# Package 'BrownDog'

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Type Package

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Title Brown Dog R Interface

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Description  An R interface for the Brown Dog which allows researchers to leverage Brown Dog Services that provides modules to identify the conversion options for a file, to convert file to appropriate format, or to extract data from a file. See <a href="http://browndog.ncsa.illinois.edu/">http://browndog.ncsa.illinois.edu/</a> for more information.
Imports RCurl, jsonlite, httpuv, utils
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## **Description**

Convert a file using Brown Dog Conversion service

#### Usage

```
convert_file(url, input_file, output, output_path, token, wait = 60,
  download = TRUE)
```

#### **Arguments**

token Brown Dog access token

wait The amount of time to wait for the DAP service to respond. Default is 60

download The flag to download the result file. Default is true

#### Value

The output filename

#### **Examples**

```
## Not run:
key <- get_key("https://bd-api-dev.ncsa.illinois.edu", "your email", "password")
token <- get_token("https://bd-api-dev.ncsa.illinois.edu", key)
convert_file("https://bd-api-dev.ncsa.illinois.edu",
"http://browndog.ncsa.illinois.edu/examples/gi/Dongying_sample.csv", "xlsx", "/",
token)
## End(Not run)</pre>
```

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down	Inad

Download file from browndog

### Description

This will download a file, if a 404 is returned it will wait until the file is available. If the file is still not available after timeout tries, it will return NA. If the file is downloaded it will return the name of the file

#### Usage

```
download(url, file, token, timeout = 60)
```

#### **Arguments**

url the url of the file to download

file the filename

token Brown Dog access token

timeout number of seconds to wait for file (default 60)

#### Value

the name of file if successfull or NA if not.

#### **Examples**

```
## Not run:
key <- get_key("https://bd-api-dev.ncsa.illinois.edu", "your email", "password")
token <- get_token("https://bd-api-dev.ncsa.illinois.edu", key)
download("https://bd-api-dev.ncsa.illinois.edu", "vdc.csv", token)
## End(Not run)</pre>
```

extract\_file

Extract file

## Description

Extract content-based metadata from the given input file's content using Brown Dog extraction service

### Usage

```
extract_file(url, file, token, wait = 60)
```

get\_key

#### **Arguments**

url The URL to the Brown Dog server to use.

file The input file could be URL or file with the path

token Brown Dog access token

wait The amount of time to wait for the DTS to respond. Default is 60 seconds

#### Value

The extracted metadata in JSON format

#### **Examples**

```
## Not run:
key <- get_key("https://bd-api-dev.ncsa.illinois.edu", "your email", "password")
token <- get_token("https://bd-api-dev.ncsa.illinois.edu", key)
extract_file("https://bd-api-dev.ncsa.illinois.edu",
"http://browndog.ncsa.illinois.edu/examples/gi/Dongying_sample.csv", token)
## End(Not run)</pre>
```

get\_key

Get Key

## Description

Get a key from the BD API gateway to access BD services

#### **Usage**

```
get_key(url, username, password)
```

## Arguments

url URL of the BD API gateway
username user name for BrownDog
password password for BrownDog

## Value

BD API key

#### **Examples**

```
## Not run:
get_key("https://bd-api-dev.ncsa.illinois.edu", "your email", "password")
## End(Not run)
```

get\_output\_formats 5

#### **Description**

Check Brown Dog Service for available output formats for the given input format.

#### **Usage**

```
get_output_formats(url, inputformat, token)
```

#### **Arguments**

url The URL to the Brown Dog server to use.

inputformat The format of the input file.
token Brown Dog access token

#### Value

: A string array of reachable output format extensions.

#### **Examples**

```
## Not run:
key <- get_key("https://bd-api-dev.ncsa.illinois.edu", "your email", "password")
token <- get_token("https://bd-api-dev.ncsa.illinois.edu", key)
get_output_formats("https://bd-api-dev.ncsa.illinois.edu", "csv",
token)
## End(Not run)</pre>
```

get\_token

Get Token

## Description

Get a Token from the BD API gateway to access BD services

#### Usage

```
get_token(url, key)
```

## Arguments

url URL of the BD API gateway key permanet key for BD API get\_token

## Value

BD API Token

## Examples

```
## Not run:
key <- get_key("https://bd-api-dev.ncsa.illinois.edu", "your email", "password")
get_token("https://bd-api-dev.ncsa.illinois.edu", key)
## End(Not run)</pre>
```

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