rtd test

Release 0.0.1

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The Computational Music and Sound Archiving system provides high-level audio feature extraction facilities for multi-viewpoint music similarity analysis.

Music similarity is hard to analyse. A viewpoint highlights certain aspects of musical perception. Asking for similarity regarding pitch requires another viewpoint than asking for rhythm similarity.

COMSAR combines pre-selected low-level audio features to *Track* objects, which represent a viewpoint.

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ONE

INSTALLATION

1.1 Installation from PyPi

comsar is available on PyPi. Simply run the following command in your favorite terminal emulator:

pip install comsar

1.2 Installation from source

Installation from source is done in two steps:

• If you do not have git installed, simply navigate to the source code repository, click on the green "Code" button and then select "Download ZIP". Otherwise, clone the source code with git:

```
git clone https://github.com/ifsm/comsar
```

• Once the code is downloaded, change to the comsar root directory and advise Python to install the pacakge:

```
cd path/to/comsar
python3 -m pip install .
```

TWO

BASIC USAGE

In order to compute audio features regarding a certain track, you just have to create an instance of your desired track object and then call its extract() method with the path to an audio file. Consider the following example:

```
from comsar.tracks import TimbreTrack

tt = TimbreTrack()
res = tt.extract('path/to/my_audio.wav')
res.to_pickle('my_features.pkl')
```

The first line imports the desired Track object, in this case a TimbreTrack. The third line creates a TimbreTrack instance with the name tt. The fourth line calls the extract method of tt and passes it the path to an actual audio file. comsar then processes the audio file and makes the results available under the name res. The fifths line eventually saves the results to disc.

THREE

TRACK SYTEM

- 3.1 PitchTrack
- 3.2 RhythmTrack
- 3.3 TimbreTrack

class rtd.xxx.MySuperClass(herb)

3.4 FormTrack

Implementation of the FormTrack is planed.

FOUR

OPEN SOURCE

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