











must be composed in order to support, for example, the generation of the entire system implementation. When different DSLs are used to define the various models, composition rules must be defined between the DSLs.

**Simulation:** Unfortunately, a simulation of a substantial part of the real world needs to describe different parts and aspects of the world typically using several languages. To run simulations, we need a stable coordination of languages and their respective models for execution. This coordination enables us to understand, for example, whether the models fit together and whether they correctly describe the real world and system to be designed. Examples for coordinated model simulation can be found in various domains, including climate that models whether flow of water, cultivation of areas, run in parallel, and etc. Other simulations are used to understand how control devices in a car cooperate or how the multitude of existing devices in an airplane can be managed by pilots for example.

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