Implementing functional ACE in LISP

Jonathan THALER

November 9, 2016

Abstract

Why LISP: the oldest language and functional. Has extremely powerful properties: . We ask how those can be utilized to implement agent-based simulations in economics.

1 Introduction

In the end it all boils down to 1. the agent-model and 2. how the agent-model is implemented in the according language. Of course both points influence each other: functional languages will come up with a different agent-model (e.g. hybrid like yampa) than object-oriented ones (e.g. actors).

2 Agents

3 Functional Model

4 Implementation

4.1 Performance