6.824 Schedule: Spring 2015

TR1-2:30, room 54-100

Here is the tentative schedule of lectures and due dates. The lecture notes and paper questions for future dates are copies from previous years, and may change.

Monday	Tuesday	Wednesday	Thursday	Friday
feb 2 *Reg day*	feb 3 **LEC 1:** Introduction **Preparation:** Read MapReduce **Assigned:** Lab 1 *First day of classes*	feb 4	feb 5 **LEC 2:** RPC and Threads, toy rpc code **Preparation:** (Question) *Do the Online Go tutorial*	feb 6 **Assigned:** Lab 2
feb 9 **DUE:** Lab 1	feb 10 **LEC 3:** Fault Tolerance: primary/backup replication **Preparation:** Read Remus (2008) (Question)	feb 11	feb 12 **LEC 4:** More Primary/Backup **Preparation:** Read Flat Datacenter Storage (2012) (Question) **DUE:** Lab 2, part A	feb 13
feb 16 President's day	feb 17 *Monday schedule*	feb 18	feb 19 **LEC 5:** Fault Tolerance: Paxos, handout **Preparation:** Read Paxos (2001) (Question) **Assigned:** Lab 3	feb 20 **DUE:** Lab 2, part B
feb 23	feb 24 **LEC 6:** Fault Tolerance: Raft **Preparation:** Read Raft (2014) (Question)	feb 25	feb 26 **LEC 7:** Guest lecturer: Russ Cox (Google/Go) **Preparation:** (Question)	feb 27 **DUE:** Lab 3, part A
mar 2	mar 3 **LEC 8:** Case Studies: Replicated File System **Preparation:** Read Harp (1991) (Question) **DUE:** Lab 2 code review	mar 4	mar 5 **LEC 9:** Distributed Computing: Sequential consistency pseudocode **Preparation:** Read Shared Virtual Memory (1986) (Question) **Assigned:** Project	mar 6 *ADD DATE*
mar 9	mar 10 **LEC 10:** Distributed Computing: Relaxed consistency **Preparation:** Read TreadMarks (1994) (Question)	mar 11	mar 12 **LEC 11:** Disconnected Operation: Version Vectors and File Synchronization **Preparation:** Read Ficus (1994) (Question) **Assigned:** Lab 4 **Assigned:** Lab 5	mar 13 **DUE:** Lab 3, part B
mar 16	mar 17 **LEC 12:** Disconnected Operation: Eventual Consistency **Preparation:** Read Bayou (1995) (Question)	mar 18	mar 19 **Exam 1:** Mid-term exam during lecture time **Materials:** Open book and notes **Scope:** Lectures 1-12	mar 20
mar 23 Spring break	mar 24 Spring break	mar 25 Spring break	mar 26 Spring break	mar 27 Spring break

mar 30	mar 31 **LEC 13:** MapReduce revisited **Preparation:** Read MapReduce (Question)	apr 1 **DUE:** Project proposals	apr 2 **LEC 14:** Case Studies: Spark **Preparation:** Read Spark (2012) (Question)	apr 3 **DUE:** Lab 4, part A
apr 6	apr 7 **LEC 15:** Guest lecturer: Wilson Hsieh (Google) **Preparation:** Read Spanner (2012) 2013 notes (Question) **DUE:** Lab 3 code review	apr 8	apr 9 **LEC 16:** Scaling Memcached at Facebook **Preparation:** Read Memcached at Facebook (2013) (Question)	apr 10
apr 13	apr 14 **LEC 17:** Case Studies: Relaxed Consistency **Preparation:** Read PNUTS (2008) (Question)	apr 15	apr 16 **LEC 18:** Case Studies: Dynamo **Preparation:** Read Dynamo (2007) (Question)	apr 17 **DUE:** Lab 4, part B
apr 20 Patriots day	apr 21 Patriots day	apr 22	apr 23 ***DROP DATE*** *Hacking day, no lecture*	apr 24
apr 27	apr 28 **LEC 19:** Distributed systems in the real world (Guest lecturer: Emil Sit) **Preparation:** Read Akamai paper and Hubspot blog post (Question)	apr 29	apr 30 **LEC 20:** Atomicity: Two-Phase Commit **Preparation:** Read Argus (1988) (Question) **DUE:** Lab 4 code review	may 1
may 4	may 5 **LEC 21:** Atomicity: Optimistic Concurrency Control **Preparation:** Read Thor (1995) (Question)	may 6	may 7 **LEC 22:** Peer-to-peer: Trackerless Bittorrent and DHTs **Preparation:** Read Kademlia (2002) and Trackerless Bittorrent (2008) (Question)	may 8 **DUE:** Lab 5 **DUE:** Project reports and code
may 11	may 12 **LEC 23:** Peer-to-peer: Bitcoin **Preparation:** Read Bitcoin, summary (Question)	may 13	may 14 **LEC 24:** Project demos **Preparation:** Read AnalogicFS experience paper (Question) *Last day of classes*	may 15
may 18 *Final exam: 9:00 to 12:00 noon, Johnson Track*	may 19	may 20	may 21	may 22

For questions or comments, email 6.824-staff@pdos.csail.mit.edu.

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