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 Overview Features Powered by Lucene Who We Are 	Apache Lucene - Overview	N PDF
Documentation	Apache Lucene	
Resources Related Projects	 <u>Lucene news</u> <u>23 February 2008 - Lucene Java 2.3.1 available</u> <u>24 January 2008 - Lucene Java 2.3.0 available</u> <u>23 January 2008 - Lucene at ApacheCon Europe</u> <u>24 December 2007 - Nightly Snapshots available in the Apache Maven Snapshot</u> <u>Repository</u> <u>26 August 2007 - Lucene at ApacheCon Atlanta</u> <u>19 June 2007 - Release 2.2 available</u> <u>18 February 2007 - Lucene at ApacheCon Europe</u> <u>17 February 2007 - Lucene at ApacheCon Europe</u> <u>17 February 2007 - Release 2.1 available</u> <u>3 January 2007 - Nightly Source builds available</u> 	
	Apache Lucene	
	Apache Lucene is a high-performance, full-featured text search engine library written entirely in Java. It is a technology suitable for nearly any application that requires full-text search, especially cross-platform.	
	Apache Lucene is an open source project available for free download. Please use the links on the left to access Lucene.	5













		#docs ≈ 4M					
		Antony and Cleopatra	Julius Caesar	The Tempest	Hamlet	Othello	Macbeth
	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
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	Brutus		3.0	8.3	0.0	1.0	0.0	0.0
	Caesar		2.3	2.3	0.0	0.5	0.3	0.3
	Calpurnia	a	0.0	11.2	0.0	0.0	0.0	0.0
	Cleopatra	a	17.7	0.0	0.0	0.0	0.0	0.0
	mercy		0.5	0.0	0.7	0.9	0.9	0.3
	worser		1.2	0.0	0.6	0.6	0.6	0.0
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Clustered Results	Top 194 results of at least 1,309),763 retrieved for the query r	mousetrap (Details	<u>s)</u>
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→ <u>Sales (4)</u> • <u>More</u>	 <u>Concord Mouse Trap</u> Online retailer in Concord, and discontinued pieces for www.concordmousetrap.co 	[new window] [frame] [cache] [prev MA, where WFF are made. I r sale. om - Gigablast 5, Open Directo	view] (dusters) Monthly Squeak Ne ory 9, Live 14, Open	ewsletter, photos of current and retired pieces, Directory 21
Find in clusters: Enter Keywords	 Mousetrap Backpack Accommodates only 25 per a large lovely garden in from www.mousetrap.co.nz - Op 	<u>ers - Paihia, Bay of Islar</u> ople, and is a character hous it. <i>Den Directory</i> 5, Live 18, Gigab	nds, NZ [new windo se for character pe last 19, Ask 71	cw] [frame] [oache] [preview] [clusters] ople. The hostel backs onto native bush, and has









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and an	Welcome to Freewarejava com, the place to find free Java applets

















































































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Experiment	Time/ele SSD	Time/ele HD	
Generating & writting 2^{30} random doubles	$0.4 \ \mu \ { m sec}$	$0.08 \ \mu \ { m sec}$	x5
Scanning (Read)	$0.30 \ \mu \ \text{sec}$	$0.09 \ \mu \ sec$	×3
Sorting	1.6 μ sec	$0.44 \ \mu \ \text{sec}$	×4
Random read	0.4 msec	5.5 msec	×14
Binary Search	1.7 msec	12.4 msec	X7 (com







Take-away message

Data is precious

Large volumes, occur in various contexts:

- Telephone calls
- Bills: supermarket, shops, ...
- BioInformatics: DNA, 3D-mapping,...
- Web sites: navigation and search logs
- Mobile phones: location, search, browse

...but more data does **not** mean more information.

You need proper algorithms !

