Actor Model

1. Overview
   1. Methods of communication between two or more parties
   2. Are the parties aware of the presence of each other?
   3. Model of communication between these parties
   4. Difference between Actor model and Java
   5. Another strep up from object
2. How does it work?
   1. Object methods communicate by using methods
   2. Actor messages communicate by using messages
3. Architecture
   1. Actor mail and mailbox model
4. Resources/Library
   1. Scala
   2. AKKA
5. Tolerance dealt through the hierarchy
   1. Parents Supervise the children and decide what to do in a failure
   2. Message:
      1. Restart
      2. Resume
      3. Stop
      4. Escalate
6. Types of Actors
   1. Thread based actors
   2. Event based actors
7. Advantages
   1. Can to manage complex system that involve dependencies and coordinating shared state
   2. Actor semantics are learnable by most developers and safer than their locked counterpart
   3. If that class becomes an actor and the data member becomes a buffer or port you communicate with via messages, you don’t have to remember to take the lock
8. Disadvantage
   1. Misunderstanding of the actor model
   2. Not a safe environment, and easy to write deadlock and promotes spaghetti code