

Preliminary Topic Outline

Day	Date	Spring 2014 Topics
Tues	1/14/14	Course introduction; syllabus, etc.
Thurs	1/16/14	Setup for introductory project; a bite of Python
Tues	1/21/14	Introduction to relational algebra; relational databases, SQL
Thurs	1/23/14	
Tues	1/28/14	
Thurs	1/30/14	
Tues	2/4/14	Hadoop and MapReduce
Thurs	2/6/14	
Tues	2/11/14	Setup for Hadoop project
Thurs	2/13/14	
Tues	2/18/14	Data visualization with Plotviz
Thurs	2/20/14	Test 1
Tues	2/25/14	What about NoSQL?
Thurs	2/27/14	Web search, text mining, web ads
Tues	3/4/14	
Thurs	3/6/14	
Tues	3/18/14	Clustering, nearest neighbor search, similarity measures, etc.
Thurs	3/20/14	
Tues	3/25/14	
Thurs	3/27/14	Stream Processing
Tues	4/1/14	
Thurs	4/3/14	
Tues	4/8/14	Link analysis, Page rank, etc.
Thurs	4/10/14	
Tues	4/15/14	
Thurs	4/17/14	Graph analytics, social networks
Tues	4/22/14	
Thurs	4/24/14	Recommender systems
Tues	4/29/14	
	5/6/14	2PM - Exam