

INTRO TO DATA SCIENCE

DATABASES

I. DATABASES

II. SQL LABS

I. DATABASES

- Tabular data
- Nested data
- Graph data

Tabular data

- Relational DataBase Management Systems (RDBMS) – broadly implementing SQL
- Serverless/embedded: SQLite, H2, etc.
- Client-Server: MySQL/MariaDB, PostgreSQL, Oracle, MSSQL, etc.

Nested data

- Document stores: MongoDB, CouchDB, etc.
- Serialization schemes, often on HDFS
- Key-value stores: Redis, Voldemort, etc.
- Blurred Lines: Object-Relational Mapping, Cassandra, column orientation, BigTable/Hbase, etc.

Graph data

- Client-server (general): Neo4j, perhaps more
- Client-server (triple store): AllegroGraph, etc.
- Query languages: SPARQL, RDF++, Prolog...

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