

# Package: geotools (via r-universe)

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**Description** Tools  
**License** GPL  
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**Repository** <https://antoinelucas64.r-universe.dev>  
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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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