CS 848 – Modern Database Systems

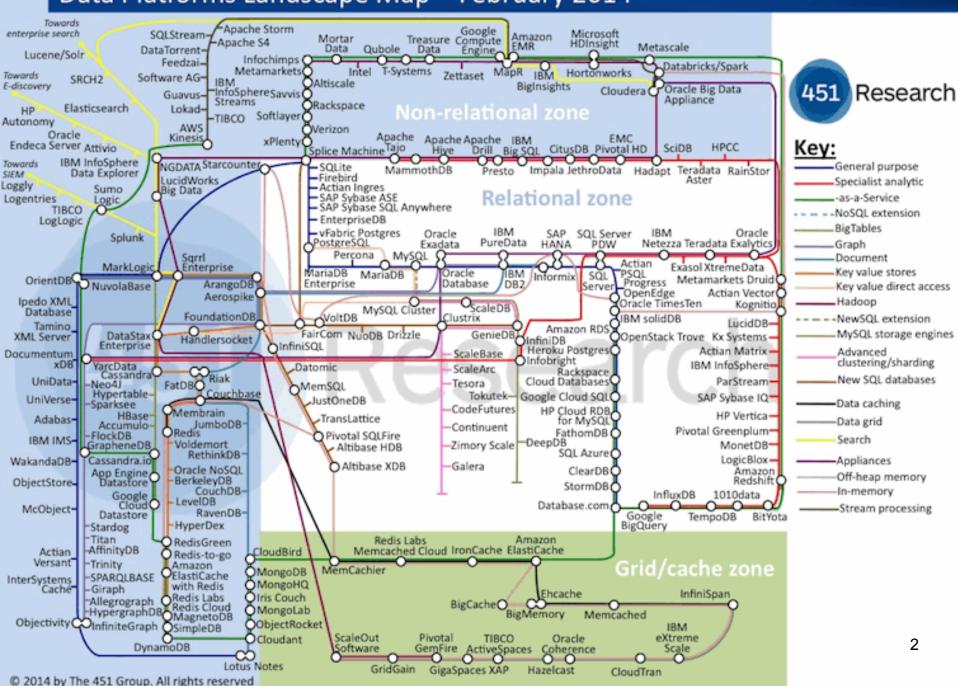
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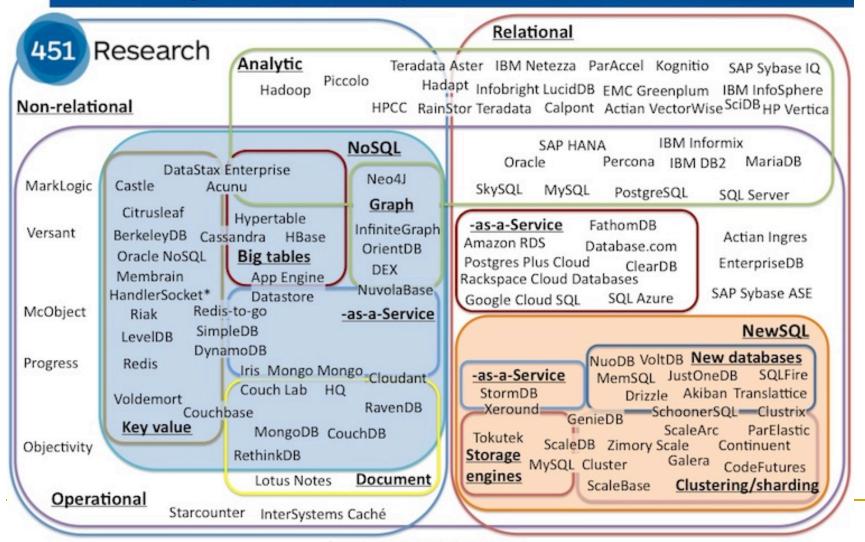


Data Platforms Landscape Map – February 2014



Older but a bit more helpful

The evolving database landscape



Two parts

- A brief overview of database technology
 - Warning: this is not a tutorial; just an overview of basic functionality
- ... and technology changes that impact database systems
- New systems
 - NewSQL
 - NoSQL
 - Column stores
 - MapReduce-based systems
 - Stream processing systems
 - Graph processing (both querying and analysis) systems



Course Information

- Prerequisites: need to know database technology (internals) fairly well.
 - DO NOT take the course if you don't and you don't feel comfortable reading database research papers
- Will discuss 4papers each week
- There is no textbook for the course; I will indicate some that have parts of what we will cover
- The web page for the course:

https://cs.uwaterloo.ca/~tozsu/courses/cs848/W15/



Workload & Evaluation

- Research Project: 40%
 - Usually in groups of 2
 - Can be experimental or conceptual
 - Pick a problem (in consultation with me) and
 - Understand it fully and the literature about it
 - Show me how you would solve it and what is novel about your solution
 - Each group presents at the end of the course (public presentation)
- Class presentation(s): 20%
- 2 critical reviews of research papers: 20%
- Class participation: 20%
 - Participation in class discussions
 - Short reviews of papers presented each week (1/2 page)
 - Evaluation of other students' presentations

