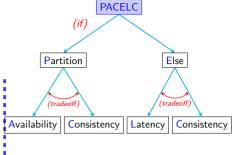






Project Voldemort





Eventual consistency

1995

CAP theorem

2000







PACELC tradeoff

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

> Computer Science Laboratory Xerox Palo Alto Research Center Palo Alto, California 94304 U.S.A.

Towards Robust Distributed Systems Dr. Eric A. Brewer Professor, UC Berkeley Co-Founder & Chief Scientist, Inkto

Bigtable: A Distributed Storage System for StruDynamo: Amazon's Highly Available Key-value Store

Giuseppe DeCandia, Deniz Hastorun, Madan Jampani, Gunavardhan Kakulapati, Fay Chang, Jeffrey Dean, Sanjay Ghemawat, Wilson C. Hsieh, Deb Avinash Lakshman, Alex Pilchin, Swaminathan Sivasubramanian. Peter Vosshall and Werner Vogels Mike Burrows, Tushar Chandra, Andrew Fikes, Robert E. Gruber

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Consistency Tradeoffs in **Modern Distributed Database System** Design