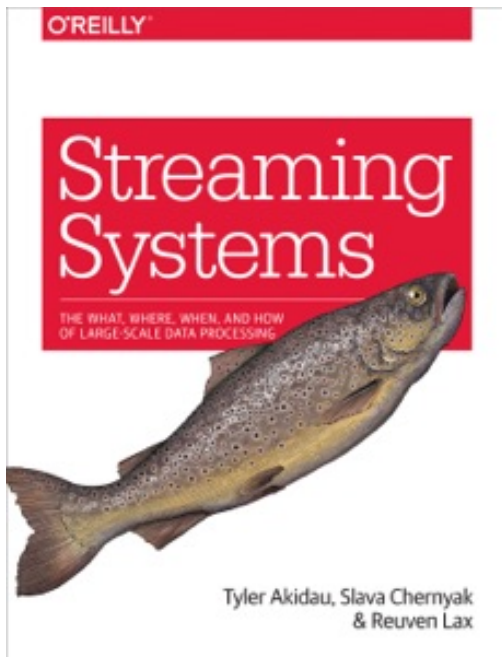


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Expanded from Tyler Akidau's popular blog posts "Streaming 101" and "Streaming 102", this book takes you from an introductory level to a nuanced understanding of the what, where, when, and how of processing real-time data streams. You'll also dive deep into watermarks and exactly-once processing with co-authors Slava Chernyak and Reuven Lax.

You'll explore:

How streaming and batch data processing patterns compare  
The core principles and concepts behind robust out-of-order data processing  
How watermarks track progress and completeness in infinite datasets  
How exactly-once data processing techniques ensure correctness  
How the concepts of streams and tables form the foundations of both batch and streaming data processing  
The practical motivations behind a powerful persistent state mechanism, driven by a real-world example  
How time-varying relations provide a link between stream processing and the world of SQL and relational algebra

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