Installing Python

1. Make a file on your desktop named Dolly
2. Place main.py and requirements.txt inside it
3. Open Terminal app
4. On terminal app type:
   1. cd Desktop/Dolly
      1. This will move you to the Dolly folder that you made
   2. xcode-select –install
      1. This will install xcode
   3. /usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
      1. Install homebrew
      2. To confirm homebrew installed correctly, type the following on terminal. This should output: Your system is ready to brew.
         1. brew doctor
   4. brew install python3
      1. Install python3
      2. Confirm this is installed with the following command. This should output Python 3.7.0
         1. python3 --version

Installing app dependencies

1. On terminal type:
   1. curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py
      1. Downloads get-pip.py in Dolly folder
   2. python3 get-pip.py
      1. Installs pip3
   3. pip3 install -r requirements.txt
      1. Installs requirements for the app

Enable Speech-to-Text API on Google Cloud Platform

1. Create google cloud account and click the try free button
   1. <https://cloud.google.com/>
      1. They will give $300 free credits, which most likely you will not use at all
2. Sign in to your google cloud account and click on “console” on top right
3. Click on the button displayed below and click the “New Project” buttonスクリーンショット が含まれている画像

   自動的に生成された説明
4. Make sure billing is enabled for the project
   1. <https://cloud.google.com/billing/docs/how-to/modify-project>
5. Enable the Google Compute Engine and Cloud Source Repositories APIs by clicking the following link
   1. <https://console.cloud.google.com/flows/enableapi?apiid=compute,sourcerepo.googleapis.com&redirect=https:%2F%2Fconsole.cloud.google.com&_ga=2.242742850.-1374158268.1540478956>
6. Install the cloud sdk by clicking the links and following the instructions on:
   1. <https://cloud.google.com/sdk/docs/>
7. Go back to google cloud website and from the left side menu, click on “API and Service” and then “Library”
8. Search Cloud Speech-to-Text API and click on it
9. Press the Enable button
10. Authenticate this API
    1. <https://cloud.google.com/docs/authentication/getting-started>
       1. ONLY do sections:
          1. Creating a service account
             1. Once you do until step 5 and download the .json file, move this file to the Dolly folder
             2. Let’s also rename this file as: dolly-secret.json
          2. Setting the environment variable
             1. Since we moved the .json file to the Dolly folder, the command will now be different
             2. Type pwd on terminal. This will give you something like “/Users/eureyuri/Desktop/Work/Dolly” in my case. Copy this path
             3. Then do the command mentioned on the website. In my case it will be

export GOOGLE\_APPLICATION\_CREDENTIALS="/Users/eureyuri/Desktop/Work/Dolly/dolly-secret.json"

Run the code!

1. Phew… We are finally here. On your terminal, type
   1. python3 main.py
2. And the program should be running!
3. Just a couple notes about the program
   1. To start the program, say “Hey Dolly”. The following commands are not implemented with voice so you will need to type into terminal
   2. The program supports multiple languages, but the best environment is English because some of the functionality are not supported in the other languages
      1. In English, common/insignificant words are omitted because we do not want words such as “and” to appear in the top 30 / 10 / random results. However, is not implemented in other languages
      2. In English, Dolly’s random suggestions are not completely random. They are based off of a technique called feature extraction in natural language processing and it has the ability to pick up significant words that may not appear in the most frequently spoken words.
      3. As it is mentioned inside the program when the word “quit” or “exit” is mentioned, Dolly will stop recording and will start to process the data. Since it is not possible to control which speaker speaks first and assign the name to the correct person, you have a chance to rename here.
      4. The resulting file is written inside a new folder called “output”

Problem 1 installing pyaudio when installing requirements.txt

Fatal error: ‘portaudio.h’ file not found

Deleted pyaudio from requirements but did not work. Later realized that they did not install the packages from there

Since I let them install Python 3.7 and pyaudio is not supported, gave them the whl file. This worked in my case <https://stackoverflow.com/questions/54998028/how-do-i-install-pyaudio-on-python-3-7>

WARNING: Requirement ‘PyAudio-0.2.11-cp37-cp37m-win\_amd64.whl’ looks like a filename, but the file does not exist

ERROR: PyAudio-0.2.11-cp37-cp37m-win\_amd64.whl is not a valid wheel filename.

getconf LONG\_BIT to check 32 or 62bit machine

brew unlink python

but brew was not installed

brew unlink python

brew unlink python3

no such keg /usr/local/cellar/python

but python was placed in a wrong place

which python

vi ~/.bash\_profile

export PATH=/usr/local/bin:/usr/local/sbin:~/bin:$PATH

brew unlink python

brew install --ignore-dependencies https://raw.githubusercontent.com/Homebrew/homebrew-core/e128fa1bce3377de32cbf11bd8e46f7334dfd7a6/Formula/python.rb

brew switch python 3.6.5

xcode-select –install

brew install portaudio

pip install pyaudio

File “main.py”, line 11, in <module>

from google.cloud import speech\_v1p1beta1 as speech

ModuleNotFoundError: No module named ‘google’

pip3 install google-cloud-speech

Could not fetch URL https://pypi.org/simple/google-api-core/: There was a problem confirming the ssl certificate: HTTPSConnectionPool(host=‘pypi.org’, port=443): Max retries exceeded with url: /simple/google-api-core/ (Caused by SSLError(“Can’t connect to HTTPS URL because the SSL module is not available.“,)) - skipping

Could not find a version that satisfies the requirement google-api-core[grpc]<2.0.0dev,>=1.6.0 (from google-cloud-speech) (from versions: )

No matching distribution found for google-api-core[grpc]<2.0.0dev,>=1.6.0 (from google-cloud-speech

Tried upgrading

python3 -m pip install --upgrade requests

brew install openssl

echo 'export PATH="/usr/local/opt/openssl/bin:$PATH"' >> ~/.bash\_profile

export LDFLAGS="-L/usr/local/opt/openssl/lib"

export CPPFLAGS="-I/usr/local/opt/openssl/include"

pip3 install google-cloud-speech

pip3 install pyaudio

pip3 install SpeechRecognition

pip3 install --user -U nltk

import nltk

nltk.download()

ImportError: dlopen(/usr/local/Cellar/python/3.6.5/Frameworks/Python.framework/Versions/3.6/lib/python3.6/lib-dynload/\_sqlite3.cpython-36m-darwin.so, 2): Symbol not found: \_sqlite3\_enable\_load\_extension

Referenced from: /usr/local/Cellar/python/3.6.5/Frameworks/Python.framework/Versions/3.6/lib/python3.6/lib-dynload/\_sqlite3.cpython-36m-darwin.so

Expected in: /usr/lib/libsqlite3.dylib

in /usr/local/Cellar/python/3.6.5/Frameworks/Python.framework/Versions/3.6/lib/python3.6/lib-dynload/\_sqlite3.cpython-36m-darwin.so

module nltk has no attribute data

pip3 install numpy

brew install sqlite

pip3 uninstall nltk

pip3 install -U nltk

nltk.download() -- froze

nltk.download('stopwords')

install all other packages

export GOOGLE\_APPLICATION\_CREDENTIALS="/Users/eureyuri/Desktop/Work/Dolly/dolly-secret.json"

<https://kbroman.org/github_tutorial/pages/init.html>

<http://tusukuru.hatenablog.com/entry/2018/08/29/021651>

<https://qiita.com/takanatsu/items/fc89de9bd11148da1438>