Libreboard instance
Static instance

- Scripts
- Presentations
Birdcall recognition with self organizing maps

Import data from files

```python
In [10]:
from IPython.display import HTML
import matplotlib.pyplot as plt
import numpy as np
import matplotlib.cm as cm
import matplotlib.pyplot as plt
import sklearn.cross_validation as scross
from sklearn.feature_extraction import DictVectorizer
from scipy.io import wavfile
import wave

#matplotlib inline
%matplotlib inline

# Populating the interactive namespace from numpy and matplotlib
```

Data structure

```python
In [11]:
data = {
    'src_dir': 'kaggleFiles/misp_contest_dataset/essential_data/
    'wav_dir': data['src_dir'] + 'wav_reencoded/src/
    'species_list': data['src_dir'] + 'species_list.txt
    'rec_id_filename': data['src_dir'] + 'rec_id_filename.txt
    'labels': data['src_dir'] + 'rec_labels.txt_hidden.txt
    'folds': data['src_dir'] + 'cv_folds_2.txt
```

Function that takes a wav file in argument and display a HTML player.

```python
In [12]:
def wavPlayer(filepath):
    *** will display html 5 player for compatible browser

Parameters:

- filepath : relative filepath with respect to the notebook directory (where the .ipynb file is not saved)
- file to play

The browser need to know how to play wav through html5.
- no autoplay to prevent file playing when the browser opens
```
Synology Cloud Client
Docker
Thank you