

Advantages of Explicit Morphology for TM

Main idea:

- separate translation of lemmas and morphology:

$$\llbracket \text{src lemma} \rrbracket \Rightarrow \llbracket \text{tgt lemma} \rrbracket$$
$$\llbracket \text{src morphology} \rrbracket \Rightarrow \llbracket \text{tgt morphology} \rrbracket$$

- generate target forms based on the lemma and morphology:

$$\begin{array}{l} \llbracket \text{tgt lemma} \\ \llbracket \text{tgt morphology} \rrbracket \end{array} \Rightarrow \llbracket \text{tgt surface form} \rrbracket$$