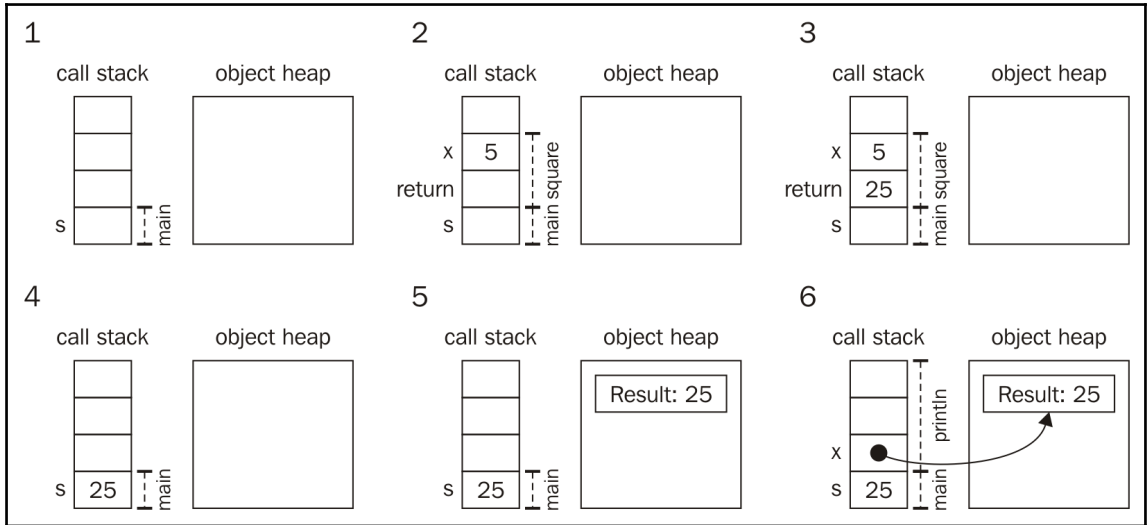
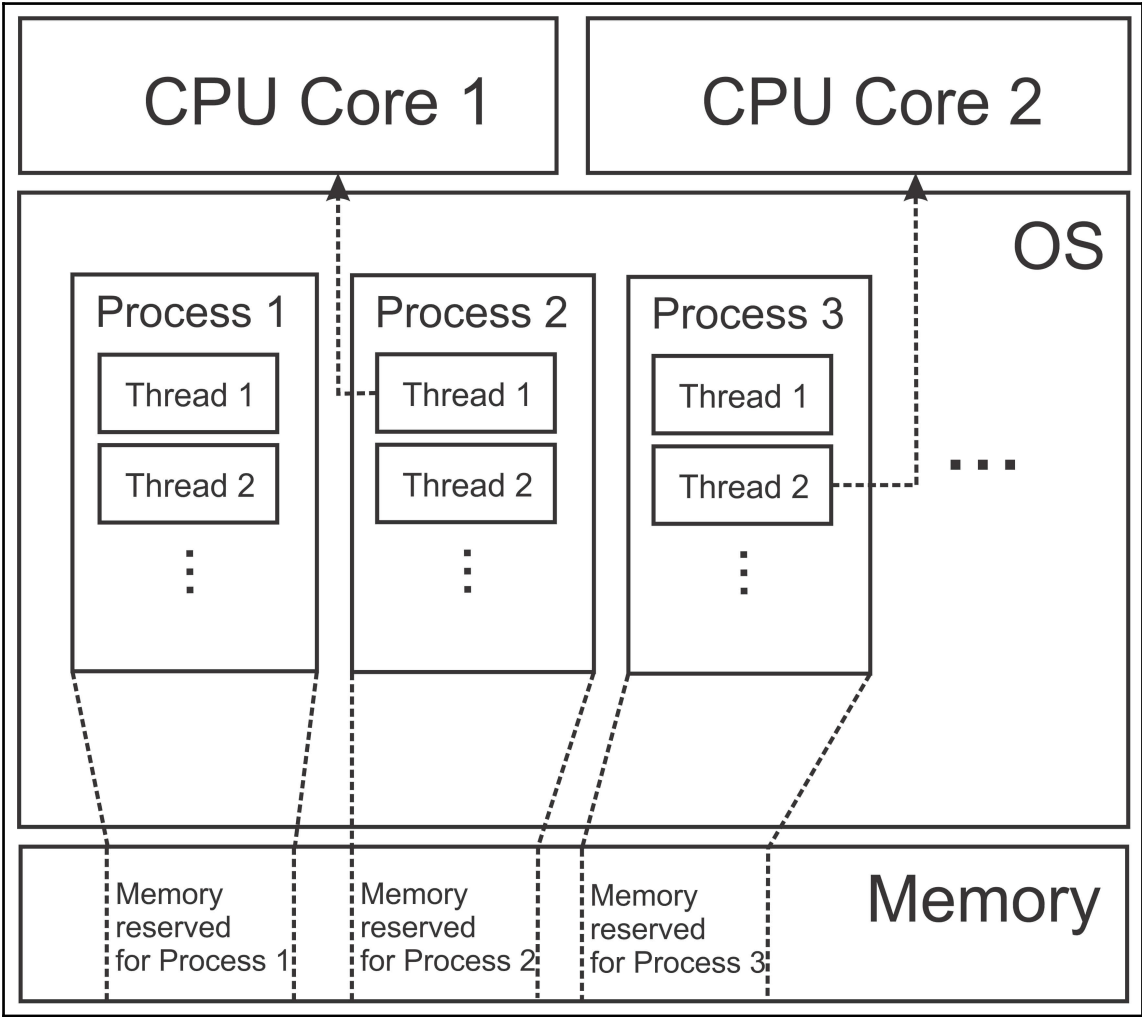
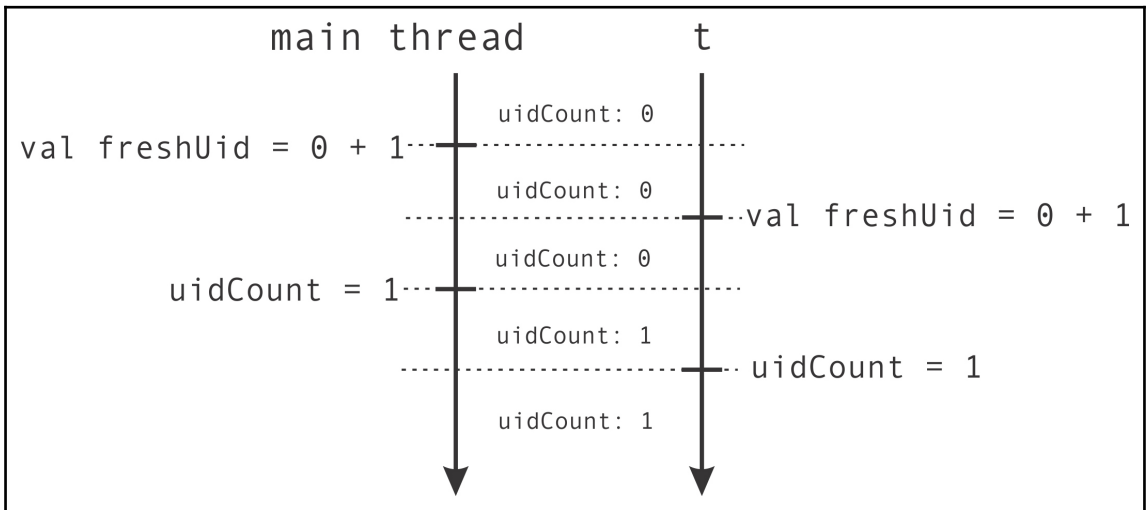
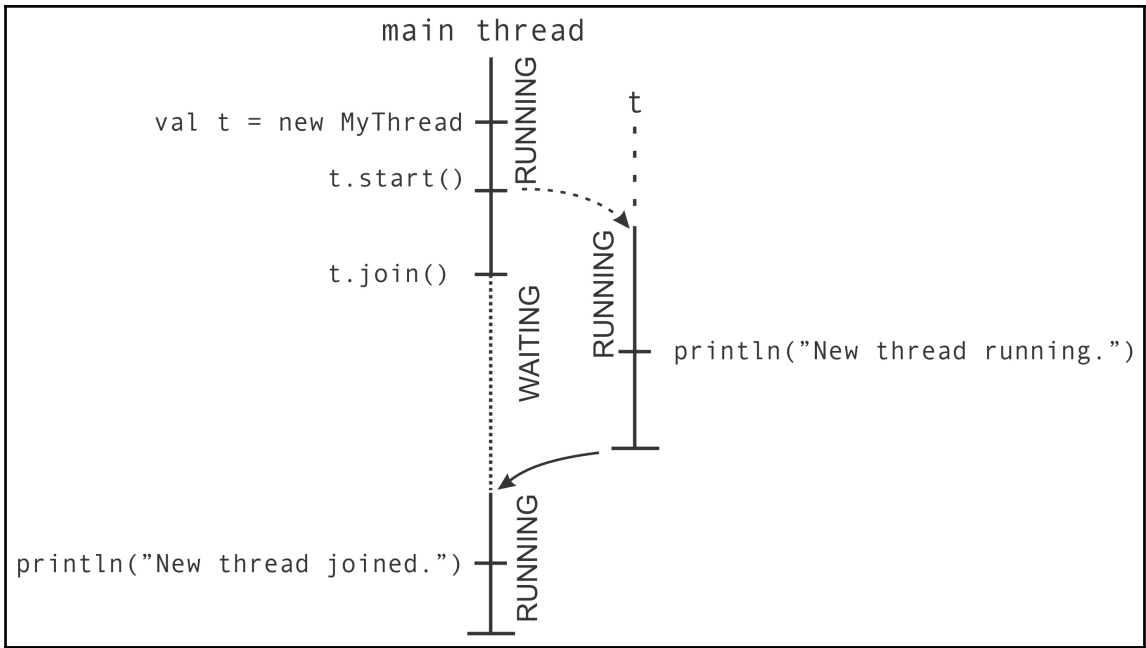


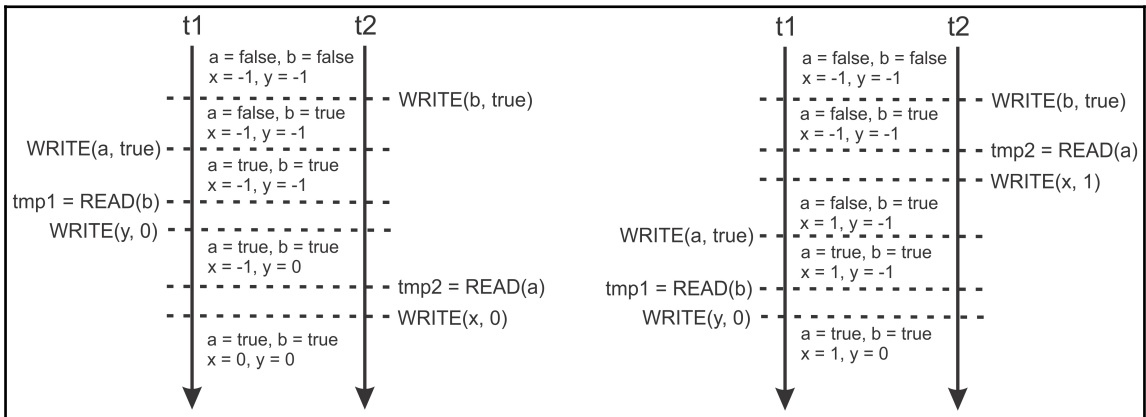
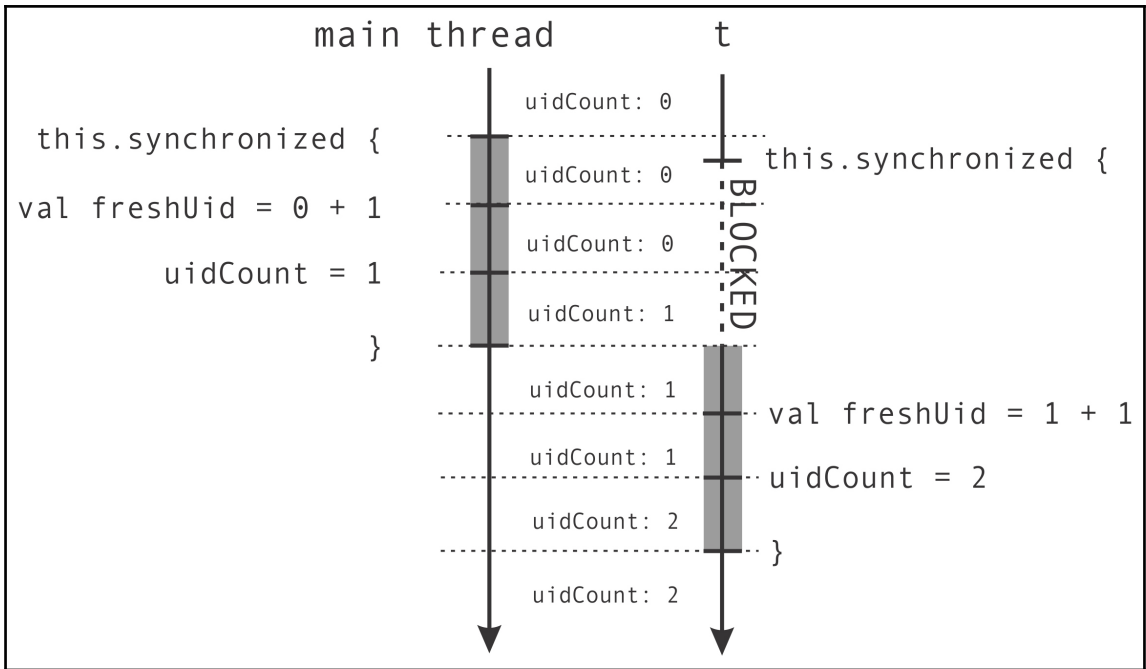
# Chapter 1: Introduction



# Chapter 2: Concurrency on the JVM and the Java Memory Model

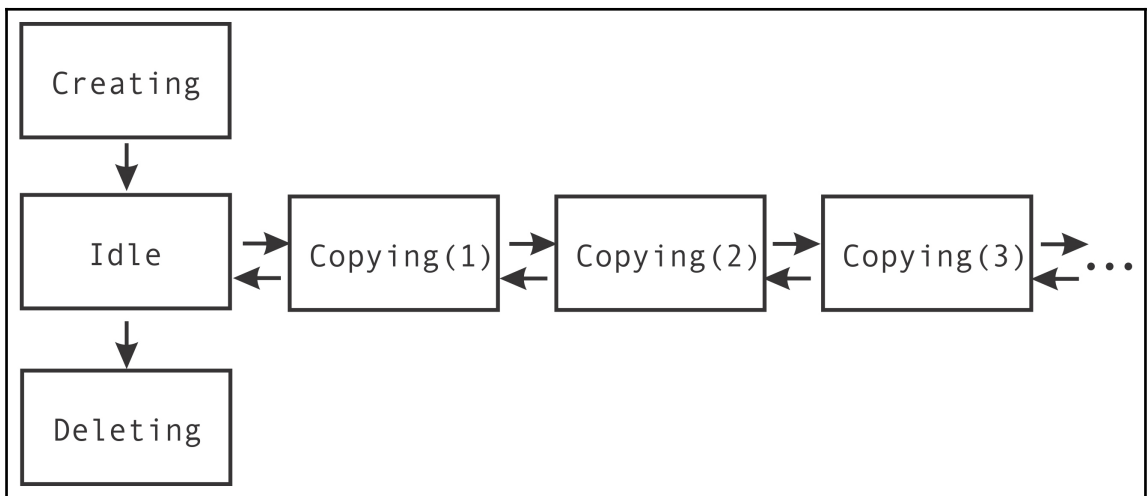
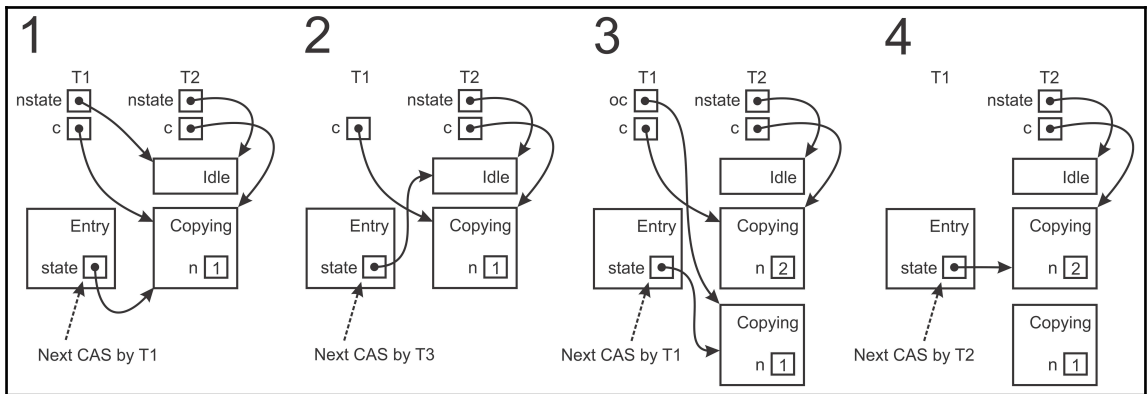


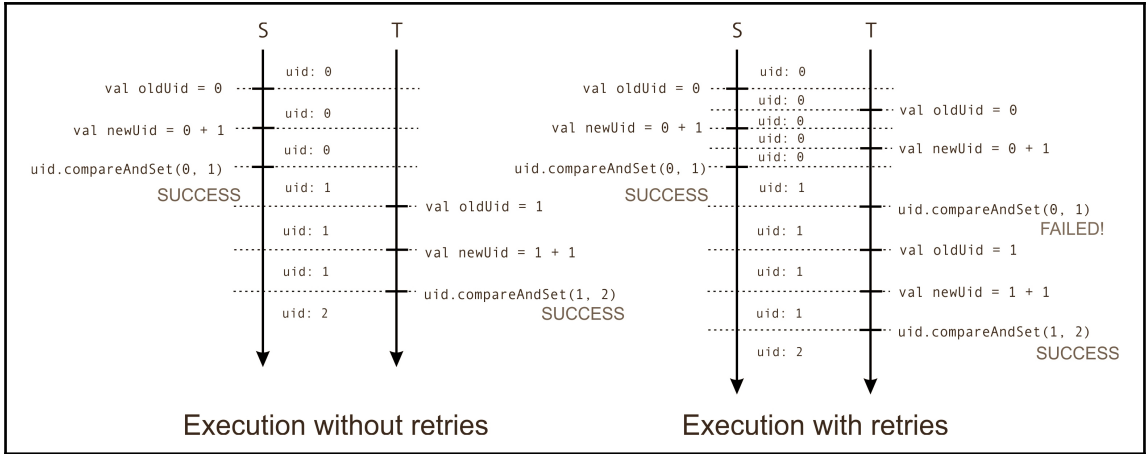




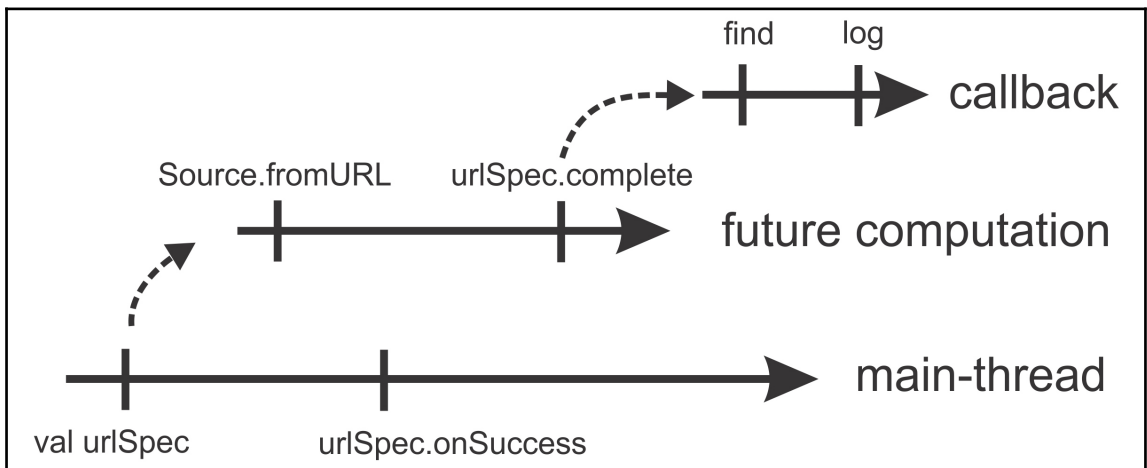
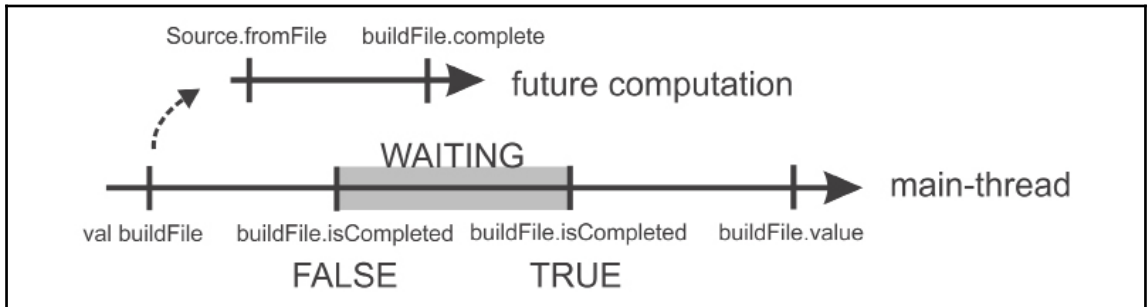


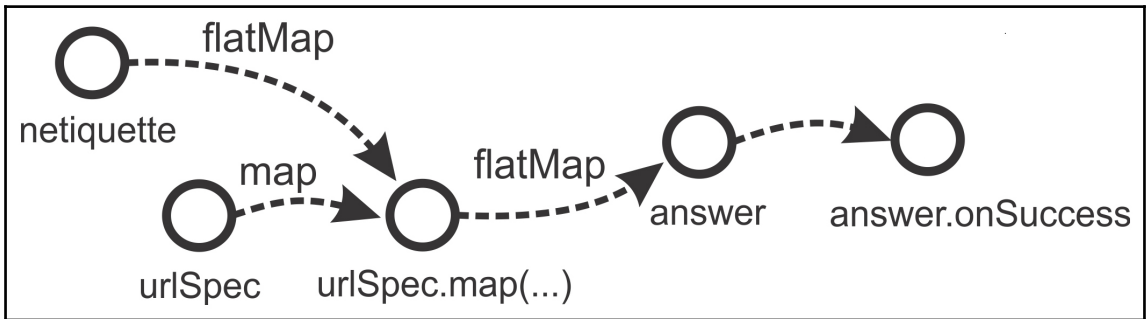
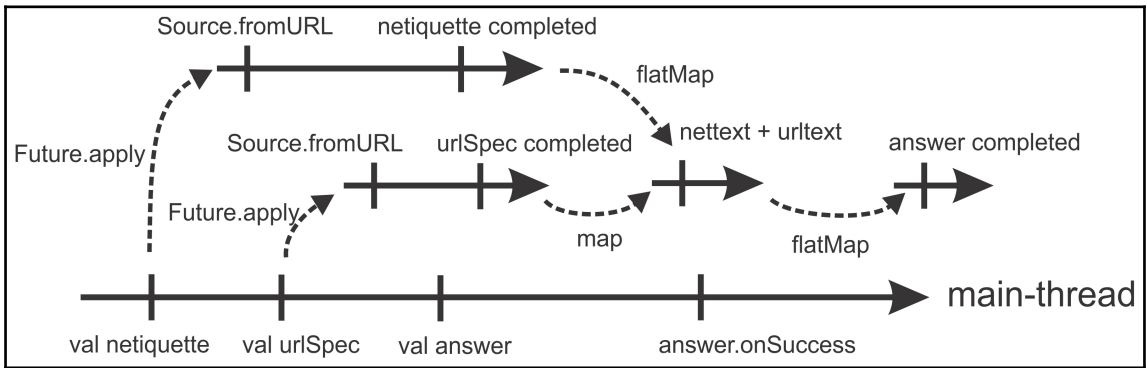
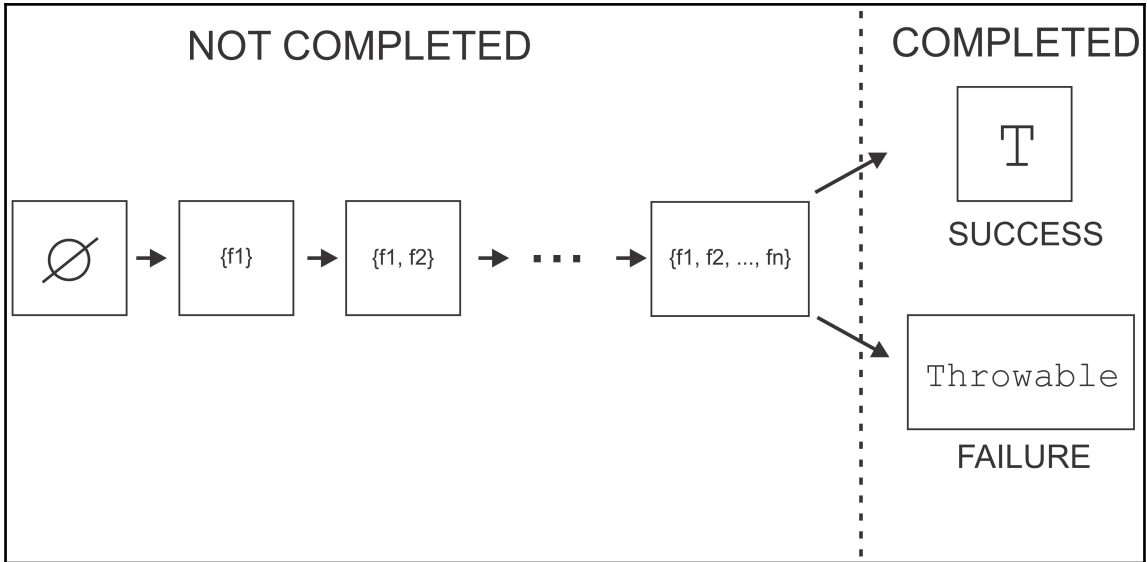
# Chapter 3: Traditional Building Blocks of Concurrency

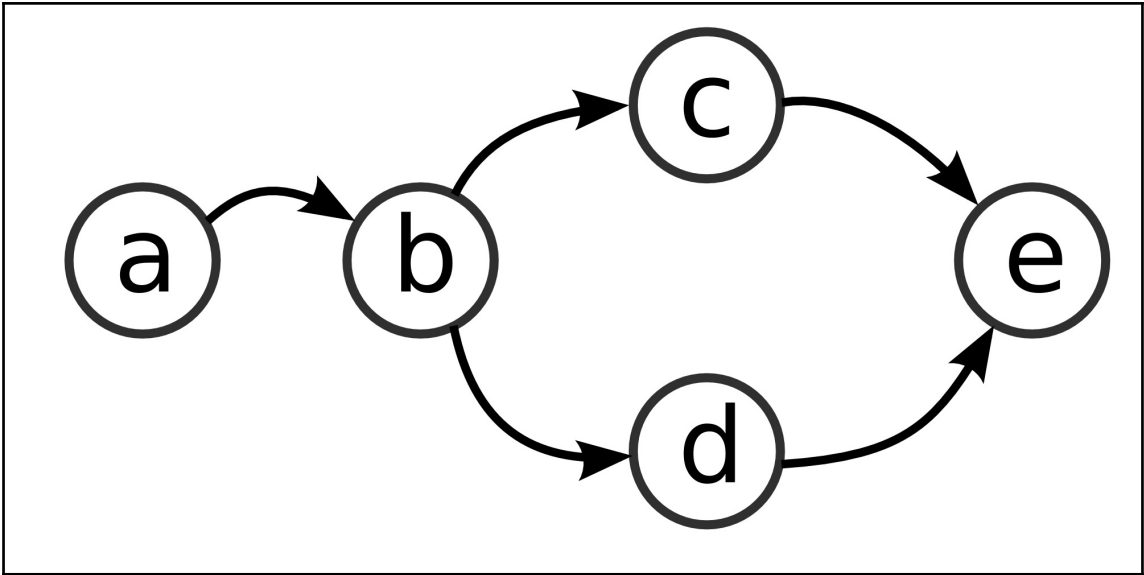




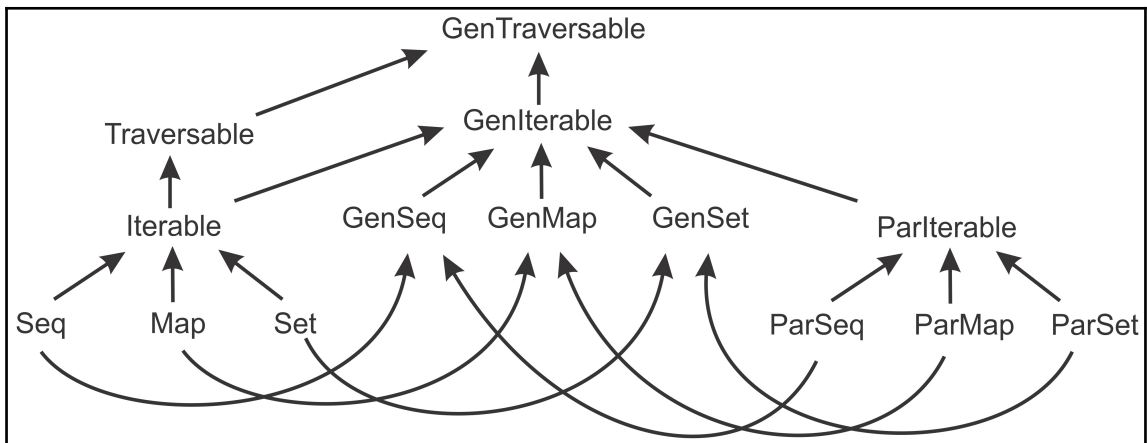
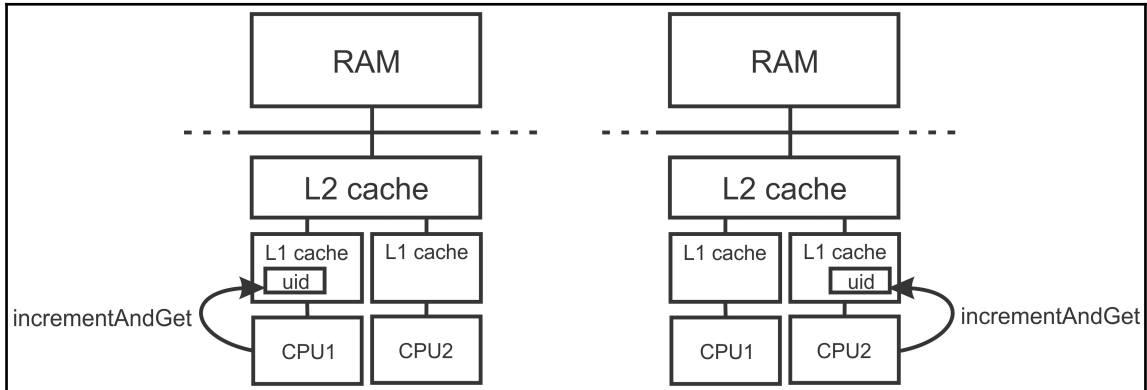
# Chapter 4: Asynchronous Programming with Futures and Promises



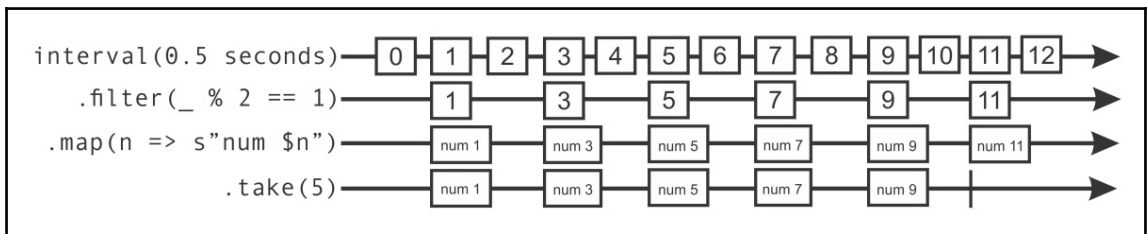
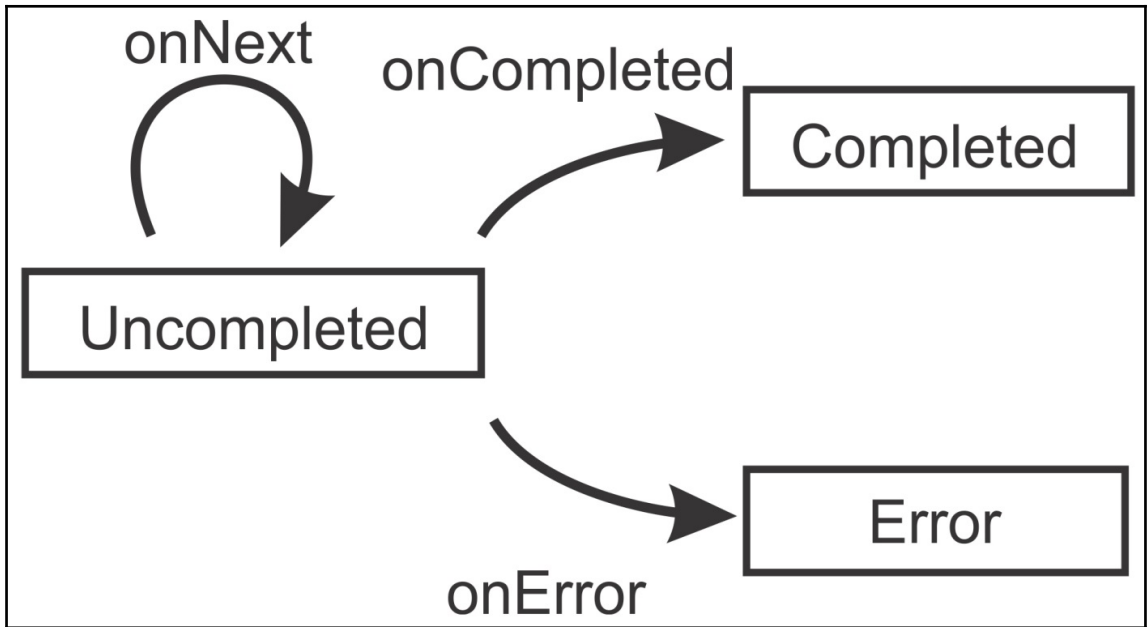


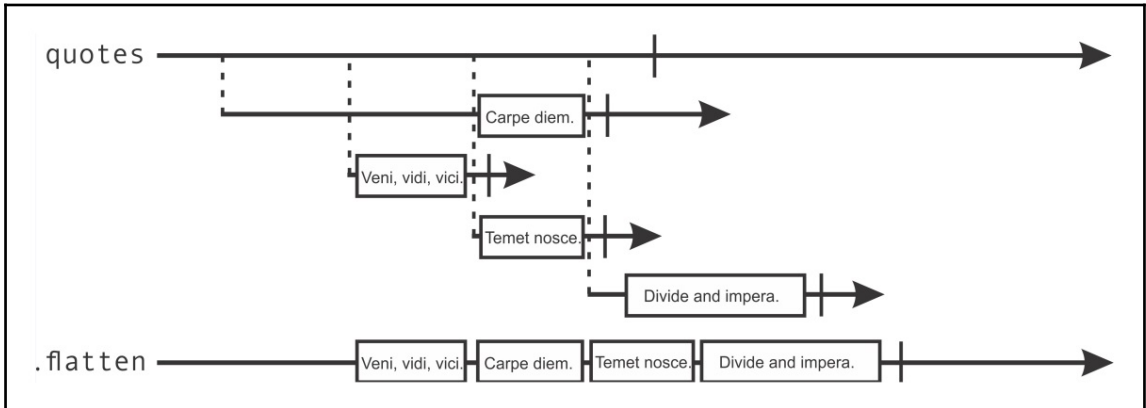
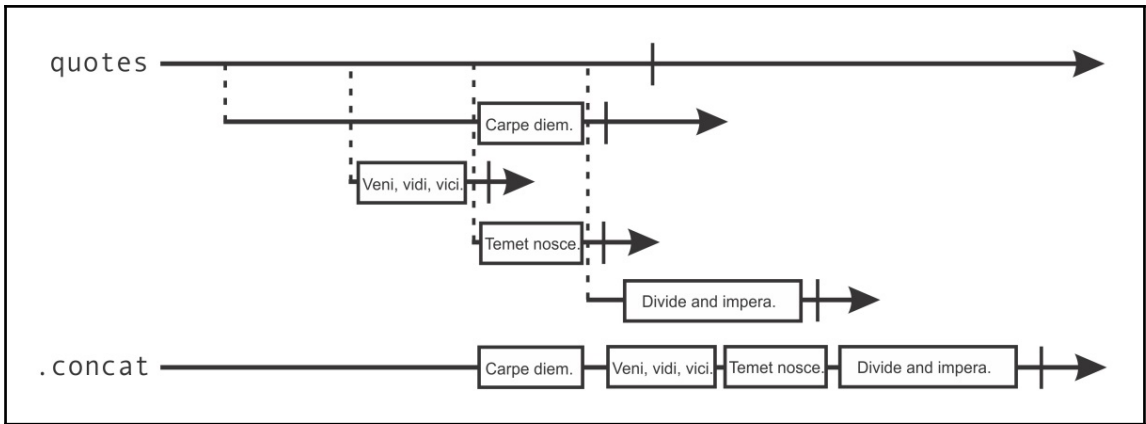
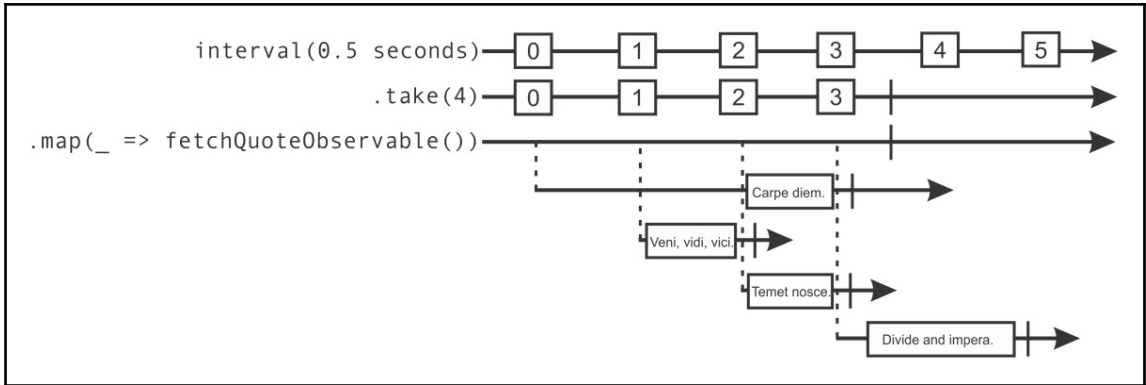


# Chapter 5: Data-Parallel Collections

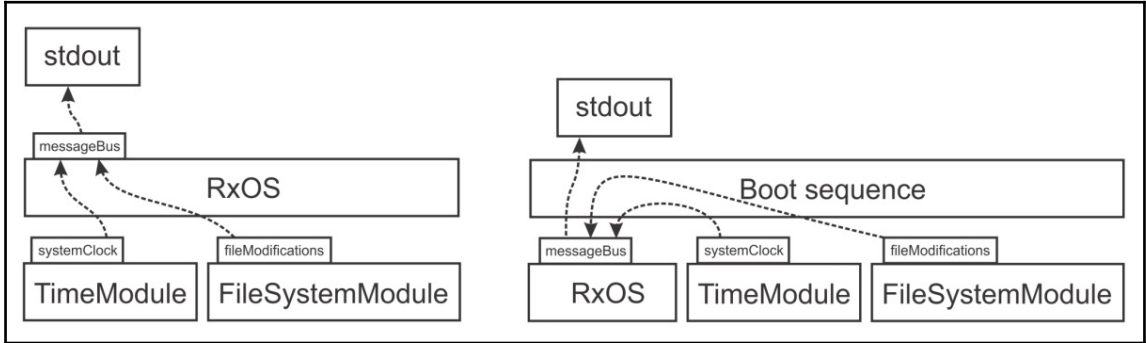
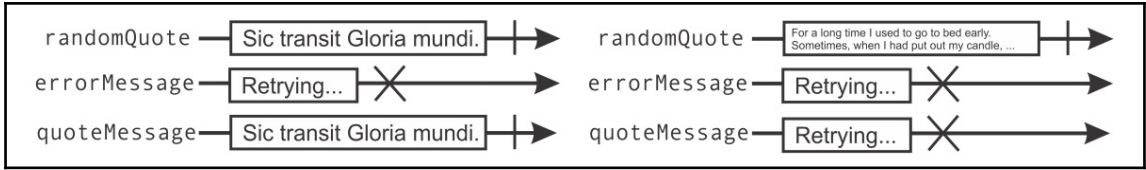


# Chapter 6: Concurrent Programming with Reactive Extensions

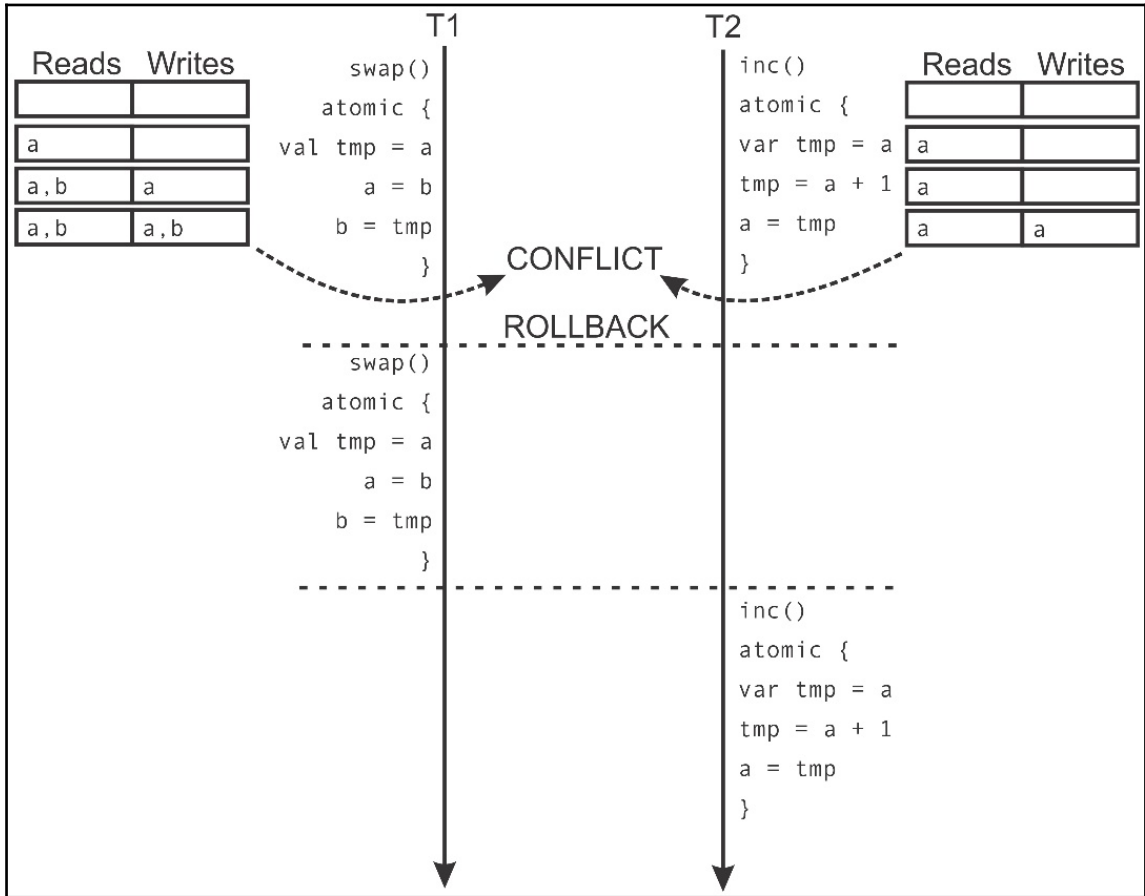




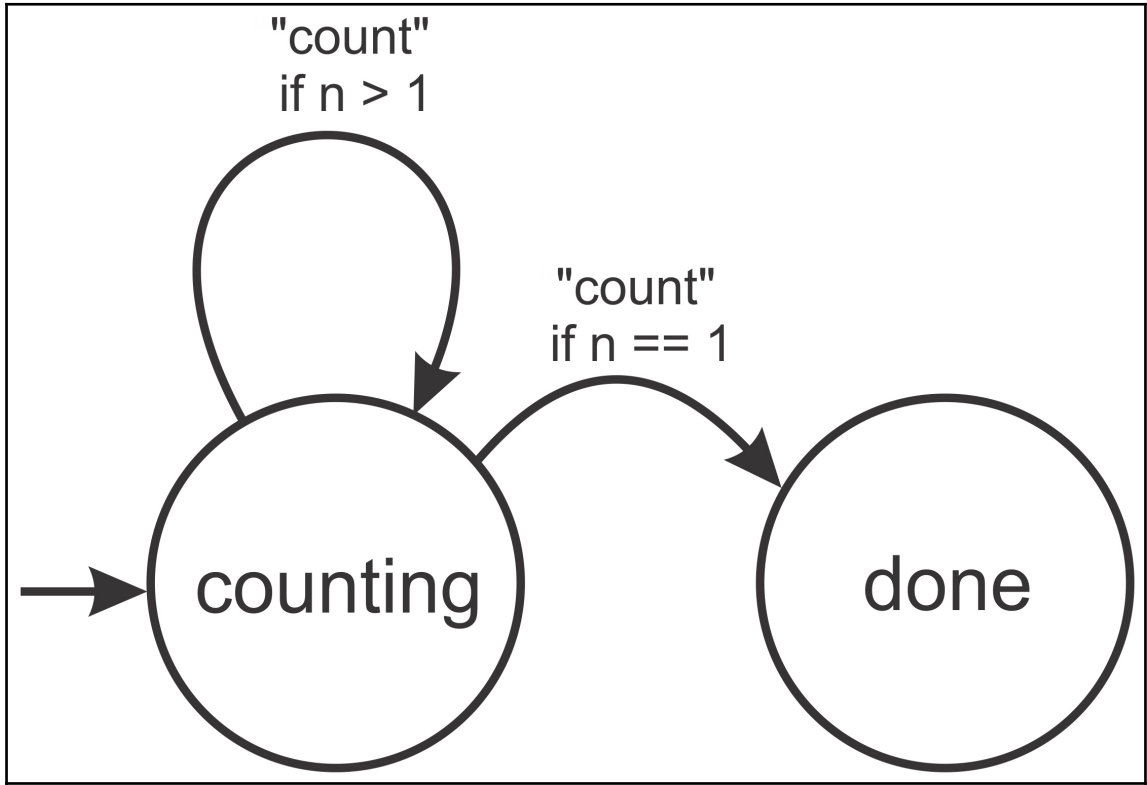


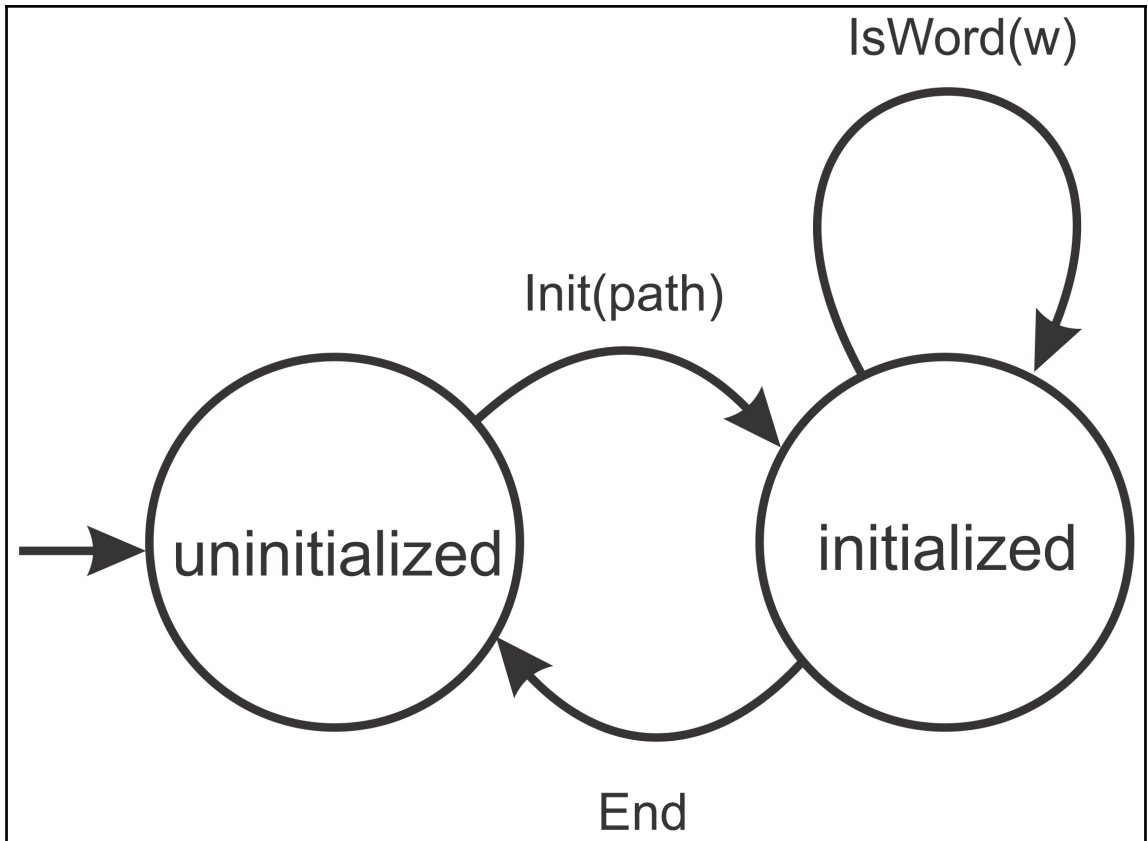


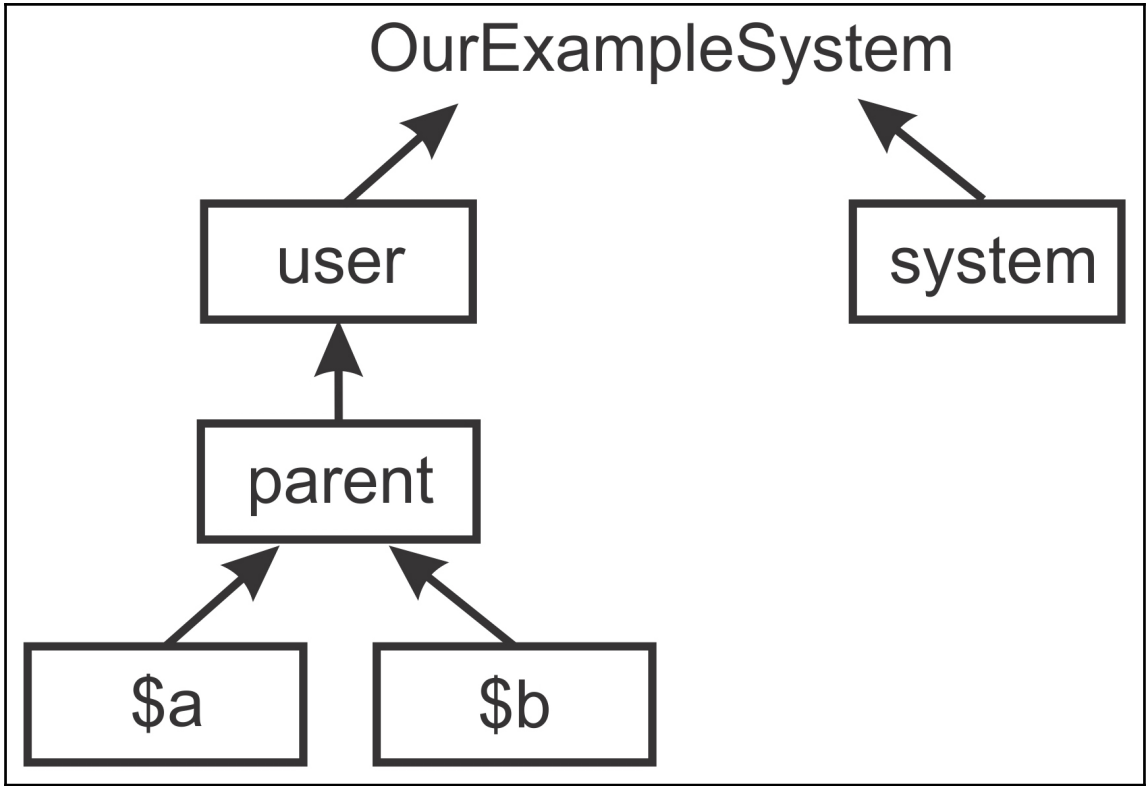
# Chapter 7: Software Transactional Memory

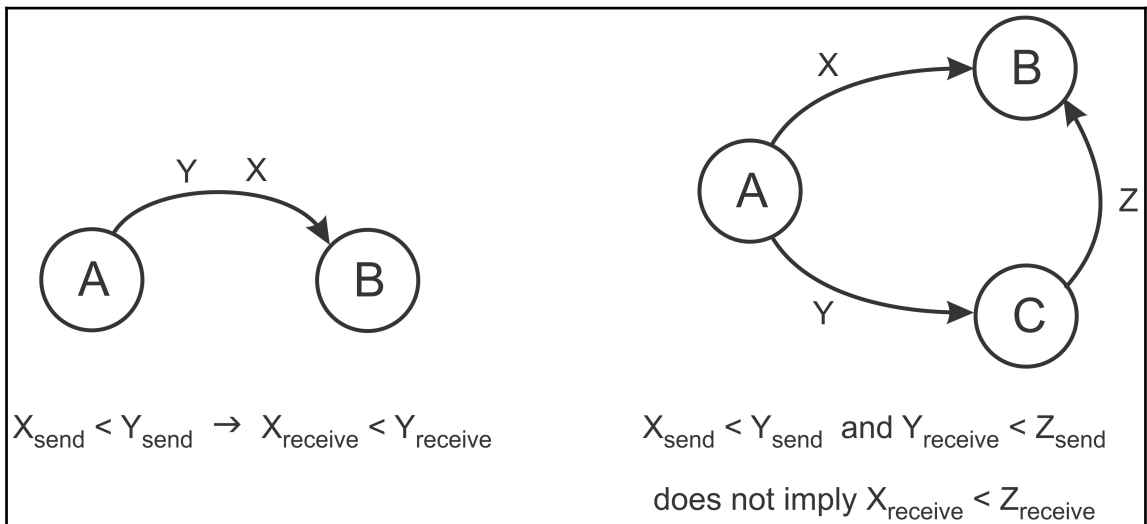
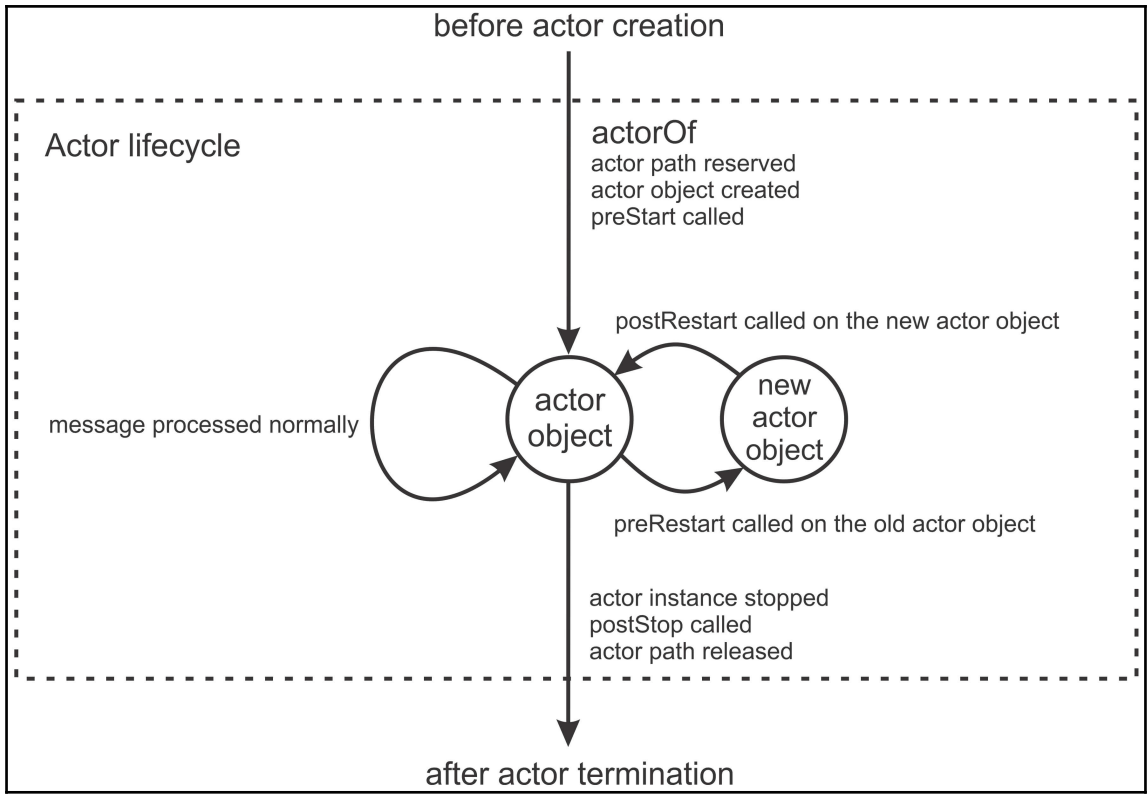


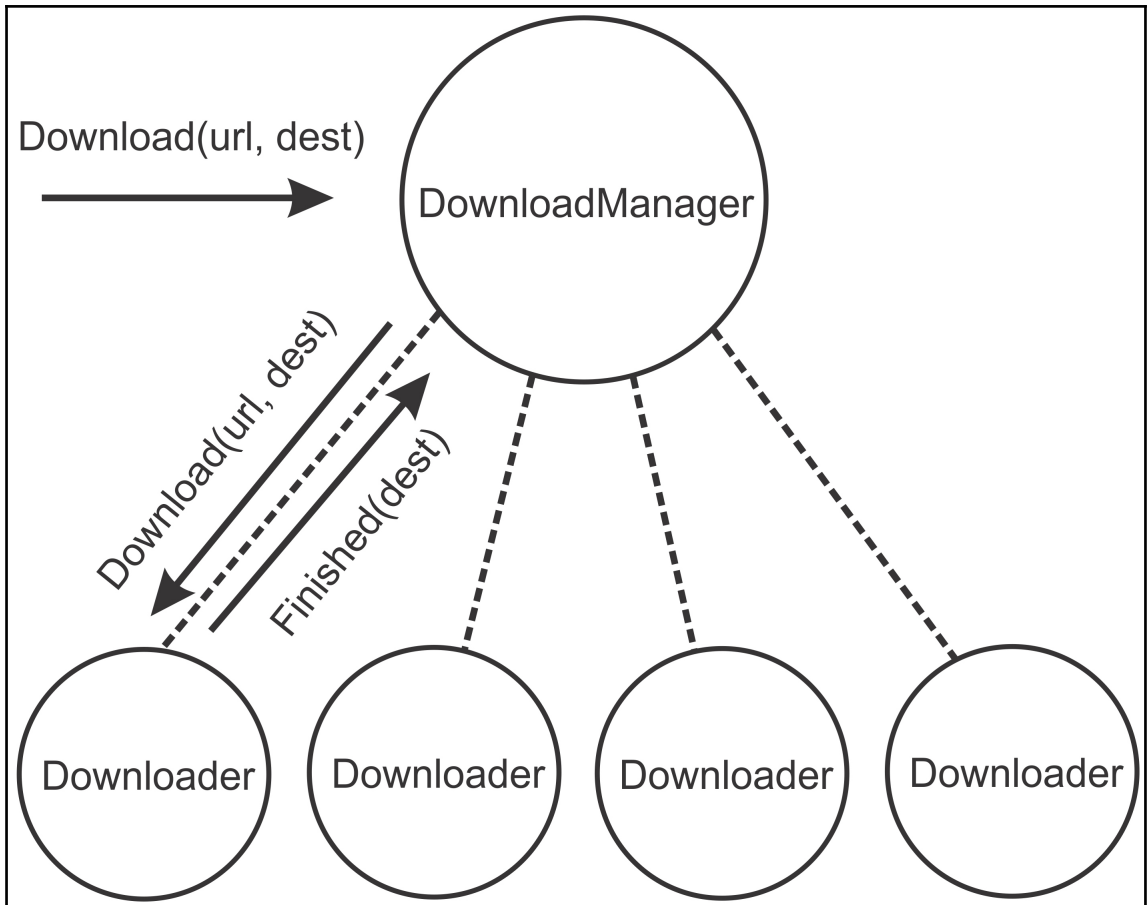
## Chapter 8: Actors



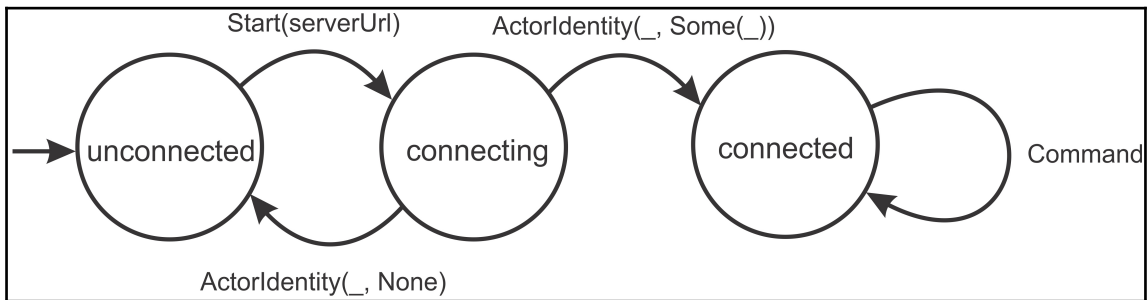
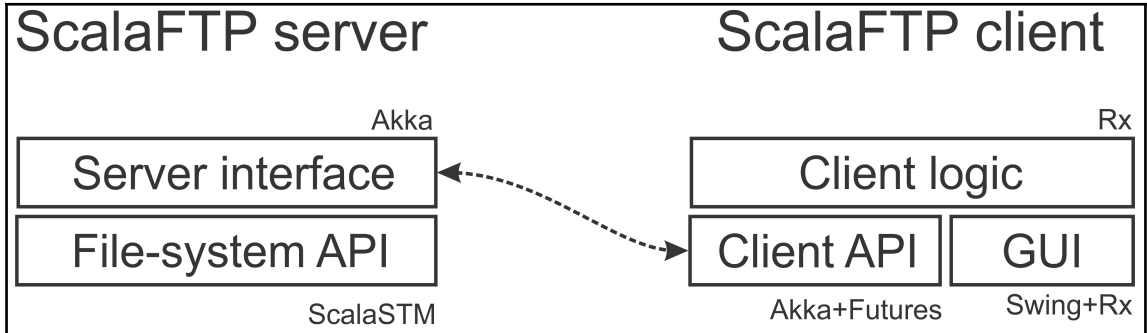




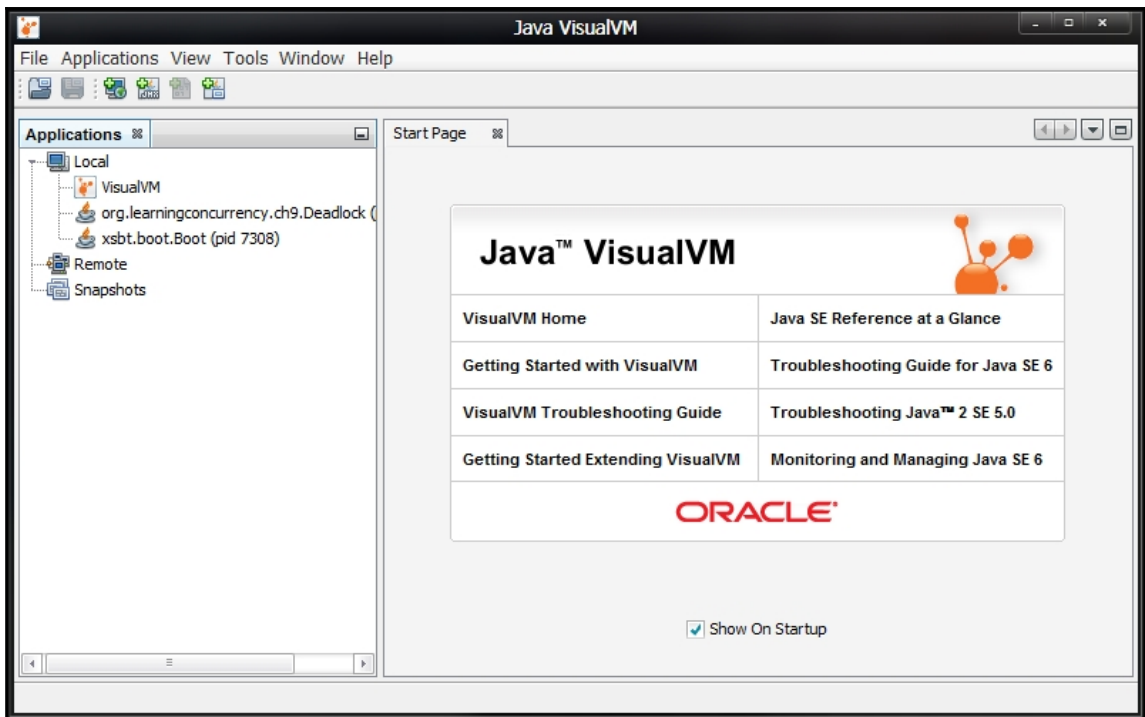
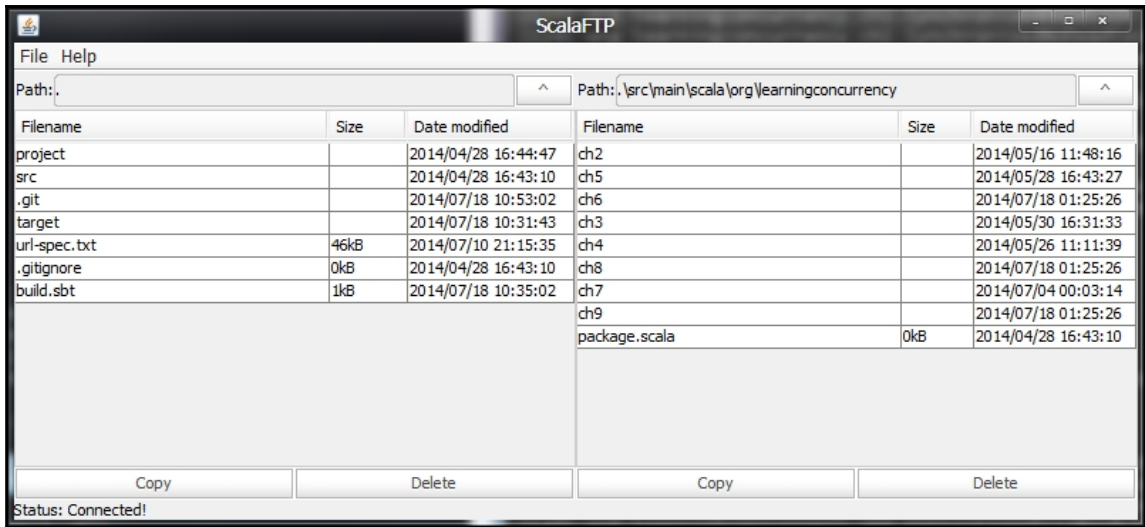


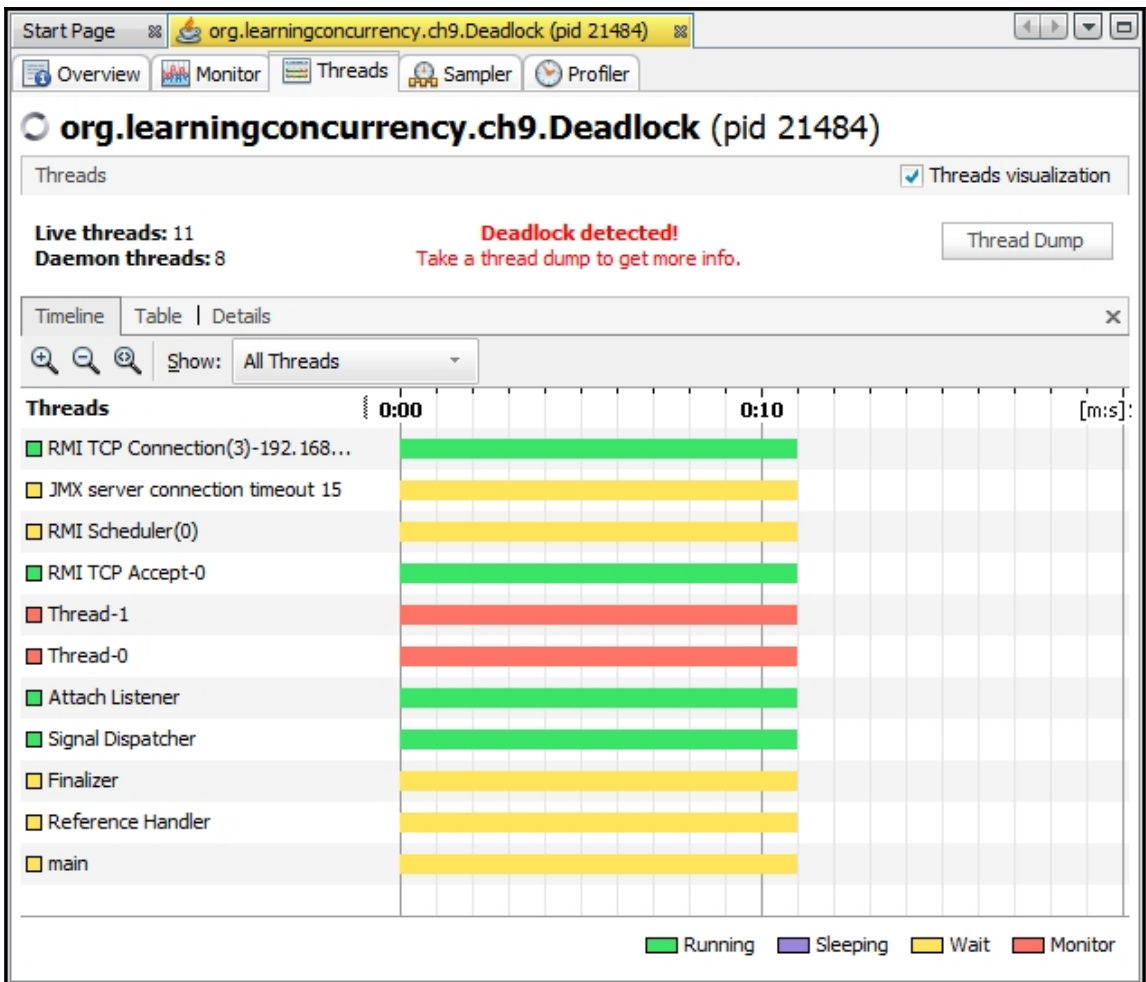


# Chapter 9: Concurrency in Practice









Start Page org.learningconcurrency.ch9.Deadlock (pid 21484)

Overview Monitor Threads Sampler Profiler [threaddump] 5:03:24 PM x

## org.learningconcurrency.ch9.Deadlock (pid 21484)

Thread Dump

- None

```
"Thread-1" prio=6 tid=0x0000000011def000 nid=0xfdc waiting for monitor entry [0x0000
  java.lang.Thread.State: BLOCKED (on object monitor)
    at org.learningconcurrency.ch9.Deadlock$.send(Debugging.scala:15)
    - waiting to lock <0x000000007af230070> (a org.learningconcurrency.ch9.Deadlo
    - locked <0x000000007af230080> (a org.learningconcurrency.ch9.Deadlock$Accoun
    at org.learningconcurrency.ch9.Deadlock$$anonfun$2$$anonfun$apply$mcV$sp$2.a;
    at scala.collection.immutable.Range.foreach$mVc$sp(Range.scala:160)
    at org.learningconcurrency.ch9.Deadlock$$anonfun$2.apply$mcV$sp(Debugging.sc
    at org.learningconcurrency.ch2.package$$anon$1.run(package.scala:12)

  Locked ownable synchronizers:
    - None

"Thread-0" prio=6 tid=0x0000000011dec000 nid=0x4bd4 waiting for monitor entry [0x000
  java.lang.Thread.State: BLOCKED (on object monitor)
    at org.learningconcurrency.ch9.Deadlock$.send(Debugging.scala:15)
    - waiting to lock <0x000000007af230080> (a org.learningconcurrency.ch9.Deadlo
    - locked <0x000000007af230070> (a org.learningconcurrency.ch9.Deadlock$Accoun
    at org.learningconcurrency.ch9.Deadlock$$anonfun$1$$anonfun$apply$mcV$sp$1.a;
    at scala.collection.immutable.Range.foreach$mVc$sp(Range.scala:160)
    at org.learningconcurrency.ch9.Deadlock$$anonfun$1.apply$mcV$sp(Debugging.sc
    at org.learningconcurrency.ch2.package$$anon$1.run(package.scala:12)

  Locked ownable synchronizers:
```

# Chapter 10: Reactors

