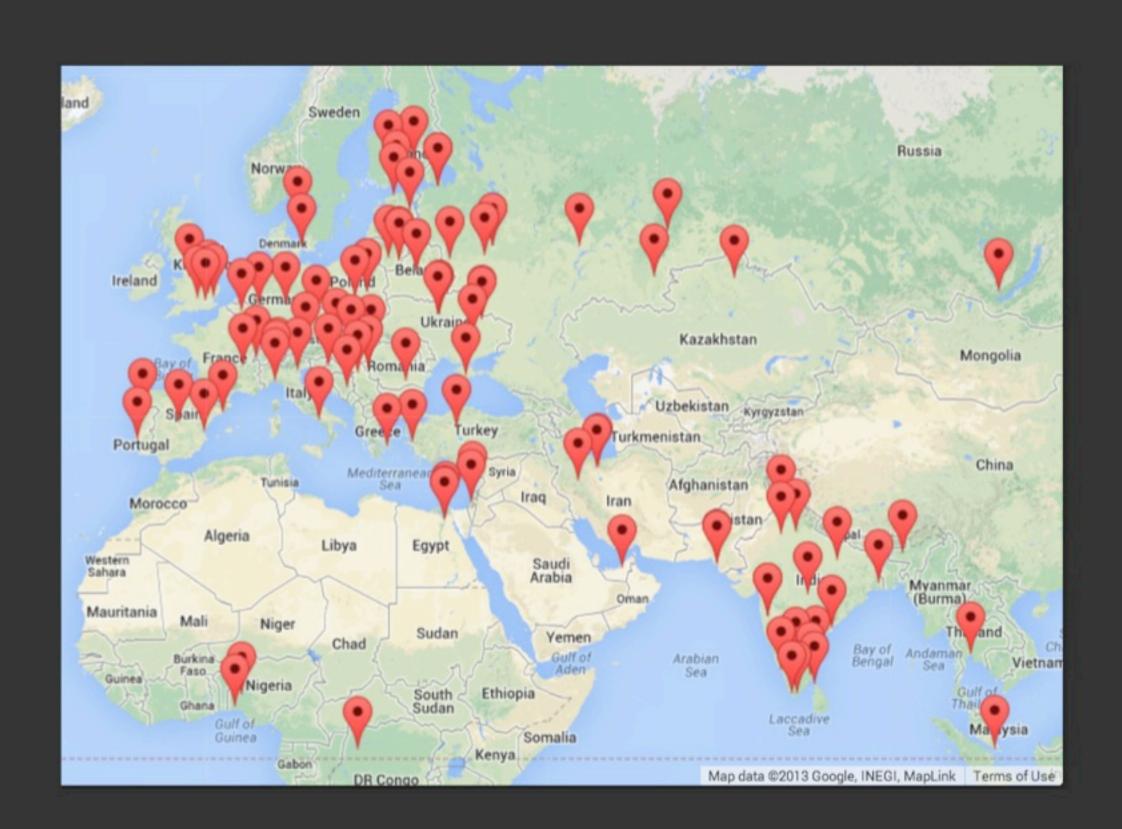
"Personal Data Mining"

Our goal is to make you better programmers – not to make you data mining experts



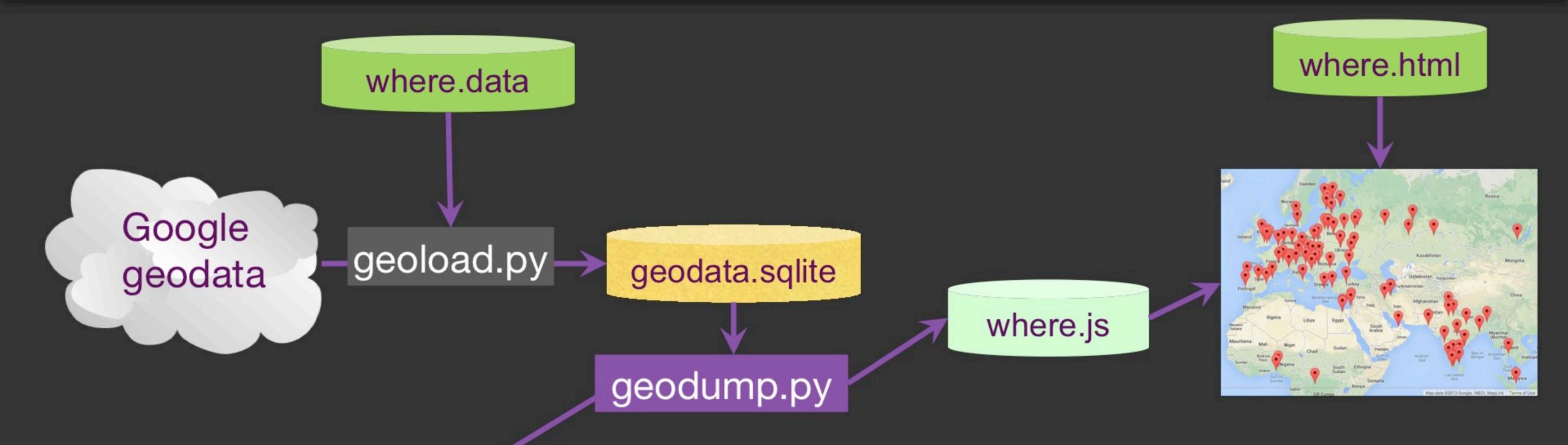
GeoData

- Makes a Google Map from user entered data
- Uses the Google Geodata API
- Caches data in a database to avoid rate limiting and allow restarting
- Visualized in a browser using the Google Maps API



http://www.py4e.com/code3/geodata.zip





Northeastern University, ... Boston, MA 02115, USA 42.3396998 -71.08975 Bradley University, 1501 ... Peoria, IL 61625, USA 40.6963857 -89.6160811

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Technion, Viazman 87, Kesalsaba, 32000, Israel 32.7775 35.0216667 Monash University Clayton ... VIC 3800, Australia -37.9152113 145.134682 Kokshetau, Kazakhstan 53.2833333 69.3833333

...

12 records written to where.js
Open where.html to view the data in a browser

http://www.py4e.com/code3/geodata.zip

Search Engine and PageRank





Acknowledgements / Contributions



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