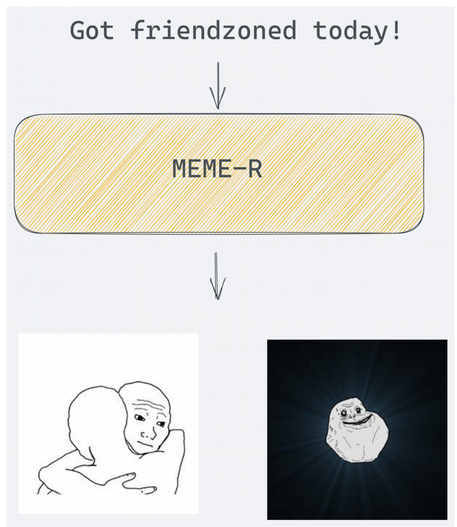
MEME-R: Meme Retrieval

Xabier Lahuerta, Murali Kondragunta and Ruan Chaves
IXA NLP Group / University of the Basque Country, Donostia, Basque Country
{xlahuerta001, mkondragunta001, rchaves003}@ikasle.ehu.eus

We propose to build a meme retrieval system which works in both directions – 1. retrieve an image when given context 2. retrieve a caption given an image.

+ The system works on already popular memes.

- For not so popular memes, the system takes the literal meaning i.e. focuses on the entities in query/image.



Text 2 Image System

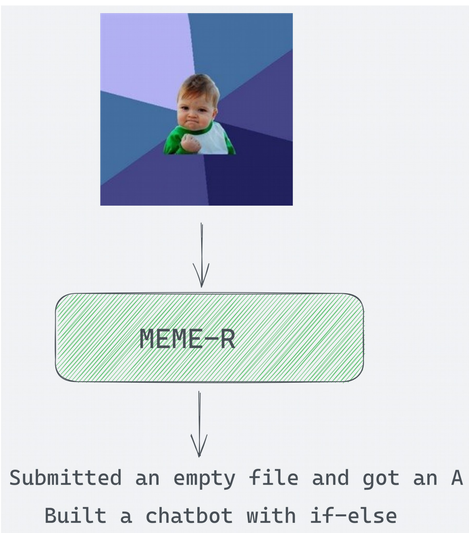


Image 2 Text System

Pipelines

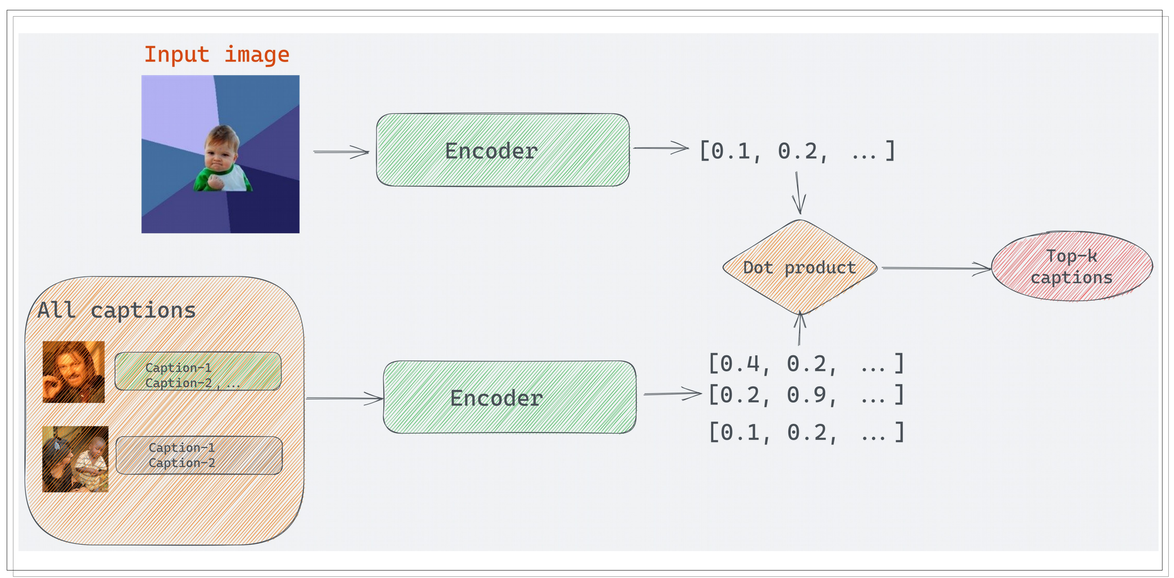
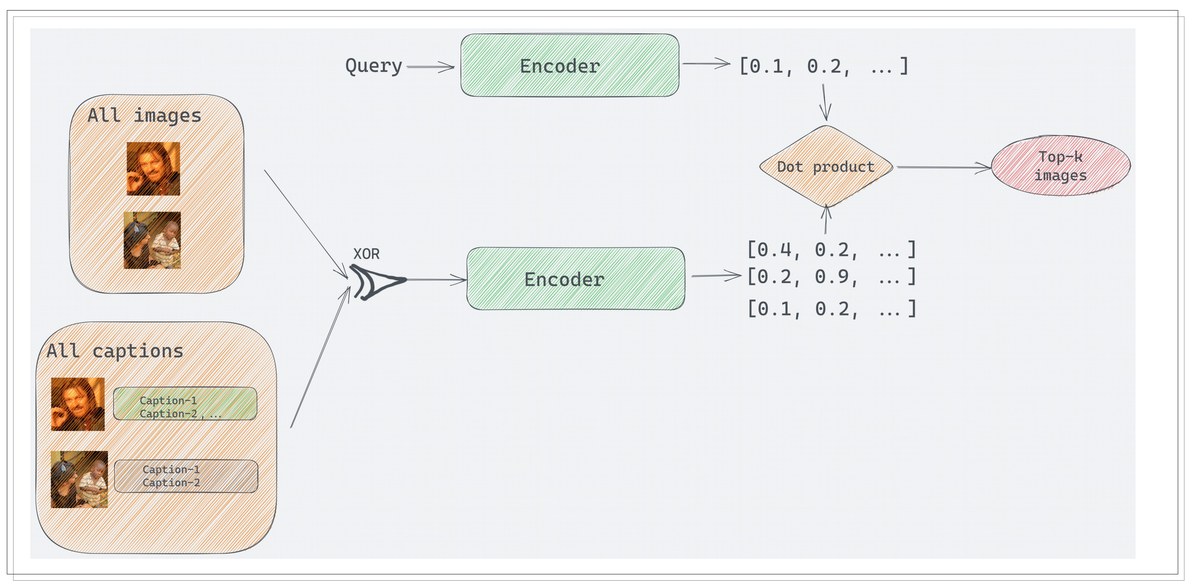
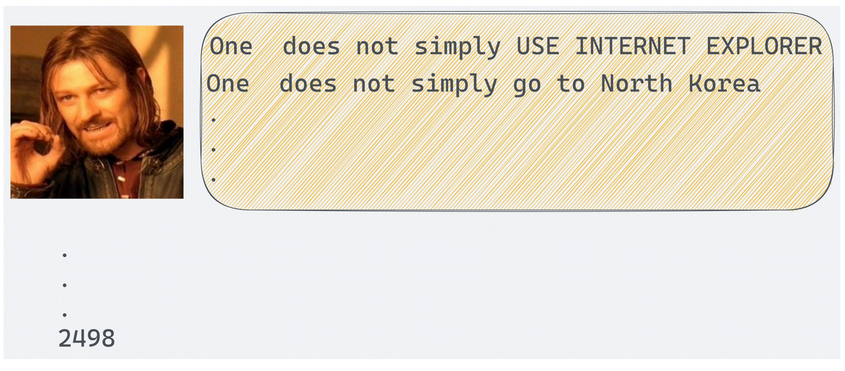


Image 2 Text Pipeline



Text 2 Image Pipeline

Dataset



Dataset (Perison et.al 2018)

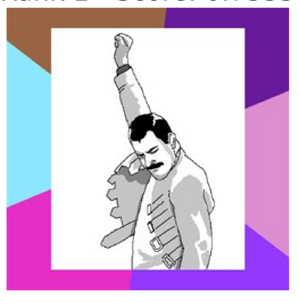
Dataset Info.

Images	2498
Captions	414388

missed a deadline but got 100 percent scores

Text 2 Image CLIP

Rank 1 - Score: 0.7335



Rank 2 - Score: 0.7307

Rank 3 - Score: 0.7265

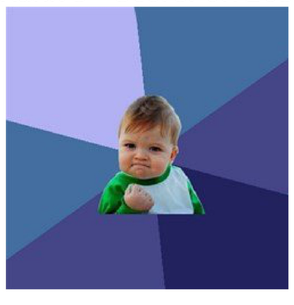


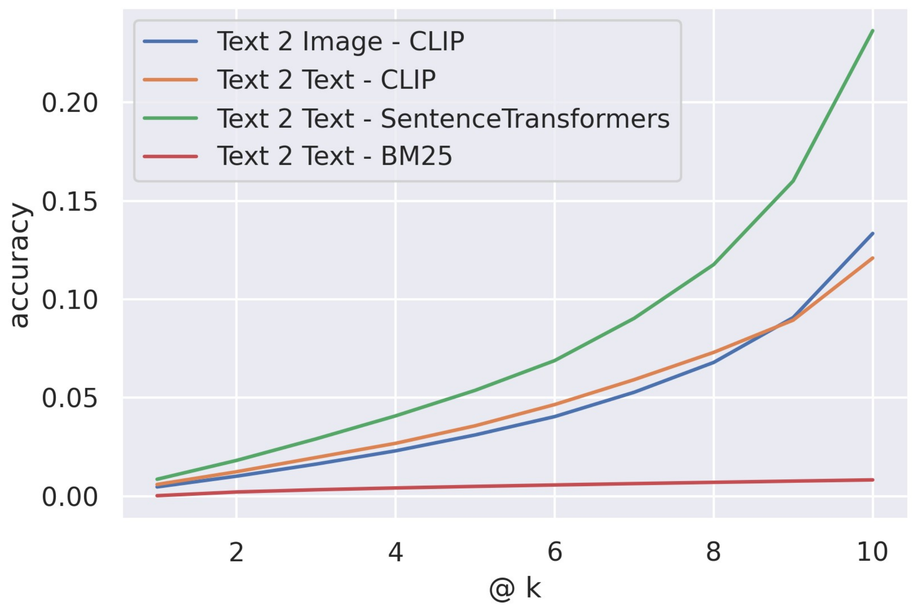
Image 2 Text CLIP

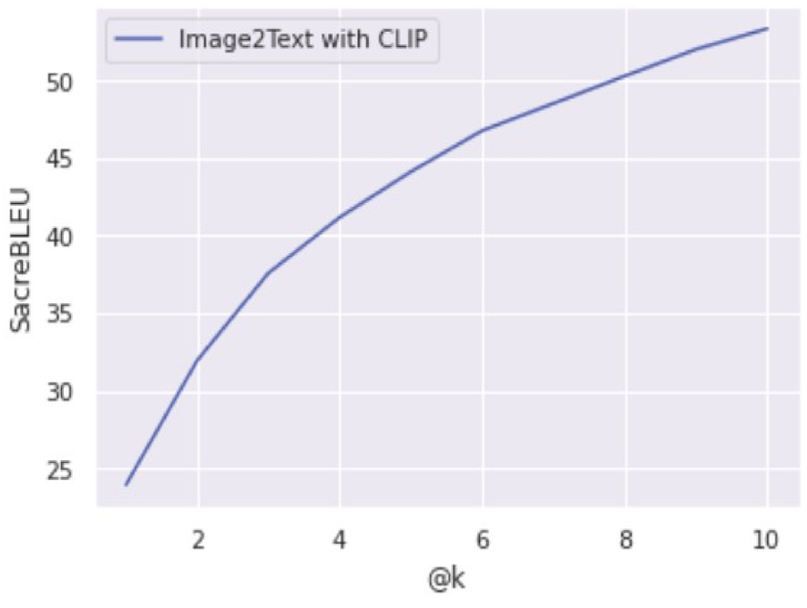
1. i love this book, how to read by nappa now if i only knew how to read

2. how tough am i i read books.....without glasses

3. no hair no nose and still the best villain ever

Results on Text 2 Image



Live Demo

Results on Image 2 Text