Locality

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  - Since cloud has hierarchical topology (e.g., racks)
  - For server-fault-tolerance, GFS/HDFS stores 3 replicas of each of chunks (e.g., 64 MB in size)
    - For rack-fault-tolerance, on different racks, e.g., 2 on a rack, 1 on a different rack
  - Mapreduce attempts to schedule a map task on
    1. a machine that contains a replica of corresponding input data, or failing that,
    2. on the same rack as a machine containing the input, or failing that,
    3. Anywhere
  - Note: The 2-1 split of replicas is intended to reduce bandwidth when writing file.
    - Using more racks does not affect overall Mapreduce scheduling performance