Package 'bioacoustica'

November 11, 2016

Type Package		
Title Provides access to the BioAcoustica platform through R		
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Version 2.0		
Date 2016-10-25		
Description this package was designed to interface bioacoustica (http://bio.acousti.ca/). In particular, it provides utilities to list and download available annotations. In addition, it allows users to programatically upload their data.		
License GPL (>=3.0)		
Depends R (>= 2.15.0), MASS, data.table, RCurl, xml2, tuneR		
yLoad TRUE ate 'get_annotations.R' 'utils.R'		
	URL https://github.com/BioAcoustica/bioacousticaR	
RoxygenNote 5.0.1	nNote 5.0.1	
Suggests testthat, devtools		
R topics documented:		
dowloadFilesForAnnotations		
dowloadFilesForAnnotations Retreive list of annotation files from a query		

Description

This function uses a formated query (i.e. table) to retreive annotation raw data

2 getAllAnnotationData

Usage

```
dowloadFilesForAnnotations(query, dst_dir, prefix = "annotation", force = F,
    ...)
```

Arguments

```
query a data.table or data.frame (see details)

dst_dir a directory to store the resulting data

prefix a string to prepend to filenames

force whether to downoad and overwrite pre-existing file

... extra argument passed to link{getAnnotationFile}
```

Details

query must contain the columns id, start, end, file. They indicate, the annotation uid, the start and end of the wav file, and the url of the wav file, respactively. Typically, it will be obtained through getAllAnnotationData.

Value

an inflated query with a extra columns mapping the path of the saved audio files

See Also

```
getAllAnnotationData
```

Examples

Description

Download the information corresponding to all available annotaions on bioacoustica

Usage

```
getAllAnnotationData(path = "/R/annotations")
```

getAnnotationFile 3

Arguments

path the view containing the annotations

Value

a data.table. The column id refers to the unique identifier of an annotation. start and end identify the section of this annotation and file maps the URL of the raw audio file. Other annotation data are available as extra columns.

getAnnotationFile

Fetch a portion of a remote wav file

Description

This function can download only a portion of a wave file stored online and store it locally as a new wave file. It proceeds by dowloading metadata, uses them to locate the file chunk and reconstitute a file

Usage

```
getAnnotationFile(file, start, end, dst, force = F, first_chunk = 1024,
  verbose = F)
```

Arguments

file	the URL of a file

start the start of the desired section, in second end the end of the desired section, in second

dst a character vector indicating where to save the resulting file

force whether to downoad and overwrite pre-existing file

first_chunk the number of bytes downloaded at first in order to identify the file

verbose weher to print extra information

Value

the path to resulting file

See Also

dowloadFilesForAnnotations, a wrapper around this function