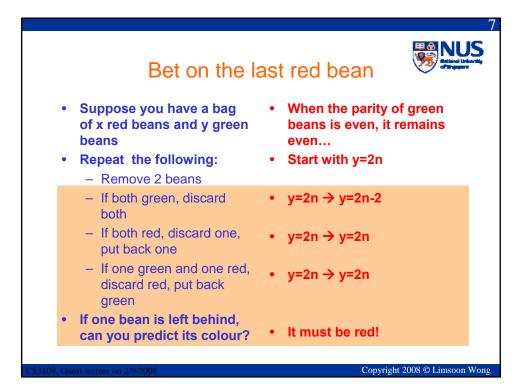






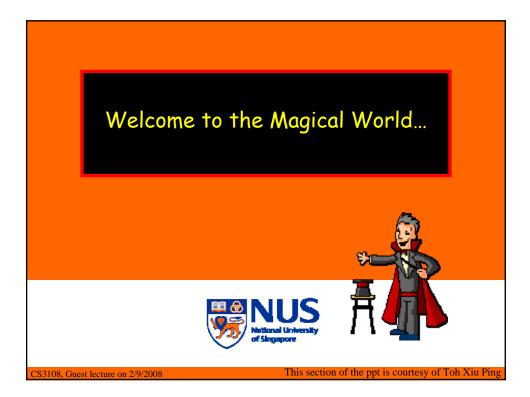


Bet on the las	st green bean
 Suppose you have a bag of x red beans and y green beans 	 When the parity of green beans is odd, it remains odd
Repeat the following: A Remove 2 beans	• Start with y=2n+1
 If both green, discard both 	• y=2n+1 → y=2n-1
 If both red, discard one, put back one 	• y=2n+1 → y=2n+1
 If one green and one red, discard red, put back green 	• y=2n+1 → y=2n+1
• If one bean is left behind, can you predict its colour?	• It must be green!
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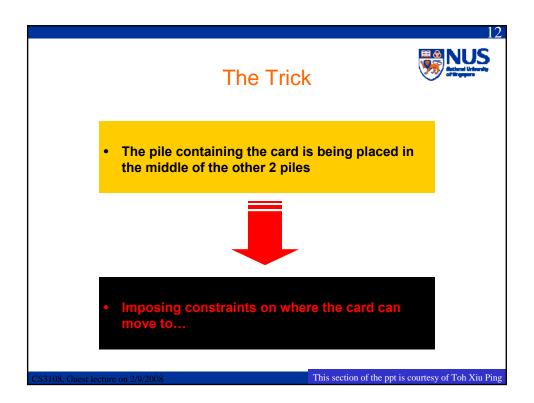






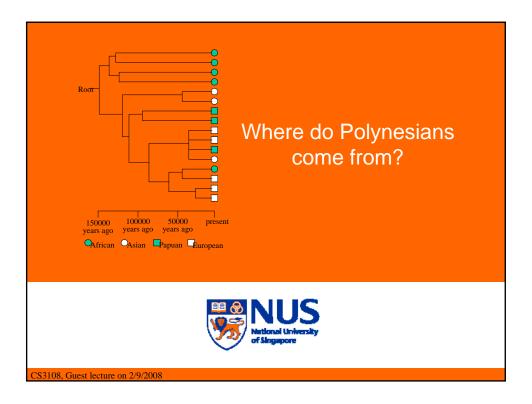


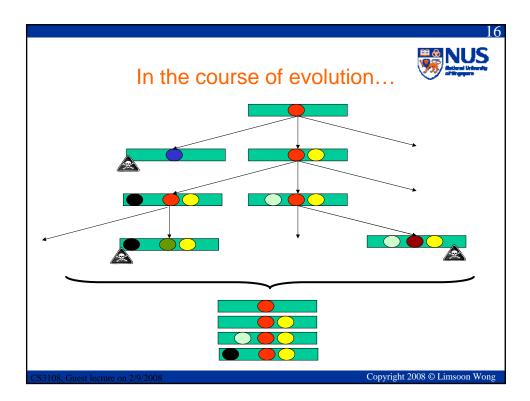


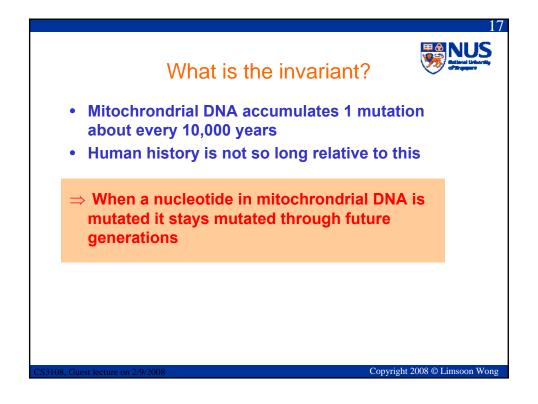


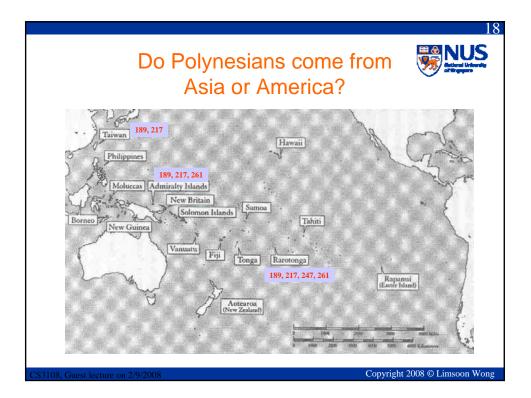
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21	22	23	24	25	26	27
31	32	33	34	35	36	37
fter the	first distr	ibution, .		16	32	35
				16 17	32 33	35 36

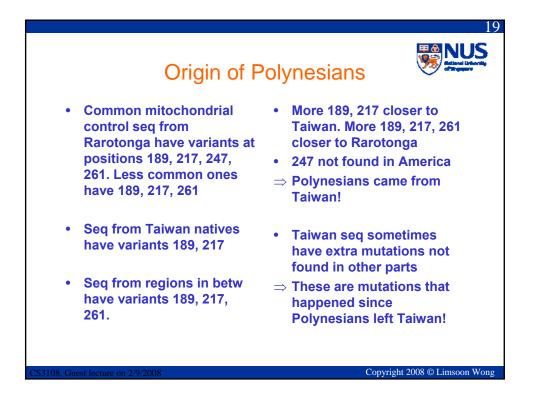


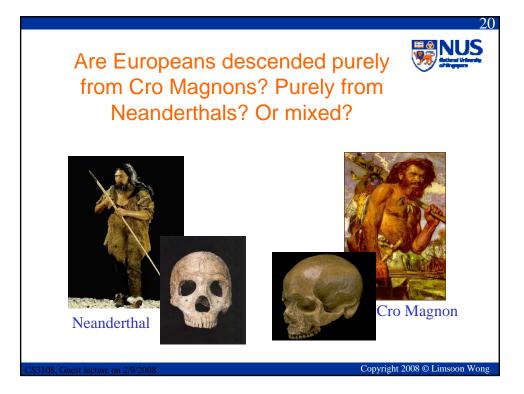


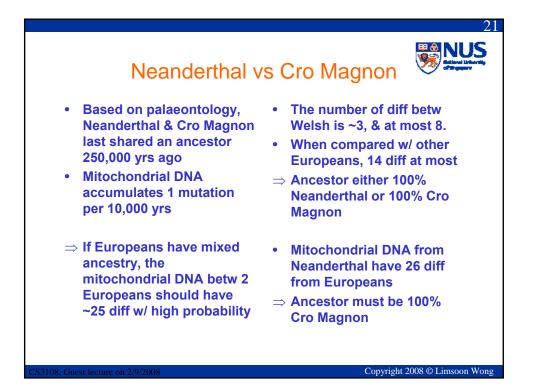


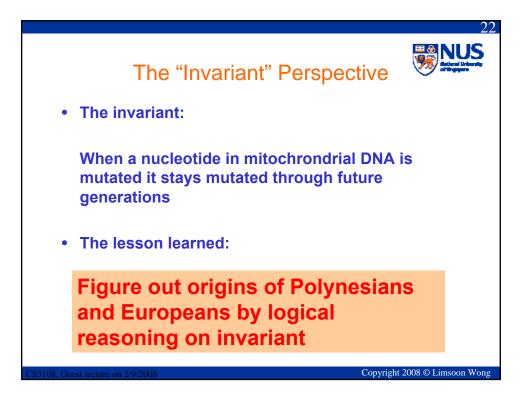




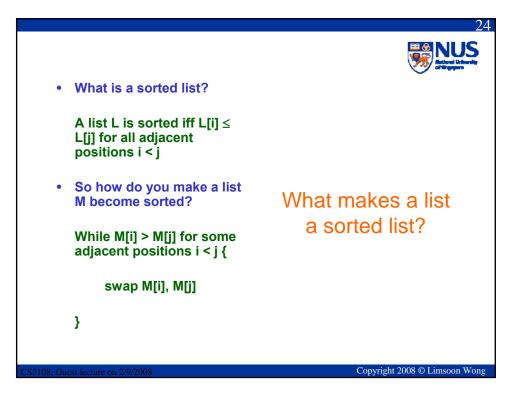


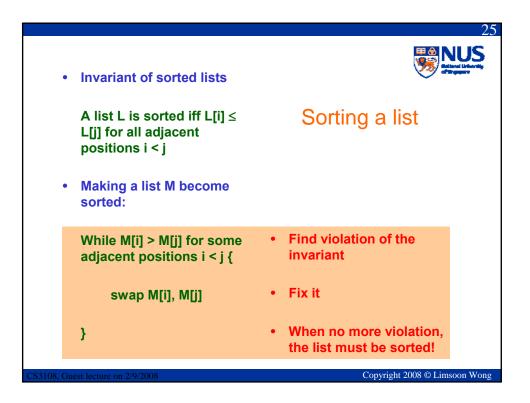






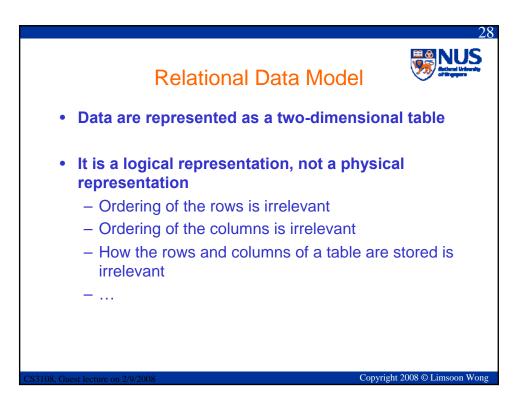










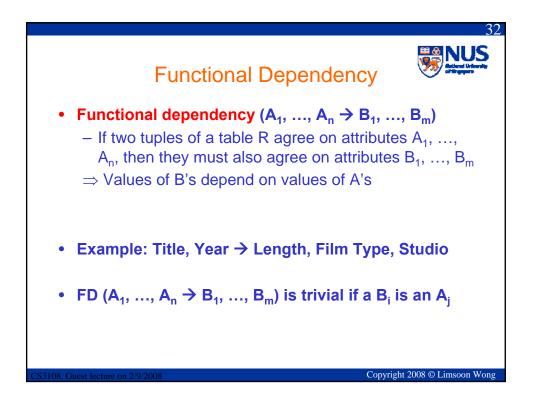


	Examp	le				NUS
	Contract	S				
	Contract No	Star	Studio	Title		Salary
(salary)	1	Carrie Fisher	Fox	Star	Nars	\$\$\$
	2	Mark Hamill	Fox	Star	Nars	\$\$\$
Contracts	3	Harrison Ford	Fox	Star	Nars	\$\$\$
Star-of Studio-of Stars	Movie-of film:	_	Stars Name Carrie F Mark Ha			wood
name	Z		Harriso	n Ford	Beve	rly Hills
	<u>ile</u> <u>year</u>	Movies				
(<u>name</u>) (addr)		Title Mighty Ducks	Year 1991	Lengtl		Im Type
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\bigcirc \bigcirc		wavne's world				
		Wayne's World Star Wars	1977	124	Co	olor

movi • Why movi • Indee	es using this part es?	ossik i tab icula not u reser	ole alt les? ar set use th nt mo	of tab is alter	ways les to	s to repre o represer ve single t	nt
	Title	Year	Length	Film Type	Studio	Star	
	Star Wars	1997	124	Color	Fox	Carrie Fisher	
	Star Wars	1997	124	Color	Fox	Mark Hamill	
	Star Wars	1997	124	Color	Fox	Harrison Ford	
	Mighty Ducks	1991	104	Color	Disney	Emilio Estevez	1
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What's wro	ong wit	h the	malie: "Wron		vies" table	? ?
Wrong	Movies	S Length	Film Type	Studio	Star	
Star Wars	1997	124	Color	Fox	Carrie Fisher	
Star Wars	1997	124	Color	Fox	Mark Hamill	
Star Wars	1997	124	Color	Fox	Harrison Ford	
Mighty Duc	(s 1991	104	Color	Disnev	Emilio Estevez	

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							3
(Can you		entify	the F	-D's	here?	
	Wrong Mo	V1es Year	Length	Film Type	Studio	Star	
	Star Wars	1997	124	Color	Fox	Carrie Fisher	
	Star Wars	1997	124	Color	Fox	Mark Hamill	
	Star Wars	1997	124	Color	Fox	Harrison Ford	
	Mighty Ducks	1991	104	Color	Disney	Emilio Estevez	
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