

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



JavaScript



Scripting languages

Remote data

SOAP



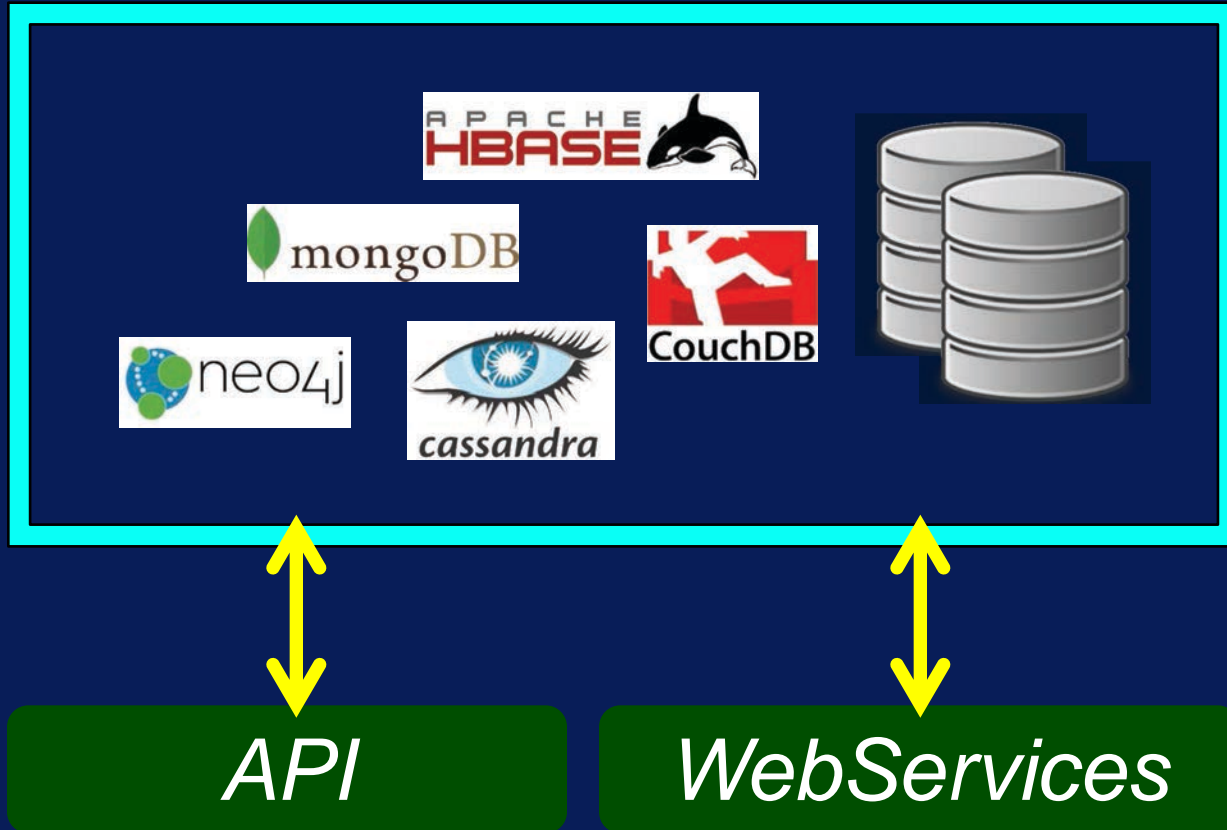
REST



WebSocket

Web Services

NoSQL storage



Acquiring Data From WIFIRE

Historical weather

SQL



Current weather

WebSocket



Real-time tweets
near fires

REST





Traditional databases

SQL and query browsers



Remote data

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Text files

Scripting languages



NoSQL storage

Web Services

Programming Interfaces