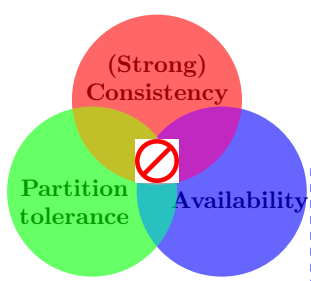
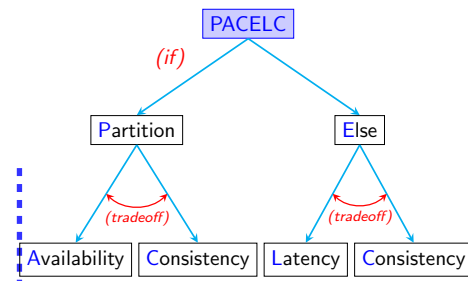


24/7
service



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is currently
unavailable

EVENTUALLY...



Eventual consistency

CAP theorem

PACELC tradeoff



1995

2000

2012

Managing Update Conflicts in Bayou,
a Weakly Connected Replicated Storage System

Douglas B. Terry, Marvin M. Theimer, Karin Petersen, Alan J. Demers,
Mike J. Spreitzer and Carl H. Hauser

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Towards Robust
Distributed Systems

Dr. Eric A. Brewer
Professor, UC Berkeley
Co-Founder & Chief Scientist, Inktime



Bigtable: A Distributed Storage System for Structured Data

Fay Chang, Jeffrey Dean, Sanjay Ghemawat, Wilson C. Hsieh, Deb Avinash Lakshman, Alex Pilchin, Swaminathan Sivasubramanian, Peter Vosshall
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Google, Inc.

Dynamo: Amazon's Highly Available Key-value Store

Giuseppe DeCandia, Deniz Hastorun, Madan Jampani, Gunavardhan Kakulapati,
Avinash Lakshman, Alex Pilchin, Swaminathan Sivasubramanian, Peter Vosshall
and Werner Vogels
Amazon.com



Consistency
Tradeoffs in
Modern Distributed
Database System
Design

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