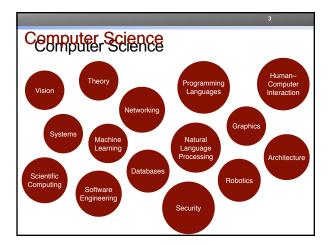
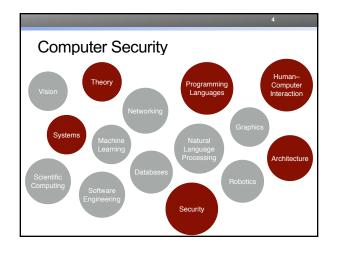
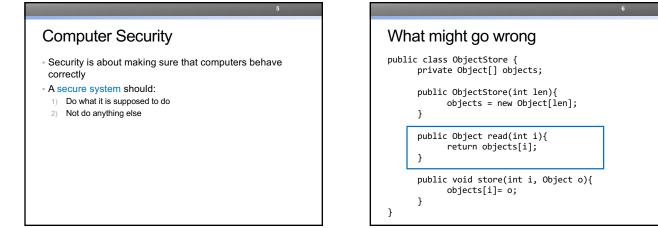
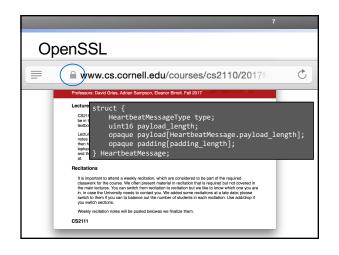


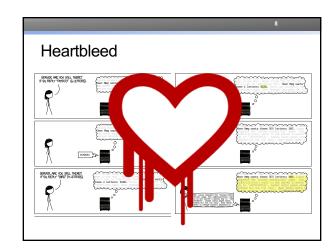
					2
Announcements					
 Course evals are available. Fill them in by 3pm tomorrow to receive an extra 1% towards your final grade. 					
 Recitations this week will be on a variety of topics, you can attend whichever one you want: 					
Tu 12:20	Bard 140	Regular Expressions	We 12:20	Bard 140	Debugging
Tu 12:20	Hollister 368	Kooky Data Structures	We 12:20	Olin 218	Dynamic Program
Tu 12:20	Olin 216	Sound	We 1:25	Bard 140	Version Control
Tu 12:20	Upson 216	Coding Interviews	We 1:25	Upson 216	Optionals
Tu 1:25	Hollister 206	Java 9	We 2:30	Bard 140	TBA
Tu 1:25	Hollister 312	Dynamic Programming	We 2:30	Phillips 407	Coding Interviews
Tu 2:30	Hollister 110	TBA	We 7:30	Upson 142	Coding Interviews
Tu 2:30	Olin 165	Collections			
Tu 3:35	Bard 140	Distributed Computing			

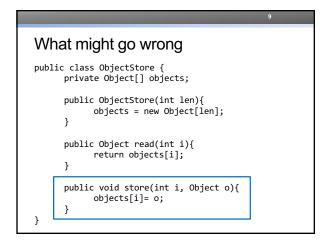


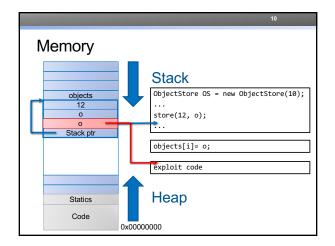


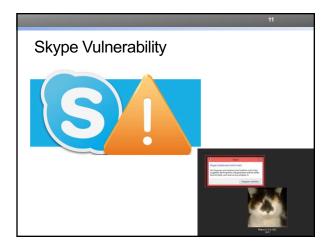


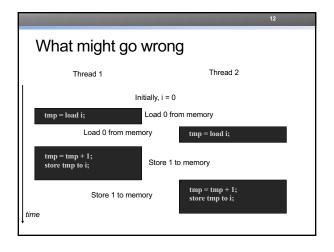






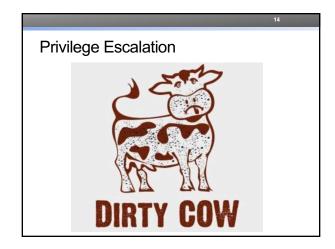






Copy-on-write (COW)

- Common resource optimization
- · When someone copies a file, it doesn't really get copies
- If/when someone modifies the "copy" the original file gets copied and modified



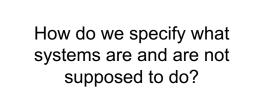






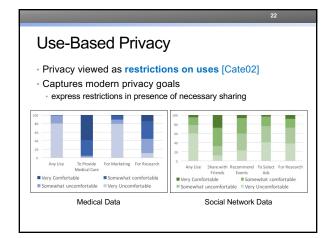
Security by Design

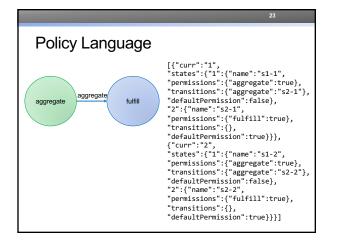
- Build secure, trustworthy computer systems/applications/etc.
- Define what the system is supposed to do
- Make sure it does that (and only that)

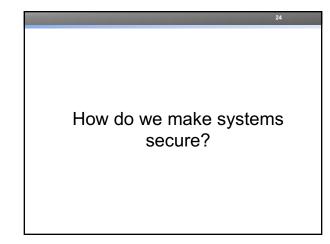




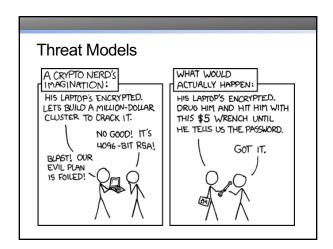


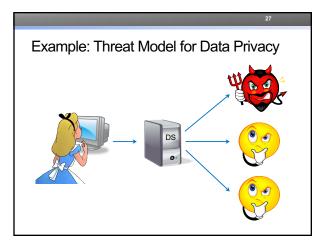


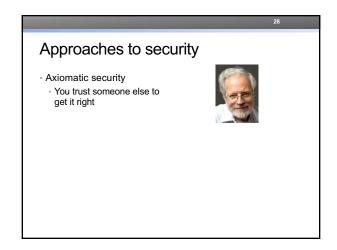


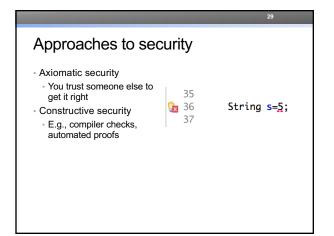


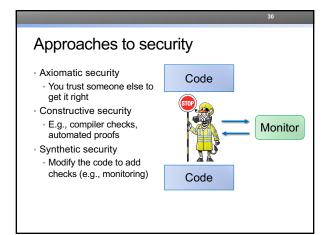












Approaches to security Axiomatic security · You trust someone else to get it right Constructive security · E.g., compiler checks, automated proofs Synthetic security

- Modify the code to add checks (e.g., monitoring) Deterrence through
- accountability
- · Make sure you'll notice if something goes wrong



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