

Meta★, Poly★, and Comparison to Related Systems

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Concurrent Systems

Process Calculi

Meta* and Poly*

Overview of Meta*

Encoding a Process Calculus in Meta*

Overview of Poly*

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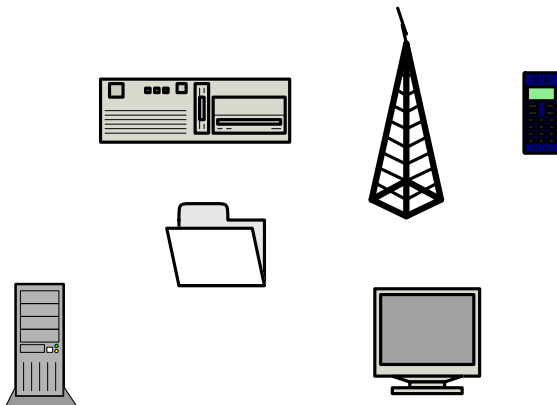
Encoding a Process Calculus in Meta*

Overview of Poly*

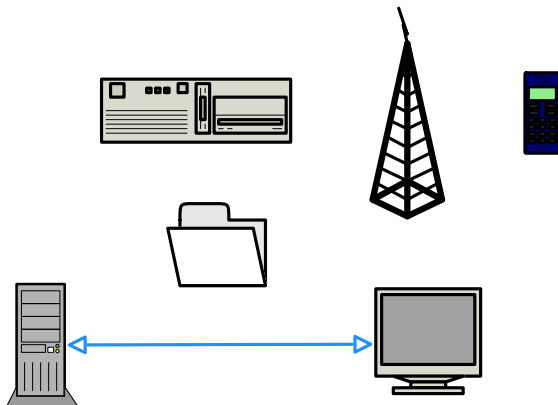
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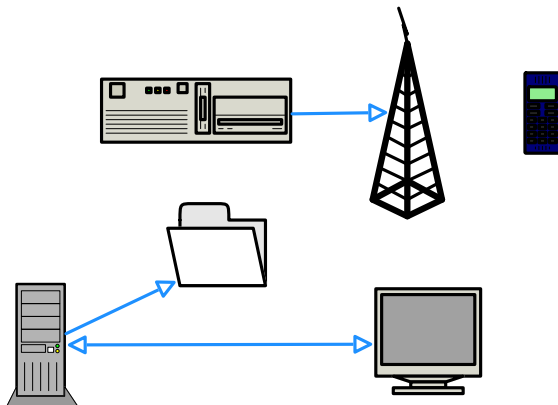
Concurrent Systems



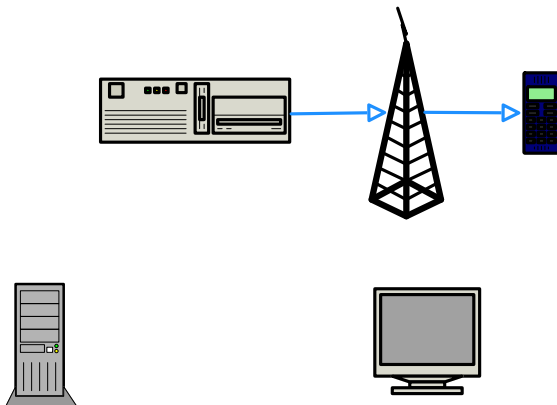
Concurrent Systems



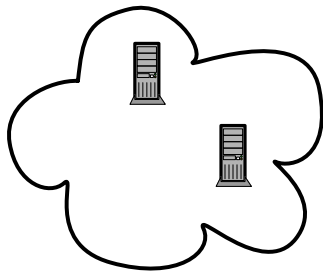
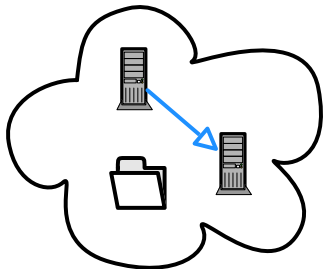
Concurrent Systems



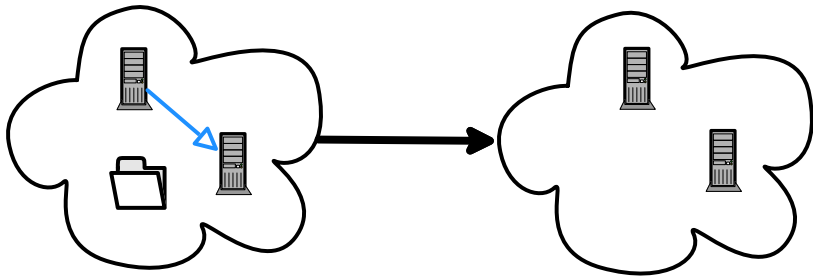
Concurrent Systems



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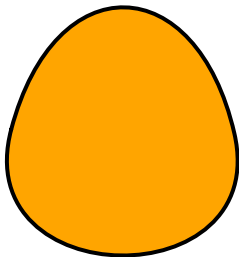
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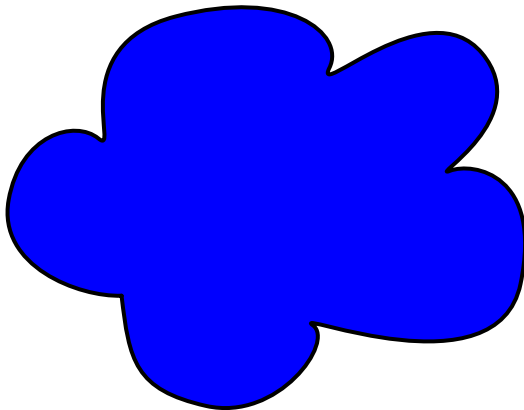
Using Meta*

PC

some Process Calculus

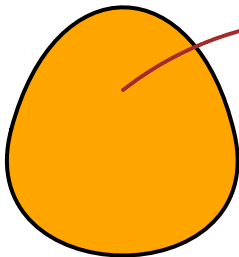


Meta*

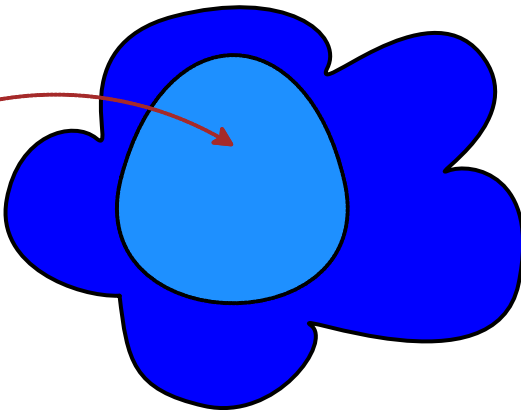


Using Meta*

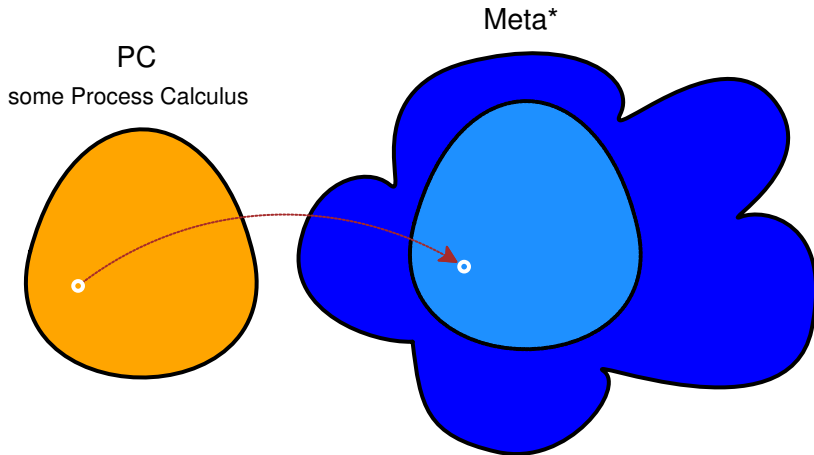
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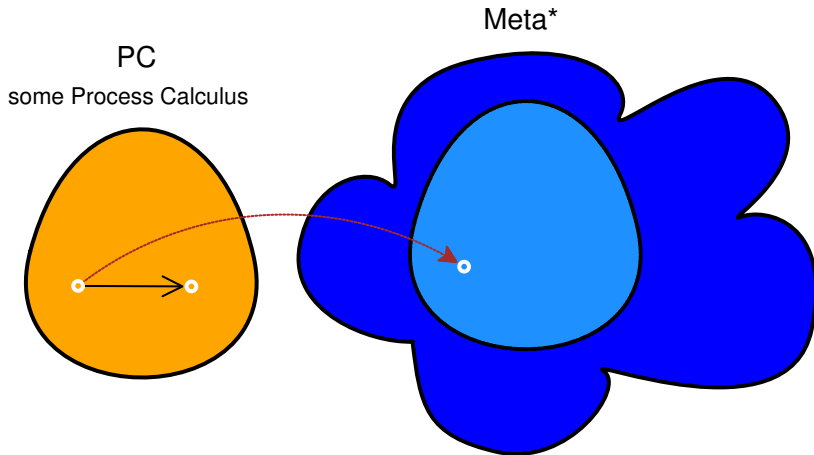
Meta*



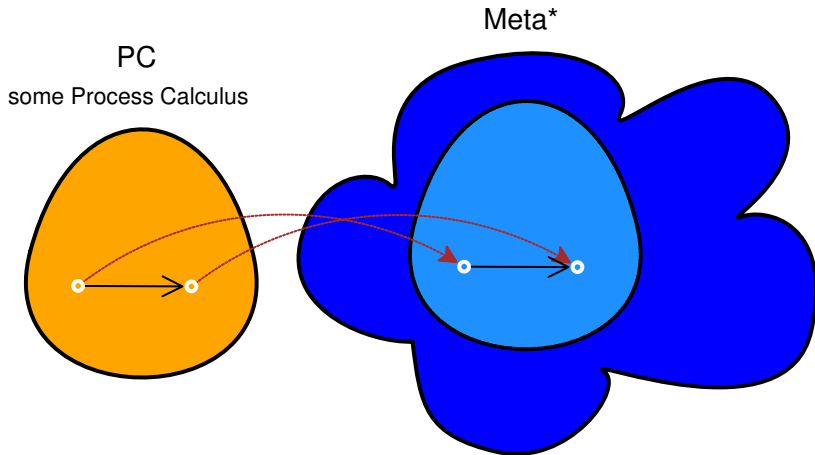
Preservation of the Rewriting Relation (PC)



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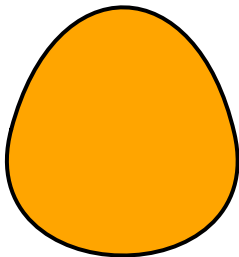
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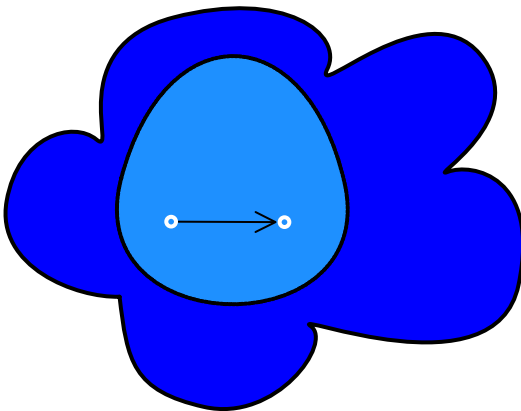
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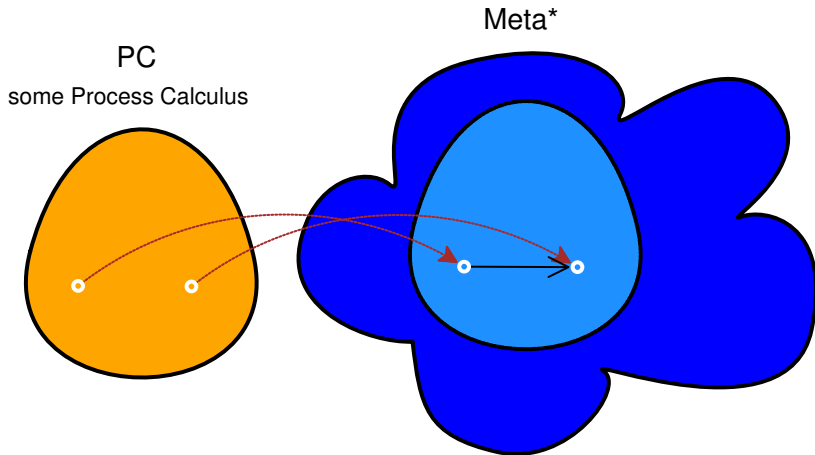
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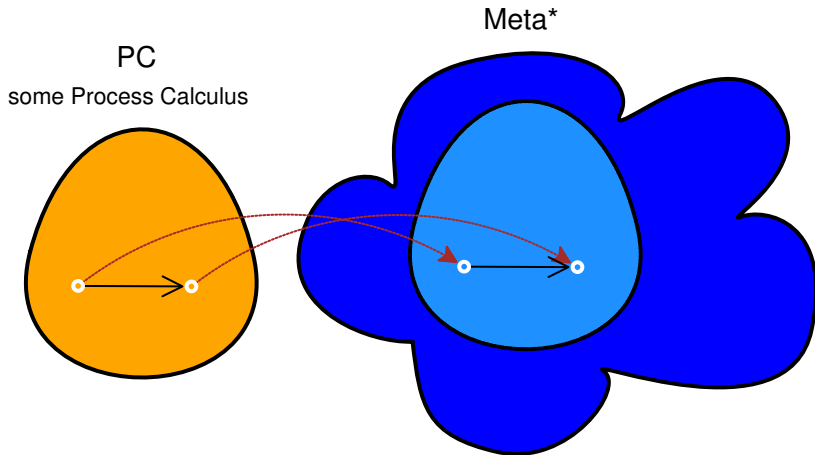
Meta*



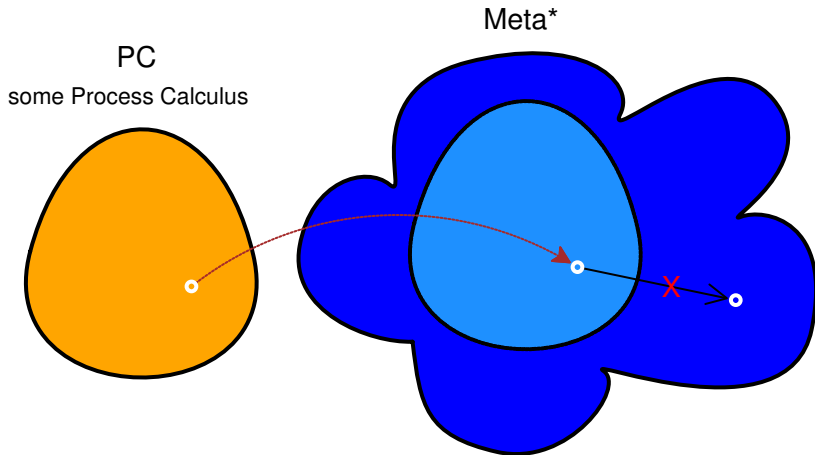
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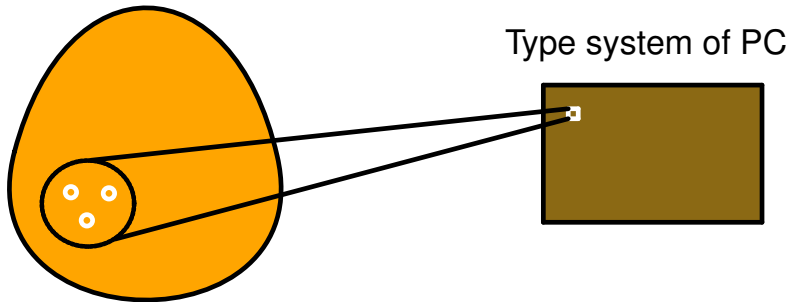
No Additional Rewritings



Type Systems

PC

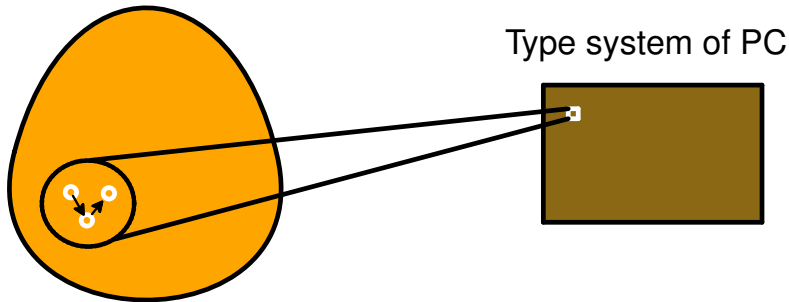
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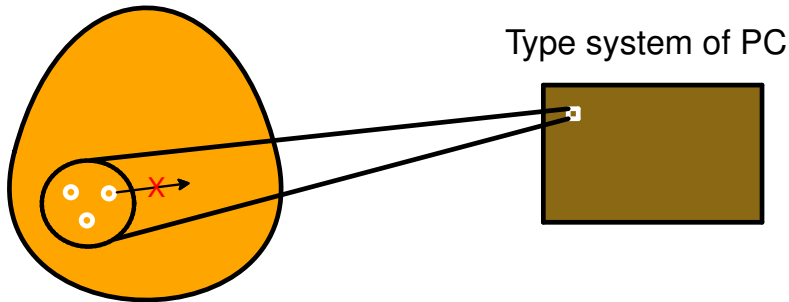
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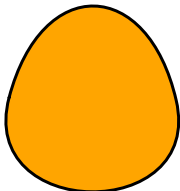
some Process Calculus



Embedding of a Type System in Poly*

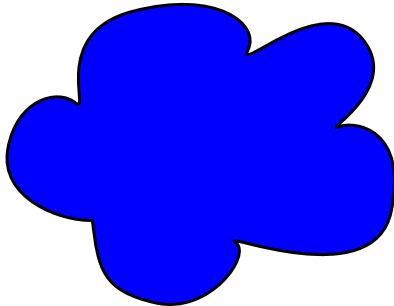
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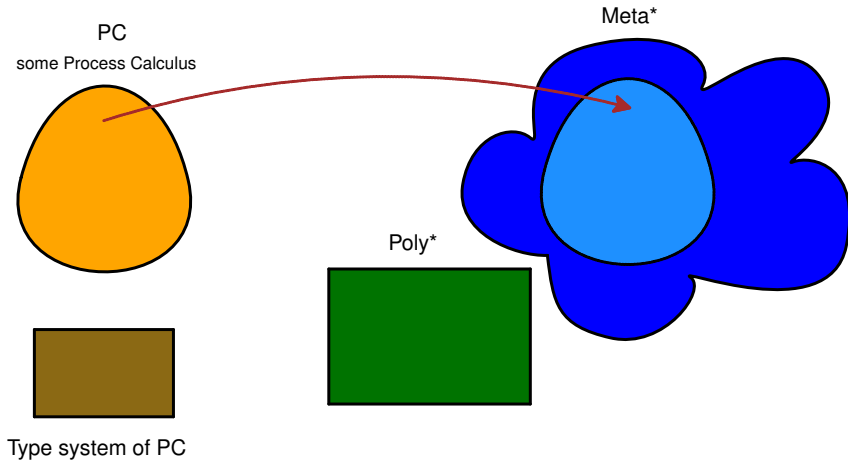


Type system of PC

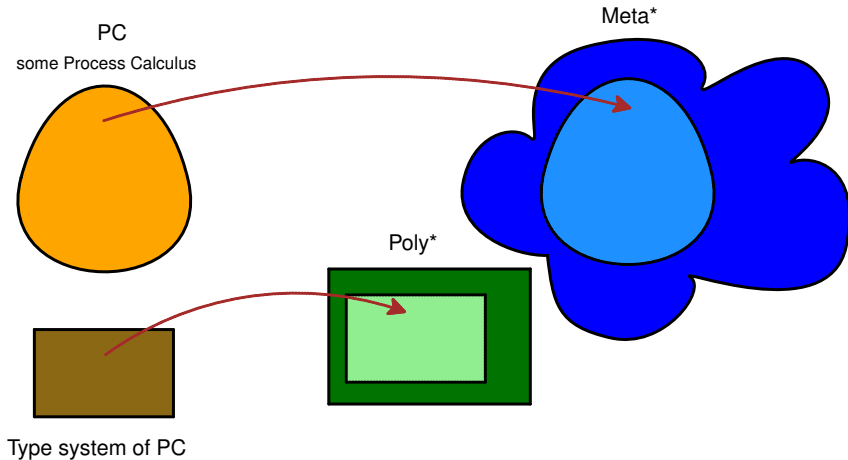
Meta*



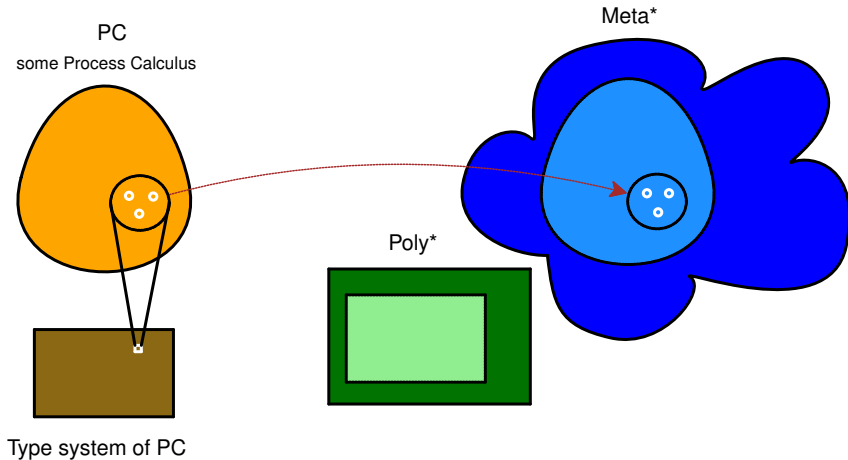
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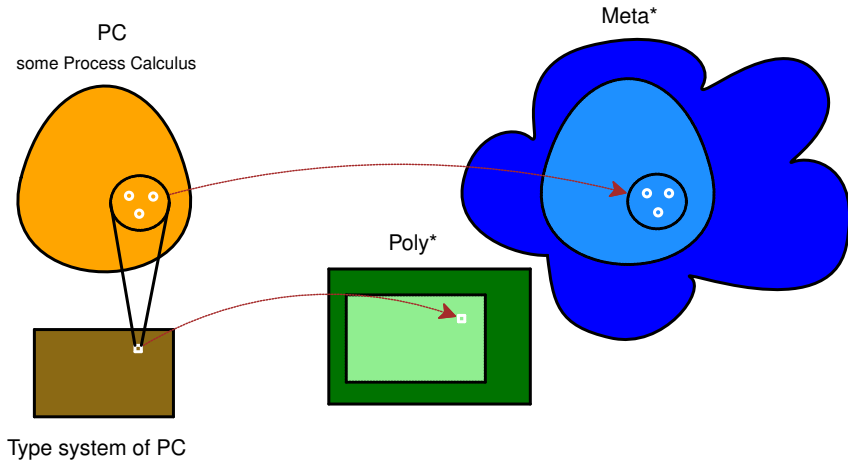
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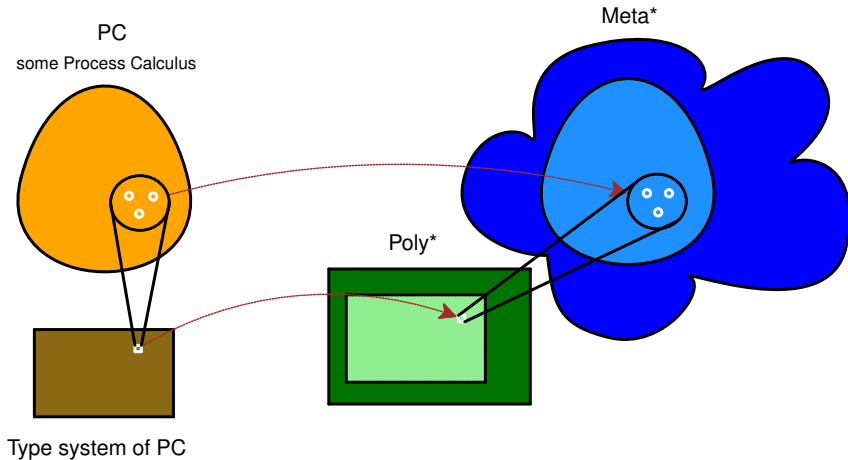
Properties of Embeddings



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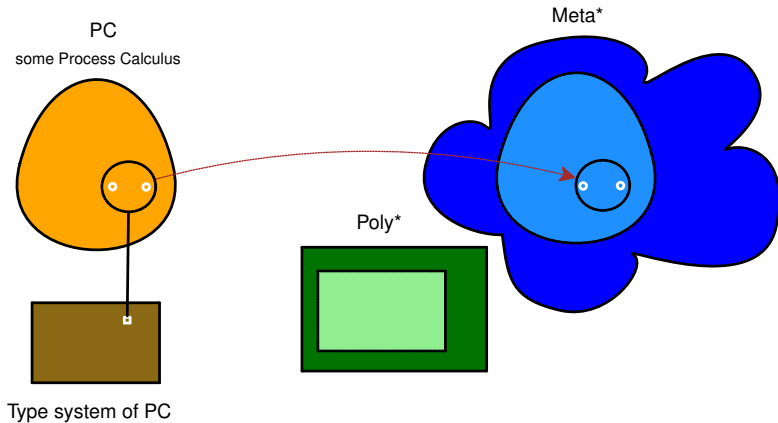
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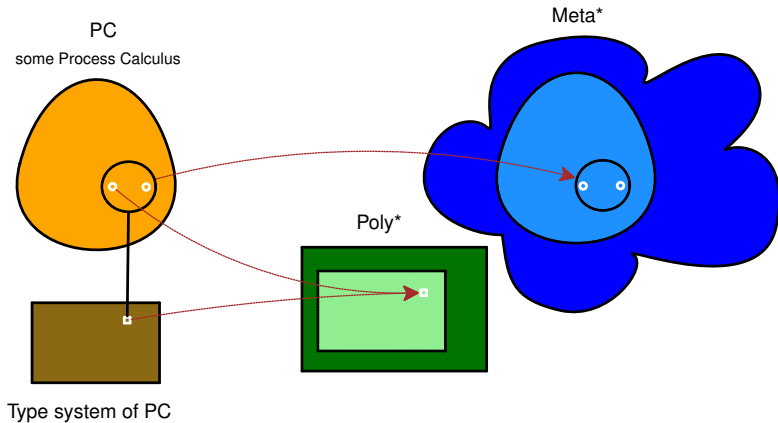
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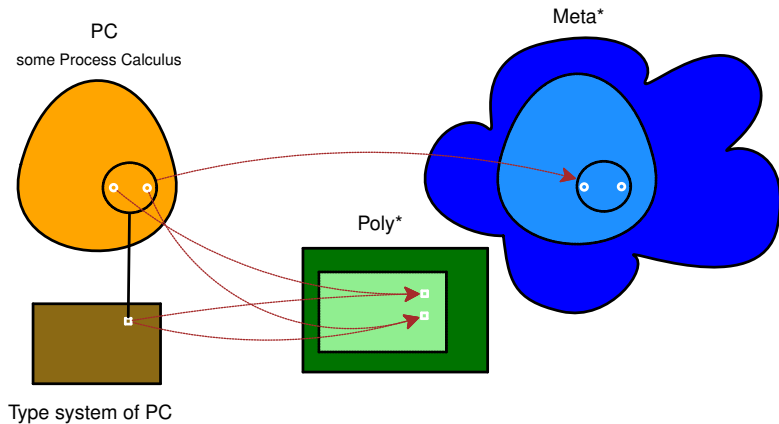
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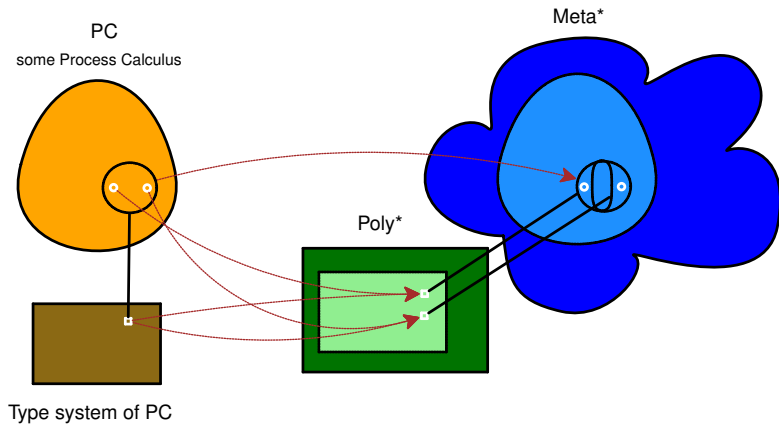
Embedding of TMA



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Embedding of TMA



Other Work

1. Extensions of Meta★ and Poly★ which improve expressiveness
2. Comparisons with other systems: Flow Analysis for BioAmbients



Questions? Thank you. . .