

## Environmental Audio Classification | annotate\_birdsong.py user guide

In anaconda command line tool:

```
D:\gatech\4271\test>conda create -n eac
Collecting package metadata (current_repodata.json): done
Solving environment: done

==> WARNING: A newer version of conda exists. <==
  current version: 4.7.12
  latest version: 4.8.3

Please update conda by running

    $ conda update -n base -c defaults conda

## Package Plan ##

  environment location: C:\Dev\Anaconda\envs\eac

Proceed ([y]/n)? y
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#     $ conda activate eac
#
# To deactivate an active environment, use
#
#     $ conda deactivate

D:\gatech\4271\test>conda activate eac

(eac) D:\gatech\4271\test>conda install -n numpy scikit-learn joblib

EnvironmentLocationNotFound: Not a conda environment: C:\Dev\Anaconda\envs\numpy

(eac) D:\gatech\4271\test>conda install -n eac numpy scikit-learn joblib
Collecting package metadata (current_repodata.json): done
Solving environment: done
```

Create conda env -> conda create -n eac

Activate conda env -> conda activate eac

```
(eac) D:\gatech\4271\test>conda install -n eac numpy scikit-learn joblib
Collecting package metadata (current_repodata.json): done
Solving environment: done

==> WARNING: A newer version of conda exists. <==
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## Package Plan ##

  environment location: C:\Dev\Anaconda\envs\eac

added / updated specs:
- joblib
- numpy
- scikit-learn
```

Install dependencies -> conda install numpy scikit-learn joblib numba

\*numba is outdated in the librosa build so it should be installed manually here (04.19.2020)

```
(eac) D:\gatech\4271\test>pip install librosa
Collecting librosa
  Downloading librosa-0.7.2.tar.gz (1.6 MB)
    | 1.6 MB 3.3 MB/s
Collecting audioread>=2.0.0
```

Install dependencies -> pip install librosa

```
(eac) D:\gatech\4271\test\4271-EAC-master>python annotate_birdsong.py -rp data -wp output 5E63D9CF
(eac) D:\gatech\4271\test\4271-EAC-master>cd output
(eac) D:\gatech\4271\test\4271-EAC-master\output>dir
Volume in drive D is Data
Volume Serial Number is 4620-755E

Directory of D:\gatech\4271\test\4271-EAC-master\output

04/19/2020  09:32 AM    <DIR>          .
04/19/2020  09:32 AM    <DIR>          ..
04/19/2020  09:32 AM                129 5E63D9CF.txt
               1 File(s)                129 bytes
               2 Dir(s)  912,552,058,880 bytes free
```

Run -> python annotate\_birdsong.py -rp data -wp output 5E63D9CF

```
(eac) D:\gatech\4271\test\4271-EAC-master\output>type 5E63D9CF.txt
2000 10999
13000 13999
17000 17999
20000 23999
26000 30999
32000 35999
37000 37999
41000 42999
44000 46999
58000 58999
```

Annotations