

Agent-Oriented Software Engineering

Francesco Penasa

February 17, 2020

Programming progression From machine code iterationing of abstractions to agents.

1. machine code
2. assembly language
3. procedures & functions
4. objects
5. services
6. agents

Agent, a definition: An agent is a computer system that is capable of **independent** actions on behalf of its user or owner

Multi-Agent System, a definition

1. consists in different agents that interact with one-another
2. agents act on behalf of users with different goals and motivations
3. agents will cooperate, coordinate and negotiate with each other to success

A good Agent-Oriented Software Engineering Methodology

1. modeling languages
2. analysis techniques
3. design techniques
4. supporting tools