Introduction

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Example

- Rule 2 (Block to Class and Association)

Example

Overview

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Conform Scheme

Conform Scheme

Conform Scheme

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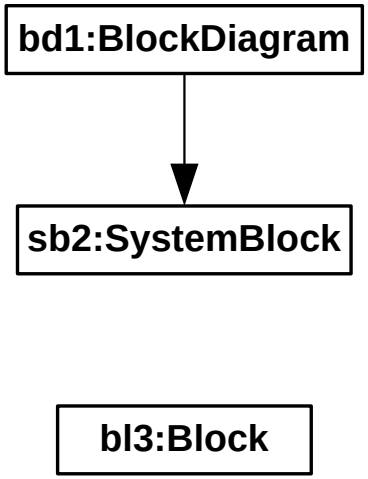
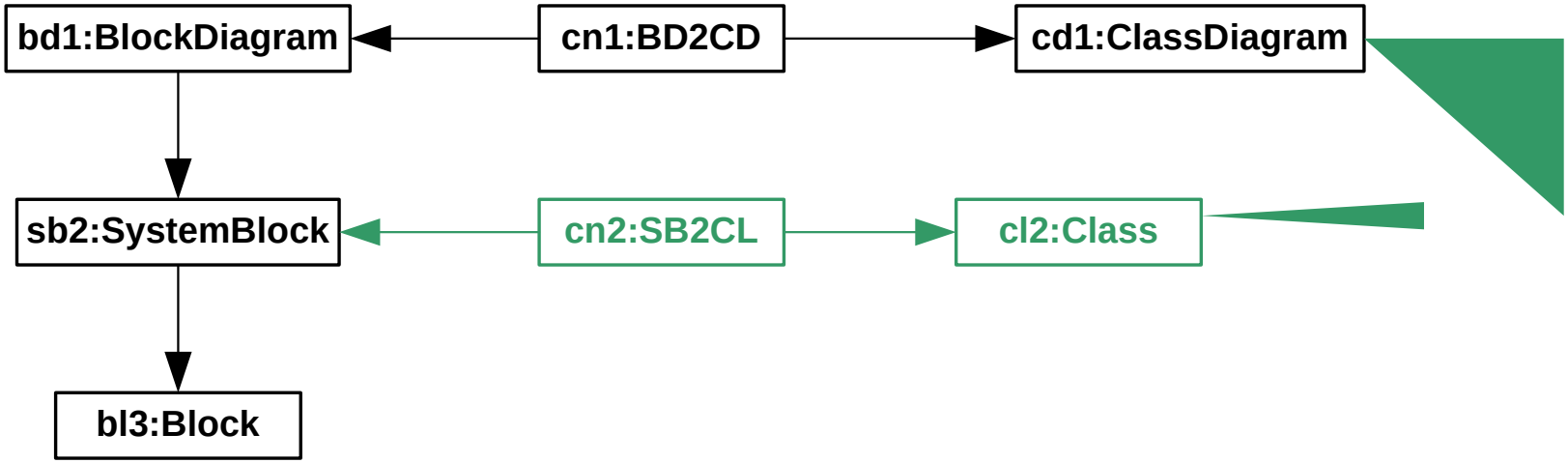
Conform Scheme

- Create bookkeeping node and edges



Conform Scheme

- Execute operational rule 1



Conform Scheme

Conform Scheme

Overview

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Implementation Scheme

- Current implementation does not support edge bookkeeping
- Derive operational rules with node bookkeeping
- Domain-restriction critericrit6 004b before
- Refined forward implementation criteria
  - Refined termination critericr

    Each TGG rule creates at least one **node** on the source part.

Implementation Scheme

- $FT_{IMPD}(S)$: Returns valid transformation result if criteria fulfilled and it is possible to first apply axiom and then rules until S is completely transformed. Otherwise undefined is returned.

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Thank you!

[1] Holger Giese, Stephan Hildebrandt, and Leen Lambers.
Towards Bridging the Gap between Formal Semantics and Implementation of Triple Graph Grammars.
Technical report, Hasso Plattner Institute at the University of Potsdam, 2010.
http://www.hpi.uni-potsdam.de/giese/gforge/publications/pdf/GieseHildebrandtLambers2010_formalizationtgg.pdf.