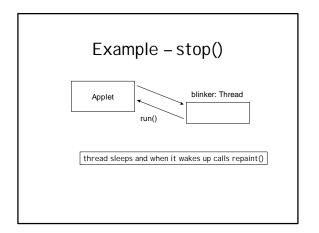
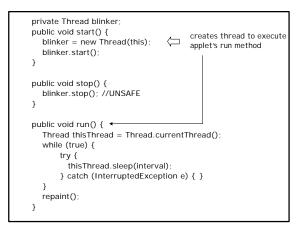
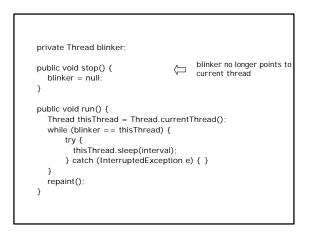


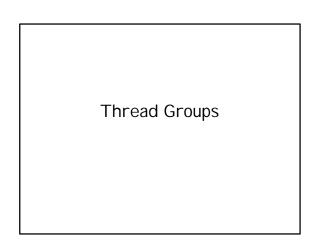
## stop()...

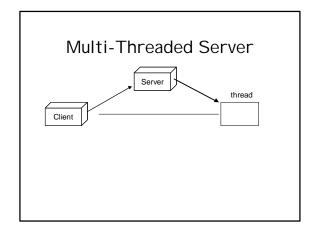
- stop() should be replaced by code that modifies some variable to indicate that the target thread should stop running.
  - The target thread should check this variable regularly, and return from its run method in an orderly fashion if the variable indicates that it is to stop running.
- If the target thread waits for long periods (on a condition variable, for example), the interrupt method should be used to interrupt the wait.

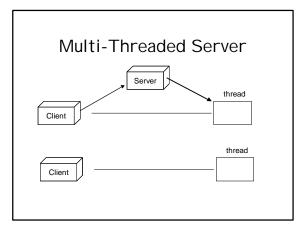


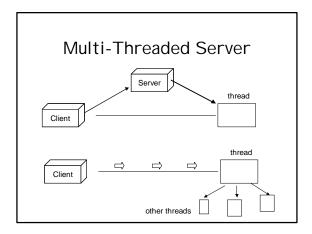


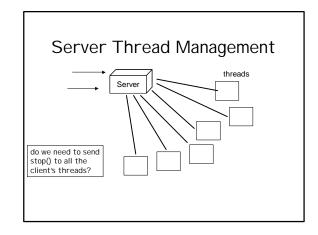


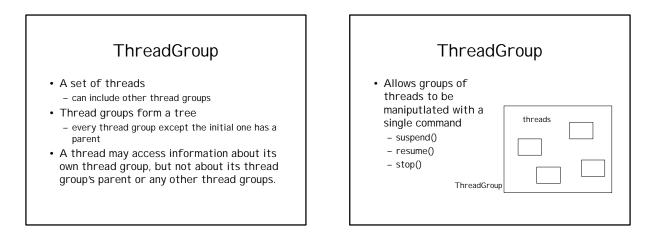


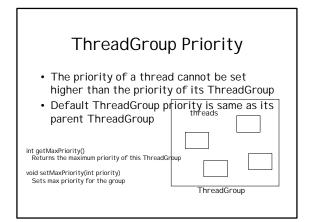


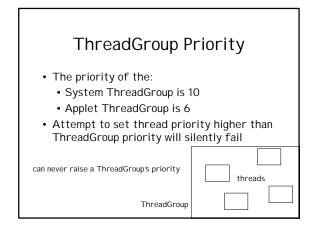










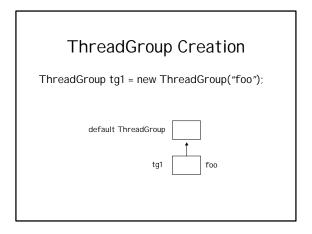


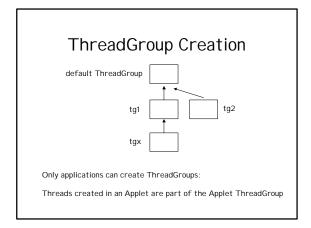
## Default ThreadGroup

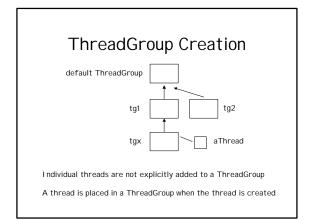
- Akk Java threads belong to some thread group
- If you don't specify, an arbitrary thread belongs to the "default" ThreadGroup

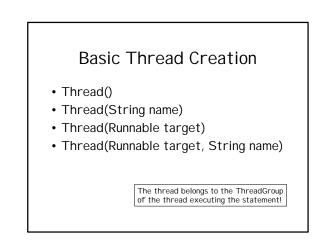
## Creating Thread Groups

- ThreadGroup(String name)
  - creates a  $\ensuremath{\mathsf{Thread}\mathsf{Group}}$  with the given name
  - the thread group is automatically a child of the current ThreadGroup
- ThreadGroup(ThreadGroup parent, String name) - creates a thread group that descends from the parent









## Basic Thread Creation – with Group

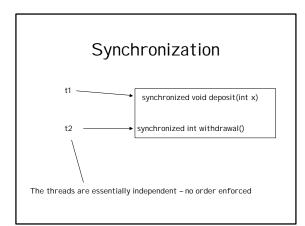
- Thread(ThreadGroup g, String name)
- Thread(ThreadGroup g, Runnable target)
- Thread(ThreadGroup g, Runnable target, String name)

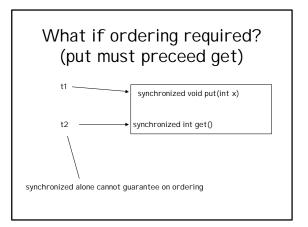
The thread belongs to the specified ThreadGroup g

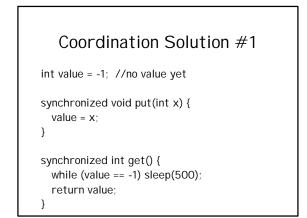
There are NO methods to remove a thread from its ThreadGroup

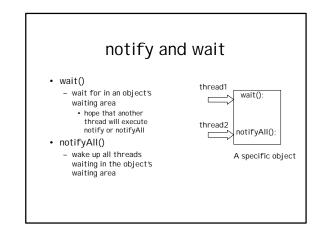


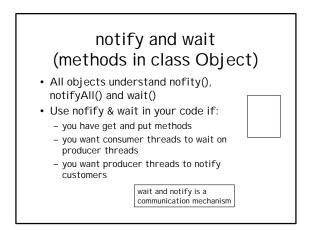
- other threads can provide
- wait and notify

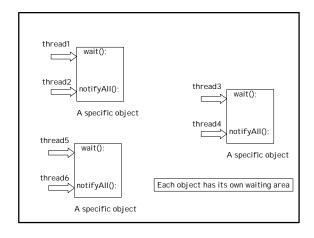












Coordination Solution #2	
int value = -1; //no value yet	guarantees that a put will aways occur
<pre>synchronized void put(int x) {     value = x; notifyAll(); }</pre>	before a get
<pre>synchronized int get() {     while (value == -1) wait();     return value; }</pre>	슈 No busy wait loop