

SysML2

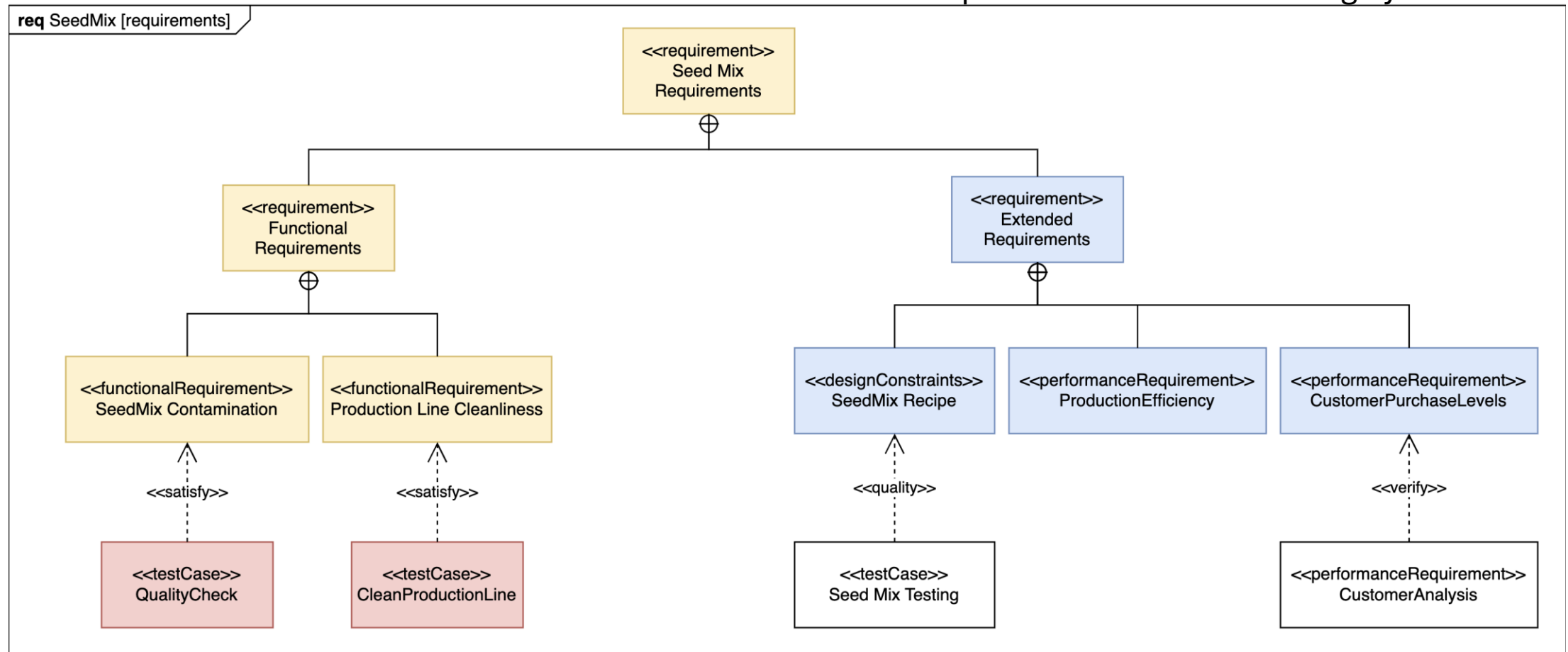
Diagram Creation, Transcription, and Recreation

Motivation

- SysMLv2 provides extended capabilities for an already-powerful modeling language
- Internal Block, Parametric, and Requirement Diagram types focus on various important aspects of system design
- Exporting, sharing, and re-creating these diagrams is key
 - Saving as text allows for varied visualization, processing, and simulation from a given design
 - Allows for collaboration

Requirements Diagram Overview

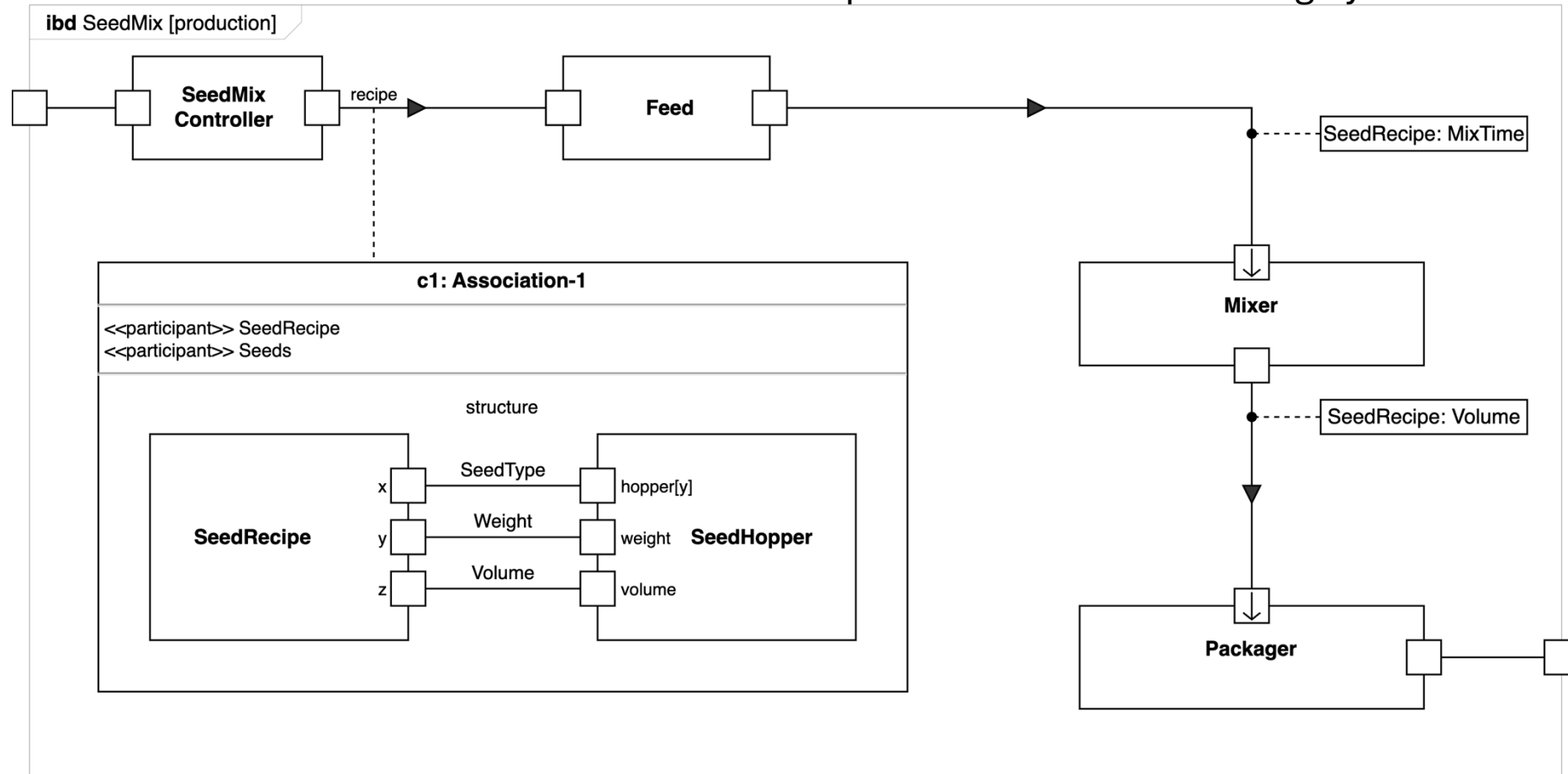
<https://www.drawio.com/blog/sysml-vs-uml>



Functional Requirements (mandatory), Non-functional Requirements, Test cases

Internal Block Diagram Overview

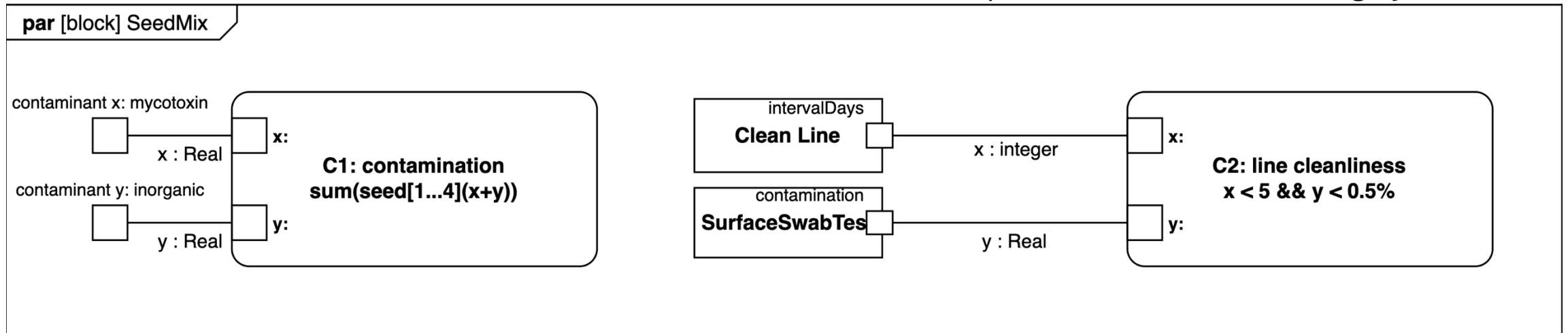
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Blocks (composable), Constraints (composable), Directed Block Connections, Ports, and Dependencies

Parametric Diagram Overview

<https://www.drawio.com/blog/sysml-vs-uml>



Constraints, Parameters, and Variables

Ongoing Work

- Complete Internal Block Diagram recreation plugin
- Employ decorators to provide a better modeling experience