Uni Distributed Systems Topics

Topics for the distributed systems course at HdM Stuttgart

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Contributing

These study materials are heavily based on professor Kriha's "Verteilte Systeme" lecture at HdM Stuttgart and prior work of fellow students.

Found an error or have a suggestion? Please open an issue on GitHub (github.com/pojntfx/uni-distributedsystems-notes):



Figure 1: QR code to source repository

License



Figure 2: AGPL-3.0 license badge

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Topics

Topics

- · I/O Process Models
- · Delivery Guarantees
- Replication, Consensus, Eventual Consistency, FIFO, Reliable Broadcasting
- Synchronization
- · Correctness, Liveness, Complexity, Failure Modes
- · Fan-Out Architecture
- · Two-Phase Commits (2PC)
- · Sharding, Partitioning
- · Information and Distribution Architecture
- Concrete design proposal, e.g. Twitter (Scalability, availability, security)