

# Log Analysis

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# 1 The Log: What every software engineer should know about real-time data's unifying abstraction

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## 1.1 What is a log?

- Record of ordering activities.
- Logs in databases: A database uses a log to write out information about the records they will be modifying, before applying the changes to all the various data structures it maintains.
- Logs in distributed systems:**State Machine Replication Principle:**  
If two identical, deterministic processes begin in the same state and get the same inputs in the same order, they will produce the same output and end in the same state.