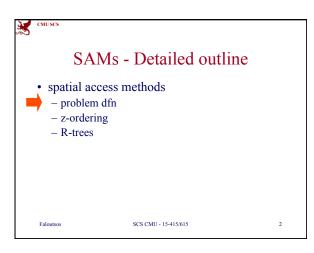
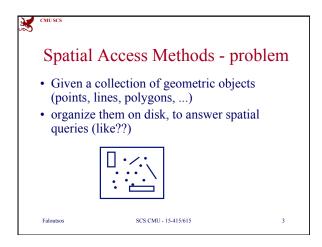
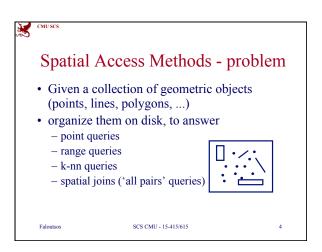
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## Carnegie Mellon Univ. Dept. of Computer Science 15-415/615 - DB Applications

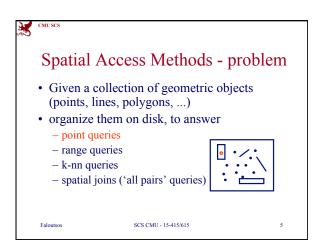
Lecture #26: Spatial Databases (R&G ch. 28)

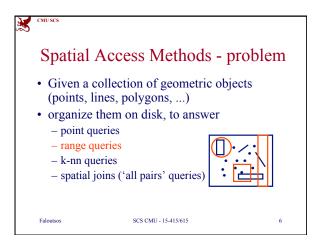


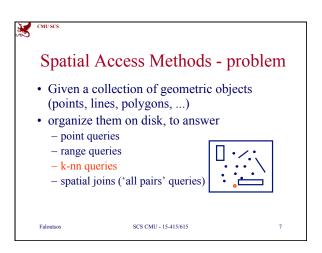




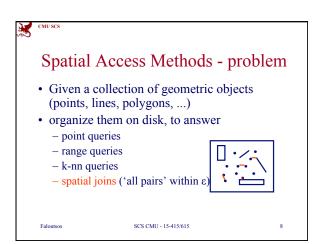


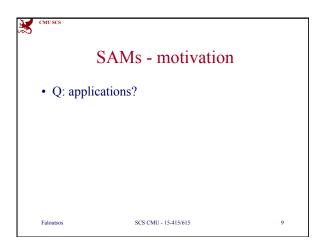


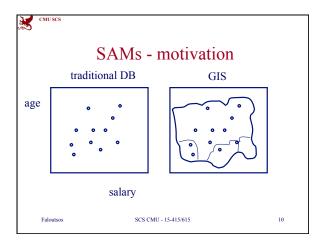




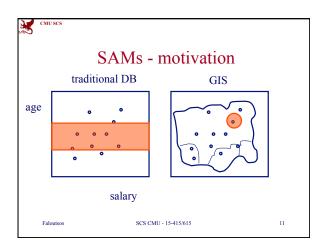


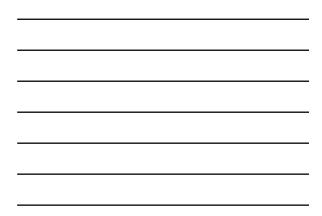


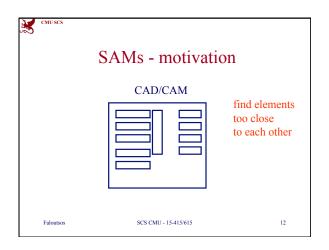




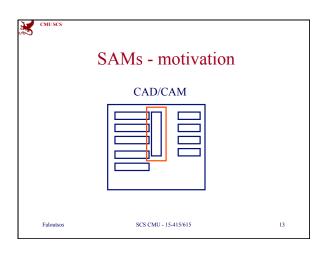




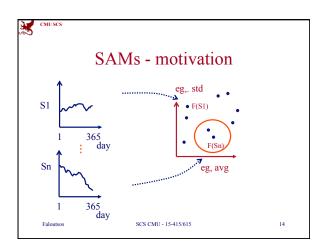




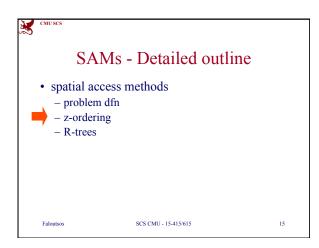


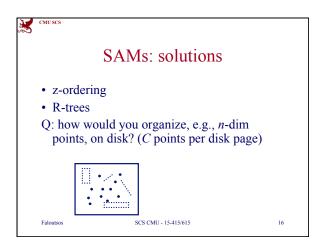


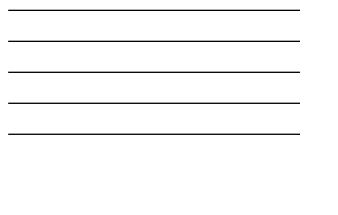


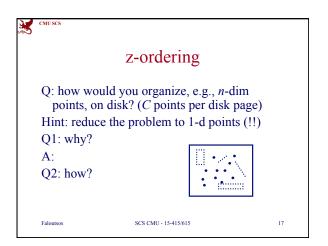


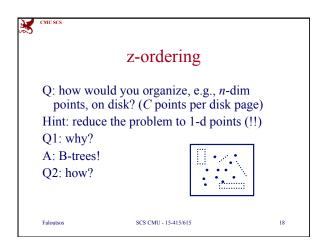


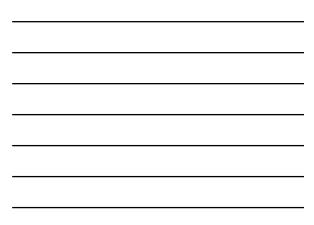


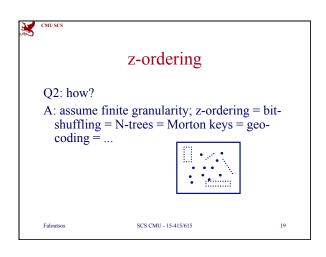


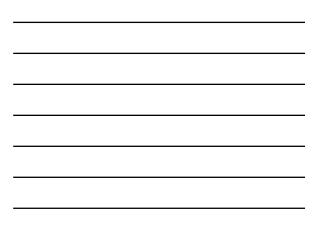


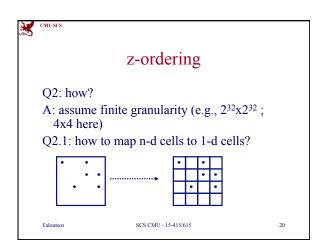




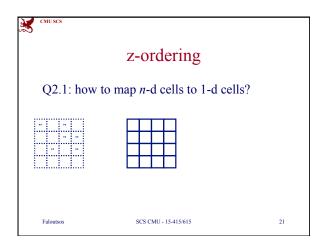








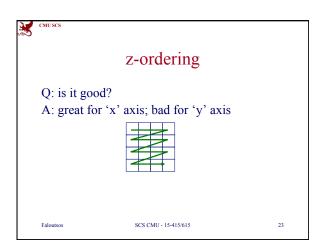




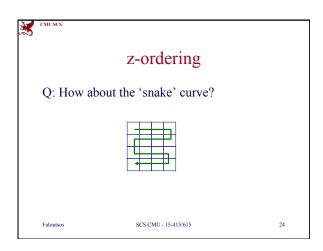


X	CMU SCS		
		z-ordering	
	Q2.1: how to n A: row-wise Q: is it good?	nap <i>n</i> -d cells to 1-d cells?	
	Faloutsos	SCS CMU - 15-415/615	22

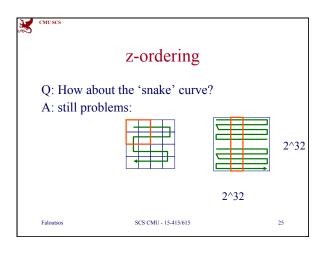




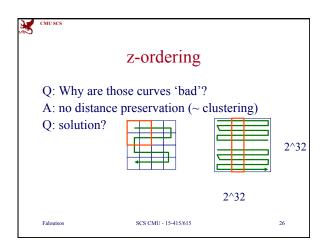


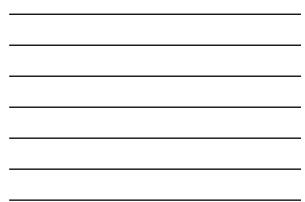


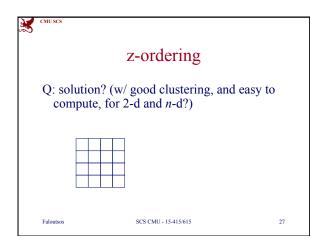








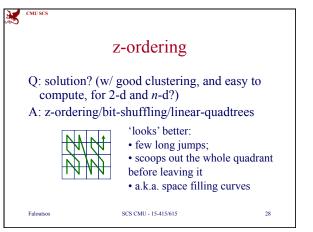






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Faloutsos



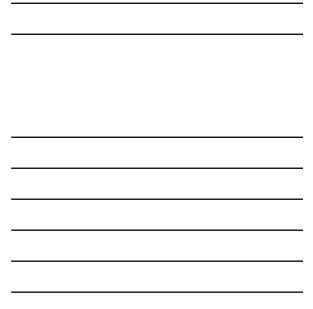
z-ordering

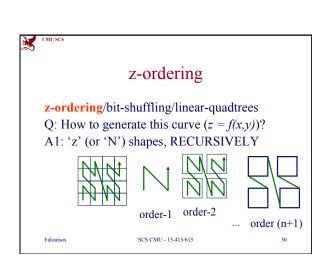
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29

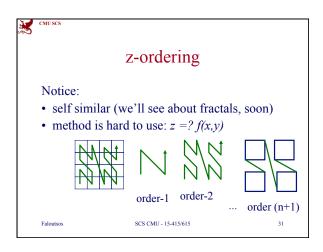
z-ordering/bit-shuffling/linear-quadtrees Q: How to generate this curve (z = f(x,y))?

A: 3 (equivalent) answers!

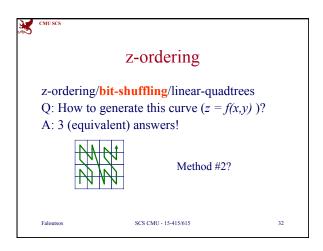




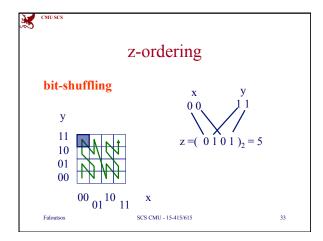




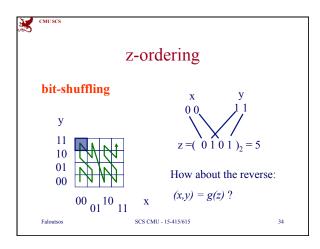




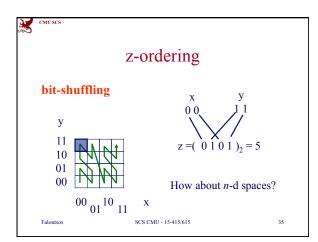




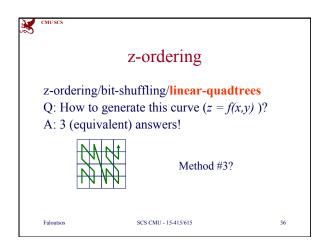




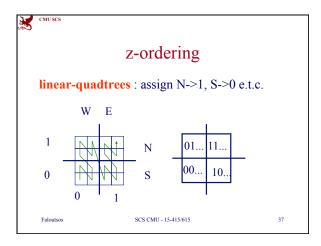




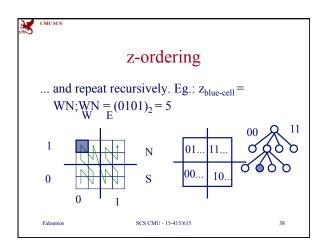




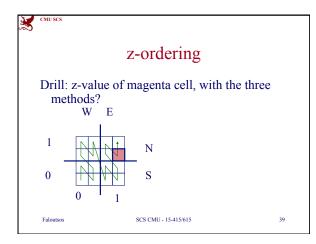




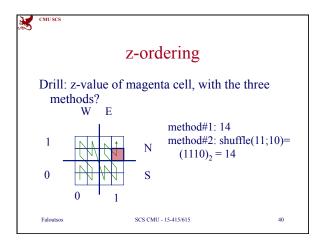




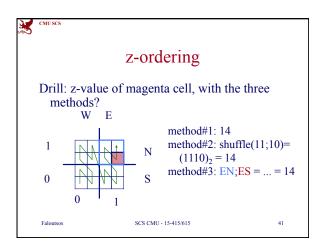




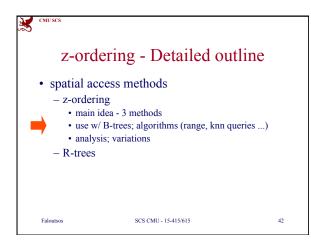




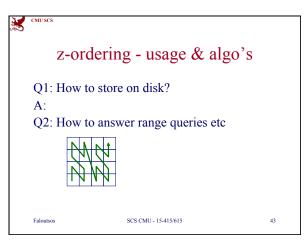




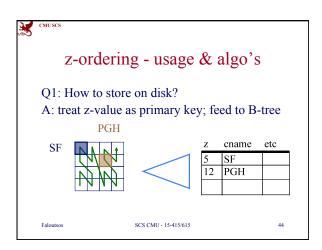




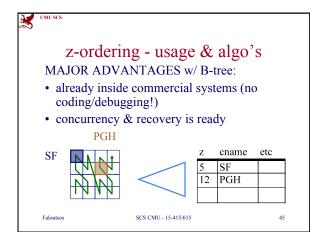




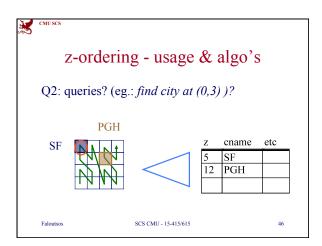




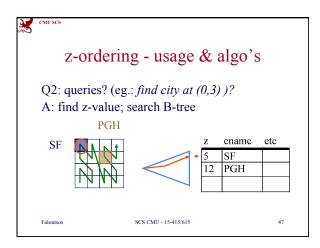




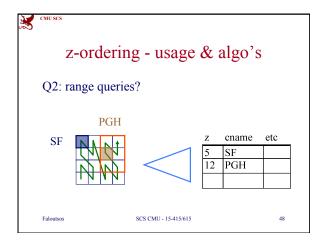




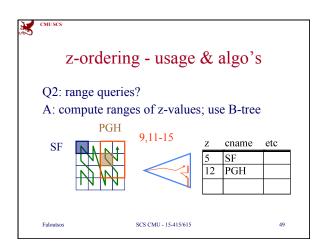




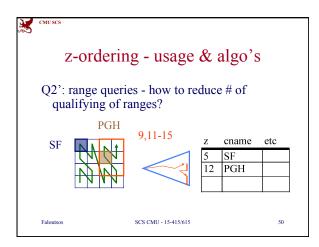




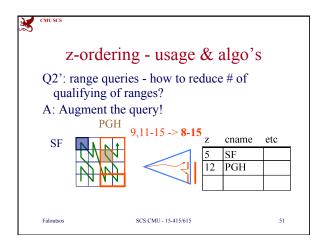




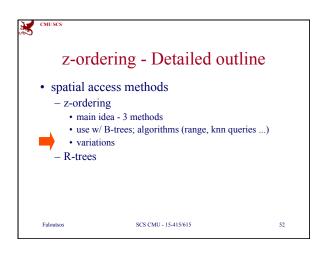




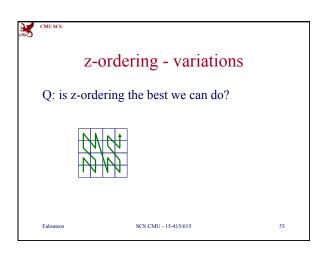




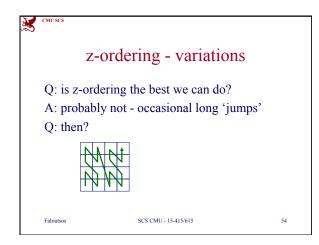


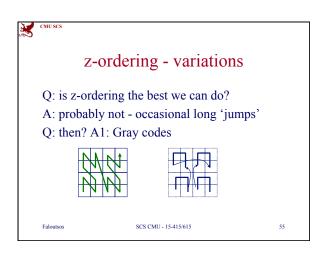




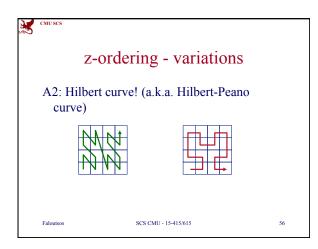




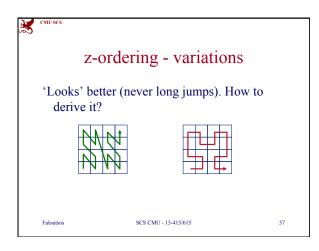














CMU SCS					
z-ordering - variations					
'Looks' better (never long jumps). How to derive it?					
		☐ ☐			
order-1	order-2	order (n+1)			
Faloutsos	SCS CMU - 15-415/615	58			



