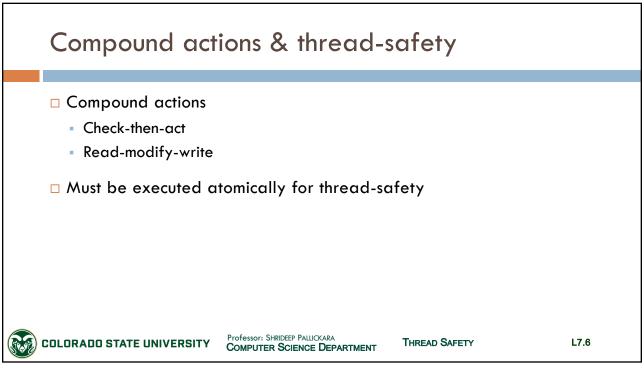
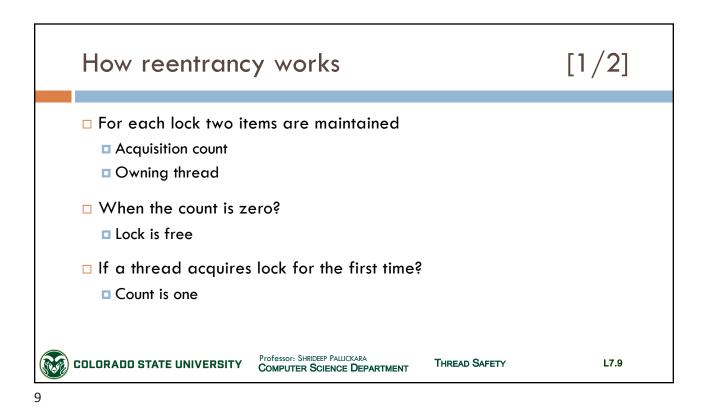


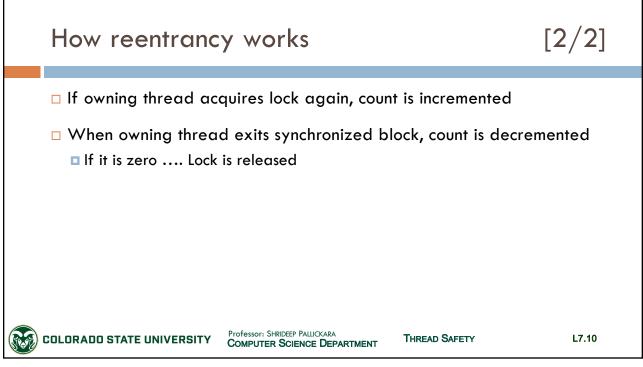
Atomicity with compound operations		
	<pre>public class CountingFactorizer {     private final AtomicLong count = new AtomicLong(0);     public long getCount() {return count;}     public void factorizer(int i) {         int[] factors = factor(i);         count.incrementAndGet();     } }</pre>	
COLORADO	STATE UNIVERSITY Professor: SHRIDEEP PALLICKARA COMPUTER SCIENCE DEPARTMENT THREAD SAFETY	L7.5

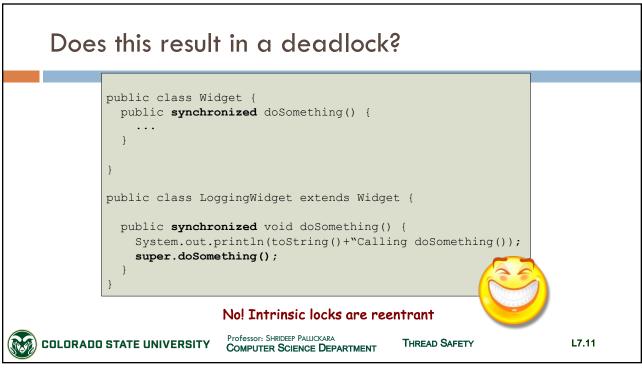


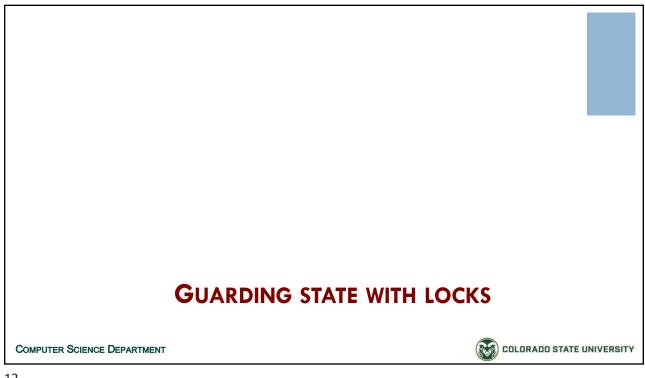


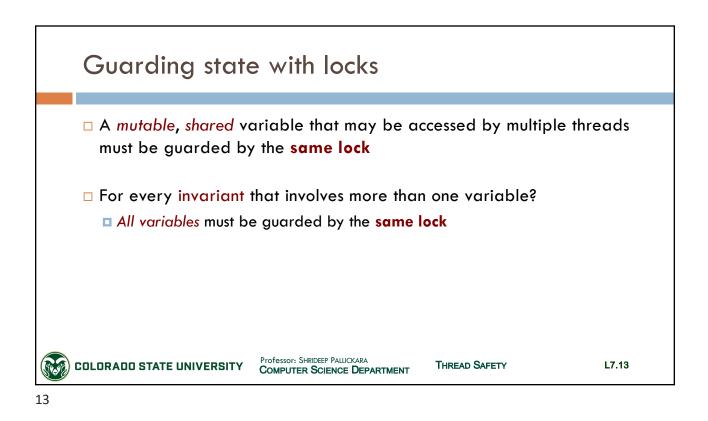
Recentrancy
When thread requests lock held by another thread?
Requesting thread blocks
If a thread attempts to acquire a lock it already holds?
Succeeds
Locks are acquired on a per-thread rather than on a per-invocation basis

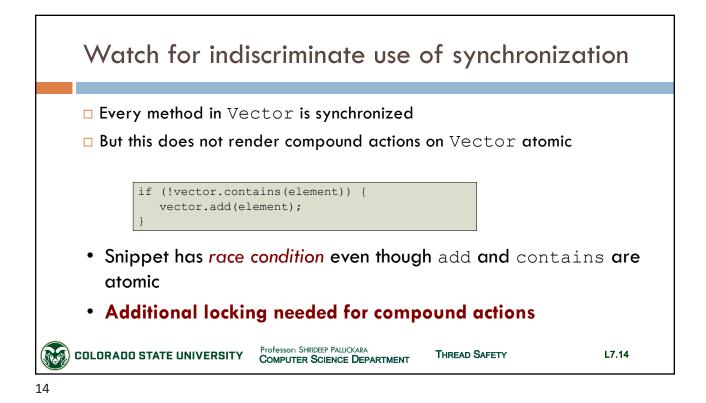


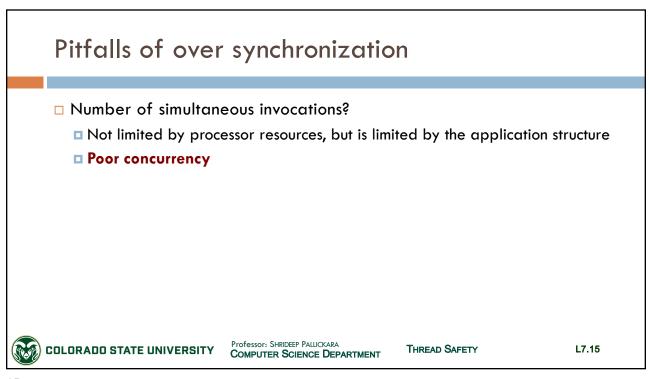




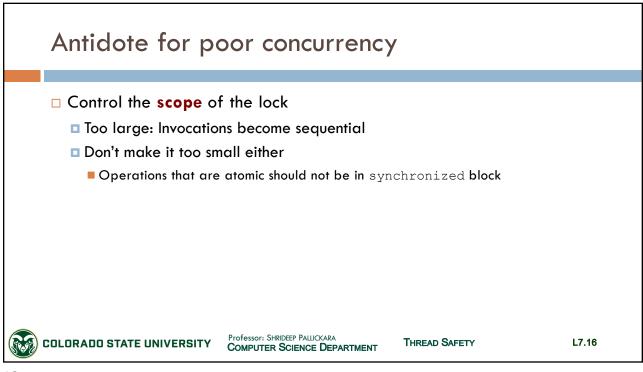


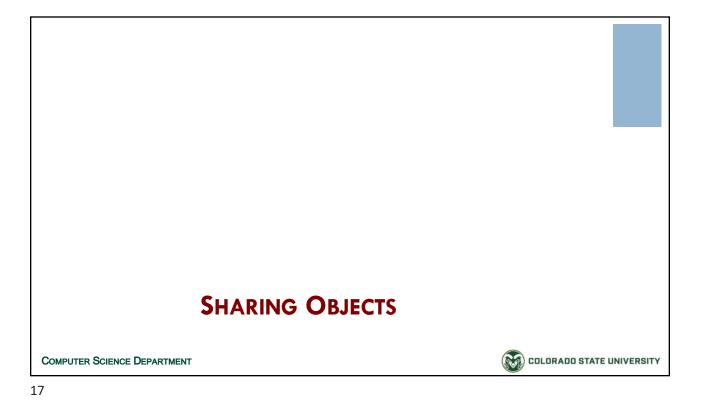




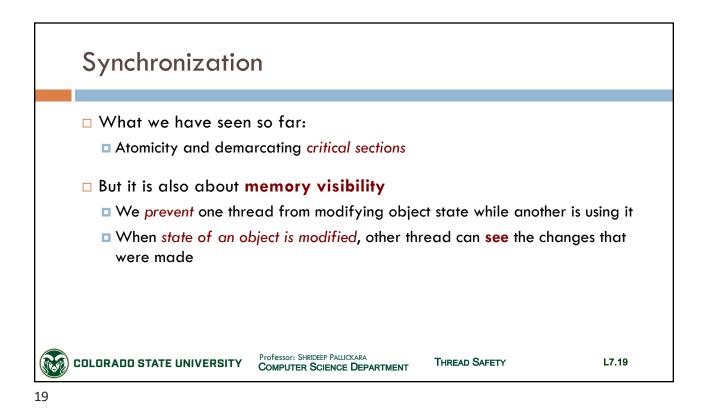


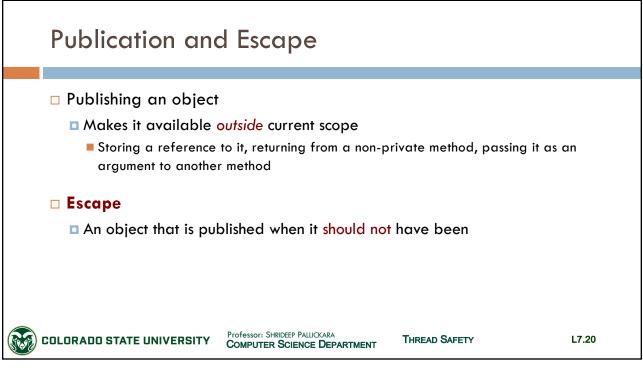
15

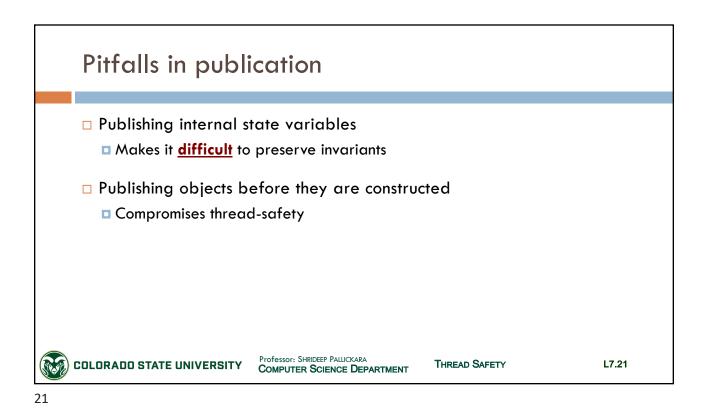


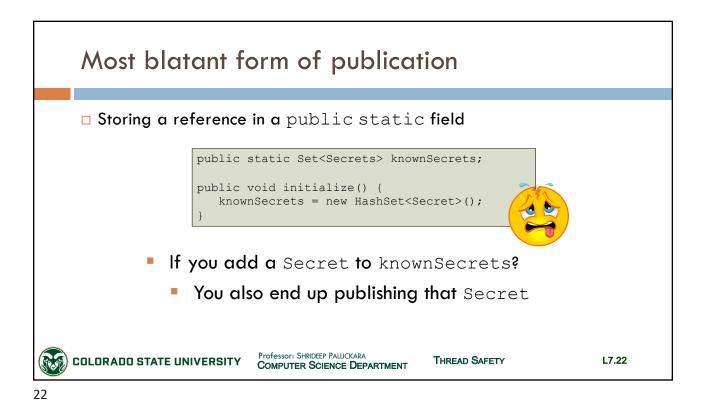


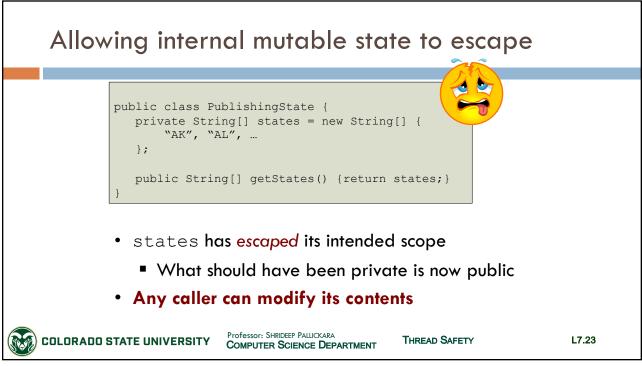


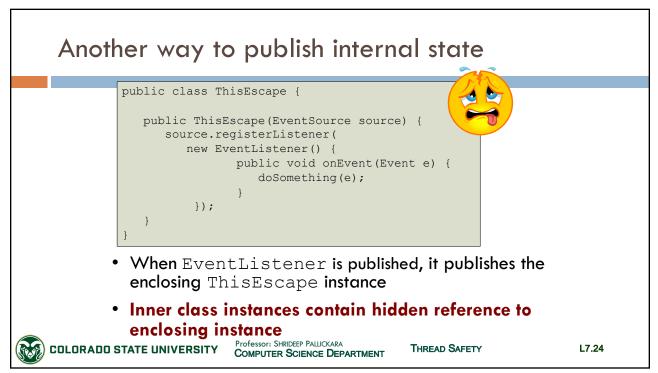


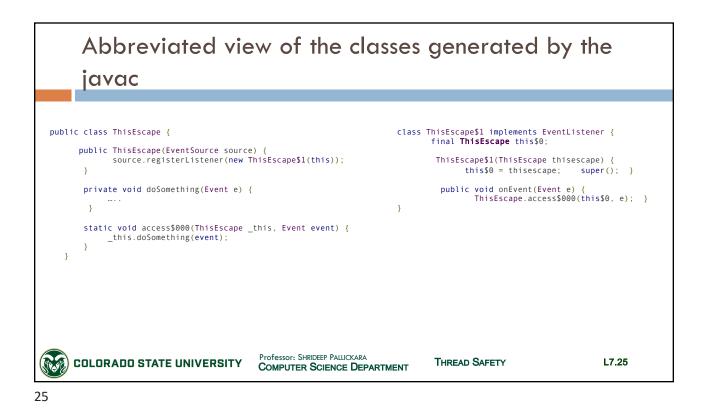


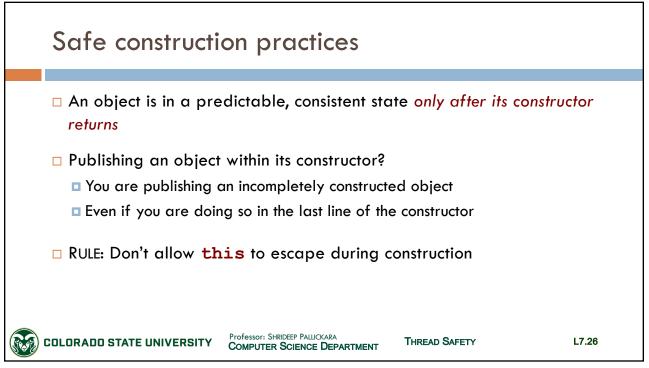


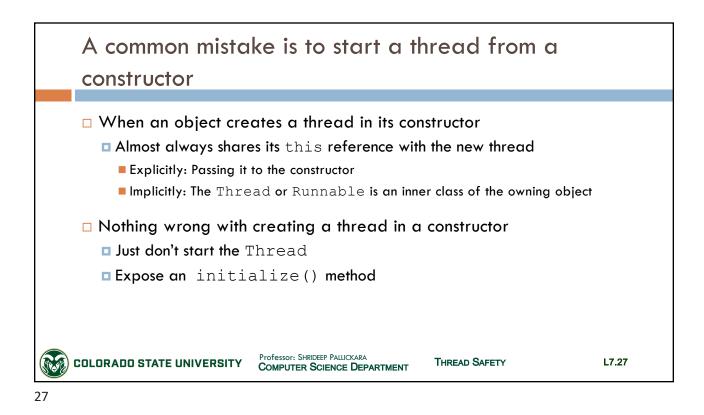




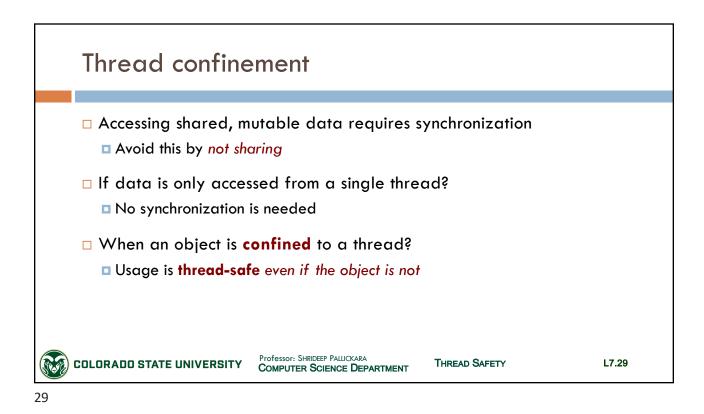


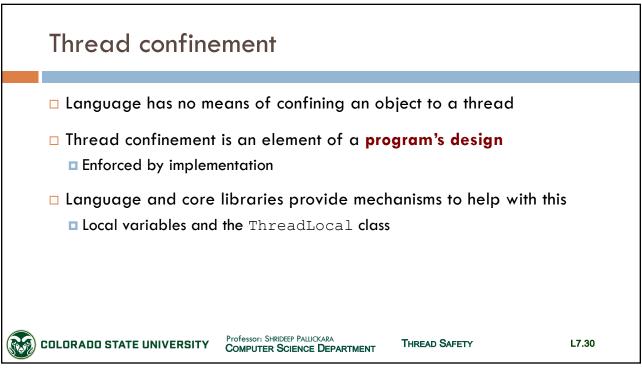


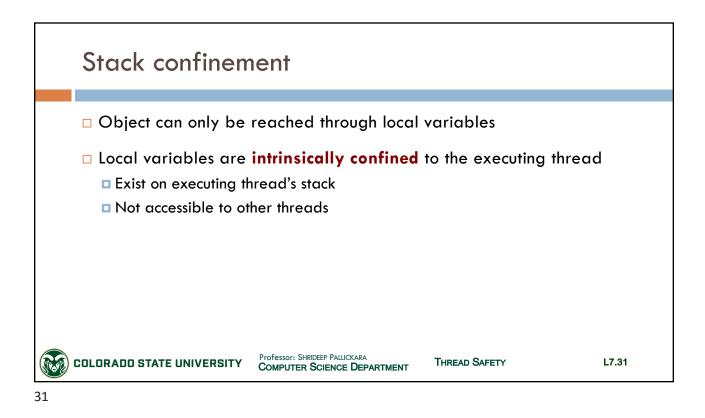


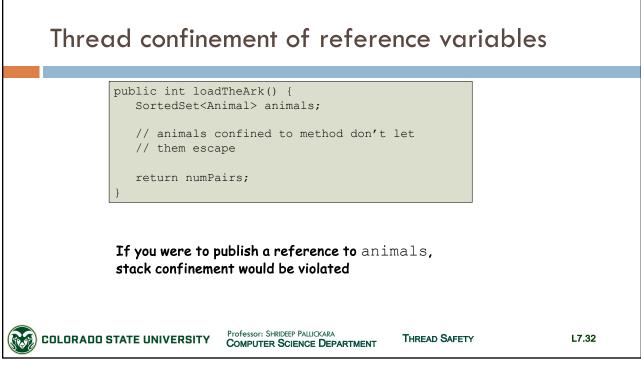


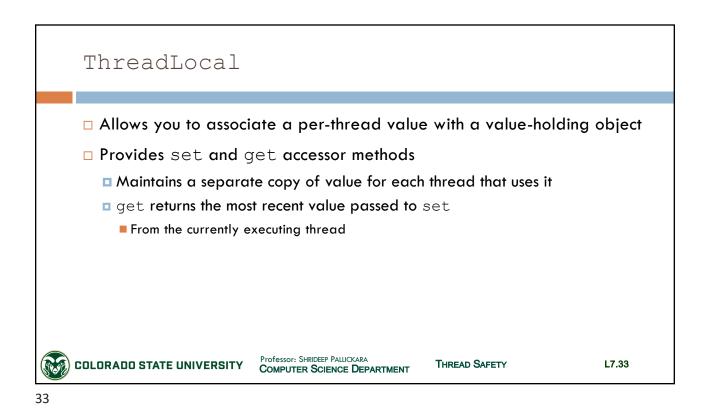




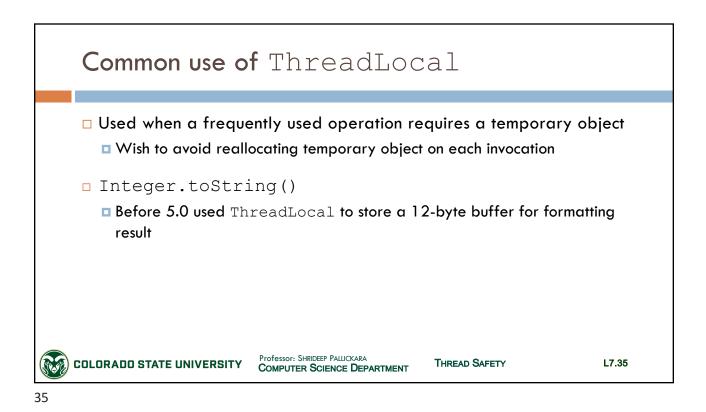


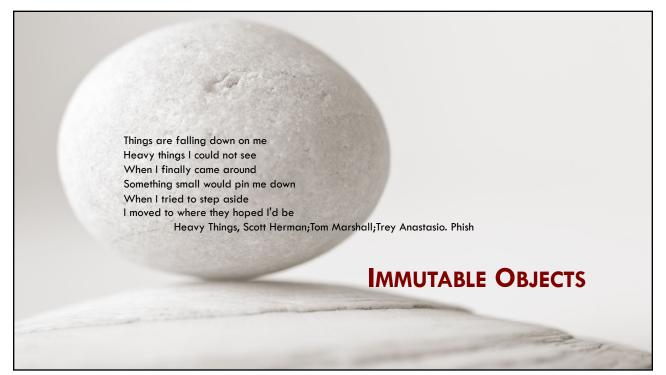


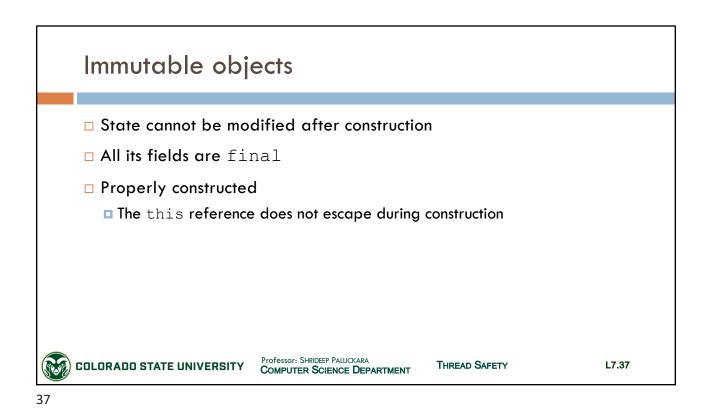


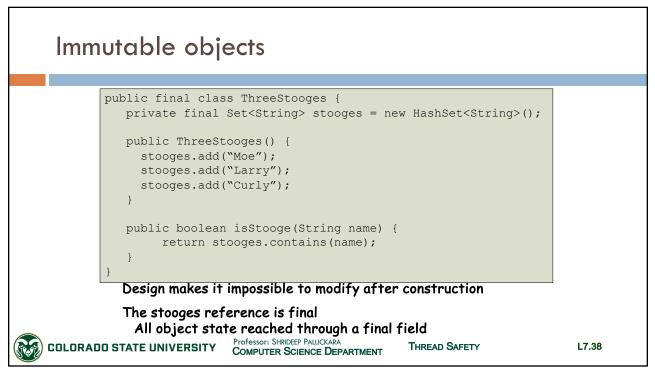


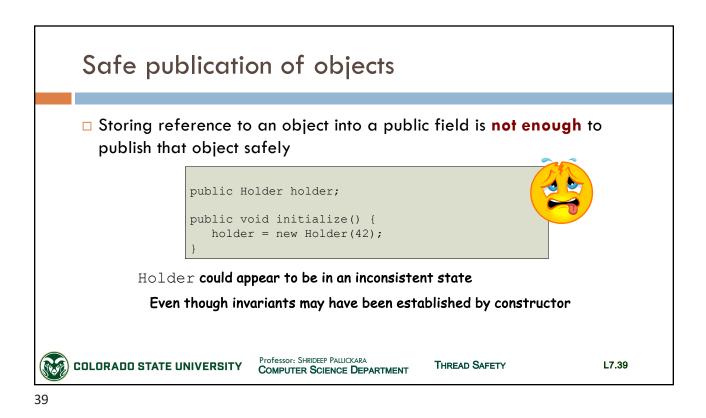


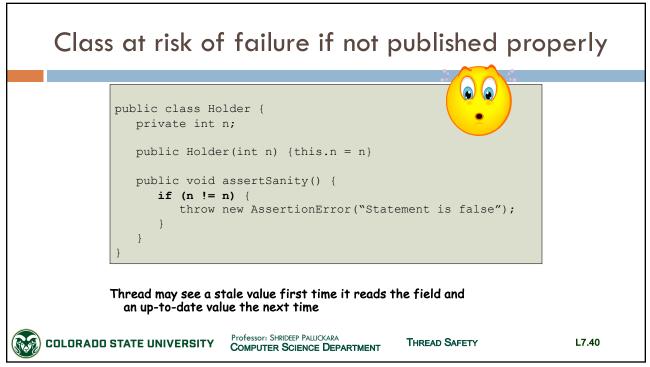




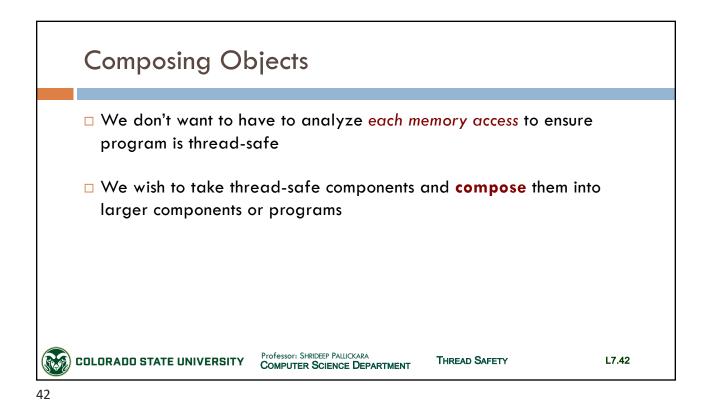


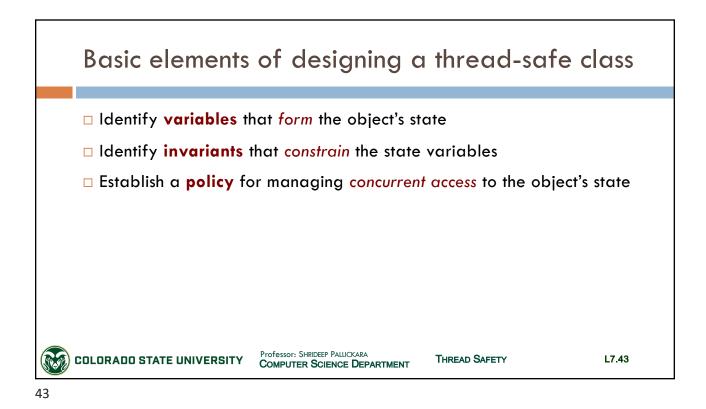


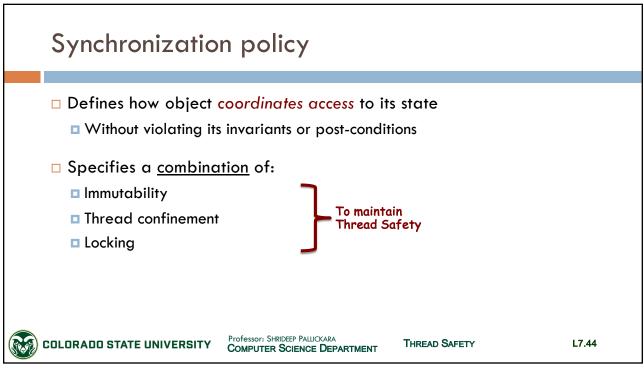


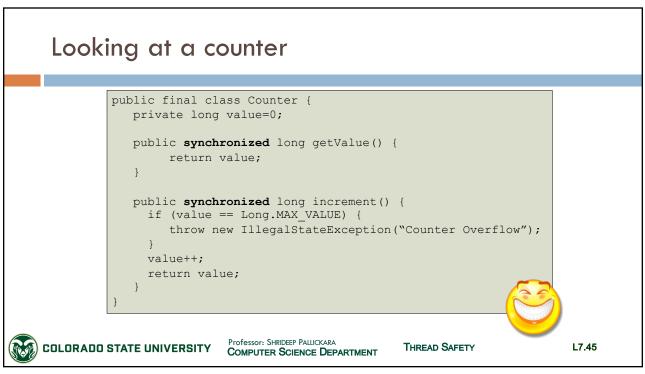


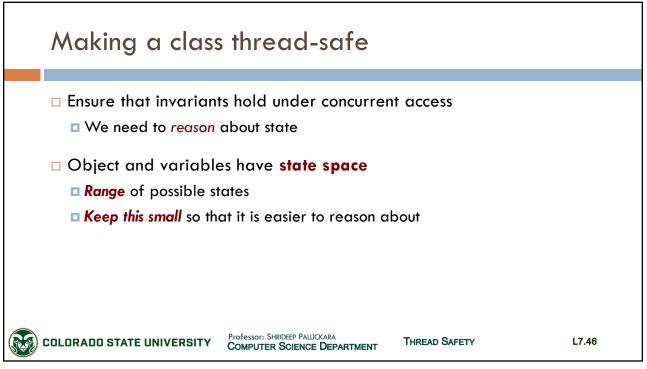


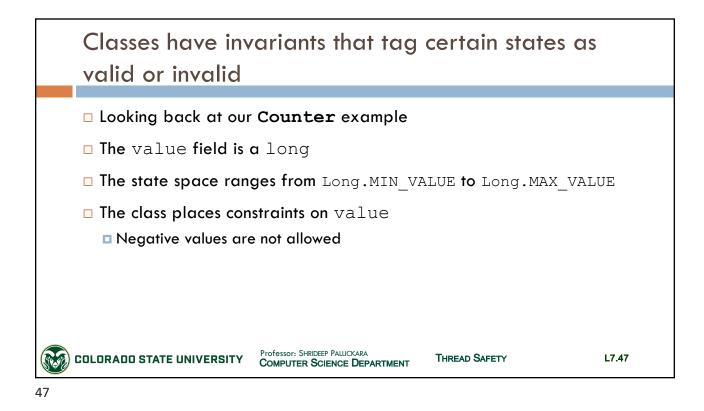


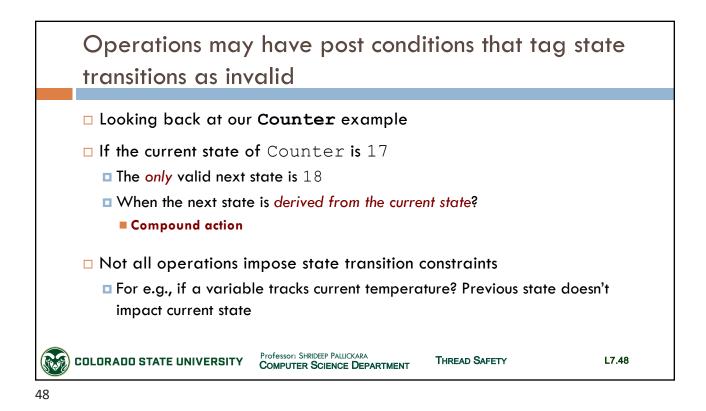


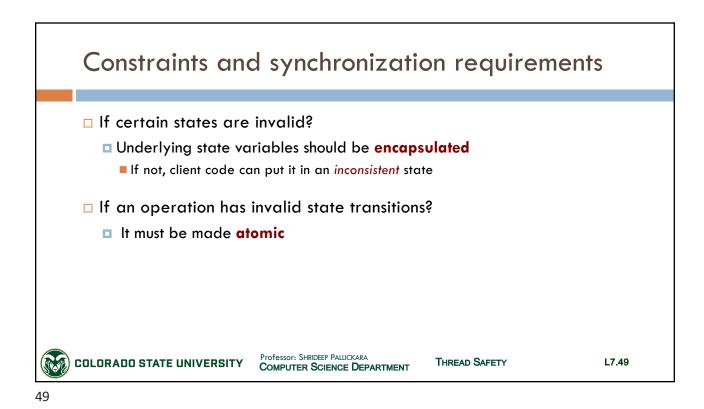


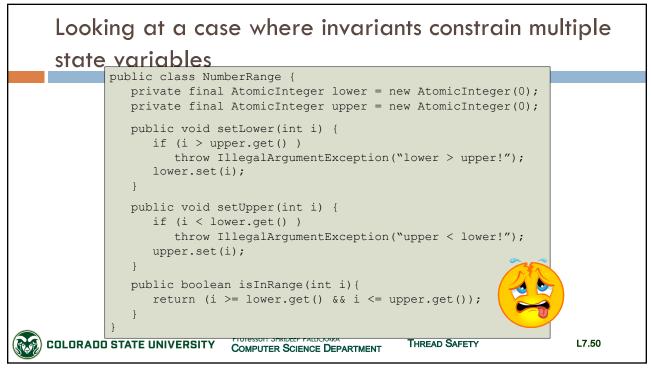


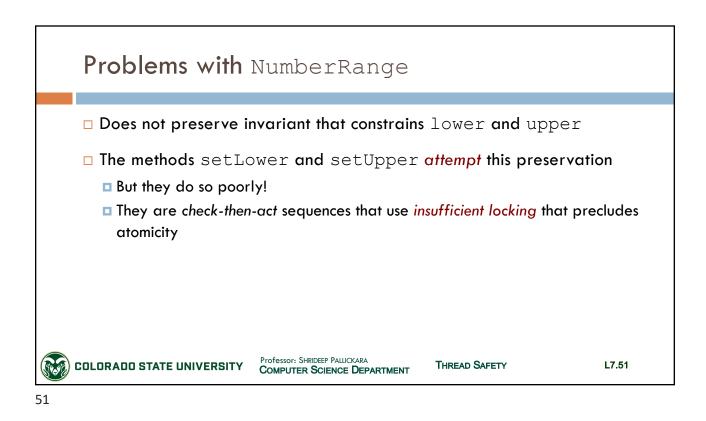


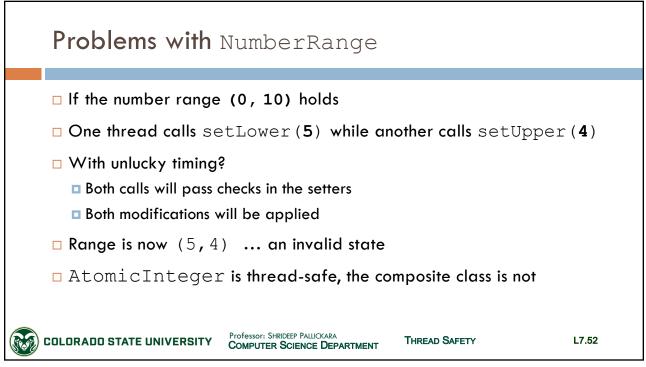


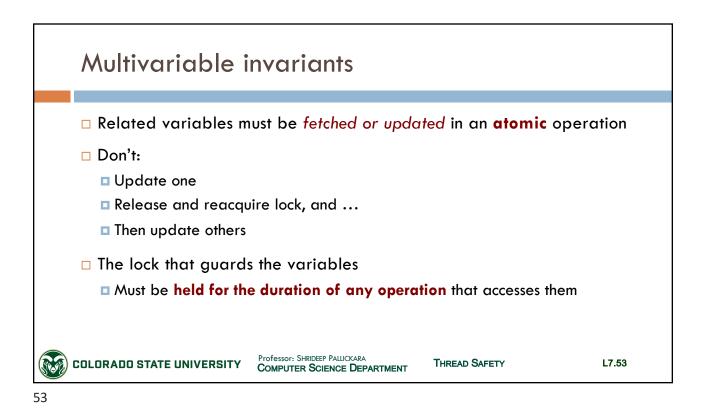


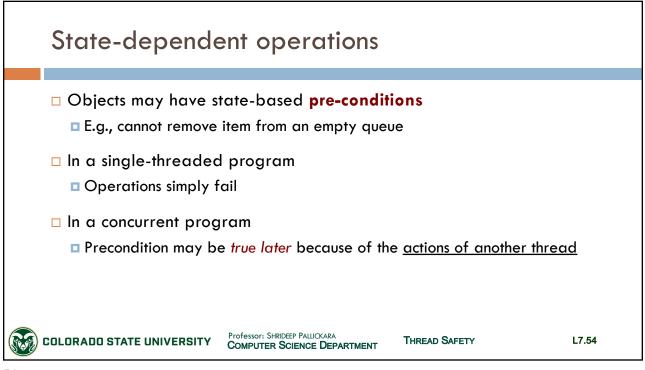












# CSx55: Distributed Systems

Dept. Of Computer Science, Colorado State University

