DESIGNING Data-Intensive Applications

The big ideas behind reliable, scalable & maintainable systems

RELIABILITY · SCALABILITY · MAINTAINABILITY

RELIABILITY — Tolerating hardware & software faults. Human error

SCALABILITY — Measuring load & performance. Latency percentiles, throughput

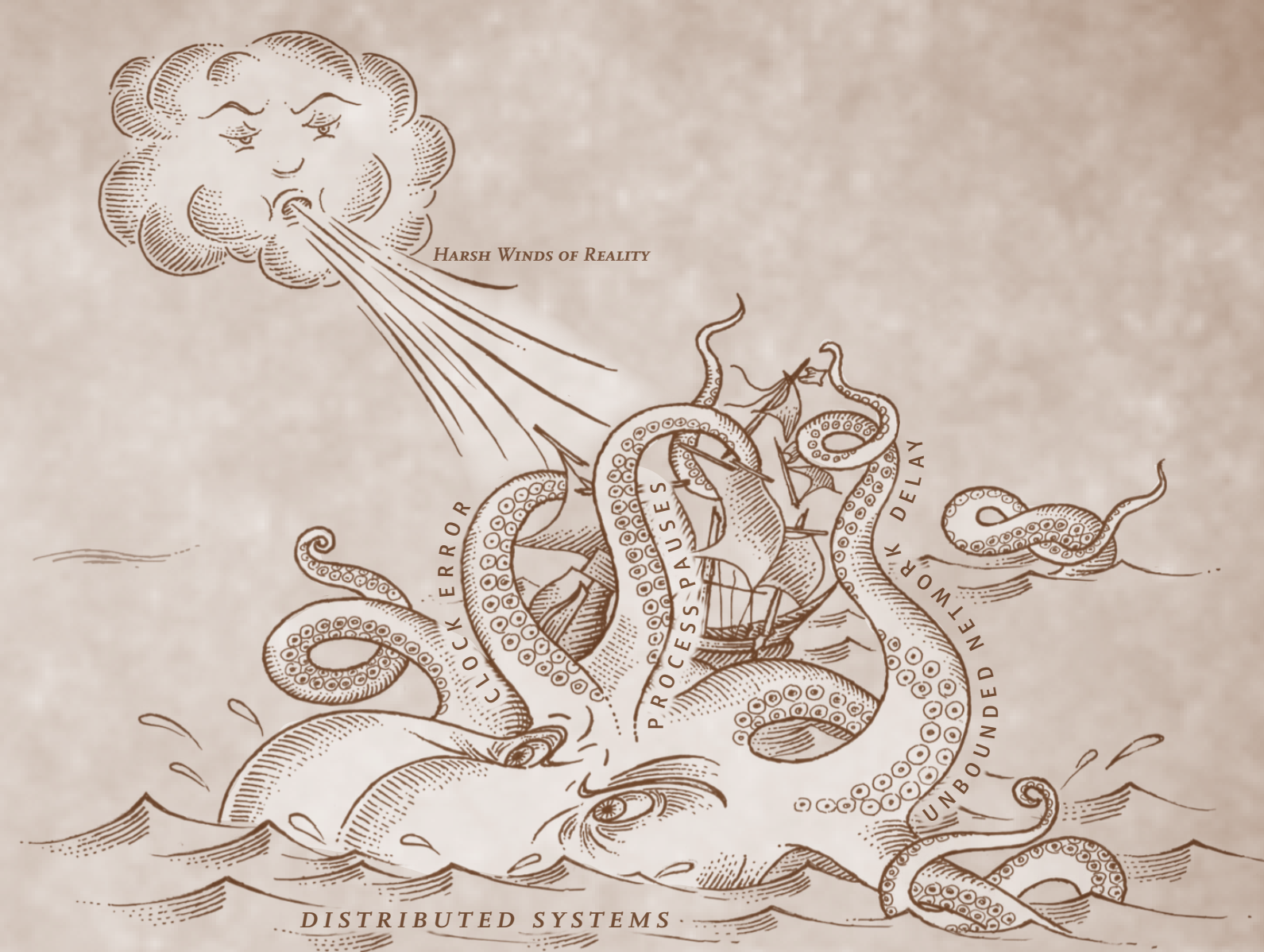**MAINTAINABILITY** — Operability, simplicity & evolvability

Chapter 1. Reliable, Scalable, and Maintainable Applications

Chapter 2. Data Models and Query Languages
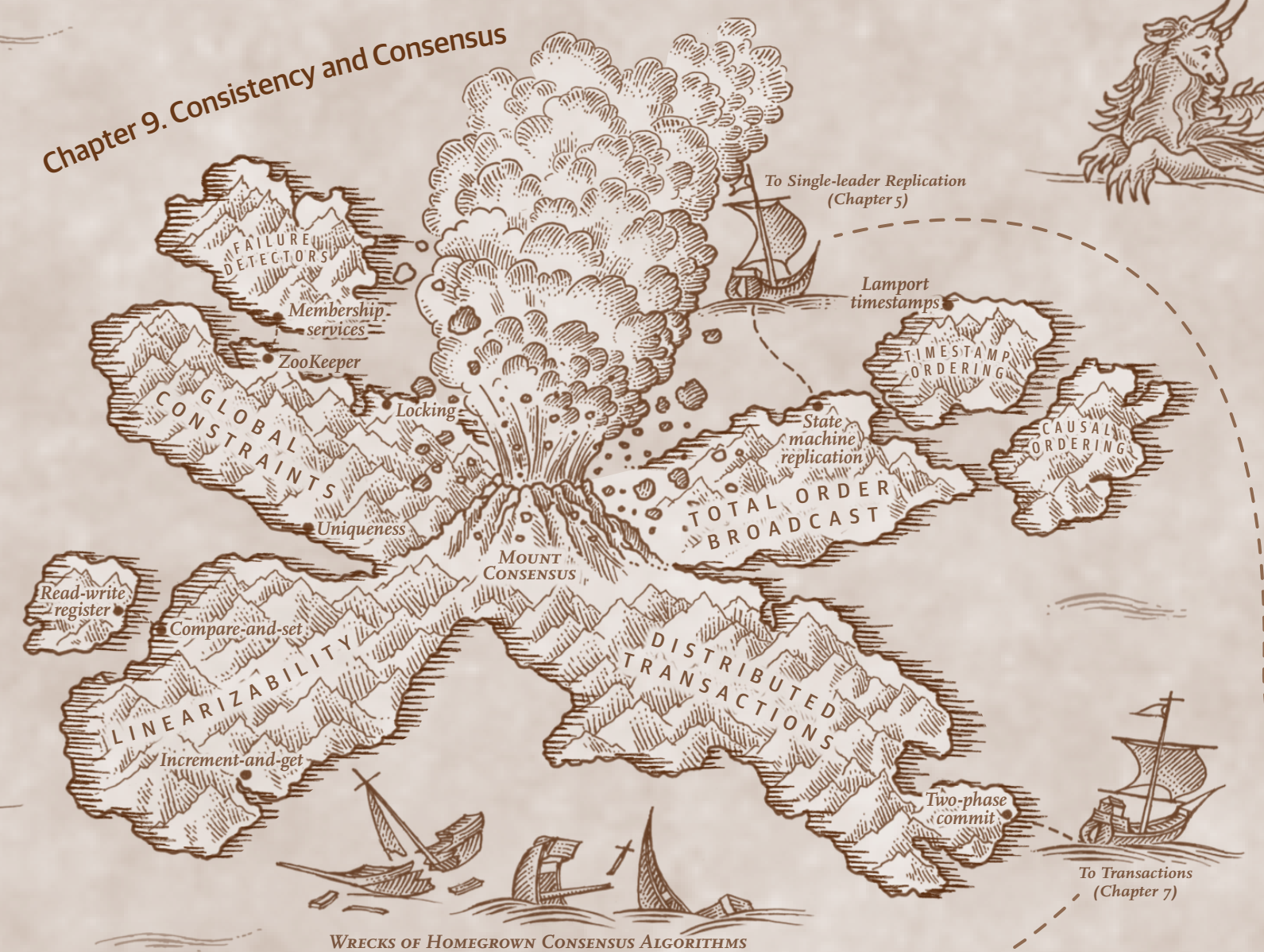
Chapter 3. Storage and Retrieval

Chapter 4. Encoding and Evolution

Chapter 5. Replication

Chapter 6. Partitioning

Chapter 7. Transactions

Chapter 8. The Trouble with Distributed Systems

Chapter 9. Consistency and Consensus

Chapter 10. Batch Processing

Chapter 11. Stream Processing
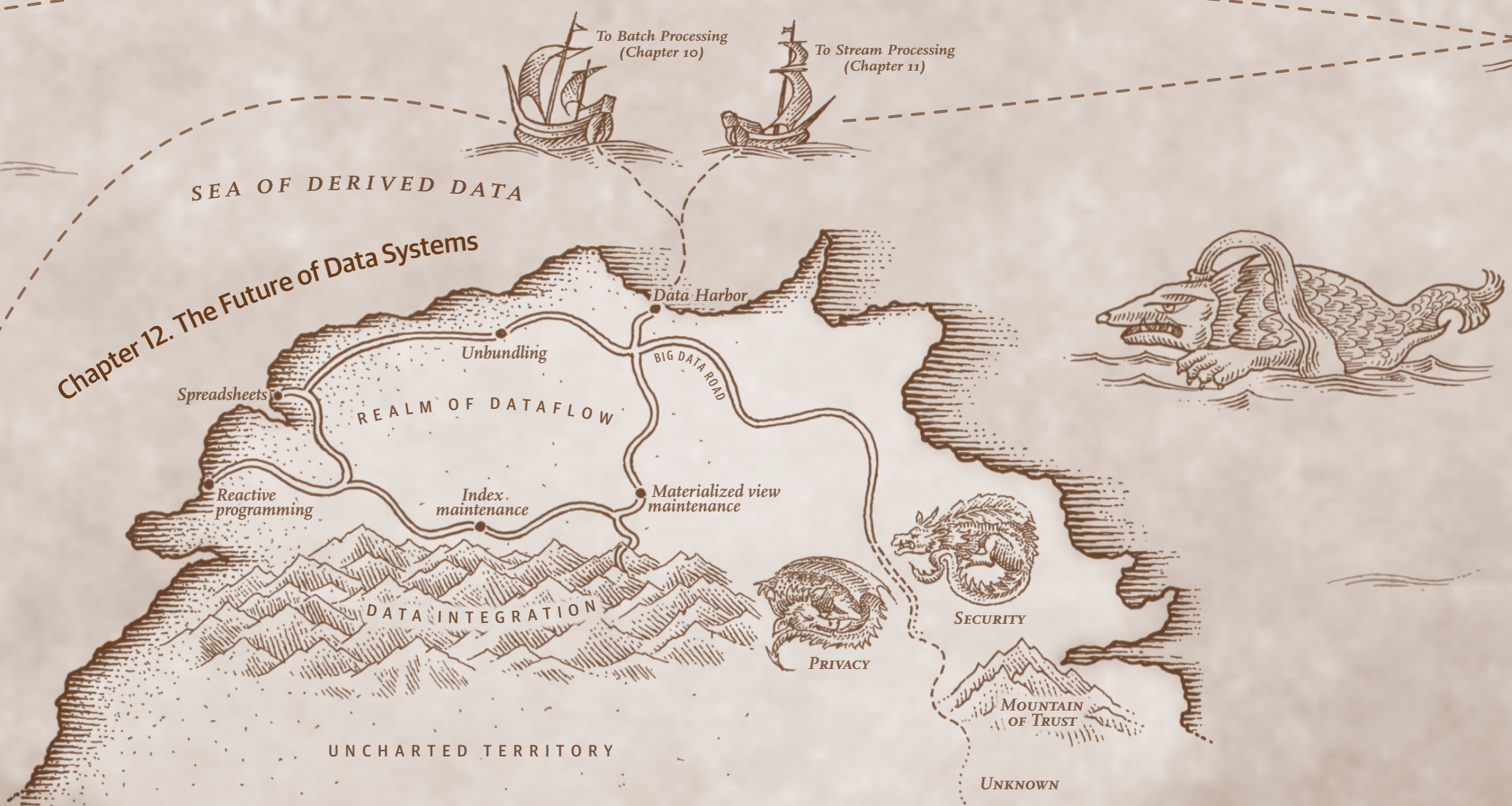
Chapter 12. The Future of Data Systems