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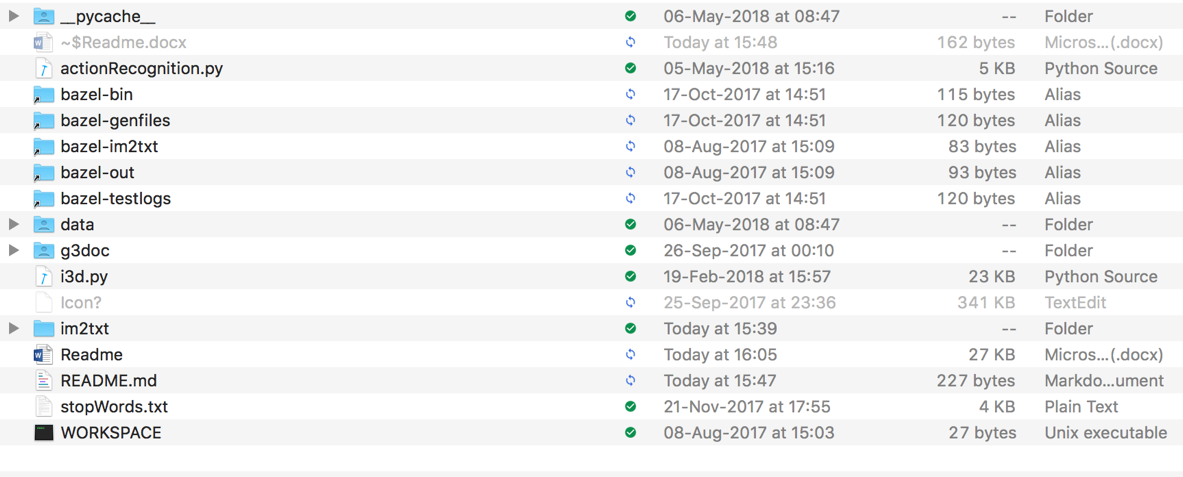
# Readme

## Following Packages are required:

* **Bazel** ([instructions](https://docs.bazel.build/versions/master/install.html))
* **Tensorflow** ([instructions](https://www.tensorflow.org/install/))
  + 1 Tensorflow version is required for im2txt (Less than 1) – ***Tested on 0.12.1***
  + 1 Tensorflow version is required for Action Recognition (Greater than 1) – ***Tested on 1.4.0***
  + As more than 1 Tensorflow versions cannot be installed on a single Python Version. Thus, one TF version will be on Python 2 and other one on Python 3.
  + ***Tested with Python 2 and Tensorflow 0.12.1, Python 3 and Tensorflow 1.4.0***
* **NumPy** ([instructions](https://www.scipy.org/install.html))
* **Natural Language Toolkit (NLTK)**
  + First install NLTK ([instructions](http://www.nltk.org/install.html))
  + Then install the NLTK Data Package “punkt” ([instructions](http://www.nltk.org/data.html))

## After installation of packages:

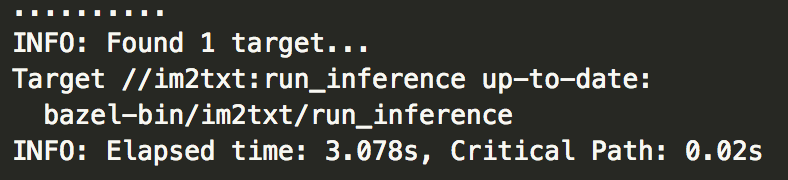
1. Go to this **im2txt** directory from your terminal – cd <path>/im2txt



1. Type:

bazel build -c opt im2txt/run\_inference

Output will be like this:



**This “bazel build –c opt im2txt/run\_inference” has to be executed only for the first time.**

1. Do the following then:
   * Go to the “run\_inference.py” file and change lines 141-146 according to your system.

* Then, go to the im2txt/gui folder, and open up “gui.py” file.
* On line 66, change the directories according to your own placement of im2txt folder
* On line 67, change the directories of Checkpoint File and Vocabulary File.

1. Considering you’re in the **gui** directory, do the following:

python gui.py

1. Select the video you want to add captions to, and click “Start”.