

# Package: bangladesh (via r-universe)

October 26, 2024

**Title** Provides Ready to Use Shapefiles for Geographical Map of Bangladesh

**Description** Usually, it is difficult to plot choropleth maps for Bangladesh in 'R'. The 'bangladesh' package provides ready-to-use shapefiles for different administrative regions of Bangladesh (e.g., Division, District, Upazila, and Union). This package helps users to draw thematic maps of administrative regions of Bangladesh easily as it comes with the 'sf' objects for the boundaries. It also provides functions allowing users to efficiently get specific area maps and center coordinates for regions. Users can also search for a specific area and calculate the centroids of those areas.

**Version** 1.0.0

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyDataCompression** gzip

**LazyData** true

**RoxygenNote** 7.1.1

**Depends** R (>= 3.5.0)

**Imports** tmap, sf

**Suggests** dplyr, ggplot2, knitr, rmarkdown, scales, viridis

**VignetteBuilder** knitr

**NeedsCompilation** no

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area_names	<i>Banlgadesh administrative levels names in English</i>
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### Description

A dataset containing Division, District, Upazila, and Union names

### Usage

area\_names

### Format

A data frame with 5160 rows and 4 variables:

**District** district (admin level 2) names

**Division** division (admin level 1) names

**Upazila** upazila (admin level 3) names

**Union** upazila (admin level 3) names

### Source

Bangladesh Bureau of Statistics

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bd_plot	<i>sample function for plotting map of different administrative levels</i>
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**Description**

uses tmap

**Usage**

```
bd_plot(level = "country", type = "static")
```

**Arguments**

level	Administrative level of bangladesh. Should be one of: "country", "division", "district", "upazila", "union"
type	Plotting mode: "static" or "interactive"

**Value**

Static or interactive plot for administrative levels

**Examples**

```
# Plot static map of district  
bd_plot(level = "district", type = "static")
```

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bd_search	<i>search for specific areas</i>
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**Description**

uses sf

**Usage**

```
bd_search(searchFor, level = "division", as.is = FALSE, coordinates = FALSE)
```

**Arguments**

searchFor	search keyword
level	administrative level of bangladesh. Should be one of: "country", "division", "district", "upazila", "union"
as.is	boolean, if TRUE, matches exact keyword as given
coordinates	boolean, if TRUE, returns centroids of searched areas (latitudes and longitudes)

**Value**

A data frame

**Examples**

```
bd_search("amtali", level = "union", as.is = TRUE, coordinates = TRUE)
```

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get_area_names	<i>get area names in English, available in the shapefiles</i>
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**Description**

get area names in English, available in the shapefiles

**Usage**

```
get_area_names()
```

**Value**

A data frame with area names in English

**Examples**

```
names <- get_area_names()
```

---

get_coordinates	<i>get centroids of administrative areas</i>
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**Description**

uses sf

**Usage**

```
get_coordinates(level = "division")
```

**Arguments**

level administrative level of bangladesh. Should be one of: "division", "district", "upazila", "union"

**Value**

A data frame containing latitudes and longitudes

**Examples**

```
get_coordinates(level = "division")
get_coordinates(level = "district")
```

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get_divisions	<i>get partial maps for divisions</i>
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**Description**

get partial maps for divisions

**Usage**

```
get_divisions(divisions, level = "division")
```

**Arguments**

divisions	character vector for division names. Can take multiple divisions.
level	administrative level of bangladesh. Should be one of: "division", "district", "upazila", "union"

**Value**

shapefile for given administrative level

**Examples**

```
get_divisions(divisions = "Sylhet", level = "upazila")
```

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get_map	<i>get shapefile for different administrative levels</i>
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**Description**

get shapefile for different administrative levels

**Usage**

```
get_map(level = "country")
```

**Arguments**

level	administrative level of bangladesh. Should be one of: "country", "division", "district", "upazila", "union"
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**Value**

shapefile for given administrative level

**Examples**

```
country <- get_map("country")
division <- get_map("division")
district <- get_map("district")
```

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map_country	<i>Banlgadesh administrative level 0 shapefile</i>
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**Description**

A shapefile containing level 0 administrative boundaries

**Usage**

```
map_country
```

**Format**

A shapefile with 3 variables:

**Country** country (admin level 0) name

**ADM0\_PCODE** admin level 0 codes

**geometry** MULTIPOLYGON for administrative areas

**Source**

Banlgadesh Bureau of Statistics

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map_district	<i>Banlgadesh administrative level 2 shapefile</i>
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**Description**

A shapefile containing level 2 administrative boundaries

**Usage**

```
map_district
```

**Format**

A shapefile with 7 variables:

**District** district (admin level 2) names

**ADM2\_PCODE** admin level 2 codes

**Division** division (admin level 1) names

**ADM1\_PCODE** admin level 1 codes

**Country** country (admin level 0) name

**ADM0\_PCODE** admin level 0 codes

**geometry** MULTIPOLYGON for administrative areas

**Source**

Bangladesh Bureau of Statistics

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map_division	<i>Banlgadesh administrative level 1 shapefile</i>
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**Description**

A shapefile containing level 1 administrative boundaries

**Usage**

map\_division

**Format**

A shapefile with 5 variables:

**Division** division (admin level 1) names

**ADM1\_PCODE** admin level 1 codes

**Country** country (admin level 0) name

**ADM0\_PCODE** admin level 0 codes

**geometry** MULTIPOLYGON for administrative areas

**Source**

Bangladesh Bureau of Statistics

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map\_union

*Banlgadesh administrative level 4 shapefile*

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### Description

A shapefile containing level 4 administrative boundaries

### Usage

map\_union

### Format

A shapefile with 11 variables:

**Union** upazilla (admin level 4) names

**ADM4\_PCODE** admin level 4 codes

**Upazila** upazilla (admin level 3) names

**ADM3\_PCODE** admin level 3 codes

**District** district (admin level 2) names

**ADM2\_PCODE** admin level 2 codes

**Division** division (admin level 1) names

**ADM1\_PCODE** admin level 1 codes

**Country** country (admin level 0) name

**ADM0\_PCODE** admin level 0 codes

**geometry** MULTIPOLYGON for administrative areas

### Source

Banlgadesh Bureau of Statistics

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map\_upazila

*Banlgadesh administrative level 3 shapefile*

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### Description

A shapefile containing level 3 administrative boundaries

### Usage

map\_upazila



**Format**

A shapefile with 9 variables:

**Upazila** upazilla (admin level 3) names  
**ADM3\_PCODE** admin level 3 codes  
**District** district (admin level 2) names  
**ADM2\_PCODE** admin level 2 codes  
**Division** division (admin level 1) names  
**ADM1\_PCODE** admin level 1 codes  
**Country** country (admin level 0) name  
**ADM0\_PCODE** admin level 0 codes  
**geometry** MULTIPOLYGON for administrative areas

**Source**

Bangladesh Bureau of Statistics

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pop\_district\_2011      *Banlgadesh population census-2011 data for district level*

---

**Description**

A dataset containing total population, population by age groups and gender for each districts (administrative level 2) in bangladesh

**Usage**

pop\_district\_2011

**Format**

A data frame with 64 rows and 25 variables:

**district** district (admin level 2) names  
**admin2Pcode** district codes  
**division** division (admin level 1) names  
**admin1Pcode** division codes  
**population** population in 2011  
**P00\_04** population in age group 0-4  
**P05\_09** population in age group 5-9  
**P10\_14** population in age group 10-14  
**P15\_19** population in age group 15-19

**P20\_24** population in age group 20-24  
**P25\_29** population in age group 25-29  
**P30\_34** population in age group 30-34  
**P35\_39** population in age group 35-39  
**P40\_44** population in age group 40-44  
**P45\_49** population in age group 45-49  
**P50\_54** population in age group 50-54  
**P55\_59** population in age group 55-59  
**P60\_64** population in age group 60-64  
**P65\_69** population in age group 65-69  
**P70\_74** population in age group 70-74  
**P75\_80** population in age group 75-80  
**P80plus** population in age group 80+  
**Child** child population  
**Male** male population  
**Female** female population

#### Source

Bangladesh Bureau of Statistics

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pop\_division\_2011      *Banlgadesh population census-2011 data for division level*

---

#### Description

A dataset containing total population, population by age groups and gender for each divisions (administrative level 1) in bangladesh

#### Usage

pop\_division\_2011

#### Format

A data frame with 64 rows and 23 variables:

**division** division (admin level 1) names  
**admin1Pcode** division codes  
**population** population in 2011  
**P00\_04** population in age group 0-4  
**P05\_09** population in age group 5-9

**P10\_14** population in age group 10-14  
**P15\_19** population in age group 15-19  
**P20\_24** population in age group 20-24  
**P25\_29** population in age group 25-29  
**P30\_34** population in age group 30-34  
**P35\_39** population in age group 35-39  
**P40\_44** population in age group 40-44  
**P45\_49** population in age group 45-49  
**P50\_54** population in age group 50-54  
**P55\_59** population in age group 55-59  
**P60\_64** population in age group 60-64  
**P65\_69** population in age group 65-69  
**P70\_74** population in age group 70-74  
**P75\_80** population in age group 75-80  
**P80plus** population in age group 80+  
**Child** child population  
**Male** male population  
**Female** female population

**Source**

Bangladesh Bureau of Statistics

---

pop\_upazila\_2011      *Banlgadesh population census-2011 data for upazila level*

---

**Description**

A dataset containing total population, population by age groups and gender for each upazilas (administrative level 3) in bangladesh

**Usage**

pop\_upazila\_2011

**Format**

A data frame with 64 rows and 29 variables:

**upazila** upazila (admin level 3) names

**admin3Pcode** upazila codes

**district** district (admin level 2) names

**ADM2\_PCODE** district codes

**division** division (admin level 1) names

**ADM1\_PCODE** division codes

**population** population in 2011

**P00\_04** population in age group 0-4

**P05\_09** population in age group 5-9

**P10\_14** population in age group 10-14

**P15\_19** population in age group 15-19

**P20\_24** population in age group 20-24

**P25\_29** population in age group 25-29

**P30\_34** population in age group 30-34

**P35\_39** population in age group 35-39

**P40\_44** population in age group 40-44

**P45\_49** population in age group 45-49

**P50\_54** population in age group 50-54

**P55\_59** population in age group 55-59

**P60\_64** population in age group 60-64

**P65\_69** population in age group 65-69

**P70\_74** population in age group 70-74

**P75\_80** population in age group 75-80

**P80plus** population in age group 80+

**Child** child population

**Male** male population

**Female** female population

**Source**

Bangladesh Bureau of Statistics

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