The Univers of Auckle	Text Base	d Search	
•	At present, most of multimedia Image, AltaVista Photo Finder, visual information retrieval (VIR) – But both Google and Microsoft R), and all first generation), and all first generation) systems, are textual esearch are now competing in	e n n
•	Textual retrieval relies strongly text strings, full scripts) containin • An <i>inverted file index</i> describing obtaining fast query response	on metadata (keywords on in mages and videos the multimedia content allows for	; or
S	emester 1, 2006 Lecture G2		























CS708.S1C: Query to Search for Visual Data

Query by User's Sketch (QBS)	
 Retrieval of images looking like a given sketch Both QBE and QBS use low-level features (colour, texture, etc) rather than the meaning, or semantics (objects, their relationships, events, etc) 	
Users are interested in the application-dependent semantics	
 It makes no sense to search for pictures of George W. Bush, using colour and simple texture features that describe nearest neighbouring pixels, whereas in medical imaging these features are very important 	
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The University of Auckland	QBE Paradigm	
• +	luman aspect: comfortable and intuitive querying	
• C	computational aspect: detailed automated analysis of ne content of the query images	
• C fo	Cognitive aspect : explicit knowledge representation or the search domain	
•	- Syntactic (literal) criteria of similarity and equality between pixels or features of images	
	 Perceptual similarity / equality criteria 	
	 Physical, geometric and topological rules describing equality of and differences between 3D objects on images, etc 	
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