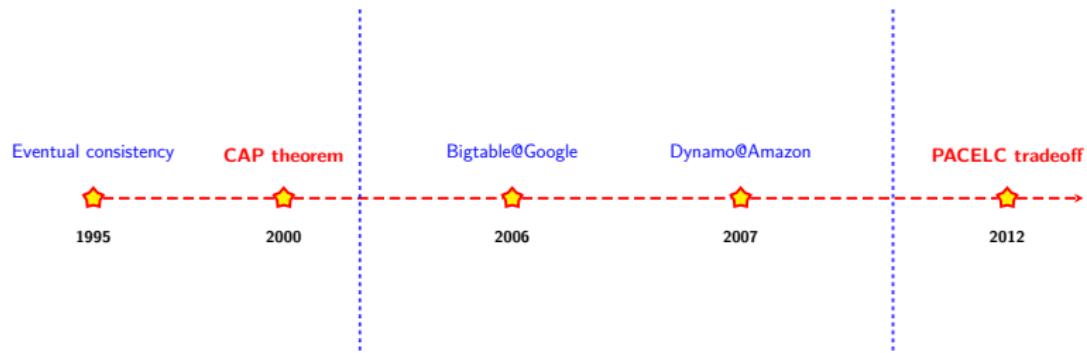
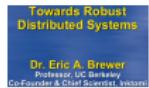


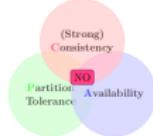
Consistency model in distributed systems



Consistency model in distributed systems



Consistency model in distributed systems



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Eventual consistency

CAP theorem

Bigtable@Google

Dynamo@Amazon

PACELC tradeoff



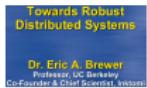
1995

2000

2006

2007

2012



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Managing Update Conflicts in Bayou, a Weakly Connected Replicated Storage System
Douglas B. Terry, Marvin M. Thomson, Kaita Petersen, Alan J. Demers,
Mike J. Sperber and Carl R. Hauser

Towards Robust Distributed Systems
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Professor, UC Berkeley
Co-Founder & Chief Scientist, Vicress

Bigtable: A Distributed Storage System for Structured Data
Ray Chang, Jeffrey Dean, Sanjay Ghemawat, Wilson C. Hsieh, Shvachko Katz, Michael J. Kutz, Prashant Shenoy, Avinash Lakshman, Alex Rabkin, Sanjay Ghemawat, Ganesh Venkatesan, Rajeev Chandrasekaran, Peter Vosshall, Mike Burrows, Tofte Chandra, Andrew Flax, Robert G.久松, and Werner Vogels

Dynamo: Amazon's Highly Available Key-value Store
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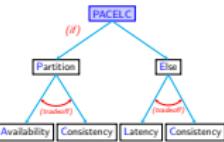


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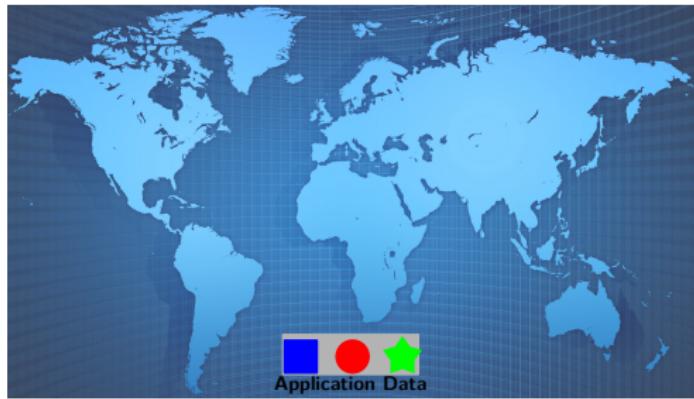
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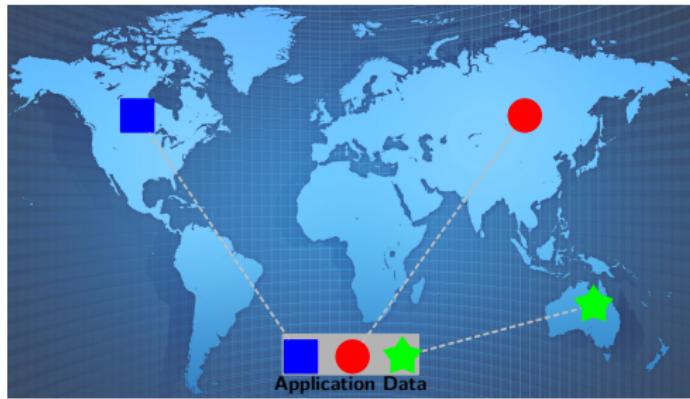
Google, Inc.
Amazon.com

Consistency
Tradeoffs in
Modern Distributed
Database System
Design

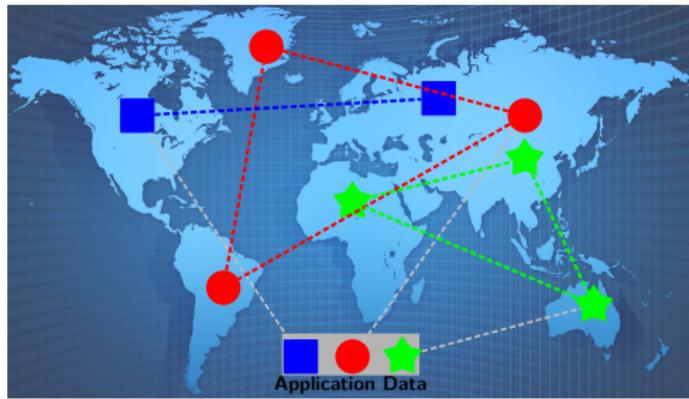
Distributed data



Distributed data



Distributed data



Distributed data

