Agenda

- 1. Welcome, syllabus, database architectures, hardware (storage, processing), analytics (dashboards, data mining), deployment (cloud, real-time situational awareness), contents & formats (multi-dimensional, unstructured) Goetz
- 2. Indexing basics: B-trees, operations & utilities, advanced keys Goetz
- 3. Robust & adaptive techniques, measuring robustness; indexing and query execution Harumi
- 4. B-tree concurrency control and recovery (two short surveys) Goetz
- Query execution: iterators, access methods, sort, join & aggregation algorithms Goetz
- 6. Query execution: implementation, parallelism, distributed queries Wey
- 7. Versions, snapshots, time travel, multi-version concurrency control Goetz
- 8. Online operations Wey
- 9. High availability, cloud computing Wey
- 10. Workload management, scheduling, resource & memory management Wey
- 11. Hike in the woods...
- 12. Compression, column storage, zone filters, bitmap indexes, etc. Goetz
- 13. Query compilation: syntax-algebra-plans, plan space, architecture Thomas N.
- 14. Query compilation: cardinality estimation, cost calculation Thomas N.
- 15. Query compilation: plan search, plan selection, plan compilation Thomas N.
- 16. On demand, ...
- 17. On demand...
- 18. On demand...