

Hierarchical Phrase-Based Model

Hierarchical model (Chiang, 2005): rough approximation of syntax.

Hiero addresses only the gaps in phrases:

- Gaps don't have labels \Rightarrow any phrase fits.

“do not X” \leftrightarrow “ne X pas”

“do not cat” \leftrightarrow “ne chat pas”

\Rightarrow Not really a grammar, but not an issue for correct input.

- Phrase extraction similar to phrase-based:

1. Extract all (non-gappy) phrases consistent with alignment.

2. If a subphrase is also extracted, make a synchronous gap.

\Rightarrow Much higher number of rules extracted.