> Neural machine translation with attention Download and prepare the dataset Limit the size of the dataset to experiment faster (optional) Create a tf.data dataset Write the encoder and decoder model Define the optimizer and the loss function > Training > Translate Restore the latest checkpoint and test Image captioning with visual attention Download and prepare the MS-COCO dataset Optional: limit the size of the training set Preprocess the images using InceptionV3 > Initialize InceptionV3 and load the pretrained Imagenet weights Caching the features extracted from InceptionV3 Preprocess and tokenize the captions Split the data into training and testing Create a tf.data dataset for training > Model > Checkpoint