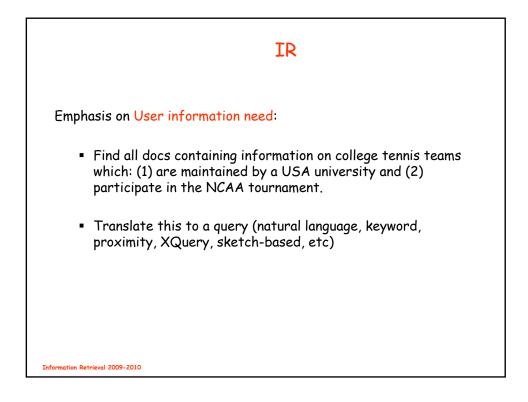
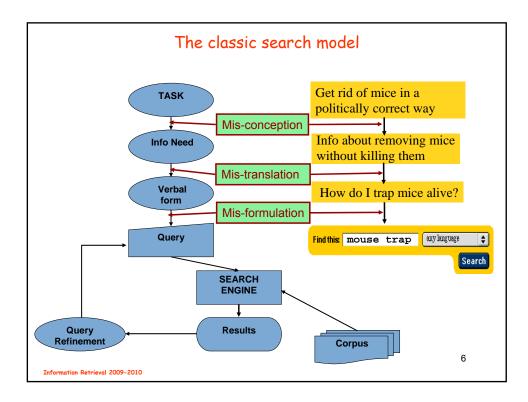
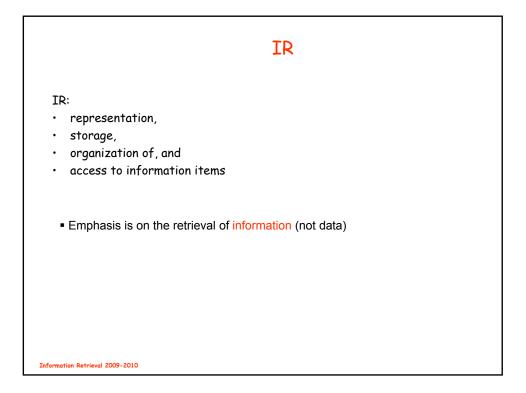
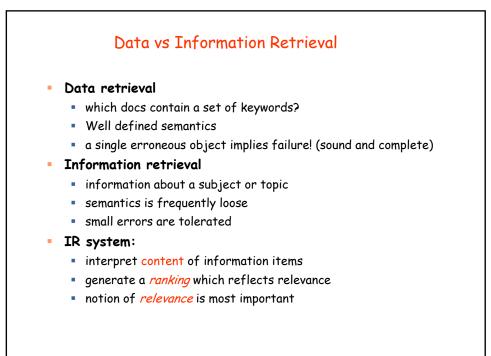


Examples
IR Systems - Verity, Fulcrum, Excalibur, Eurospider - Hummingbird, Documentum - Inquery, Smart, Okapi, Lemur, Indri
Web search and in-house systems - West, LEXIS/NEXIS, Dialog - Lycos, AltaVista, Excite, Yahoo, Google, Nothern Light, Teoma, HotBot,Direct Hit, - Ask Jeeves - eLibrary, Inquira - vivisimo (www.vivisimo.com)
Information Retrieval 2009-2010

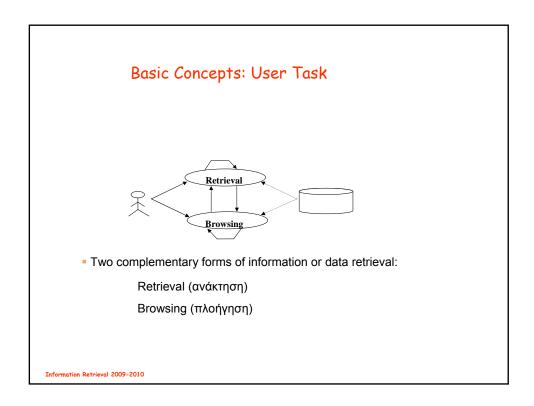


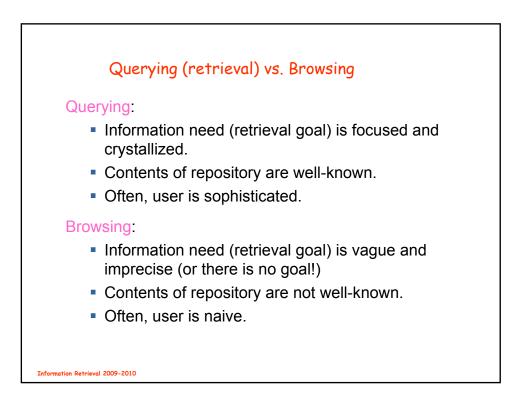


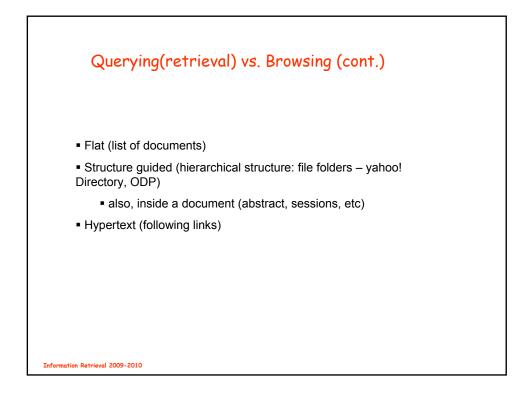


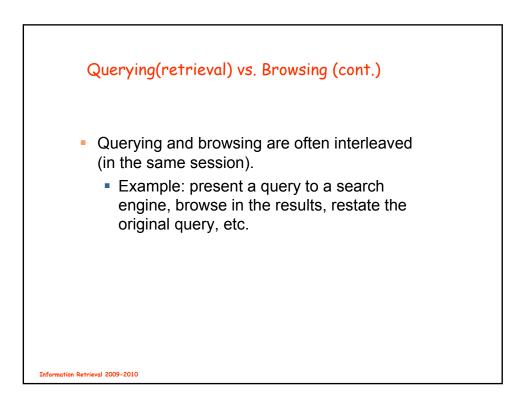


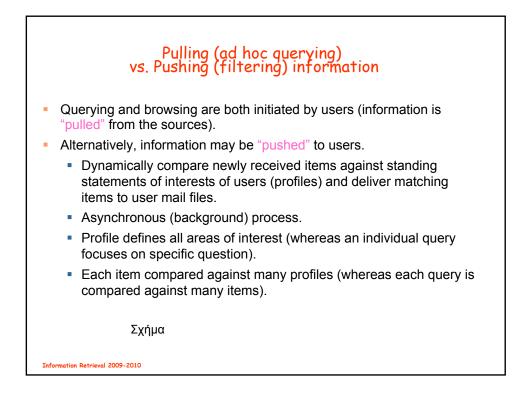
Information Retrieval 2009-2010

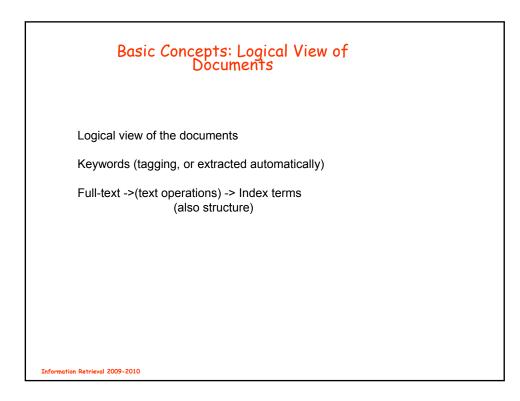


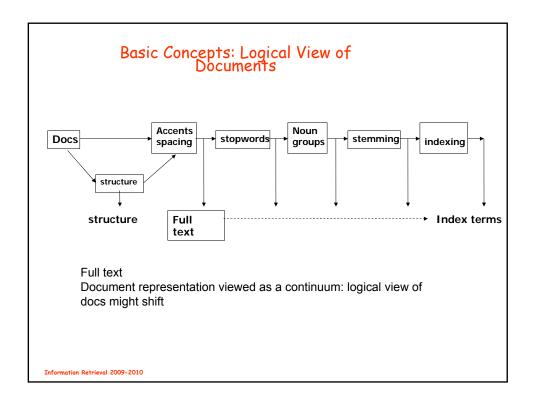


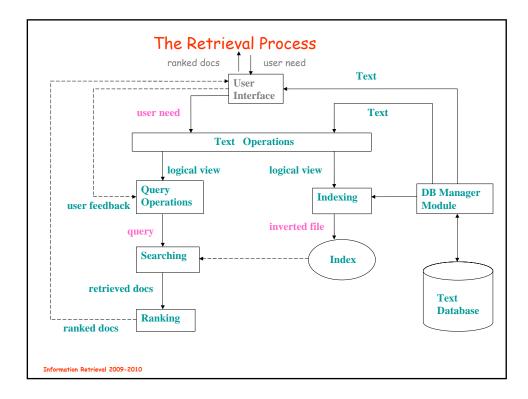


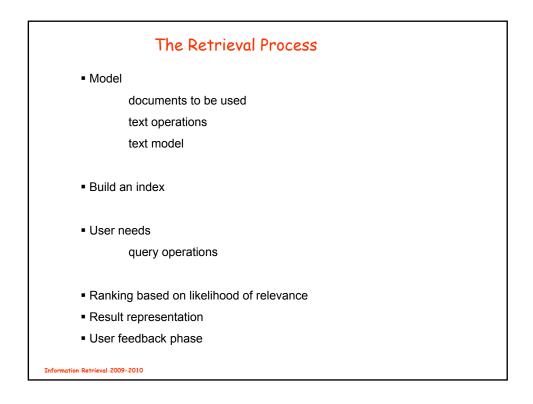


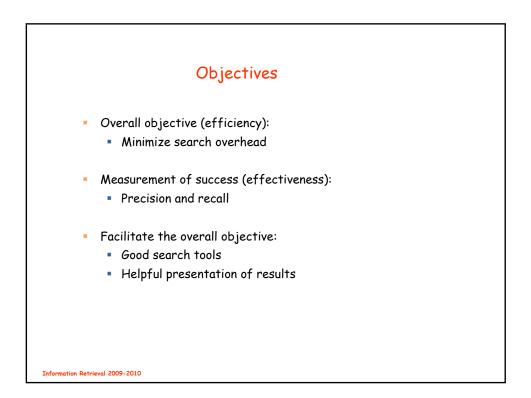




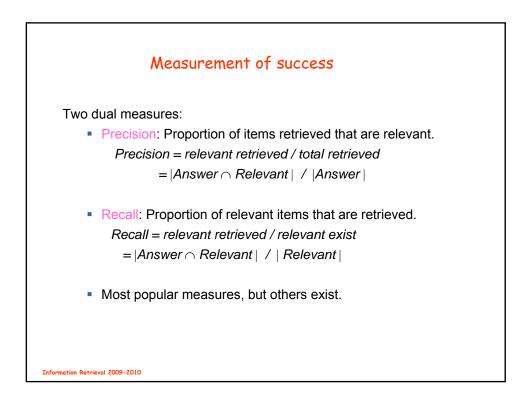


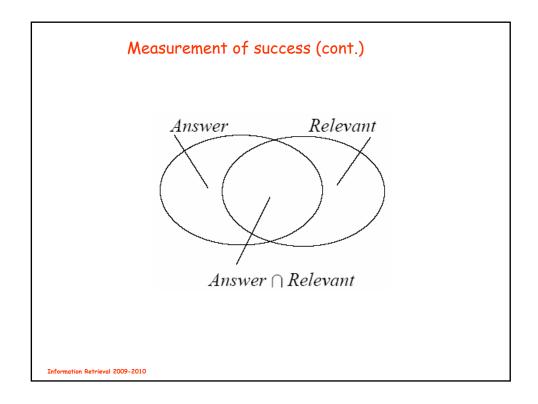


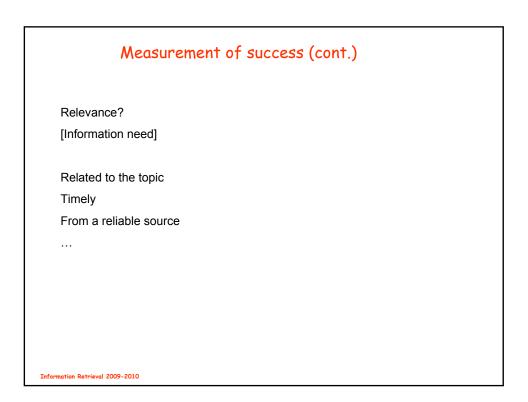


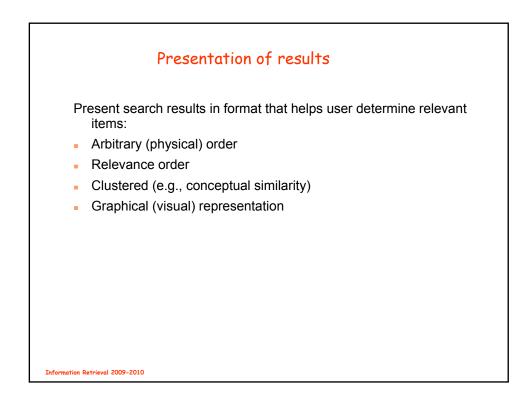


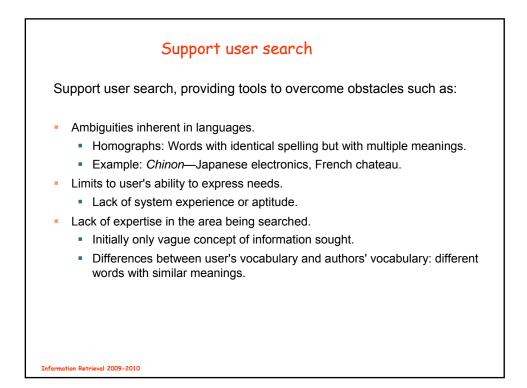


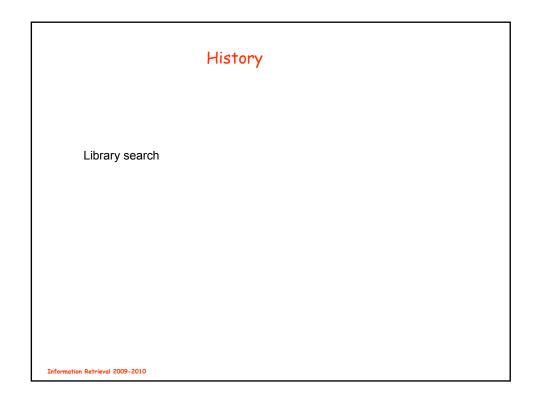


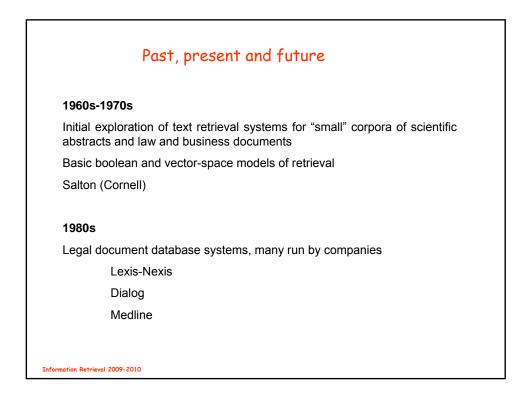






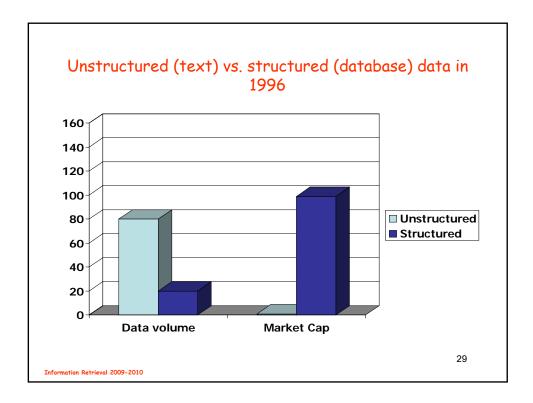


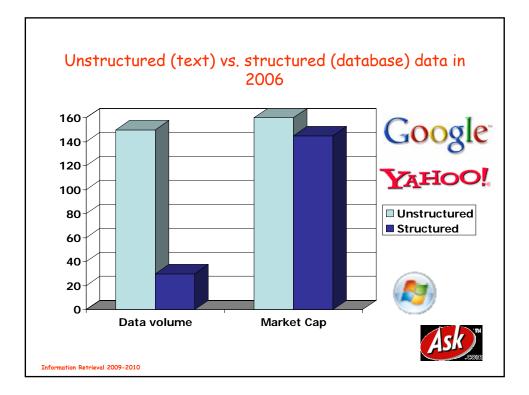




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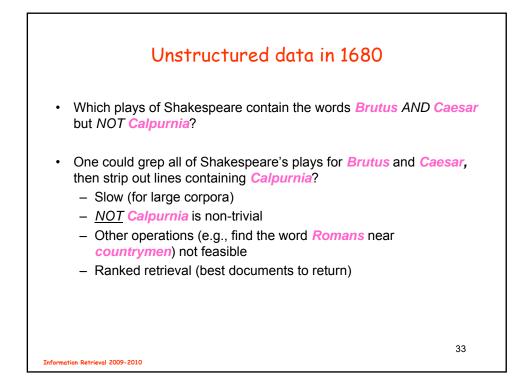
Past, present and	
2000's	
Link Analysis for Web Search	
Google	WEB changed everything
Automated Information Extraction	
Whizbang	New issues:
Fetch	Trust
Burning Glass	Privacy, etc
Question Answering	
TREC Q/A track	Additional sources:
Multimedia IR	Social networking
Cross-Language IR	Wikipedia, etc
Document Summarization	



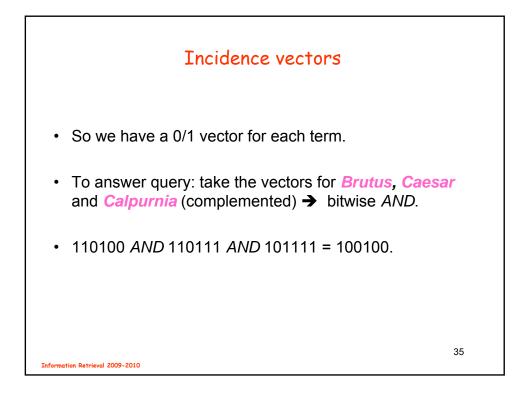


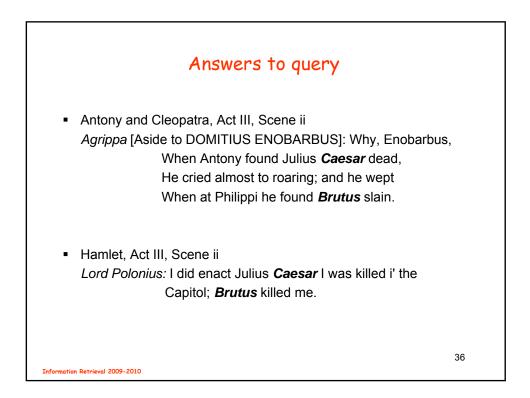
Search Engines and Web Today	
Indexed web: at least 45.84 billion pages	
2 exabytes (2 ⁶⁰) per year 90% in digital form 50% increase per year	
Information Retrieval 2009-2010	31

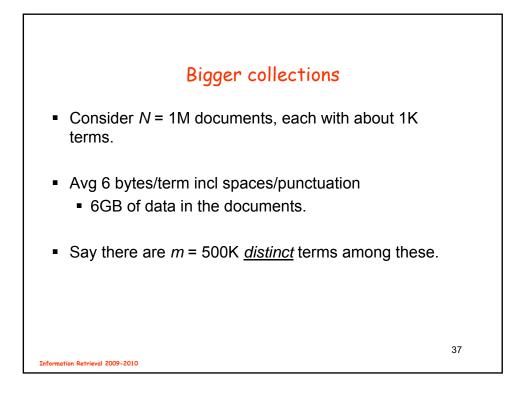
Case S [.]	tudy
	-
Information Retrieval 2009-2010	32

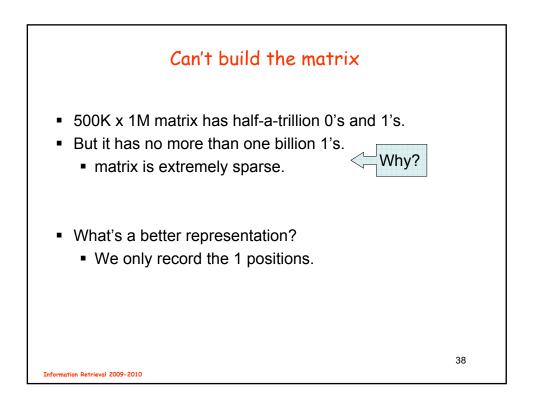


	Term-	docume	nt incid	ence		
	Antony and Cleopatra	Julius Caesar	The Tempest	Hamlet	Othello	Macbetl
Antony	1	1	0	0	0	1
Brutus	1	1	0	1	0	0
Caesar	1	1	0	1	1	1
Calpurnia	0	1	0	0	0	0
Cleopatra	1	0	0	0	0	0
mercy	1	0	1	1	1	1
worser	1	0	1	1	1	0
			\mathbf{A}			
Bruti	us AND <mark>Caesar</mark>	but NOT				

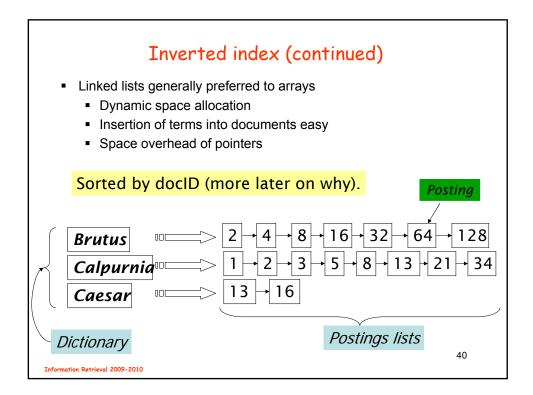


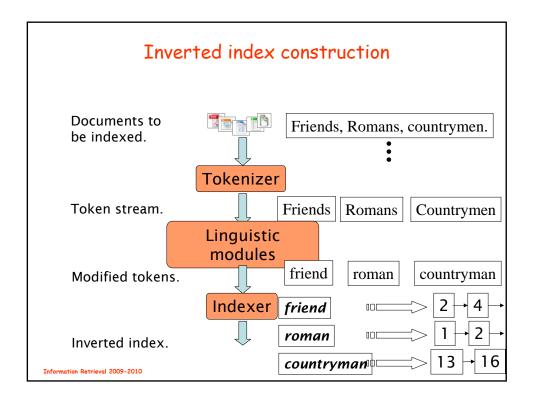


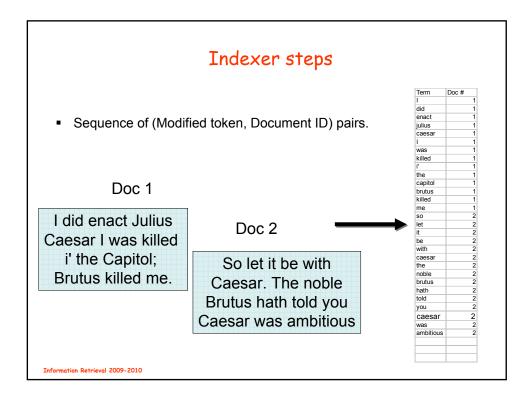


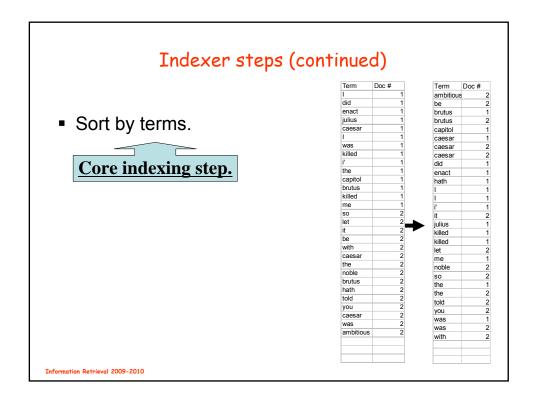


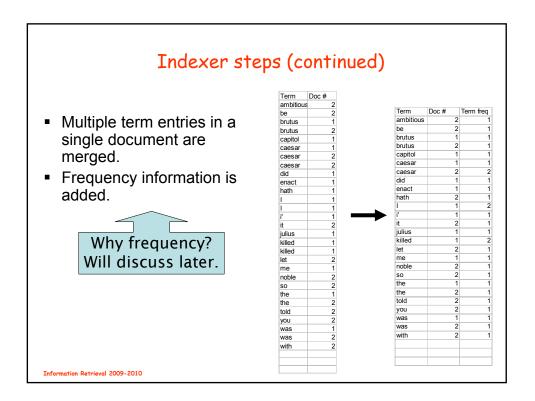
	Inverted index			
	ach term T , we must store a list of all docur ontain T .	ments		
Brutus				
Calpurni	<i>ia</i> ∞> <u>1 2 3 5 8 13 21</u>	34		
Caesar				
What happens if the word <i>Caesar</i> is added to document 14?				
Information Retrieval 2009	9-2010			

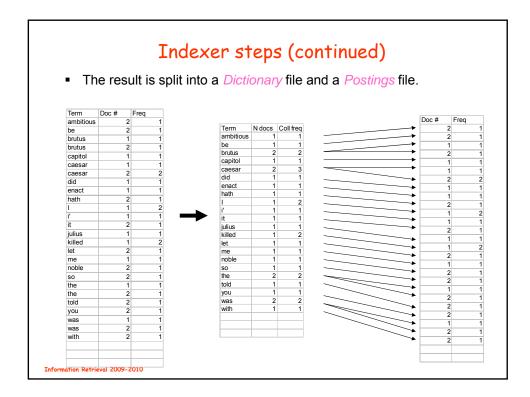


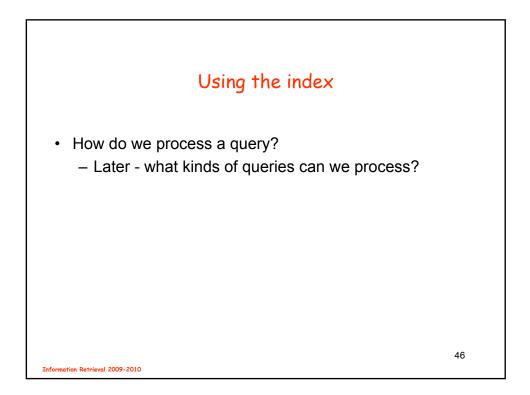


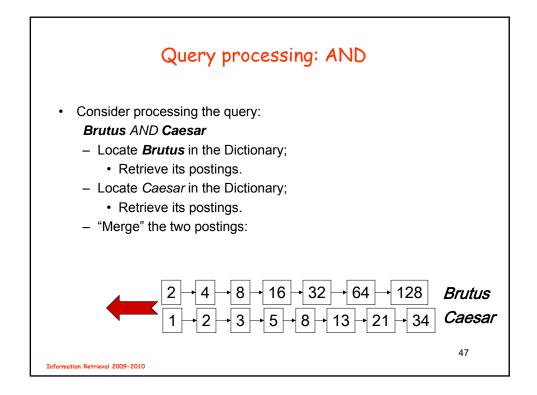


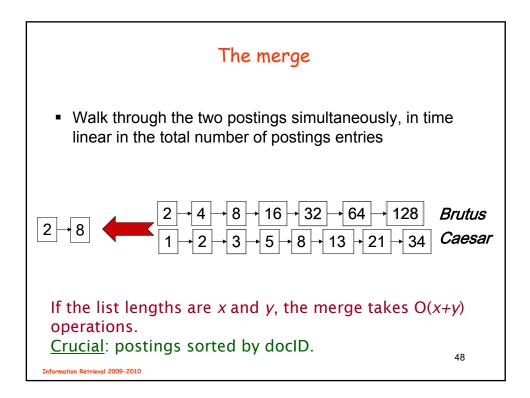


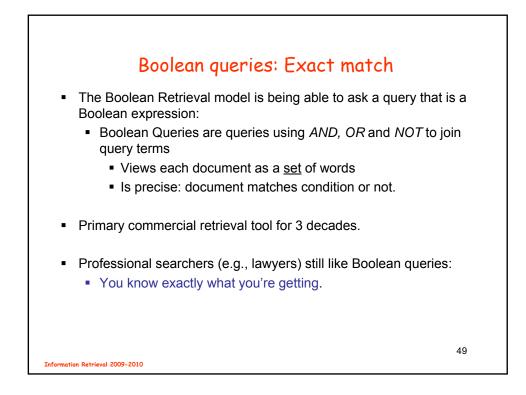


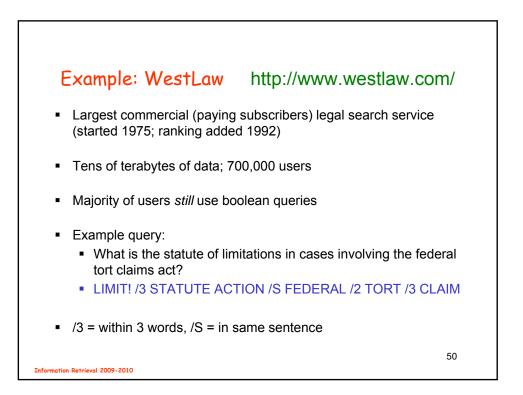


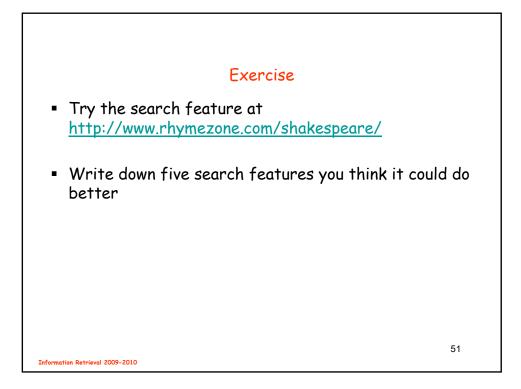


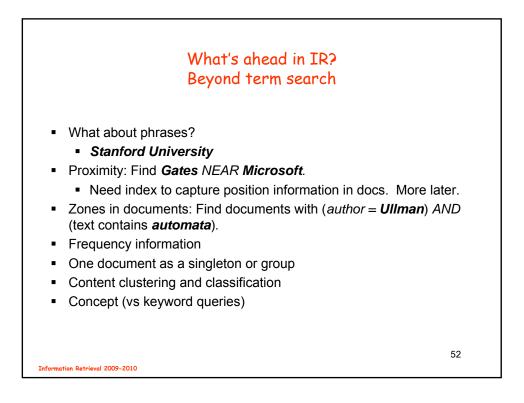












Course Content	
Retrieval Models Retrieval Evaluation Indexing Query operations (relevance feedback, query expansion, clustering, etc)	
Web search	
Parallel and distributed (P2P and MapReduce) Social Networks	
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