## Subword methods are not some-

 thing one should plug-and-forget when building NMT systems.Configure them carefully, or risk losing 3-4 BLEU points of performance in some settings!



| deep- |  |  |  |
| :--- | :--- | :--- | :--- |
| transformer | fr-en | 28.8 | 29.8 |
| 29.6 | 29.3 | 28.7 | 28.5 |
| 27.5 | 26.6 | 3.2 |  | en-ar 12.613 .012 .112 .311 .811 .310 .710 .62 .6





 en-de 23.8 25.7 25.4 25.3 25.2 24.3 24.1 22.1 3.6
en-fr 23.5 24.7 25.1 24.6 24.523 .822 .722 .1 3.0

LSTM Results
0. $0.5 \mathrm{k} 1 \mathrm{k} \quad 2 \mathrm{k} \quad 4 \mathrm{k} 8 \mathrm{k} \quad 16 \mathrm{k} 32 \mathrm{k}$ ס ar-en 20.622 .122 .423 .024 .124 .224 .224 .0 3.6

$$
\text { de-en } 21.122 .523 .223 .123 .123 .123 .623 .02 .5
$$

tiny- fr-en 21.825 .3 25.3 25.425 .125 .325 .124 .73.

 en-fr 19.9 20.4 20.7 21.8 21.3 21.0 21.3 21.3 1.7 ar-en 27.527 .227 .127 .627 .426 .7 27.5 26.31 .3
de-en 25.725 .9 26.0 25.9 26.4 26.326 .126 .50 .8
shallow- fr-en 27.6 26.7 27.7 28.4 27.9 27.7 28.5 27.5 1.8

 | en-cs 16.115 .715 .8 15.3 15.8 15.5 15.8 15.6 0.8 |
| :--- |
| en-de 24.9 25.1 23.9 24.2 25.4 25.2 25.5 25.0 1.6 |

 ar-en 21.225 .727 .227 .125 .624 .825 .122 .94 .3



 High Resource Results

