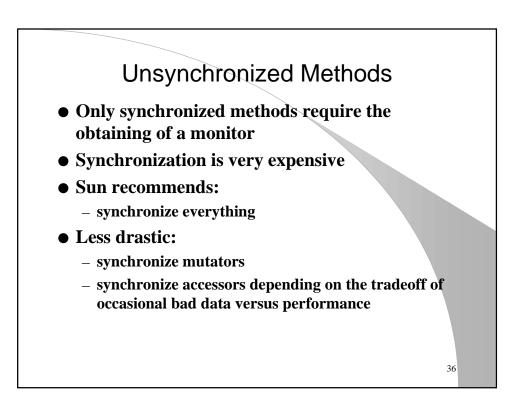
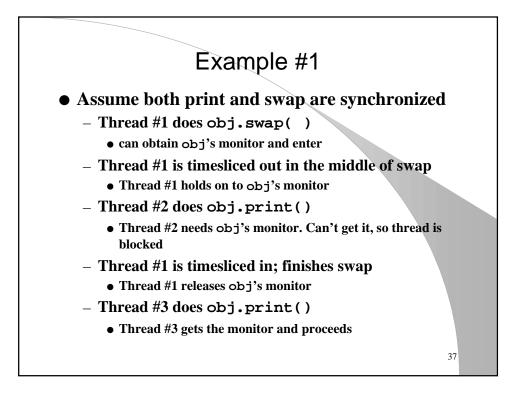
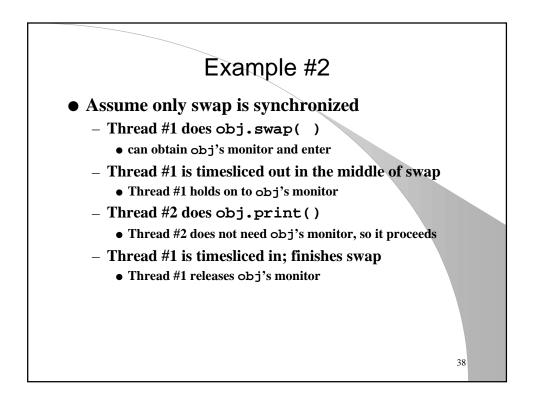


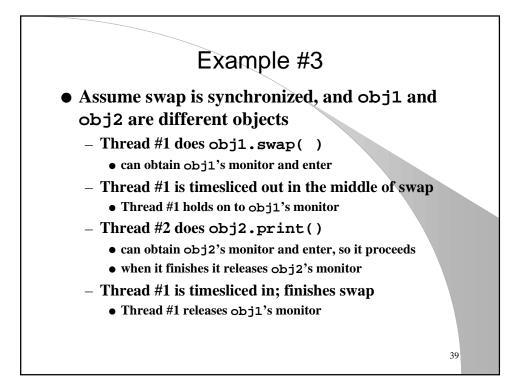
## How It Works

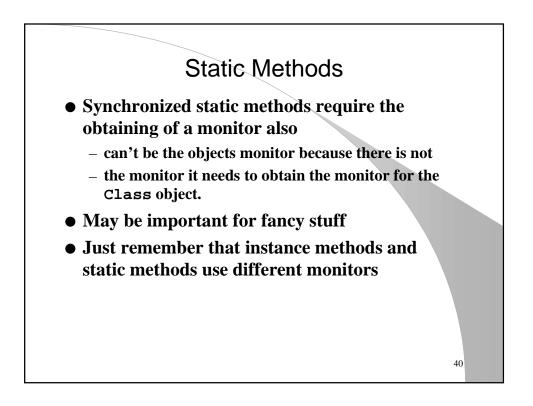
- To enter a synchronized method, thread must
  - either already own the monitor (perhaps this method is being called from another synchronized method)
  - get the monitor
  - once in, if you are timesliced out, you will keep the monitor, blocking other threads out
- If another thread already owns the monitor and has been timesliced out, you will be blocked from obtaining the monitor
- When thread leaves method from which it obtained monitor, monitor is released by VM 35

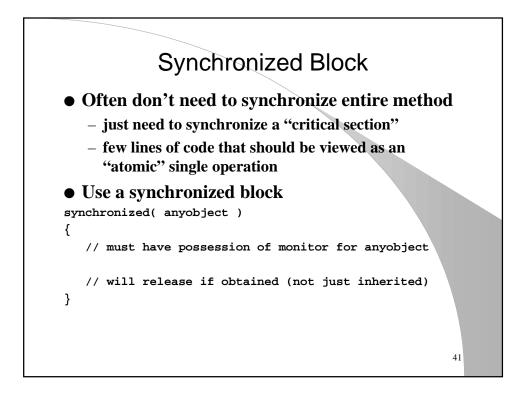


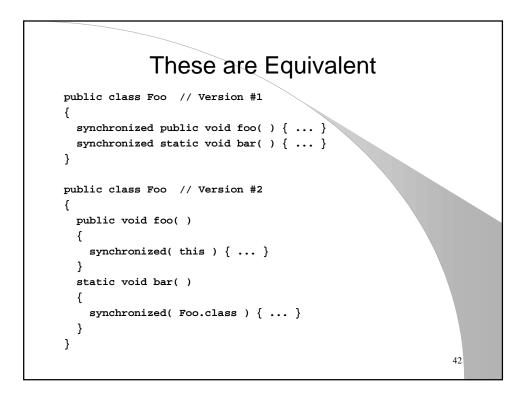


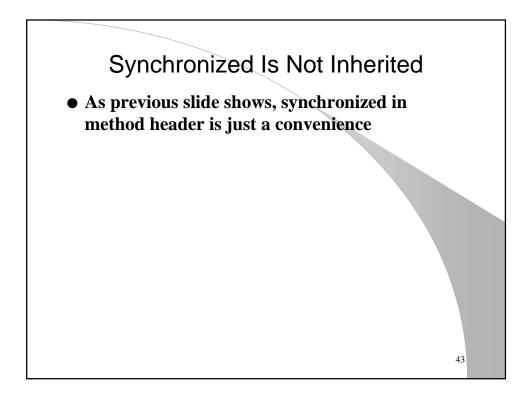


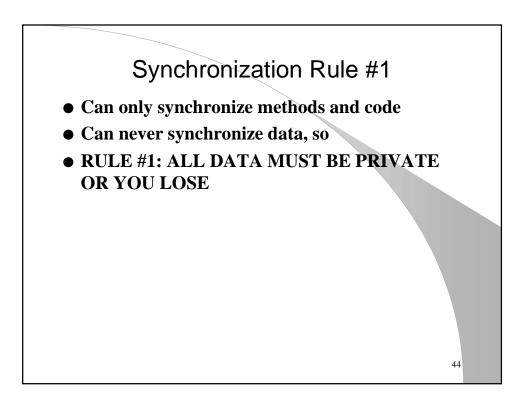


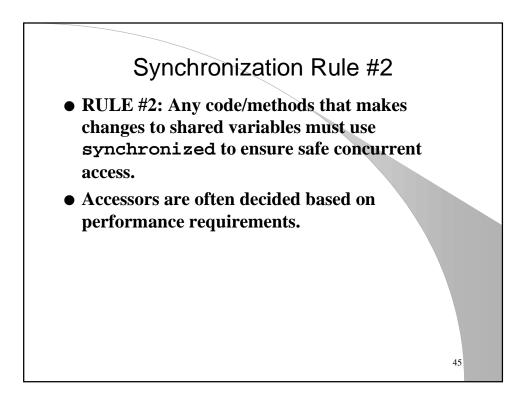


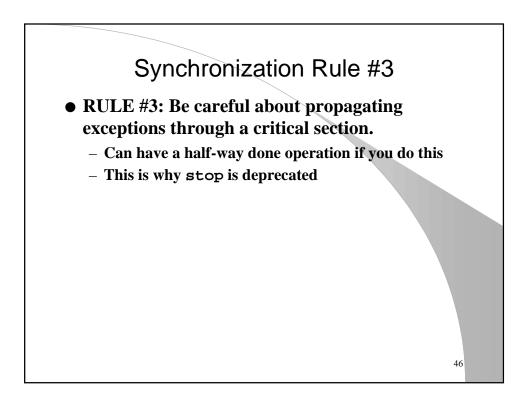


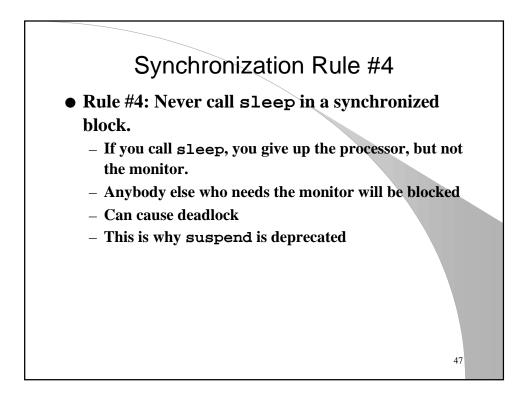


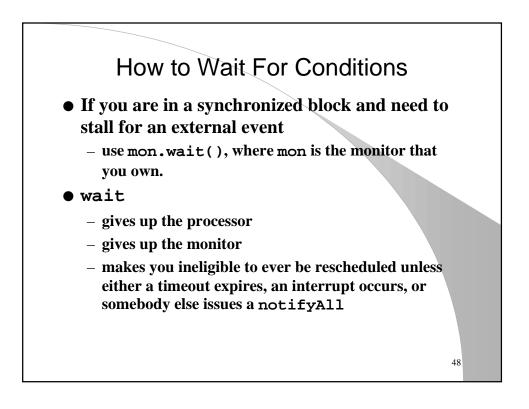












## notify vs notifyAll

- Once thread has done a wait, another thread the rectifies situation should issue a mon.notifyAll().
- mon.notifyAll reinstates scheduling eligibility for all threads that issued a mon.wait()
- mon.notify reinstates scheduling eligibility for one thread (VM chooses, not you) that issued a mon.wait()
  - extremely dangerous to use notify unless you know there is only one thread waiting. This method should be deprecated

