Evaluating machine translation Buu score: french: Le chat est son le tapis Reference 1: The cat is on the mat beforence: There is a cat on the mat actor studies senior actor, bilingual evaluation junderstudy; in case required to MT ofp: the the the the the the blu is understray wrt the reference centence for human reference. adipped court Papineni et al. 2002 modified precision: 2 Blue: A neterod for automatic evaluation of machine translation -> blu score on bigrams mī op: The cat the cat on the mat the cat, cat the, cat on, on the, the mat $\frac{\cancel{x}}{\cancel{x}} = \frac{2}{3}$ wint: 2 count chy: 1 0 Count (lip (unigram) P₁ = \sum uniquans t \hat{y}

$$P_n = \sum_{\substack{n-\text{grams } \in \hat{y} \\ n-\text{grams } \in \hat{y}}} count clip (n-\text{gram})$$

blue details:

Pn = Blue score on n-grams only

 $BP \exp \left(\frac{1}{4} \sum_{n=1}^{4} p_n\right)$

implementations available.

used for image captioning

BP -> Brewity Fenality

penalises short translation.

1 exp(1-RI/ mT) y the MT otherwise

output is >RT