

# Visualización de Datos Geocodificados con Python y Google Maps



Alfonso Neil Jiménez Casallas  
Ingeniero de Sistemas  
Pontificia Universidad Javeriana



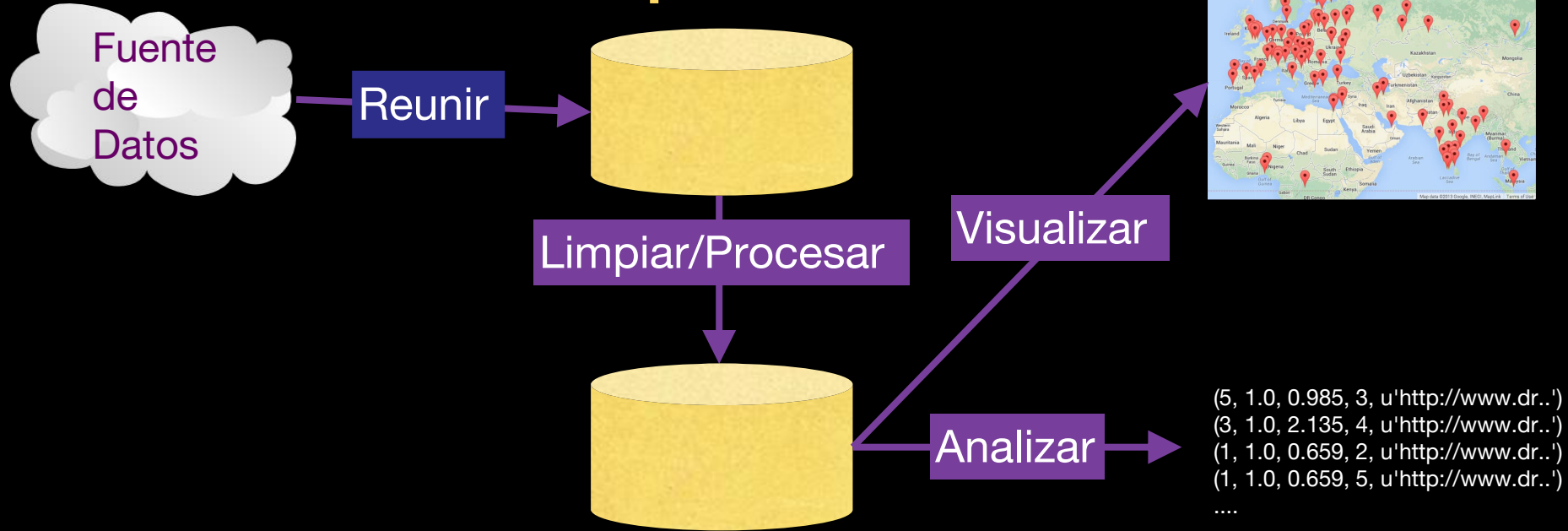
**pochito427**

**alfonso.jimenez427@outlook.com**

**<https://www.linkedin.com/in/alfonso-jimenez-3208a120/>**

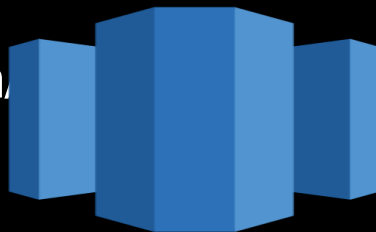
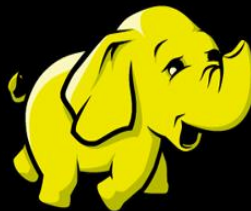


# Análisis de Datos de varios pasos



# Diferentes Tecnologías de Minería de Datos

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



# "Minería de Datos Personal"

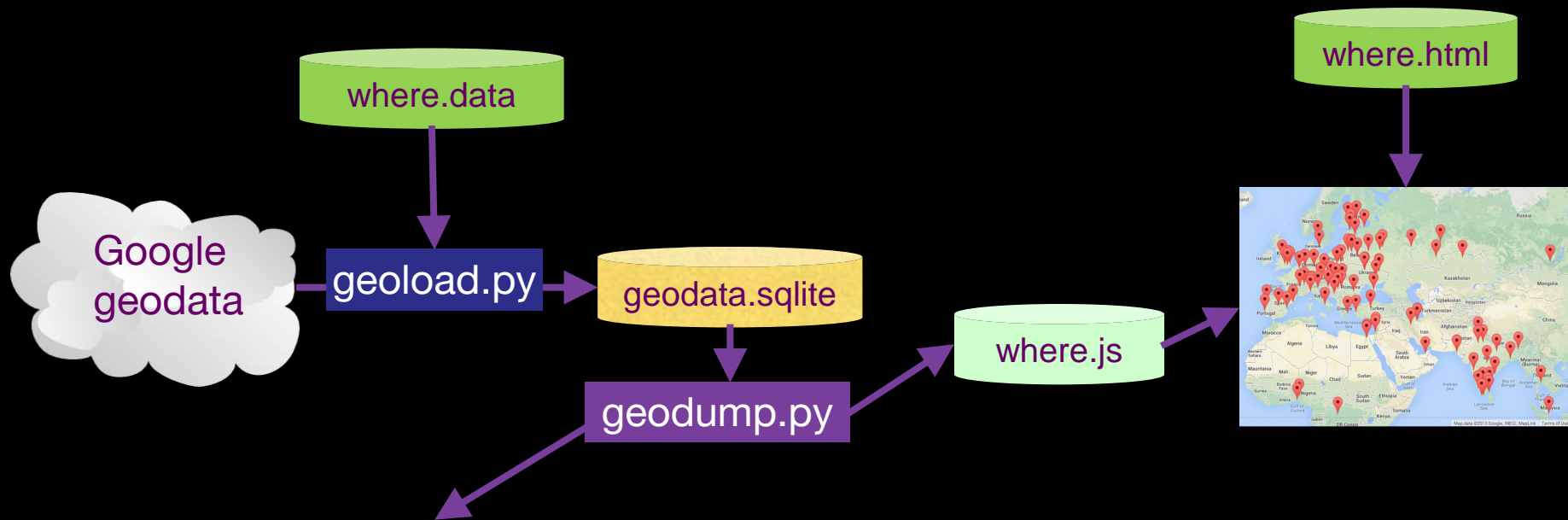
El objetivo es ser mejores desarrolladores (developers), NO es convertirnos en expertos de minería de datos.



# Geocodificación (GeoData)

- Crea un Google Map desde los datos ingresados por el usuario
- Utiliza la Google Geodata API
- Almacena temporalmente en una base de datos para evitar tasas de limitación y permite reiniciar el proceso
- Visualizado en un navegador utilizando la Google Maps API





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

...

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>

# Troubleshooting

- Geolocation API Removed from Unsecured Origins in Chrome 50

<https://developers.google.com/web/updates/2016/04/geolocation-on-secure-contexts-only>

- Google Maps JavaScript API Error Messages

[https://developers.google.com/maps/documentation/javascript/error-messages?utm\\_source=maps\\_js&utm\\_medium=degraded&utm\\_campaign=billing#api-key-and-billing-errors](https://developers.google.com/maps/documentation/javascript/error-messages?utm_source=maps_js&utm_medium=degraded&utm_campaign=billing#api-key-and-billing-errors)



## Acknowledgements / Contributions



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Initial Development: Charles Severance, University of Michigan School of Information

