

# Package ‘geotools’

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## **Suggests**

**Title** Geo tools

**Author** Antoine Lucas

**Maintainer** Antoine Lucas <antoinelucas@gmail.com>

**Description** Tools

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codesNearToCode	<i>Getting city near to others</i>
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## **Description**

codesNearToCode() returns a list of zip code near to specified zip code  
cityNearToCode() returns a list of city name near to specified zip code  
city() returns a list of city name that have a zip code

**Usage**

```
codesNearToCode(code, kms)
cityNearToCode(code, kms)
zipCode(city)
cities(code)
```

**Arguments**

code	A postal code i.e. 75000 for Paris
kms	Integer, number of kilometer.
city	The name of a city i.e. "Paris". Name is in ascii only; i.e. no accent for "Bezier"

**Author(s)**

Antoine Lucas

**Examples**

```
## get "Paris"
cities(75000)

## inverse: get 75000: postal code for Paris
zipCode("Paris")

## all postal code at 7 kms from Paris
codesNearToCode(75000,7)

## idem, with city name
cityNearToCode(75000,7)
```

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distKm	<i>Get distance between two position with coordinate in latitude, longitude</i>
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**Description**

distKm() returns distance in kilometer with latitude and longitude in degree  
distKmRad() returns distance in kilometer with latitude and longitude in radian  
degToRad() conversion degree to radian

**Usage**

```
distKm(lat0, lon0, lat1, lon1)

distKmRad(lat0, lon0, lat1, lon1)
degToRad(val)
```

**Arguments**

lat0, lon0      latitude, longitude of first point  
lat1, lon1      latitude, longitude of second point  
val              Value, in degree.

**Author(s)**

Antoine Lucas

**Examples**

```
degToRad(180)
```

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fr_geo_deg	<i>Dataset french zip code</i>
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**Description**

French dataset for zip code (postal code).

Data set, from French postal data can be retrieve here: <http://www.galichon.com/codesgeo/>.

Other data are here, [http://earth-info.nga.mil/gns/html/cntry\\_files.html](http://earth-info.nga.mil/gns/html/cntry_files.html).

**Usage**

```
data(fr_geo_deg)  
data(fr_geo_rad)
```

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