

Towards Semantics- Based Translation

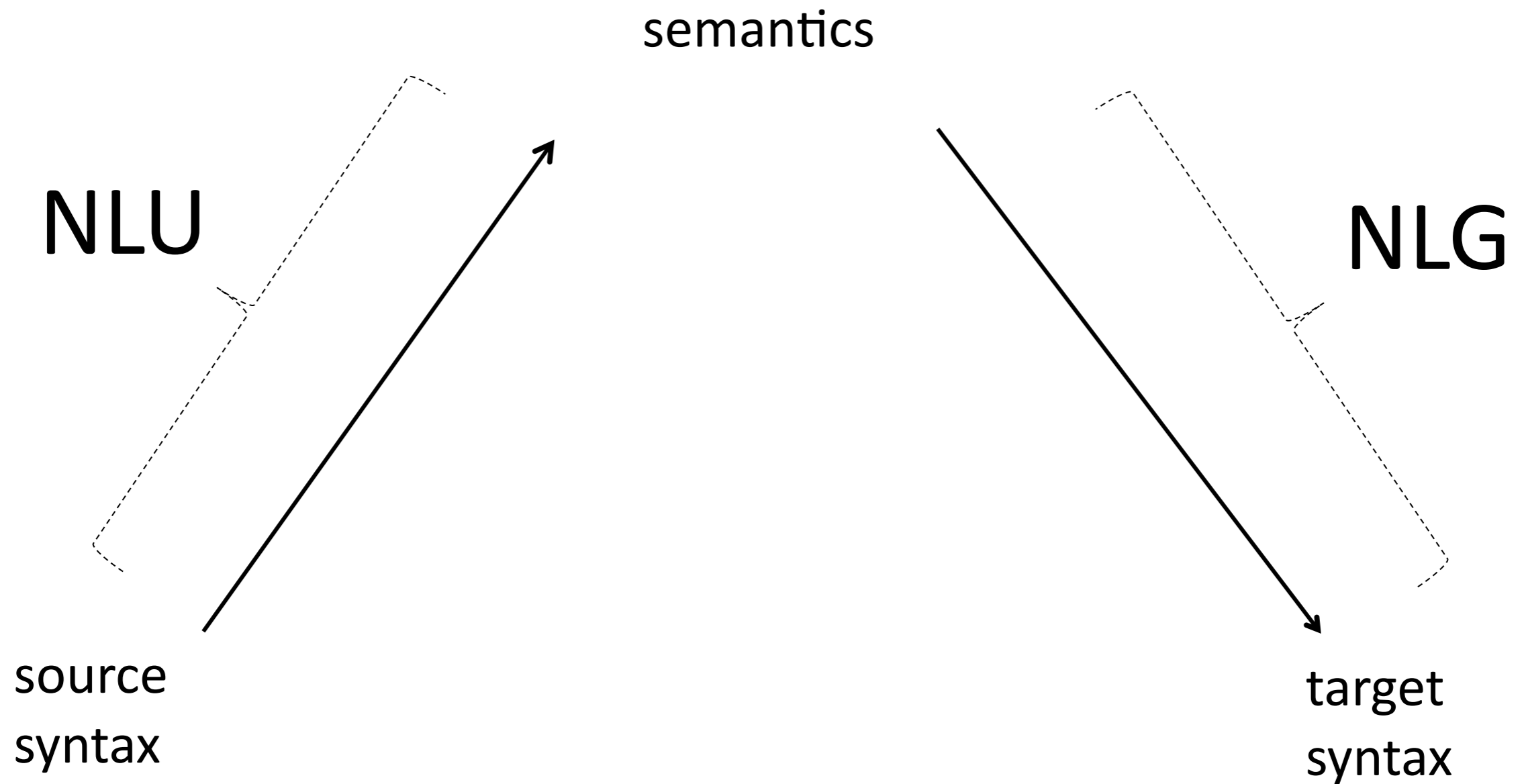
USC/ISI

2012 November 2012

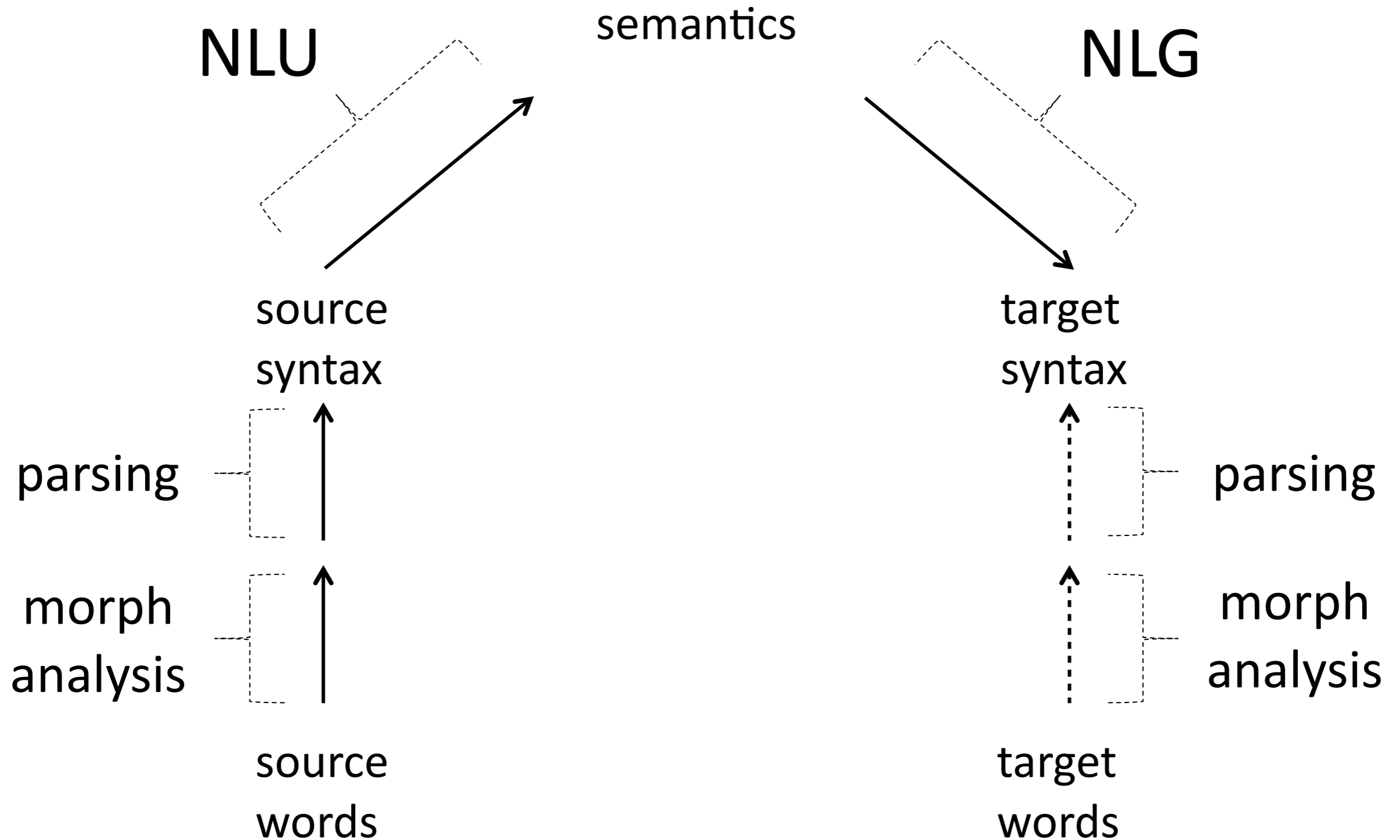


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Southern California

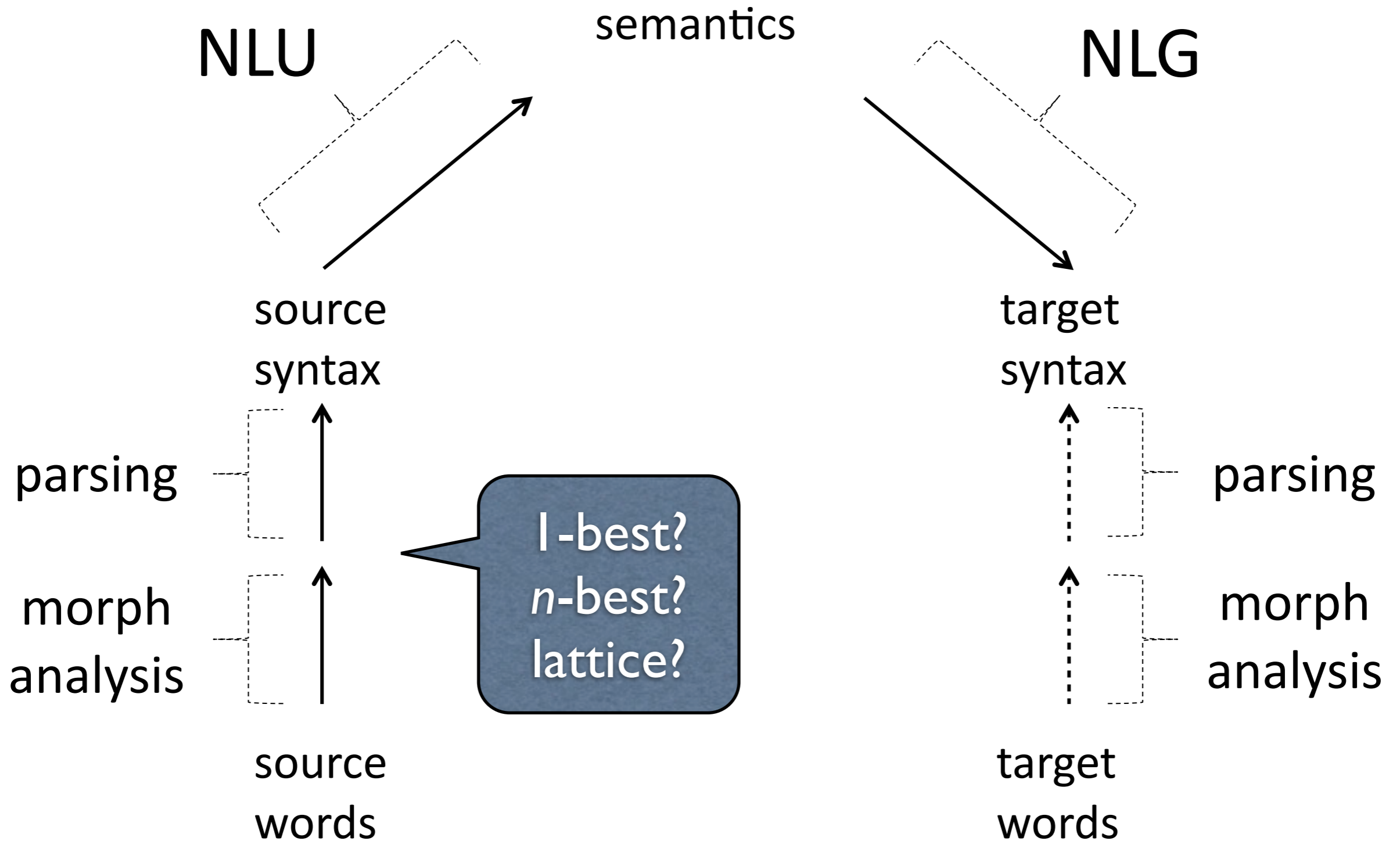
Translation pipeline



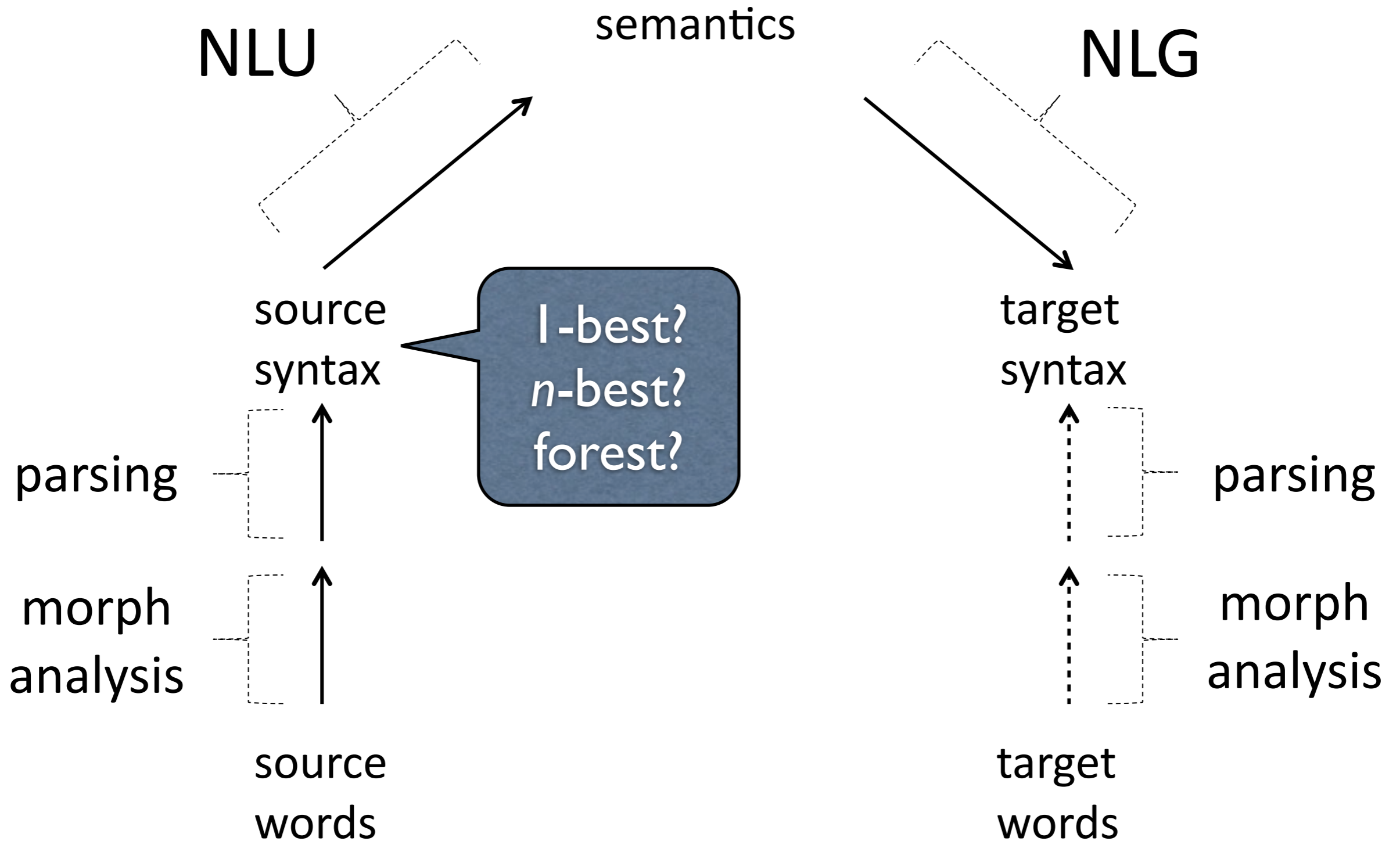
Translation pipeline



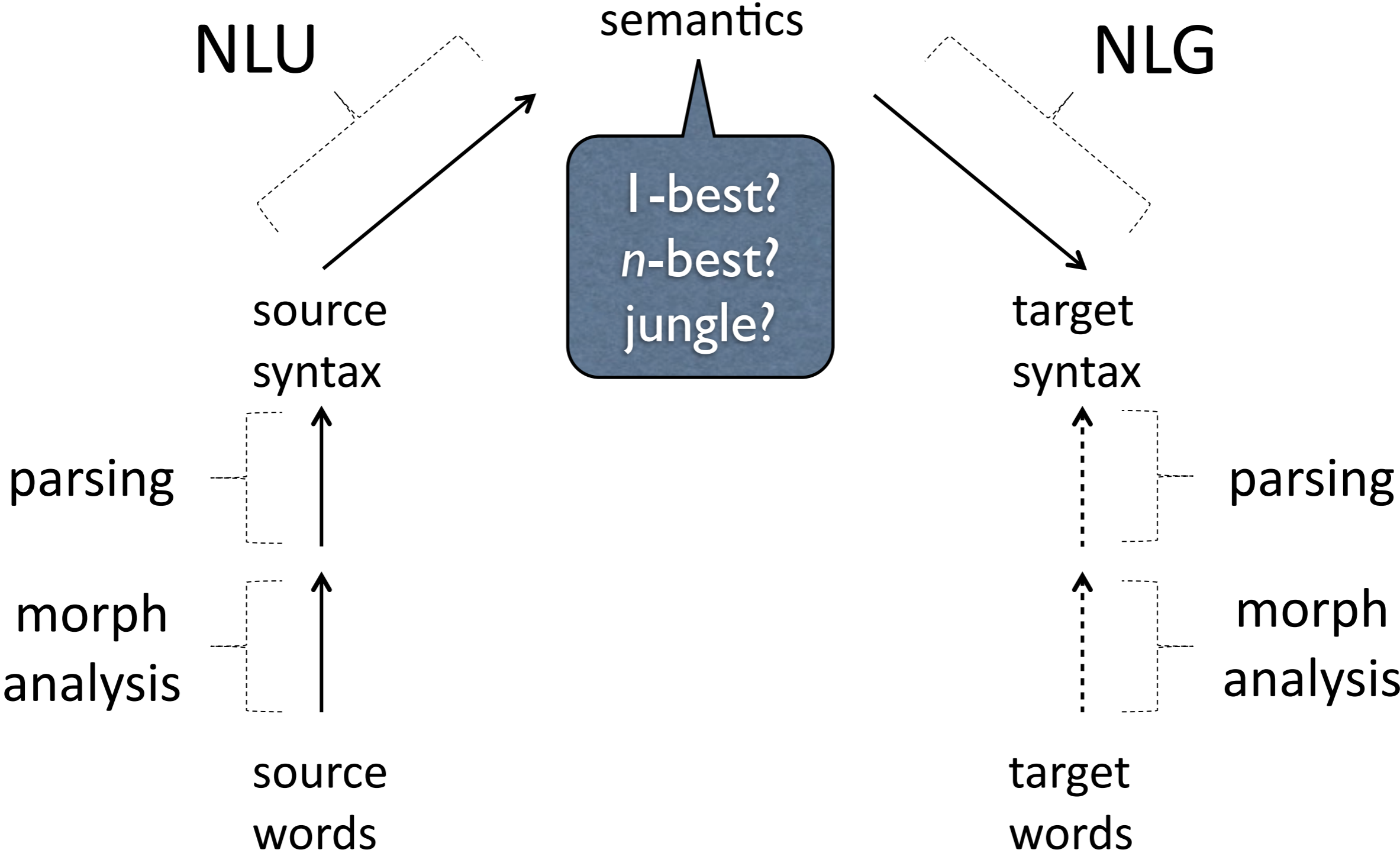
Algorithms



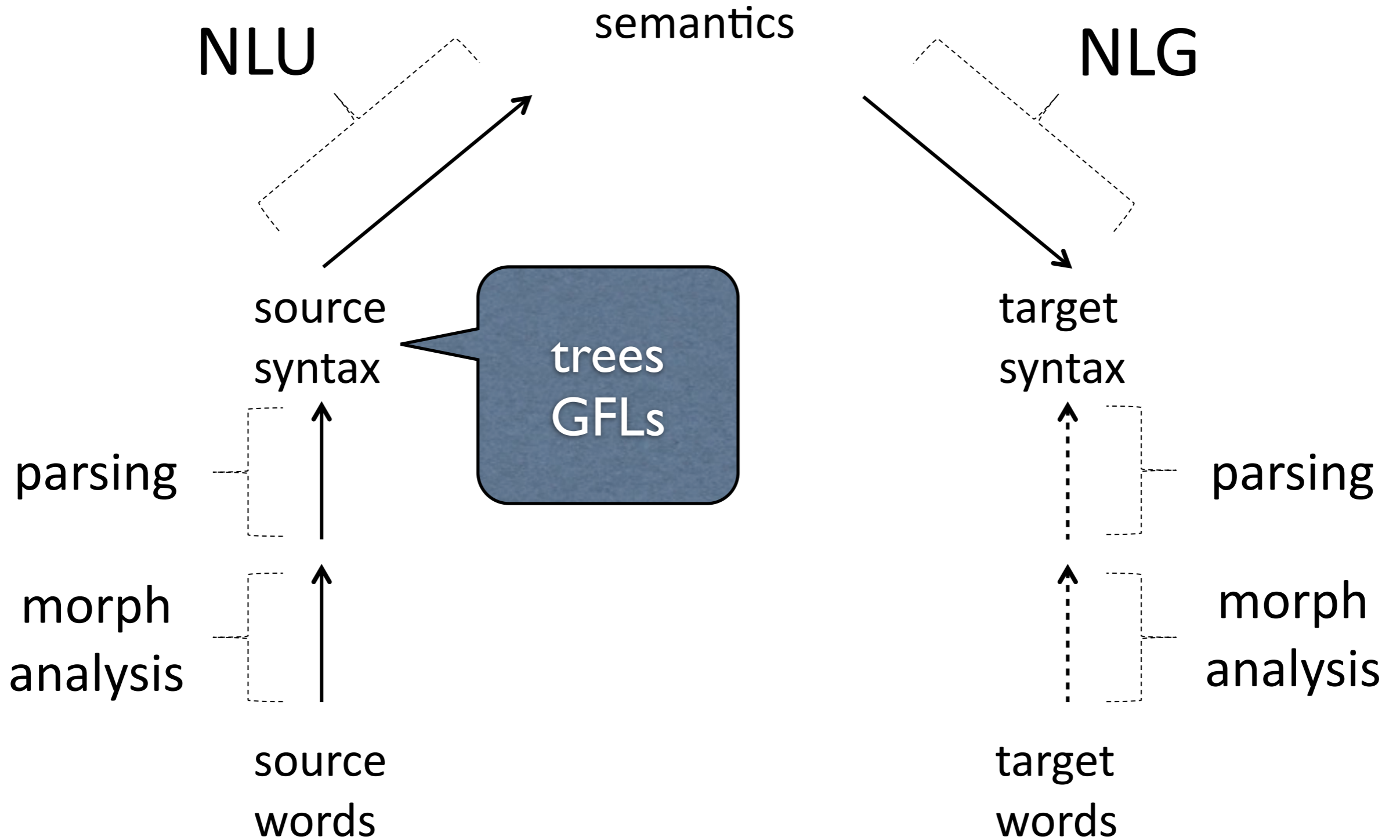
Algorithms



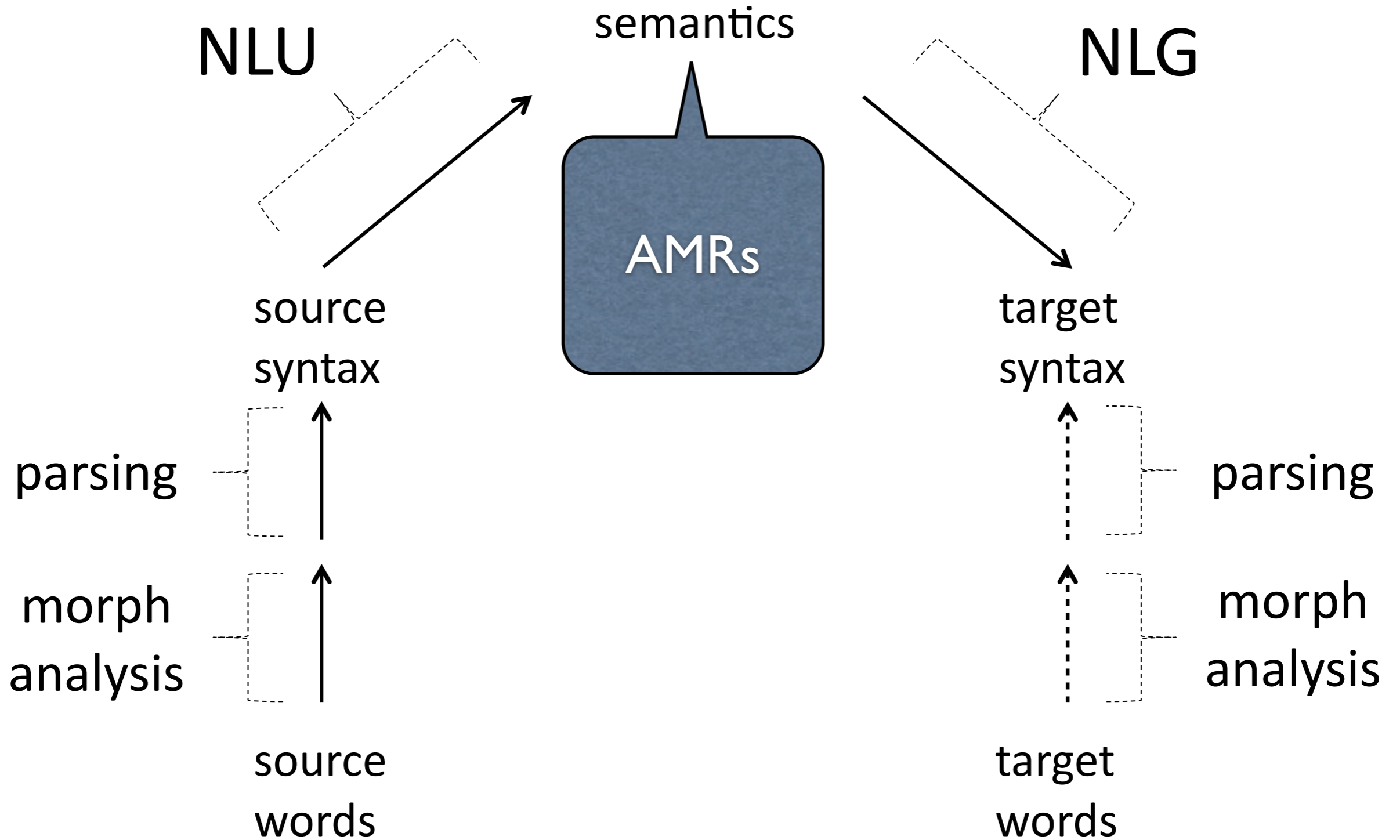
Algorithms



Data



Data



Data & Formalisms

- How much formal power do we need?
 - To generate real-world semantics (AMRs)
 - To map them to/from syntax (trees/GFLs)
- How richly should we annotate?
 - Implicit semantic roles
 - Coreference