

# Package ‘geomaroc’

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**Title** Easily Visualize Geographic Data of Morocco

**Version** 0.1.1

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**Description** Tools to easily visualize geographic data of Morocco.

This package interacts with data available through the 'geomarocdata' package, which is available in a 'drat' repository. The size of the 'geomarocdata' package is approximately 12 MB.

**License** GPL

**Imports** jsonlite , sf

**Encoding** UTF-8

**URL** <https://github.com/AmineAndam04/R-geomaroc>

**RoxygenNote** 7.1.0

**Suggests** knitr, rmarkdown, testthat, geomarocdata

**Additional\_repositories** <https://amineandam04.github.io/drat/>

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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getDistrict	<i>Plot districts within a province</i>
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**Description**

Helps to plot the shape of districts within a province.

**Usage**

```
getDistrict(n_province = NULL, id = NULL)
```

**Arguments**

n_province	The name of the province to plot. The notation should be respected. To get the notation: provinces()
id	the id of the province. To get the id of each province provinces()

**Value**

return a sf object

**Examples**

```
## Not run:
#Use DISTRICT name
prov=getDistrict("Casablanca")
plot(prov$coordinates)
#Use id
prov=getDistrict(id=141)
plot(prov$coordinates)

## End(Not run)
```

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getMultiDistrict	<i>Plot districts of multiple provinces</i>
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**Description**

Helps to plot the shape of districts of multiple provinces.

**Usage**

```
getMultiDistrict(n_province = NULL, id = NULL)
```

**Arguments**

- n\_province      vector of The name of the province to plot. The notation should be respected.To get the notation: provinces()
- id                vector of provinces id.Each province has an id. To get the id of each province : provinces()

**Value**

return a sf object

**Examples**

```
## Not run:  
prov=getMultiDistrict(c("Tanger-Assilah", "Fahs-Anjra"))  
plot(prov$coordinates)  
prov=getMultiDistrict(id=c(227,511))  
plot(prov$coordinates)  
  
## End(Not run)
```

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getMultiProvince      *Plot multiple regions*

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**Description**

Helps to plot the shape of multiple regions.

**Usage**

```
getMultiProvince(n_region = NULL, id = NULL)
```

**Arguments**

- n\_region      vector of the name of the regions to plot. The notation should be respected.To get the notation execute: regions()
- id                vector of regions id.Each region has an id. To get the id of each region please execute : regions()

**Value**

return a sf object

**Examples**

```
## Not run:
# Plot two regions :Casablanca-Settat and Rabat-Sale-Kenitra
regions=getMultiProvince(c("Casablanca-Settat","Rabat-Sale-Kenitra"))
plot(regions$coordinates)
#Plot provinces of Oriental and Tanger-Tetouan-AL-Hoceima
regions=getMultiProvince(id=c(1,2))
plot(regions$coordinates)

## End(Not run)
```

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getMultiRegion	<i>Plot multiple regions</i>
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**Description**

Helps to plot the shape of multiple regions.

**Usage**

```
getMultiRegion(name = NULL, id = NULL)
```

**Arguments**

name	vector of the name of the regions to plot. The notation should be respected.To get the notation execute: regions()
id	vector of regions id.Each region has an id. To get the id of each region please execute : regions()

**Value**

return a sf object

**Examples**

```
## Not run:
#Plot two regions :Casablanca-Settat and Laayoune-Sakia-El-Hamra
regions=getMultiRegion(c("Eddakhla-Oued-Eddahab","Laayoune-Sakia-El-Hamra"))
plot(regions$coordinates)
#Plot the map of Morocco
mar=getMultiRegion(id=1:12)
plot(mar$coordinates)

## End(Not run)
```

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getPathRegion	<i>Internal function</i>
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**Description**

Internal function

**Usage**

```
getPathRegion(n_region = NULL, id = NULL)
```

**Arguments**

n_region	name
id	id of region

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getProvince	<i>Plot provinces within a region</i>
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**Description**

Helps to plot the shape of provinces within a region.

**Usage**

```
getProvince(n_region = NULL, id = NULL)
```

**Arguments**

n_region	The name of the region to plot. The notation should be respected. To get the notation : regions()
id	Each region has an id. To get the id of each region : regions()

**Value**

return a sf object

**Examples**

```
## Not run:  
#Use region name  
region=getProvince("Tanger-Tetouan-Al-Hoceima")  
plot(region$coordinates)  
#Use id  
region=getProvince(id=1) #Don't forget getRegion(id=1) not getRegion(1)  
plot(region$coordinates)  
  
## End(Not run)
```

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getRegion	<i>Plot regions</i>
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**Description**

plot the shape of each region

**Usage**

```
getRegion(name = NULL, id = NULL)
```

**Arguments**

name	The name of the region to plot. The notation should be respected. To get the notation execute: regions()
id	Each region has an id. To get the id of each region please execute : regions()

**Value**

return a sf object

**Examples**

```
## Not run:

region=getRegion("Tanger-Tetouan-Al-Hoceima") #Use region name
#plot(region$coordinates)
region=getRegion(id=1) # use id
plot(region$coordinates)

## End(Not run)
```

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provinces	<i>Notation : provinces</i>
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**Description**

Hepls to respect the notation and to get the id and the name of each province

**Usage**

```
provinces()
```

**Value**

return a dataframe

**Examples**

```
## Not run:  
province=provinces()  
province  
  
## End(Not run)
```

---

regions

*Notation : regions*

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**Description**

Helps to respect the notation and to get the id and the name of each region

**Usage**

```
regions()
```

**Value**

return a dataframe

**Examples**

```
## Not run:  
region=regions()  
region  
## End(Not run)
```

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