

Dear METL 2020 participants,

we will do a flipped class on 2.4.2020. You watch the video before class, according to your time availability, and we discuss it during class time.  
Class will be done with Zoom.

We will talk about neural machine translation.  
There is a great class on Neural MT at <http://onlinehub.stanford.edu/cs224/stanford-cs224n-nlp-with-deep-learning-winter-2019-lecture-8-translation-seq2seq-attention..>

The video takes approximately 1 hour and 20 minutes. You can break it down in three sections, if you need to. I have also loaded together the slides that accompany in Moodle under course 5,

The first 19 slides are a recap of the history of MT ( with a short very funny video) and the brief presentation of word-to-word and phrase-based MT systems.  
It is a good summary of what we saw in the last two lectures.

From slide 20 to slide 50 it introduces, wonderfully well-explained, neural machine translation, using RNNs.

**Skip slides 48-50.** They talk about evaluation of MT, we will come back to it in our next lecture.

Slides 60 to 75 (the end) are about a technique called attention that basically improved NMT and learns implicitly the notion of alignment.

To guide you in the watching I have put a set of questions in Moodle, they are not questions you have to answer, you need to

ask them to yourself to check you understood.  
They are in the file **Questions-NMT**.