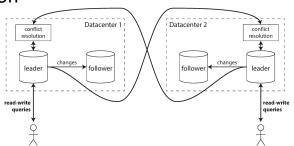
## **MULTI-LEADER REPLICATION**

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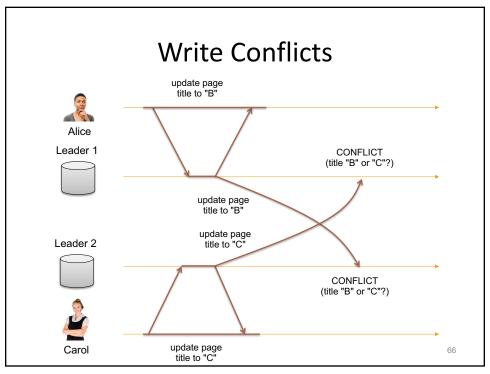
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## **Use Cases**

- Multi-datacenter operation
  - Latency
  - Datacenter outages
  - Network problems
- Offline operation
  - Mobile
- Collaborative editing



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## Write Conflicts

- Synchronous Conflict Detection
- Conflict Avoidance
  - All writes for a record to the same leader
- Convergent Conflict Resolution
  - Last Write Wins (LWW)
  - Highest numbered replica
  - Merge updates together
  - Custom conflict resolution

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