

Approaches to Segmentation

- Language-Model-based: LM score without and with punctuation:
$$P(\text{some sneakers I know}) \geq P(\text{some sneakers, I know}) \geq$$
$$\geq P(\text{some sneakers. I know}) \geq P(\text{some sneakers? I know})$$
- Sequence-labelling:
 - Label each word with punctuation that should follow it.
 - Many techniques possible: HMM, CRF, LSTM, ...
- Machine-translation:
 - Input: Text without punctuation.
 - Output: Text with punctuation.
 - Approaches: PBMT, NMT.

A critical decision whether to allow access to the sound:

- Delays, prosody, intonation are very informative.