

# Motivation from Translation Model

Availability of translations of “knee caps” in parallel data:

Case	Surface form	50K	500K	5M	50M
nom	čěšky	●	●	●	●
gen	čěšek	—	●	●	●
dat	čěškám	—	—	●	●
acc	čěšky	○	○	●	●
voc	čěšky	○	○	○	○
loc	čěškách	—	●	●	●
instr	čěškami	—	—	—	●

⇒ You need to have **50M parallel sentences** to translate:  
“What’s wrong with my knee caps?”

“●” ... the word was seen in the particular case,

“○” ... the surface form was seen but in a different case.

Reproduced from Huck et al. (2017b).