## **Hands-on Steps for AWS Rekognition:**

- Make sure you have completed the module steps available here:
   <a href="https://github.com/norawebbwilliams/cambridge\_elements/blob/master/notes/02-use-aws-rekognition.md">https://github.com/norawebbwilliams/cambridge\_elements/blob/master/notes/02-use-aws-rekognition.md</a>
- 2. Find your 'auto\_tagger\_example' directory (ours is on the Desktop) and take a quick look at the images in the 'data' directory to get a sense of what's there.
- 3. To run the Rekognition code on those images, you need to make **3 changes** to the python code. For each change, you need to update a **path**, meaning you need to point the program to a specific folder or file.

Here's an example of a Windows path:

*'C:/Users/Nora/Desktop/auto\_tagger\_example/notebooks/* [Note the direction of the slashes and the slash at the end!]

A Mac path might look more like:

'/Users/Andreu/Desktop/auto\_tagger\_example/notebooks/ [Note the direction of the slashes and the slash at the end!]

- 4. You can update the code and run it in one of two ways:
  - a. Update and execute using a jupyter notebook
    - i. Open a bash terminal.
    - ii. Navigate to your 'auto\_tagger\_example' directory by using the command 'ls' (which **lists** the available files in your current location) and 'cd' which moves you to a new directory (**c**hange **d**irectory). In my bash terminal, this looks like the following, where the \$ indicates that I've entered a command:

```
$ cd Desktop/auto_tagger_example/
$ ls
code/ data/ keys/ notebooks/ results/
```

If you need to go up a directory, type 'cd ...'

- iii. Start a jupyter notebook by typing 'jupyter notebook' and hitting enter in your bash terminal from the 'auto\_tagger\_example' directory. It may take a few minutes to start.
- iv. When the notebook opens in your web browser, navigate to 'notebooks' and then open '01\_aws\_rekog\_labels.ipynb'
- v. In the **Paths** section, update the code with the paths to your results and data directories.
- vi. In the **Connect to Rekognition API** section, update the code with the path to your AWS access keys.

- vii. Run each section of the code. If all goes well, you should see labels pop up, and there will be a new 'awsrekognition\_detect\_labels.csv' file in your 'results' directory.
- viii. You can save the jupyter notebook to keep the paths you've entered for next time.
- ix. Common errors: Make sure you are using a python 3.5+ kernel; make sure that your paths are correct; make sure that your have boto3 installed.

## b. Update with a text editor and execute in bash

- Use a text editor (Sublime, etc.) to open the '01\_aws\_rekog\_labels\_example\_py3.5.py' script, located in the 'code' directory.
- ii. In the **Paths** section, update the code with the paths to your results and data directories.
- iii. In the **Connect to AWS Rekognition API** section, update the code with the path to your AWS access keys.
- iv. Save the python script.
- v. Open a bash terminal.
- vi. Navigate to your 'auto\_tagger\_example/code' directory by using the command 'ls' (which **lists** the available files in your current location) and 'cd' which moves you to a new directory (**c**hange **d**irectory). Then navigate to the code directory In my bash terminal, this looks like the following, where the \$ indicates that I've entered a command:

```
$ cd Desktop/auto_tagger_example/
$ ls
code/ data/ keys/ notebooks/ results/
$ cd code/
$ ls
01_aws_rekog_labels_example_py3.5.py
02 aws rekog celeb example py3.5.py
```

vii. Run the python script by typing

```
$ python 01_aws_rekog_labels_example_py3.5.py
```

then hit enter.

- viii. If all goes well, you should see labels pop up in your terminal (it may take a few minutes), and there will be a new 'awsrekognition detect labels.csv' file in your 'results' directory.
- ix. Common errors: Make sure you are in a python 3.5+ environment; make sure that your paths are correct; make sure that your have boto3 installed.

5.	Follow the same steps to run the AWS celebrity recognition tagger (notebook and s 02).