

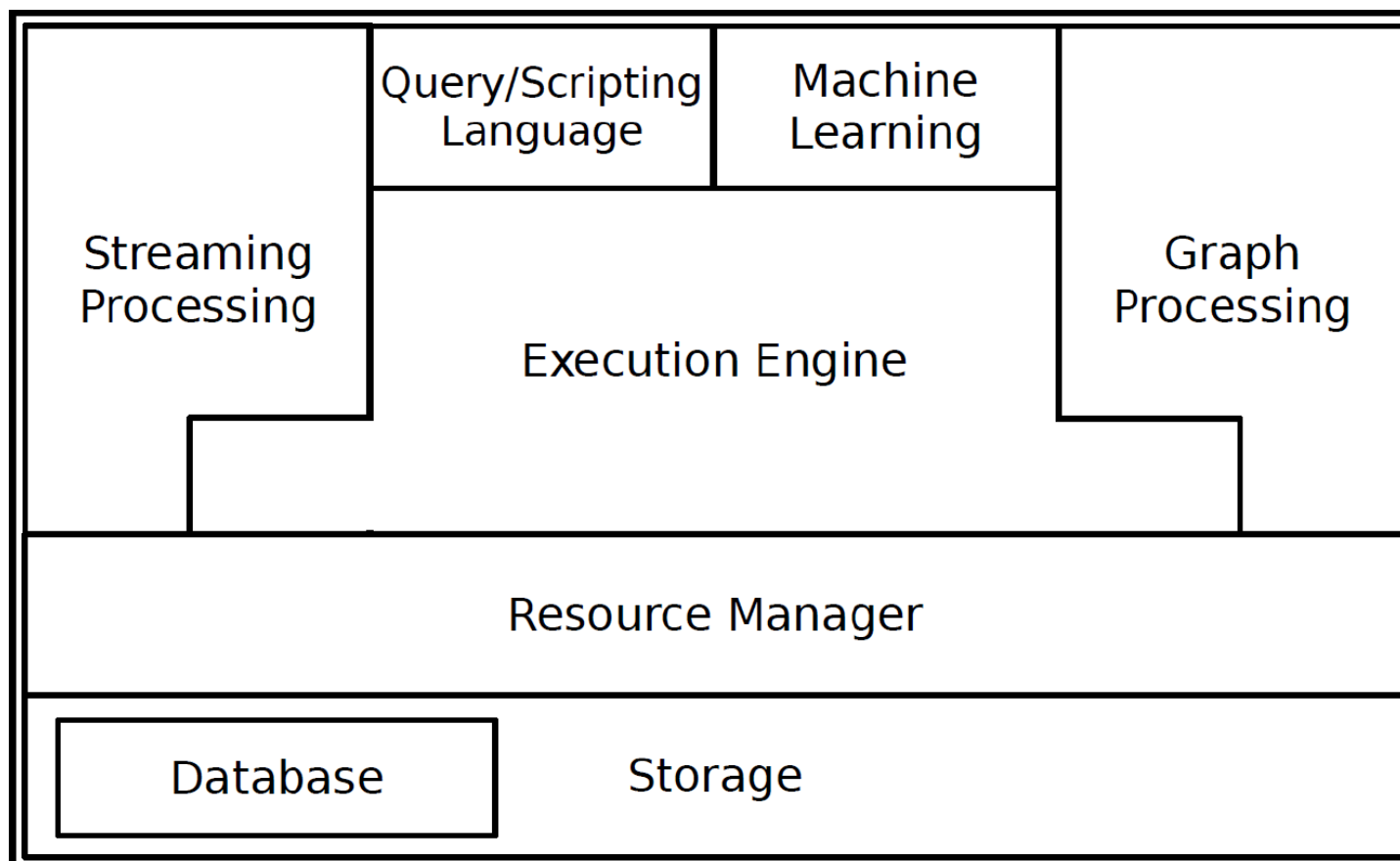
Data Centric Systems and Networking Wrapup

Eiko Yoneki

University of Cambridge Computer Laboratory

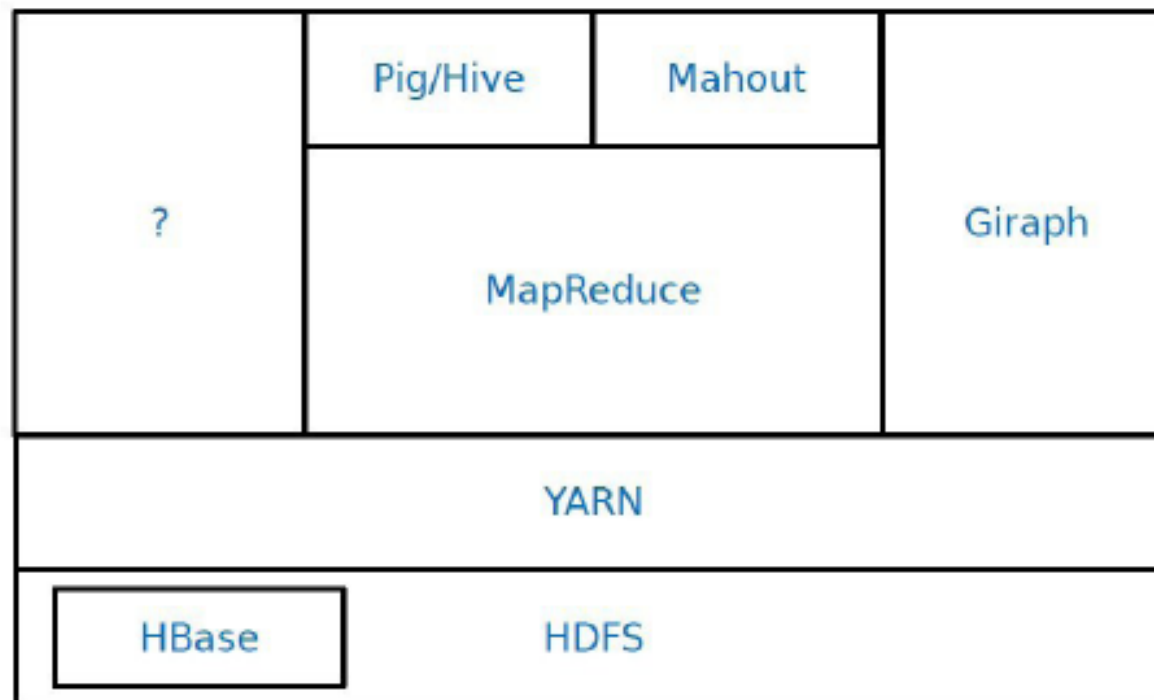


Big Data Analytics Stack



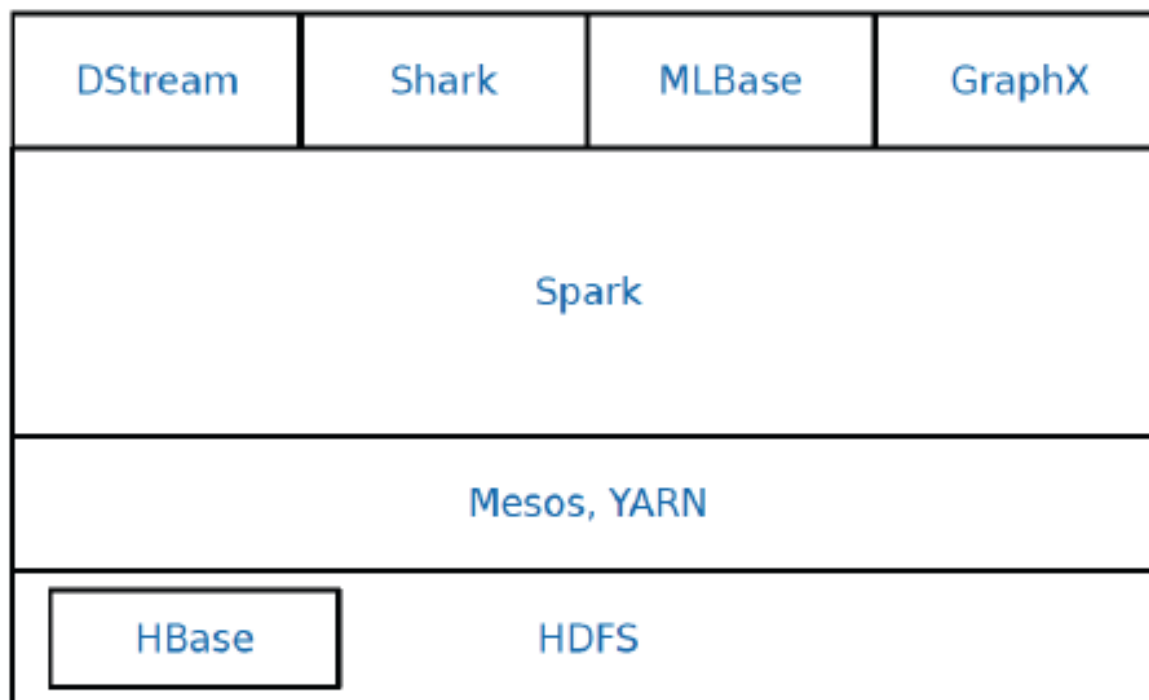


Hadoop Big Data Analytics Stack



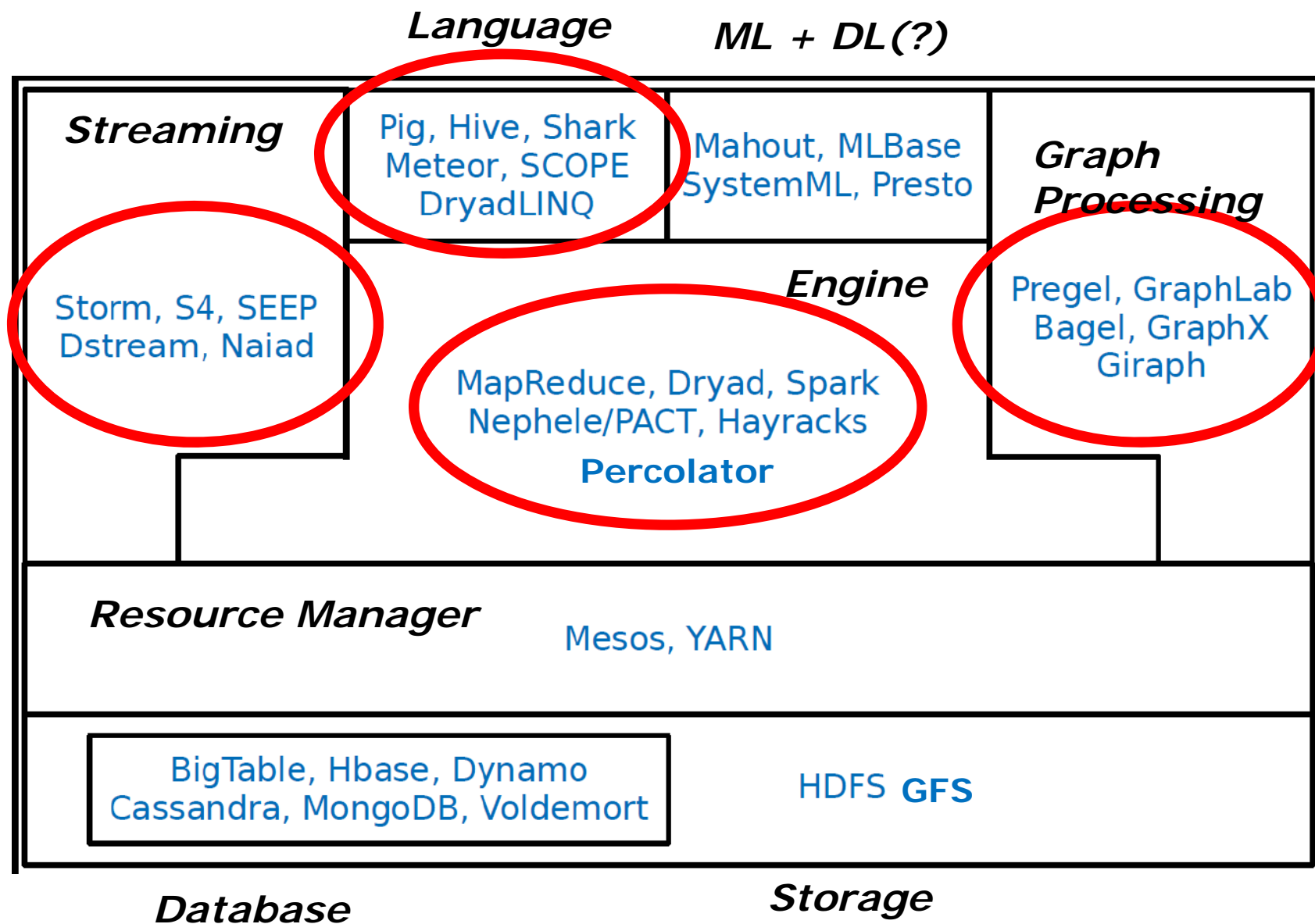


Spark Big Data Analytics Stack





Big Data Analytics Stack



Large-scale Data Processing Technologies



- Distributed infrastructure or MC/HPC
 - Cloud (e.g. Infrastructure as a service)
- Storage
 - Distributed storage (e.g. Amazon S3)
 - HDFS, GFS, Dynamo - HBase, BigTable
- Data model/indexing
 - High-performance schema-free database
- Programming Model
 - Distributed processing (e.g. MapReduce, Pregel (BSP), or more complex data-flow programming)
- Operations on big data
 - Analytics – Realtime Analytics

R212 Focus: **Data driven approach** is key !

Data Centric Networking

- Which session's topic did you enjoy the most?
- What topic do you want to explore if you go on research work?
- What do your future vision of data centric systems and networking?

Data Centric Systems and Networking

- That's all!
- Thanks for working hard in this course!

