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Terminology in Functional Agent-Based Simulation

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Abstract

This document is a collection of the used terminology for the thesis on Functional Agent-Based Simulation. It explains each term, its relevance to the field and the connections to other terms. Included is an A3 poster which visualizes all terms and their connections and can be seen as a mind-map as well. The intention of this document and poster is to clarify the exact meaning of various terms, their implications and relations to others - to clarify my thinking and discussions.

Agent

Actor

Agent-Based Simulation (ABS)

Agent-Based Modelling (ABM)

Agent-Based Modelling & Simulation (ABMS)

Multi-Agent System (MAS)

Agent-Based Social Simulation (ABSS)

Agent-Based Computational Economics (ACE)

Scala

Erlang

Haskell

Functional Reactive Programming (FRP)

Yampa

Embedded Domain Specific Language (EDSL)

Repast Symphony

