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jazzsaxmafia / show\_and\_tell.tensorflow

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jazzsaxmafia	Added files via upload	Latest commit 0a6f35a on 1 Mar 2016
.ipynb_checkpoints	sS	a year ago
.gitignore	It works!	2 years ago
LICENSE	Create LICENSE	a year ago
Readme.md	Update Readme.md	a year ago
acoustic-guitar-player.jpg	Finally Works	2 years ago
cnn_util.py	test:only tf	a year ago
ipython_demo.ipynb	sss	a year ago
ixtoword.npy	Added files via upload	a year ago
make_flickr_dataset.py	Merge branch 'master' of https://github.com/jazzsaxmafia/show_and_tel...	a year ago
model.py	Update model.py	a year ago
result.jpg	sS	a year ago

Readme.md

# Neural Caption Generator

- Tensorflow implementation of "Show and Tell" <http://arxiv.org/abs/1411.4555>
- Borrowed some code and ideas from Andrej Karpathy's NeuralTalk.
- You need flickr30k data (images and annotations)

## Code

- make\_flickr\_dataset.py : Extracting feats of flickr30k images, and save them in './data/feats.npy'
- model.py : TensorFlow Version

## Usage

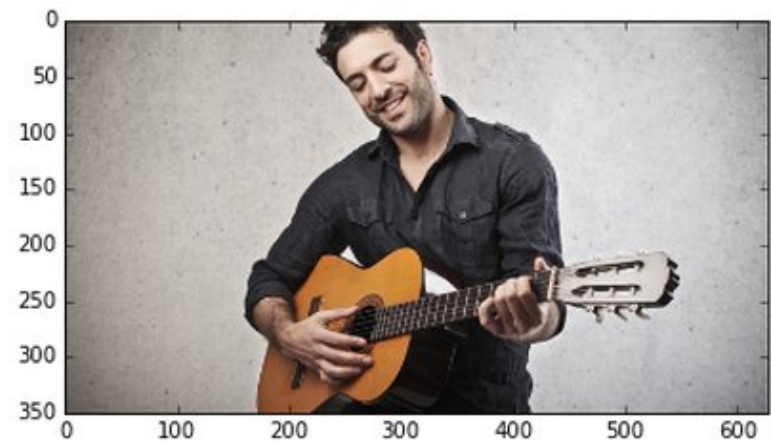
- Flickr30k Dataset Download
- Extract VGG Featues of Flicker30k images (make\_flickr\_dataset.py)
- Train: run train() in model.py
- Test: run test() or test\_tf() in model.py
- parameters: VGG FC7 feature of test image, trained model path
- Once you download Tensorflow VGG Net (one of the links below), you don't need Caffe when testing.

## Downloading data/trained model

- Extraced FC7 data: [download](#)
- This is used in train() function in model.py. You can skip feature extraction part by using this.
- Pretrained model [download](#)
- This is used in test() and test\_tf() in model.py. If you do not have time for training, or if you just want to check out captioning, download and test the model.

- Tensorflow VGG net [download](#)
- This file is used in test\_tf() in model.py
- Along with the files above, you might want to download flickr30k annotation data from [link](#)

```
captioning('./acoustic-guitar-player.jpg')
```



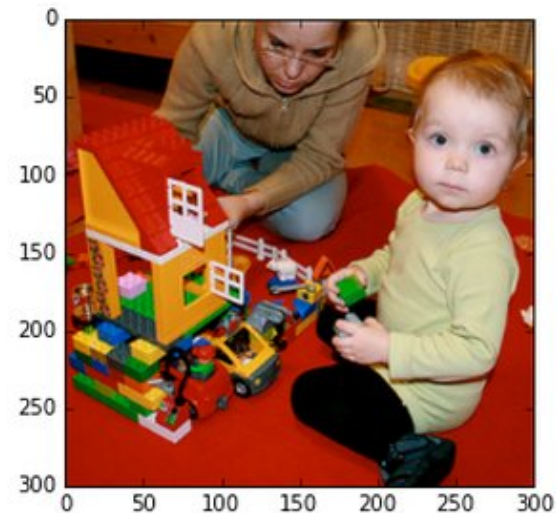
a man in a black shirt is playing a guitar .

```
captioning('https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcTL_V-l')
```



a young boy wearing a baseball game is swinging at a pitch .

```
captioning('http://cs.stanford.edu/people/karpathy/deepimagesent/legos.p')
```



a little girl in a pink shirt is playing with a balloon .

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