## pipeline

target sentence source sentence

 $(X_1, \ldots, X_{T_X})$ 

 $(y_1, ..., y_{Ty})$ 

RNN-based Word Predictor

QE feature vectors  $(\mathsf{V}_1,\;\ldots,\;\mathsf{V}_{\mathsf{T}_\mathsf{V}})$ 

Neural Quality Estimator

QE score

nce-level) (word-, phrase-, senter

training data

parallel data

sentences source

translations reference

(post-editing)

quality estimation data

sentences source

translations machine

annotations

quality