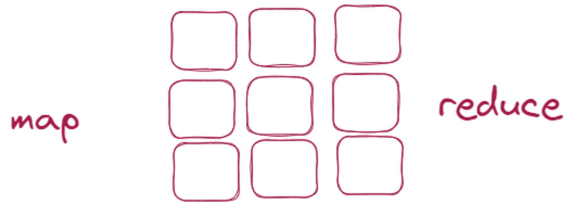




Prototype DDB



Larry Page

Google Search Engine

JS, Popups

2001 2002???

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Memory

GFS

K V



Shard ↗ Horizontal
↘ Vertical

MapReduce

Computation

Yahoo

Hadoop 1.0

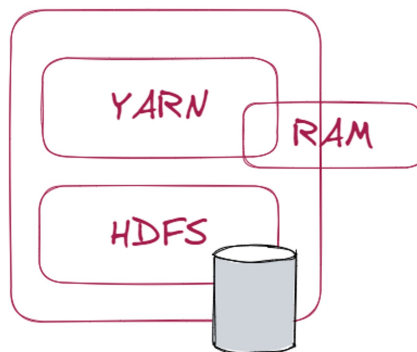
Hadoop

1.8

2013

2.0

2.7



Big Data

Ingestion



Ingestion

