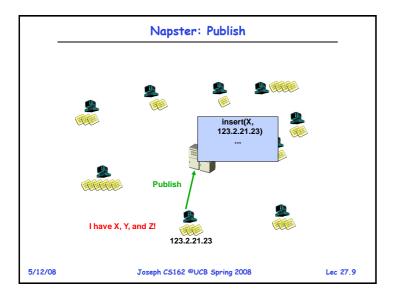
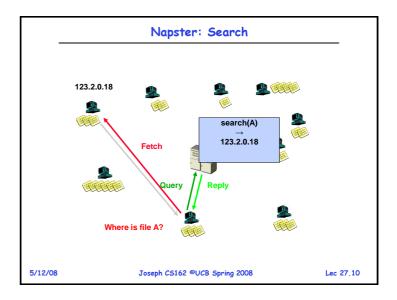
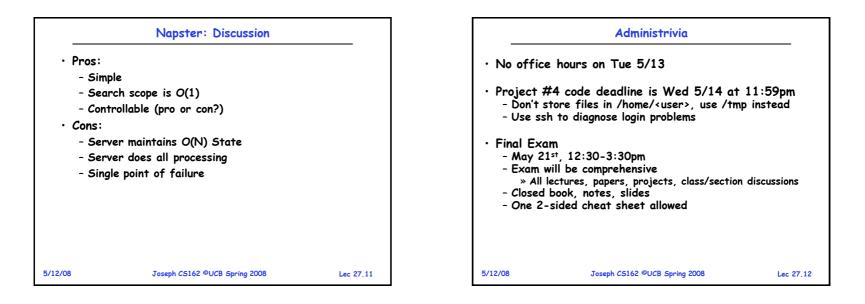
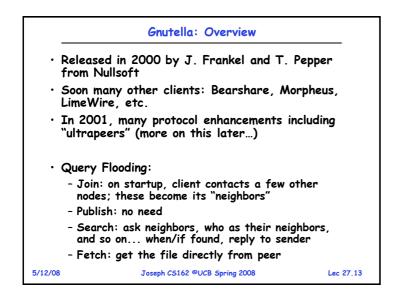


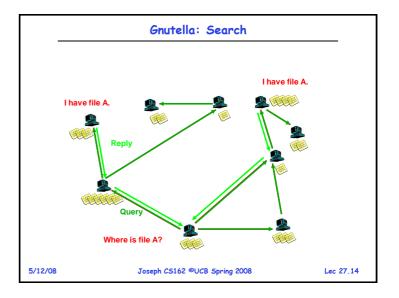
Publish and Search			Napster: Overview	
 Basic strategies: Centralized (Napster, BitTorrent) Flood the query (Gnutella) Smart/partial flood the query (Kazaa/s) Different tradeoffs depending on appl Robustness, scalability, legal issues 		- Created - Peak Fo - Shutdo • Centraliza - Join: o - Publish - Search stores	(June 99-July 01) d by Shawn Fanning (Northeastern eb 01 (26.4M total/1.5M simultar wn due to lawsuits, now reborn ed Database: n startup, client contacts central : reports list of files to central s : query the server → return some the requested file get the file directly from peer	server erver
5/12/08 Joseph CS162 ©UCB Spring 2008	Lec 27.7	5/12/08	Joseph CS162 ©UCB Spring 2008	Lec 27.8

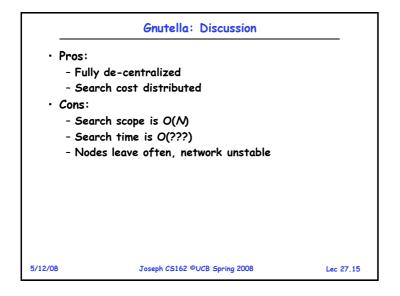


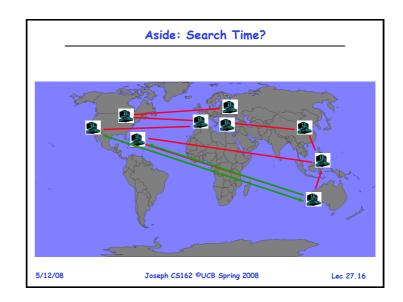


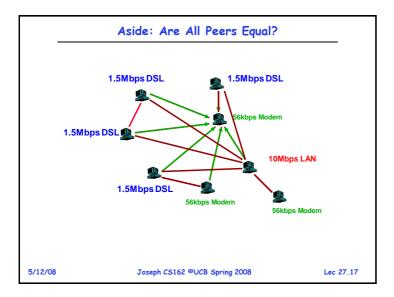


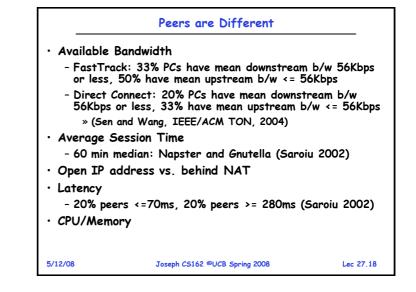


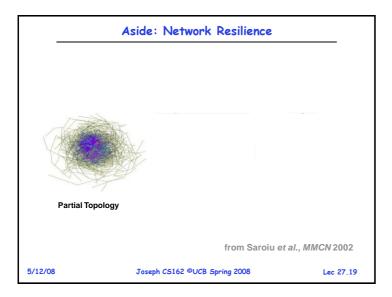




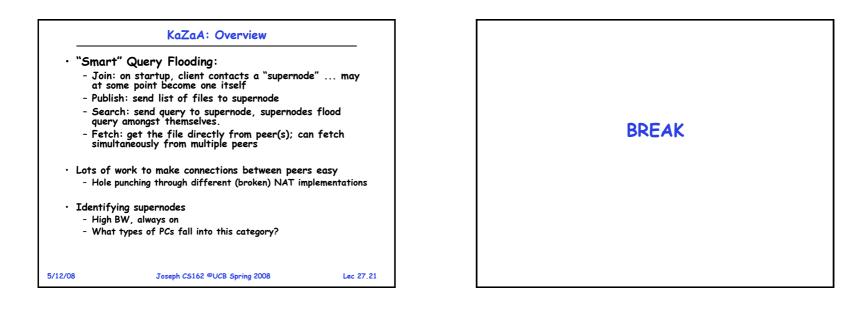


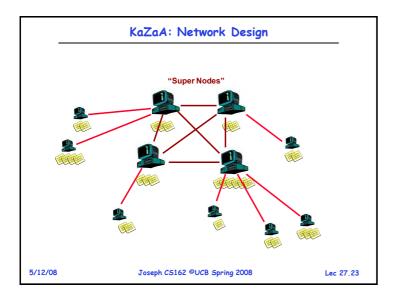


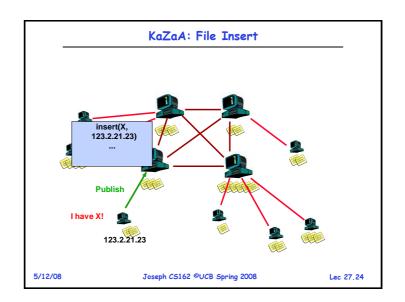


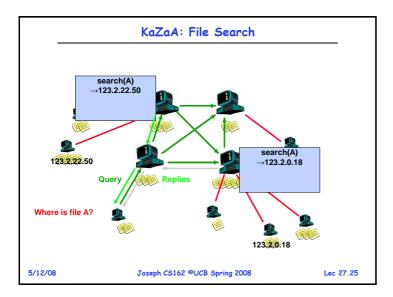


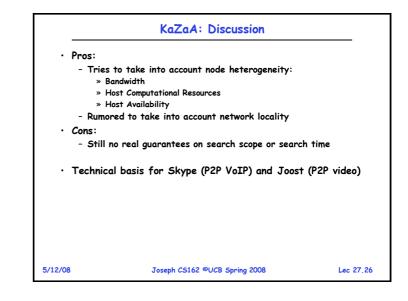


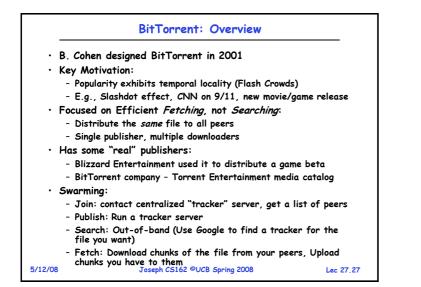


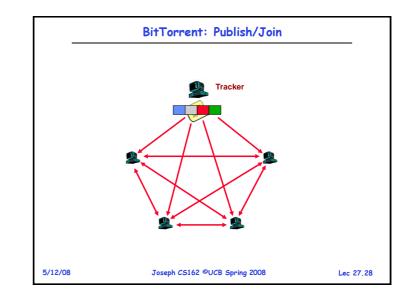


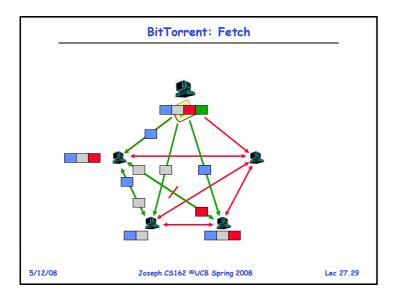


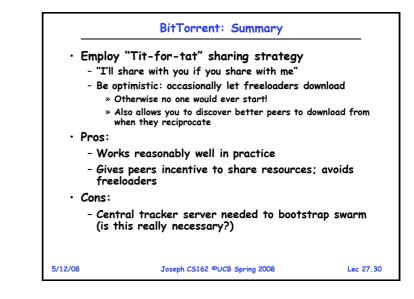












Conclusions	
• Napster	
- Launched P2P	
- Centralized index	
• Gnutella:	
- Focus is simple sharing	
- Using simple flooding	
 Kazaa/Skype/Joost 	
- More intelligent query routing	
 BitTorrent 	
- Focus on download speed, fairness in sharing	
• Want to learn more about P2P networking?	
- Take EE122	
 Contact me if you're interested in doing undergraduate research at Berkeley or Intel Research Berkeley 	
5/12/08 Joseph CS162 ©UCB Spring 2008	Lec 27.31