elmo

# library link

<https://tfhub.dev/google/elmo/1>

# basic description

If you can embed words differently depending on the context even with words with the same notation, you will be able to improve the performance. The idea of embedding in consideration of context in word embeedding is Contextualized Word Embedding that reflects context.

# version

* tensorflow version == 1.x (pip install tensorflow)
* tensorflow\_hub version == 0.12.0 (pip install tensorflow\_hub)
* keras version == 2.3.1 (pip install keras)
* numpy version >= 1.19.5 (pip install numpy)
* pandas version >= 1.1.5 (pip install pandas)

# dataset

* data set with spam and regular mail.

# code description

* code for classifying spam emails in a dataset.

# validation

* after dividing it from the data set to the test data ste, verification is performed.