

## Inference and Execution of Semantic Structures

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### Inference and augmented semantic distance

Let us consider the following example:

We have a semantic structure  $C_1$ .

TODO: finish this paragraph

### Hierarchical Inference Algorithms

Used to limit the search space for inference.

$$A_1 \leftarrow A_2 \leftarrow \dots \leftarrow A_{k-1} \leftarrow A_k$$

$A_i$  is inference algorithm which can be tuned by higher level inference algorithm  $A_{i-1}$ .

Let us describe such simple algorithm involving our semantic structure approach-

What is the optimal structural representation of a set of hierarchical algorithms – a path (as shown above) or more general – a tree? Should we allow rearrangement of the connectivity pattern based on data? If yes how to implement it?

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