RDD Abstraction

- immutable, partitioned collection of [[Key-Value Pairs]]
- fault tolerance via lineage-based re-computation

Operations

- coarse-grained deterministic operations
 - transformations
 - actions

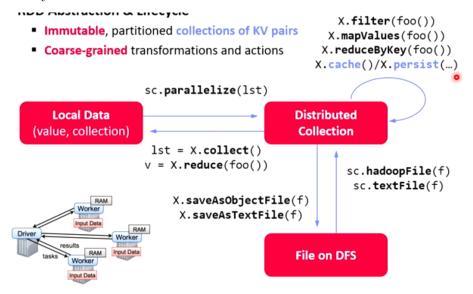
Туре	Examples
Transformation (lazy)	<pre>map, hadoopFile, textFile, flatMap, filter, sample, join, groupByKey, cogroup, reduceByKey, cross, sortByKey, mapValues</pre>
Action	<pre>reduce, save, collect, count, lookupKey</pre>

Distributed Caching

- fraction of worker memory used for caching
- different storage levels

(e.g., mem/disk x serialization x compression)

RDD Lifecycle



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