

MGS 655: Resources and Papers for Developing Ideas for Projects

- Ten Real World Use Cases for 'Hadoopable' Problems: A White paper from Cloudera (http://www.cloudera.com/content/cloudera/en/resources/library/whitepaper/Ten_Common_Hadoop-able_Problems_Real-World_Hadoop_Use_Cases_White_Paper.html)
- The Pastry Peer-to-Peer Network <http://research.microsoft.com/en-us/um/people/antr/PAST/pastry.pdf>
- Kelips: P2P System http://link.springer.com/chapter/10.1007%2F978-3-540-45172-3_15
- Wireless Sensor Networks – Research Challenges <http://newslab.cs.wayne.edu/mobicom-camera-ready.pdf>
- Tiny OS: An open source environment for low-power wireless devices, such as those used in sensor networks, ubiquitous computing, personal area networks, smart buildings, and smart meters. <http://www.tinyos.net>
- Setup the Tiny OS environment (You can see some detailed instructions at <http://www.disco.ethz.ch/lectures/hs10/asn/exercises/lab/exercise.pdf>). Then test out your favorite Gossip algorithm (or other communication protocols) and present empirical results.
- Amazon's Dynamo <http://www.allthingsdistributed.com/files/amazon-dynamo-sosp2007.pdf>
- Cassandra <http://wiki.apache.org/cassandra/ArchitectureOverview>
- MongoDB <http://www.mongodb.org> and some applications that use MongoDB <http://docs.mongodb.org/ecosystem/tools/applications/>
- HBase <http://hbase.apache.org>

- PigLatin <http://dl.acm.org/citation.cfm?id=1376726&jmp=abstract&coll=ACM&dl=ACM>
- DryadLINQ <http://research.microsoft.com/en-us/projects/dryadlinq/dryadlinq.pdf>
- Hive <http://www.vldb.org/pvldb/2/vldb09-938.pdf>
- Epidemiological origins of the Gossip Protocol <http://leonidzhukov.net/hse/2014/socialnetworks/papers/2000SiamRev.pdf>