

Comes to the Rescue

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Instead of giving up type inference on a simpler language, **type annotation**

• synthesis

Bidirectional type synthesis switches between modes when traversing a term:

can be added to programs whenever *needed*.

Type inference is generally undecidable for any language that is complicated enough.

The technique does **scale up** and has been applied to many languages.

IR: A

IF \Rightarrow A

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