

Step 1:

Acquiring Data

After this video you will be able to..

- List techniques and technologies to access and retrieve the data you need
- Describe an example scenario that accesses data from a variety of sources using different technologies

Big Data Engineering

Computational Big Data Science

ACQUIRE

PREPARE

ANALYZE

REPORT

ACT

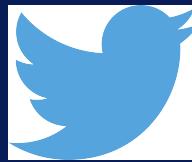
Where's the data?



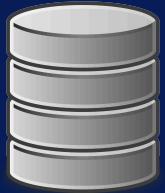
Identify suitable data

Acquire all available data

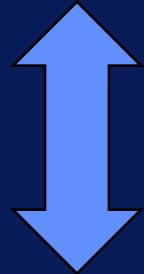
Data comes from many places...



...with many ways to access it



Traditional databases



SQL and query browsers

Text files



Ruby



JavaScript



Perl

Scripting languages

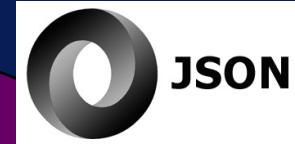
SOAP



Remote data



REST



WebSocket

Web Services

NoSQL storage



API



WebServices

Acquiring Data From WIFIRE

Historical weather

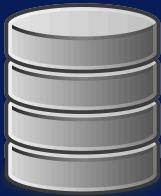


Current weather



Real-time tweets
near fires





Traditional databases

SQL and query browsers



Text files

Scripting languages



Remote data

Web Services



NoSQL storage

Web Services

Programming Interfaces