

Package ‘rgeoapi’

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Type Package

Title Get Information from the GeoAPI

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Author Colin FAY

Maintainer Colin FAY <contact@colinfay.me>

Description Provides access to information from
<<https://api.gouv.fr/explorer/geoapi/>> about French
``Communes'', ``Departements'' and ``Regions''.

License GPL-3

LazyData TRUE

Imports htr, rjson, magrittr, tools

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NeedsCompilation no

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ComByCode	<i>Get City by INSEE Code</i>
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Description

Get informations about a French city by its INSEE code. Please note that this package works only with French cities.

Usage

```
ComByCode(codeInsee, postal = FALSE)
```

Arguments

codeInsee	numeric vector with an INSEE code.
postal	wether or not to include postal codes. Default is FALSE.

Details

Takes an INSEE Code, returns a data.frame with the available values.

Value

Returns a data.frame with names, INSEE code, postal code, INSEE department code, INSEE region code, population (approx), surface (in hectares), lat and long (WGS-84).

Note

If you don't know the INSEE code of the city you're looking for, you can find it by using the [ComByName](#) function.

Examples

```
ComByCode(codeInsee = 29019)
ComByCode(codeInsee = 31555, postal = TRUE)
ComByCode(codeInsee = ComByName("Rennes")[1, "codeInsee"])
```

ComByCoord	<i>Get City by Coordinates</i>
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Description

Get informations about a French city by its Coordinates (WGS-84). Please note that this package works only with French cities.

Usage

```
ComByCoord(lat, lon, postal = FALSE)
```

Arguments

lat	a character string with latitude (WGS-84)
lon	a character string with longitude (WGS-84)
postal	wether or not to include postal codes. Default is FALSE.

Details

Takes the latitude and longitude of a city, returns a data.frame with the available values.

Value

Returns a data.frame with name, INSEE code, postal code, INSEE department code, INSEE region code, population (approx), surface (in hectares), lat and long (WGS-84).

Note

If you don't know the coordinates of the city you're looking for, you can find it by using the [ComByName](#) function.

Examples

```
ComByCoord(lat = "48.11023", lon = "-1.678872")  
ComByCoord(lat = "48.74313", lon = "-3.460337", postal = TRUE)
```

ComByDep

Get Cities by Department

Description

Get informations about all the cities in a French department by its INSEE Code. Please note that this package works only with French cities.

Usage

```
ComByDep(codeDepartement, postal = FALSE)
```

Arguments

`codeDepartement` a numeric vector with a department INSEE Code.

`postal` wether or not to include postal codes. Default is FALSE.

Details

Takes a department INSEE Code, returns a data.frame with the available values.

Value

Returns a data.frame with names of the cities, INSEE codes, postal codes, INSEE department codes, INSEE region codes, population of the cities (approx), surface of the cities (in hectares), lat and long of the cities (WGS-84).

Note

If you don't know the INSEE code of the department you're looking for, you can find it by using the [DepByName](#) function.

Examples

```
ComByDep(codeDepartement = 35)
ComByDep(codeDepartement = 29, postal = TRUE)
```

`ComByName`*Get City by Name*

Description

Get informations about a French city by its name (partial matches possible). Please note that this package works only with French cities.

Usage

```
ComByName(nom, boost = FALSE, postal = FALSE)
```

Arguments

<code>nom</code>	a character string with the name of the city, in full ASCII character.
<code>boost</code>	a TRUE or FALSE. Default is FALSE. If TRUE, typographic pertinence score will be weighted by population.
<code>postal</code>	wether or not to include postal codes. Default is FALSE.

Details

Takes a the name of a French city, returns a data.frame with the available values. Partial matches are possible. In that case, typographic pertinence scores are given, and can be weighted by population with the "boost" argument.

Value

Returns a data.frame with name(s), INSEE code(s), postal code(s), INSEE department code(s), INSEE region code(s), population (approx), surface(s) (in hectares), lat and long (WGS-84).

Examples

```
ComByName(nom = "Brest")  
ComByName(nom = "Rennes", boost = TRUE)  
ComByName(nom = "Lo", postal = TRUE)
```

`ComByPostal`*Get City by Postal Code*

Description

Get informations about a French city by its INSEE Code. Please note that this package works only with French cities.

Usage

```
ComByPostal(codePostal)
```

Arguments

`codePostal` a numeric vector with a postal code.

Details

Takes a postal code, returns a data.frame with the available values.

Value

Returns a data.frame with name, INSEE code, postal code, INSEE department code, INSEE region code, population (approx), surface (in hectares), lat and long (WGS-84).

Note

If you don't know the postal code of the city you're looking for, you can find it by using the [ComByName](#) function.

Examples

```
ComByPostal(codePostal = 29000)
```

ComByReg

Get Cities by Region

Description

Get informations about all the cities in a French region by its INSEE code. Please note that this package works only with French cities.

Usage

```
ComByReg(codeRegion, postal = FALSE)
```

Arguments

`codeRegion` a numeric vector with a region INSEE code.
`postal` whether or not to include postal codes. Default is FALSE.

Details

Takes a region INSEE ode, returns a data.frame with the available values.

Value

Returns a data.frame with names of the cities, INSEE codes, postal codes, INSEE department codes, INSEE region codes, population of the cities (approx), surface of the cities (in hectares), lat and long (WGS-84).

Note

If you don't know the INSEE code of the region you're looking for, you can find it by using the [RegByName](#) function.

Examples

```
ComByReg(codeRegion = 53)
```

DepByCode

Get Department by INSEE Code

Description

Get informations about a French Department by its INSEE Code. Please note that this package works only with French Department.

Usage

```
DepByCode(codeDepartement)
```

Arguments

codeDepartement
a numeric vector with an INSEE Code.

Details

Takes an INSEE Code, returns a data.frame with the available values.

Value

Returns a data.frame with name, INSEE code, and region code of the department.

Note

If you don't know the INSEE code of the department you're looking for, you can find it by using the [DepByName](#) function.

Examples

```
DepByCode(codeDepartement = 35)
```

`DepByName`*Get Department by Name*

Description

Get informations about a French Department by its name. Please note that this package works only with French Department.

Usage

```
DepByName(nom)
```

Arguments

`nom` a character string with the name of the department.

Details

Takes a department INSEE code, returns a data.frame with the available values. Partial matches are possible. In that case, typographic pertinence scores are given.

Value

Returns a data.frame with name, INSEE code, and region code of the department.

Examples

```
DepByName(nom = "Ille-et-Vilaine")  
DepByName(nom = "mo")
```

`DepByReg`*Get Departments by Region*

Description

Get informations about all the departments in a French region by its INSEE code. Please note that this package works only with French departments.

Usage

```
DepByReg(codeRegion)
```

Arguments

`codeRegion` a numeric vector with an INSEE code.

Details

Takes a region INSEE code, returns a data.frame with the available values.

Value

Returns a data.frame with departments names, INSEE codes, and region codes of the departments.

Note

If you don't know the INSEE code of the region you're looking for, you can find it by using the [RegByName](#) function.

Examples

```
DepByReg(codeRegion = 53)
```

RegByCode

Get Region by INSEE Code

Description

Get informations about a French region by its INSEE code. Please note that this package works only with French regions.

Usage

```
RegByCode(codeRegion)
```

Arguments

`codeRegion` a numeric vector with an INSEE code.

Details

Takes an INSEE code, returns a data.frame with the available values.

Value

Returns a data.frame with name and region code of the region.

Examples

```
RegByCode(codeRegion = 53)
```

`RegByName`*Get Region by Name*

Description

Get informations about a French region by its name. Please note that this package works only with French regions.

Usage

```
RegByName(nom)
```

Arguments

`nom` a character string with the name of the department. Partial matches are possible. In that case, typographic pertinence scores are given.

Details

Takes a name, returns a data.frame with the available values.

Value

Returns a data.frame with name, INSEE code, and typographic pertinence score for the request.

Examples

```
RegByName(nom = "Bretagne")  
RegByName(nom = "M")
```

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