

model

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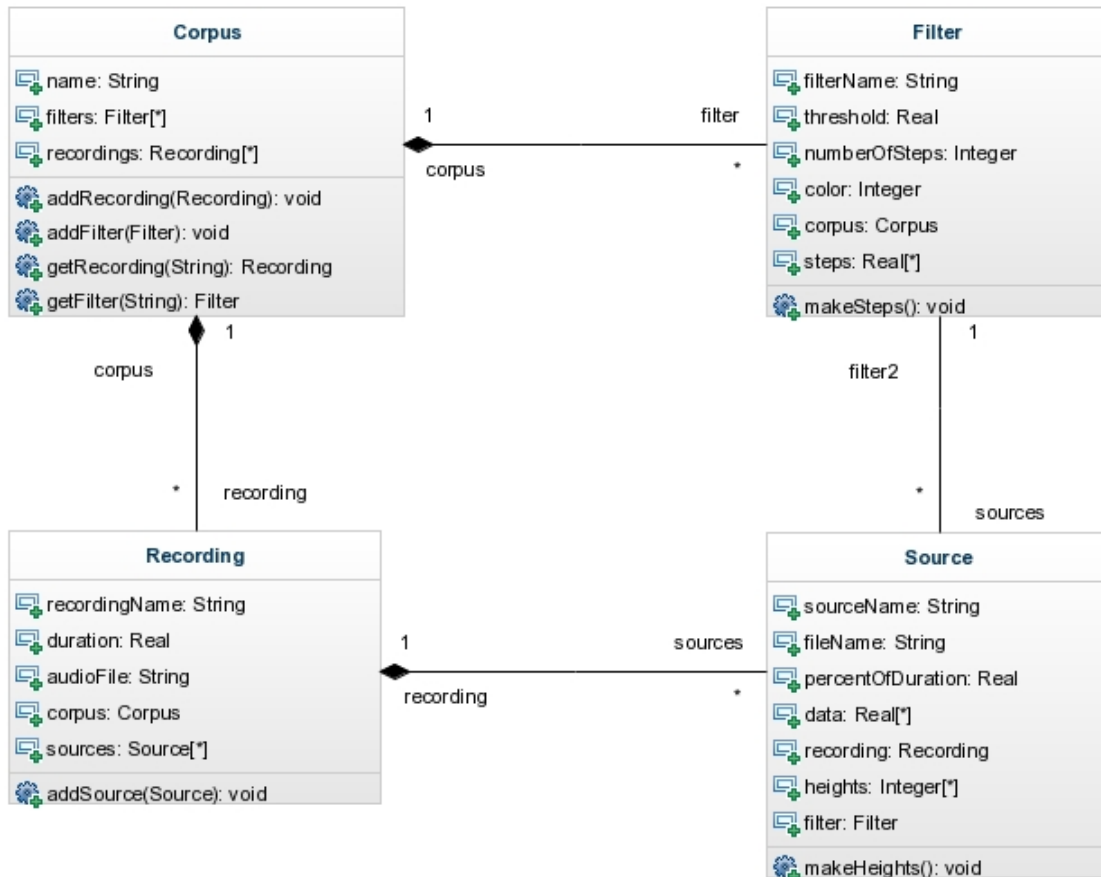
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1. Overview

1.1 Model Description

1.2 Diagrams



2 Classifiers

2.1 Class Corpus

2.1.1 Attributes

- **name** : String [1]
- **filters** : Filter [*]
- **recordings** : Recording [*]

2.1.2 Generalizations

None

2.1.3 Operations

- Void **addRecording** (parameter : Recording)
- Void **addFilter** (parameter : Filter)
- Recording **getRecording** (parameter : String)
- Filter **getFilter** (parameter : String)

2.1.4 Associations

- **filter** : Filter [*]
- **recording** : Recording [*]

2.2 Class Filter

A filter is an object that can be applied to a type of sound source, and specially to the data, to determine the relevant informations to plot.

2.2.1 Attributes

- **filterName** : String [1]

- **threshold** : Real [1]

- **numberOfSteps** : Integer [1]

Description: Number of steps to be plot between the thresold and 1.

- **color** : Integer [1]

Description: Hue of hsl color

- **corpus** : Corpus [1]

- **steps** : Real [*]

Description: Steps between the threshold and 1.

For example :

threshold = 0.1

numberOfSteps = 3

steps = [0.1, 0.4, 0.7]

2.2.2 Generalizations

None

2.2.3 Operations

- Void **makeSteps** ()

2.2.4 Associations

- **corpus** : Corpus [1]

- **sources** : Source [*]

2.3 Class Recording

2.3.1 Attributes

- **recordingName** : String [1]

- **duration** : Real [1]

Description: Duration in seconds.

- **audioFile** : String [1]

Description: Name of the audio file that can be played.

- **corpus** : Corpus [1]

- **sources** : Source [*]

2.3.2 Generalizations

None

2.3.3 Operations

- Void **addSource** (parameter : Source)

2.3.4 Associations

- **corpus** : Corpus [1]

- **sources** : Source [*]

2.4 Class Source

A sound source that compose recordings. For example "motors", or "car horn".

2.4.1 Attributes

- **sourceName** : String [1]

- **fileName** : String [1]

- **percentOfDuration** : Real [1]

Description: Percentage of duration of a sound source (above a certain threshold) in a recording.

- **data** : Real [*]

Description: The temporal data of a sound source. An array of values between 0 and 1.

- **recording** : Recording [1]

- **heights** : Integer [*]

Description: An height correspond to a percent of duration of the data between two steps. The height is also the height to plot in a TM-chart.

- **filter** : Filter [1]

2.4.2 Generalizations

None

2.4.3 Operations

- Void **makeHeights** ()

2.4.4 Associations

- **recording** : Recording [1]

- **filter2** : Filter [1]