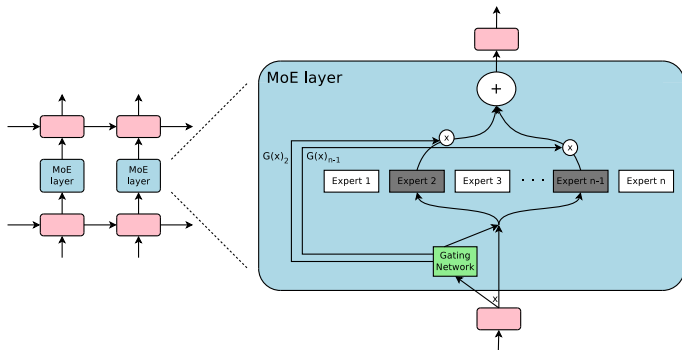# Google-Sized Experiment

The recent 50 billion parameters Transformer needed further trick:

- sparsely-gated mixture of experts (Shazeer et al., 2017):

$\Rightarrow$ BLEU on 100 langs re-gained and improved by 125x larger model.
https://ai.googleblog.com/2019/10/exploring-massively-multilingual.html