Zero-shot MT

Firat et al. 2016 (two papers)

- Suppose our bilingual parallel data include a pair of languages for which we have no parallel data.
- Q: Can we use the multi-way encoder-decoder system to translate Spanish into French?

(a) 1	
(a) $\ \cdot $	< 1
(b) √ 20.64	20.4

A: Not really

Must pivot

(explicitly) (es) to French In is used as a through English

Table 4: Zero-resource translation from Spanish (Es) to French (Fr) *without* finetuning. When pivot is $\sqrt{\ }$, English is used as a

pivot language.