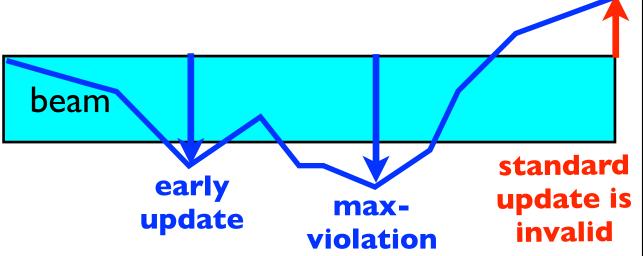
Large-scale Discriminative Training Finally made successful for the first time



Standard Perceptron (Liang et al 2006)

doesn't work well due to search errors



our work: violation-fixing perceptron with 20M+ features: +2 BLEU over MERT

training set (>100k sentences)

MERT (Och '03)

~10 features

MIRA

(Watanabe+ '07) (Chiang+ '08-'12)

~10k features

PRO

(Hopkins+May '11)

HOLS (Flanigan+ '13)

sparse features as one feature

• • •

dev set (~1k sents)

test set (~lk sents)