

# Package ‘pumilioR’

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**Title** Pumilio in R

**Version** 1.3

**Date** 2014-04-14

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**Description** R package to query and get data out of a Pumilio sound archive system (<http://ljvillanueva.github.io/pumilio/>).

**Depends** R(>= 2.14.0), XML, RCurl

**Suggests** knitr

**License** GPL-3

**URL** <http://ljvillanueva.github.io/pumilioR/>

**BugReports** <https://github.com/ljvillanueva/pumilioR/issues>

**VignetteBuilder** knitr

**NeedsCompilation** no

**Repository** CRAN

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## R topics documented:

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checkVersion

*Get Pumilio Version*

---

**Description**

Function to find if the version of the Pumilio system can work with this package. Version 2.6.0, or newer, of Pumilio is required and if the system allows querying.

**Usage**

```
checkVersion(pumilio_URL, credentials = NA, pumiliologin = NA)
```

**Arguments**

|              |  |
|--------------|--|
| pumilio_URL  | URL of the Pumilio installation, with trailing slash. For example: "http://server.com/pumilio/"                |
| credentials  | username and password, separated with a colon, for websites that require basic Apache webserver authentication |
| pumiliologin | username and password, separated with a colon, for Pumilio systems that require a valid user                   |

**Value**

Returns a boolean if the Pumilio version matches the requirement.

**Examples**

```
access <- checkVersion(pumilio_URL = "http://pumilio.coquipr.com/pumilio/")  
access
```

---

getCollections*Get Collections from Pumilio*

---

**Description**

Function to get the collections with sounds from Pumilio.

**Usage**

```
getCollections(pumilio_URL, credentials = NA, pumiliologin = NA)
```

**Arguments**

|              |  |
|--------------|--|
| pumilio_URL  | URL of the Pumilio installation, with trailing slash. For example: "http://server.com/pumilio/"                |
| credentials  | username and password, separated with a colon, for websites that require basic Apache webserver authentication |
| pumiliologin | username and password, separated with a colon, for Pumilio systems that require a valid user                   |

**Value**

Returns a data frame with the collections data.

|                        |  |
|------------------------|--|
| ColID                  | ID of the collection                         |
| CollectionName         | name of the collection                       |
| Author                 | author of the collection                     |
| FilesSource            | source of the collection                     |
| CollectionFullCitation | full citation to use for this collection     |
| URL                    | web page for more details of this collection |
| notes                  | notes of the collection                      |

**Examples**

```
## Not run:
cols <- getCollections(pumilio_URL = "http://pumilio.coquipr.com/pumilio/")
cols[1,]

## End(Not run)
```

---

|         |   |
|---------|---|
| getFile | <i>Download a sound file from Pumilio</i> |
|---------|---|

---

**Description**

Function to download one sound file, specified with SoundID, to the working directory from the result of a query using getSounds.

**Usage**

```
getFile(result, SoundID = NA, credentials = NA)
```

**Arguments**

|             |  |
|-------------|--|
| result      | the result of the function getSounds   |
| SoundID     | ID of a valid record, obtained using getSounds   |
| credentials | username and password, separated with a colon, for websites that require basic Apache webserver authentication |

**Value**

Returns the filename.

**Note**

To use this function, the curl library needs to be installed. In Linux install libcurl-devel.

For Windows, add this line to the script before calling the getFile function:

```
setInternet2(TRUE)
```

**Examples**

```
## Not run:
#First, get a list of results
results <- getSounds(pumilio_URL = "http://pumilio.coquipr.com/pumilio/",
  SiteID = 111, type = "site")

#Then, get the file from the first row, identified with the SoundID = 4078
getFile(results, SoundID = 4078)

#For Windows, when credentials are needed:
#First, get a list of results
results <- getSounds(pumilio_URL = "http://pumilio.coquipr.com/pumilio2/",
  SiteID = 111, type = "site", credentials = "pumilio:pumilio")

setInternet2(TRUE)
getFile(results, SoundID = 4078, credentials = "pumilio:pumilio")
## End(Not run)
```

---

getSites

*Get Sites from Pumilio*

---

**Description**

Function to get the sites with sounds from Pumilio.

**Usage**

```
getSites(pumilio_URL, credentials = NA, pumiliologin = NA)
```

**Arguments**

|              |  |
|--------------|--|
| pumilio_URL  | URL of the Pumilio installation, with trailing slash. For example: "http://server.com/pumilio/"                |
| credentials  | username and password, separated with a colon, for websites that require basic Apache webserver authentication |
| pumiliologin | username and password, separated with a colon, for Pumilio systems that require a valid user                   |

**Value**

Returns a data frame with the sites data.

|           |  |
|-----------|--|
| SiteID    | ID of the site                                   |
| SiteName  | name of the site                                 |
| latitude  | latitude of the site, in decimal degrees         |
| longitude | longitude of the site, in decimal degrees        |
| elevation | elevation of the site, in meters above sea level |
| notes     | notes of the site                                |

**Examples**

```
## Not run:
sites <- getSites(pumilio_URL = "http://pumilio.coquipr.com/pumilio/")
sites[1,]

## End(Not run)
```

---

getSounds

*Get Sounds from Pumilio*


---

**Description**

Function to get the data from sounds that match the search query.

**Usage**

```
getSounds(pumilio_URL, SiteID=NA, ColID=NA, type="all",
credentials = NA, pumiliologin = NA)
```

**Arguments**

|              |   |
|--------------|---|
| pumilio_URL  | URL of the Pumilio installation, with trailing slash. For example: "http://server.com/pumilio/"   |
| SiteID       | ID of a valid site, obtained using getSites   |
| ColID        | ID of a valid collection, obtained using getCollections   |
| type         | type of query to run: "all" to get all sounds in the archive; "site" for the site specified with SiteID; "col" for the collection specified with ColID; "both" for sounds that match both the site specified with SiteID and the collection specified with ColID. |
| credentials  | username and password, separated with a colon, for websites that require basic Apache webserver authentication  |
| pumiliologin | username and password, separated with a colon, for Pumilio systems that require a valid user  |

**Value**

Returns a data frame with the sound data.

|                      |   |
|----------------------|---|
| SoundID              | ID of the soundfile in the database                                       |
| ColID                | ID of the collection in which this file is archived in                    |
| SiteID               | ID of the site where this sound was recorded                              |
| OriginalFilename     | filename of the soundfile   |
| SoundName            | filename of the soundfile, usually OriginalFilename without the extension |
| day                  | day part of the date when it was recorded                                 |
| month                | month part of the date when it was recorded                               |
| year                 | year part of the date when it was recorded                                |
| hour                 | hour part of the date when it was recorded                                |
| minutes              | minutes part of the date when it was recorded                             |
| seconds              | seconds part of the date when it was recorded                             |
| SamplingRate         | sampling rate used to record the soundfile, in Hz                         |
| BitRate              | bitrate of the file, in bits  |
| Channels             | number of channels  |
| Duration             | duration of the soundfile, in seconds                                     |
| SoundFormat          | format of the file  |
| SensorID             | ID of the sensor used to record the soundfile                             |
| Notes                | notes of the soundfile  |
| timestamp            | date and time stamp when the soundfile was added to the archive           |
| FileSize             | file size of the soundfile, in bytes                                      |
| FilePath             | URL of the soundfile  |
| AudioPreviewFormat   | format of the preview file, usually mp3                                   |
| AudioPreviewFilename | filename of the preview file  |
| AudioPreviewFilePath | URL of the preview file   |

**Examples**

```
## Not run:
sounds <- getSounds(pumilio_URL="http://pumilio.coquipr.com/pumilio/",
  SiteID=111, type="site")
sounds[1,]

## End(Not run)
```

---

*pumilioR*

*pumilioR*

---

### **Description**

Functions to get data from a Pumilio sound archive system (<http://ljevillanueva.github.io/pumilio/>). Requires version 2.6.0, or newer, of Pumilio installed and XML turned on in the Admin menu.

### **Details**

Package: *pumilioR*  
Type: Package  
Version: 1.3  
Date: 2014-04-14  
License: GPLv3

### **Author(s)**

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