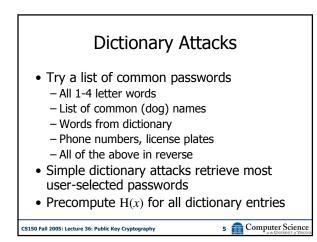
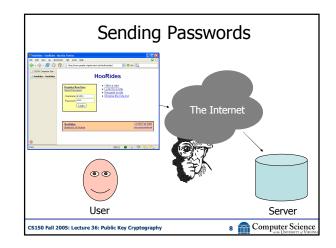


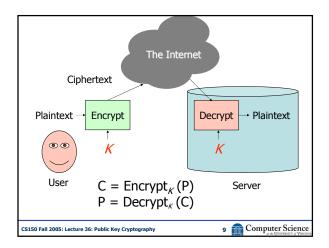
UserID	Password
alyssa	<i>f</i> (``fido")
ben	f("schemer")
dave	<i>f</i> (``Lx.Ly.x'')

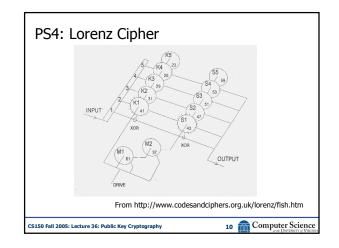


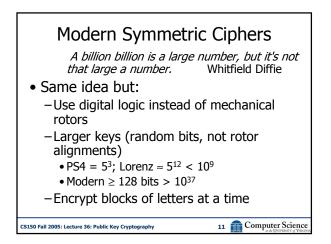
(at least) 86% of users are				
dumb and dumber				
Single ASCII character	0.5%			
Two characters	2%			
Three characters	14%			
Four alphabetic letters	14%			
Five same-case letters	21%			
Six lowercase letters	18%			
Words in dictionaries or names	15%			
Other (possibly good passwords)	14%			
(Morris/Thompson 79)				
CS150 Fall 2005: Lecture 36: Public Key Cryptography 6	Computer Science			

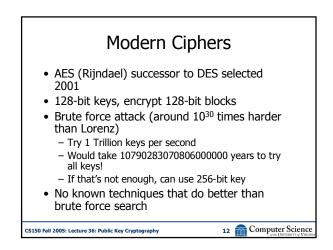
Salt of the Earth					
	UserID	Salt	Password		
	alyssa	1125	crypt ("Lx.Ly.x", 1125)		
	ben	2437	crypt ("schemer", 2437)		
	dave	932	crypt ("Lx.Ly.x", 932)		
Ho		des.net	the off-line dictionary attack? we use the user name as the salt. this better or worse?		
CS150 Fal	CS150 Fall 2005: Lecture 36: Public Key Cryptography 7 m Computer Science				

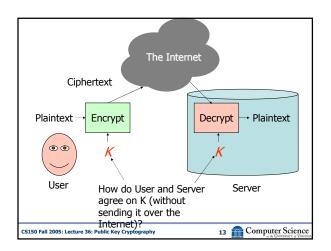


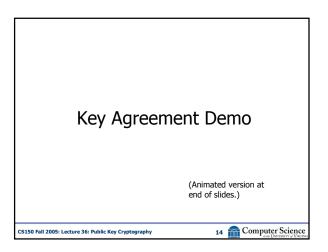


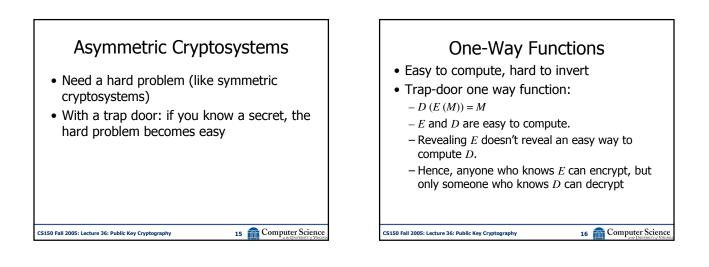


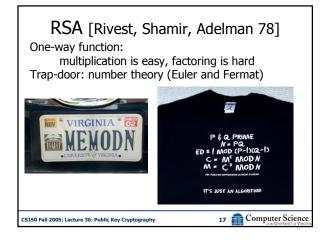


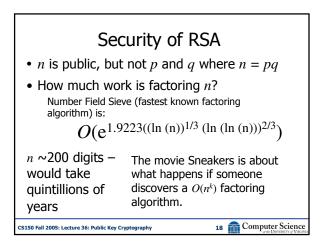


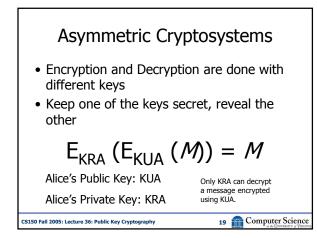


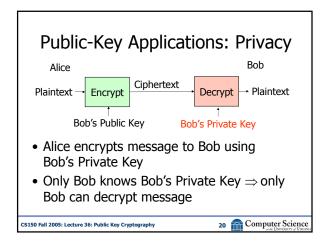


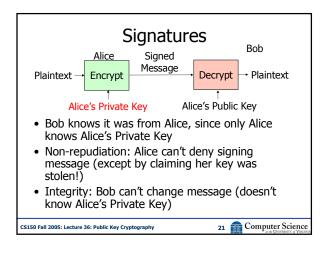


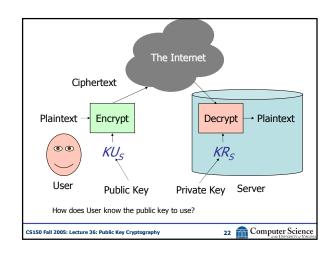




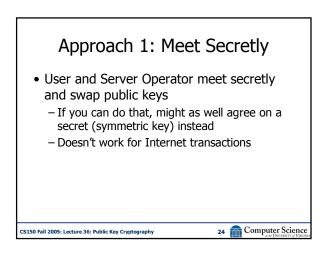


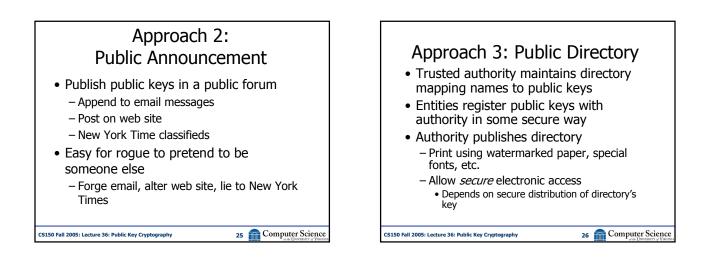


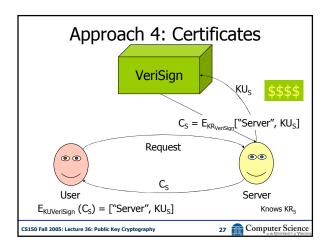


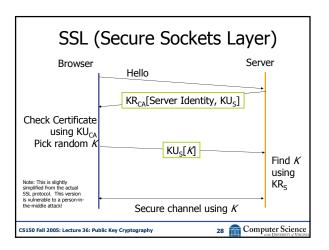


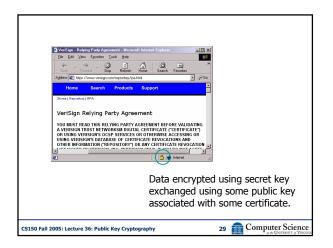


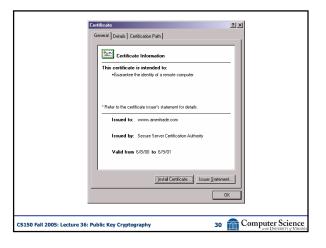


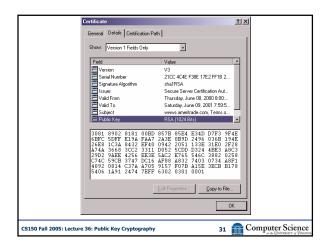


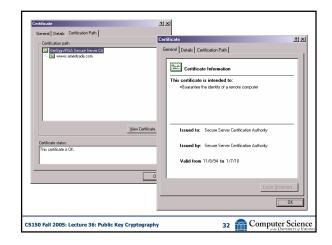


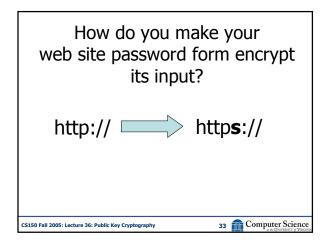




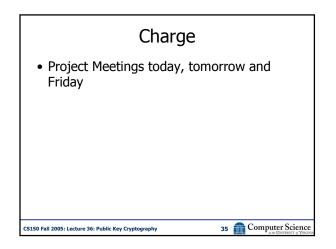


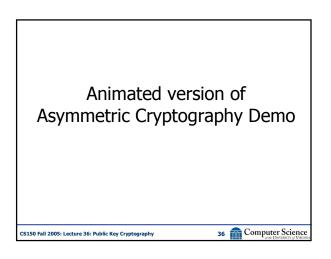


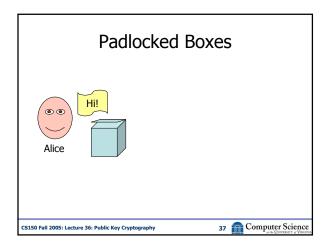


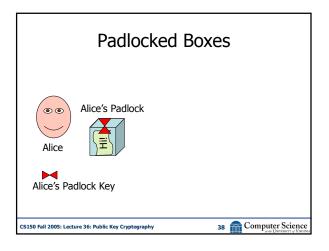


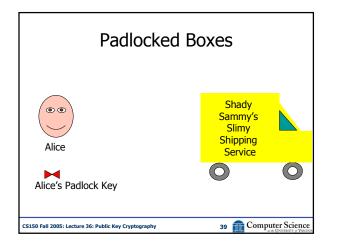
Exam 2: Requested Topics							
Торіс	Average	Friday's class will be on					
Biology (Monday's class)	4.130435	on finding prime factors	)				
Finding Aliens	4.347826	10	3				
How Google Works	2 695652	17	11				
Hardware	The 2 clas	ses after Thanksgiving wil	l be about Googl				
Implementing Interpreter	7.217391	1	0				
Software Security	6.434783	1	0				
Languages & Complexity	7.565217	3	1				
Testing	6.409091	2	0				
Viruses and Worms	4.782600						
Complex Language 5.68 include these topics (how Microsoft makes software more reliably)							

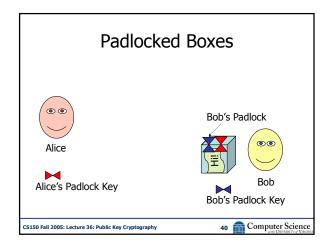


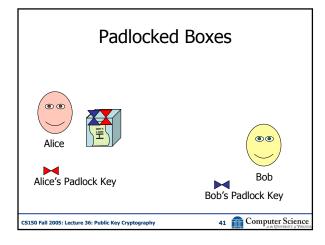


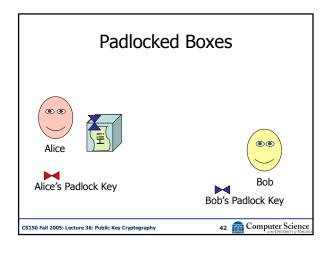


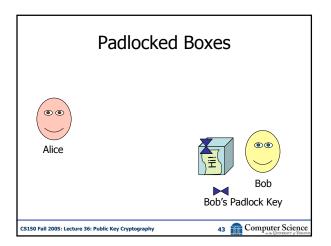












F	Padlocked Boxes
Alice	Hi! Bob's Padlock Key
CS150 Fall 2005: Lecture 36: Pub	ic Key Cryptography 44 Computer Science