Package ‘bangladesh’

October 28, 2022

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.

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License MIT + file LICENSE
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R topics documented:

area_names .......................................................... 2
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
**bd_plot**

Sample function for plotting map of different administrative levels

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**Description**

Uses tmap

**Usage**

```r
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**

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

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**bd_search**

Search for specific areas

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**Description**

Uses sf

**Usage**

```r
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).
**get_coordinates**

Value
A data frame

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

**get_area_names**

get area names in English, available in the shapefiles

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**

get centroids of administrative areas

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
get_divisions

Examples

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

get_divisions(divisions, level = "division")

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")

get_map

get_shapefile_for_different_administrative_levels

Description
get shapefile for different administrative levels

Usage
get_map(level = "country")

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

shapefile for given administrative level

Examples

country <- get_map("country")
division <- get_map("division")
district <- get_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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**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
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
Bangladesh Bureau of Statistics

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**  
*Bangladesh 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
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P10_14</td>
<td>population in age group 10-14</td>
</tr>
<tr>
<td>P15_19</td>
<td>population in age group 15-19</td>
</tr>
<tr>
<td>P20_24</td>
<td>population in age group 20-24</td>
</tr>
<tr>
<td>P25_29</td>
<td>population in age group 25-29</td>
</tr>
<tr>
<td>P30_34</td>
<td>population in age group 30-34</td>
</tr>
<tr>
<td>P35_39</td>
<td>population in age group 35-39</td>
</tr>
<tr>
<td>P40_44</td>
<td>population in age group 40-44</td>
</tr>
<tr>
<td>P45_49</td>
<td>population in age group 45-49</td>
</tr>
<tr>
<td>P50_54</td>
<td>population in age group 50-54</td>
</tr>
<tr>
<td>P55_59</td>
<td>population in age group 55-59</td>
</tr>
<tr>
<td>P60_64</td>
<td>population in age group 60-64</td>
</tr>
<tr>
<td>P65_69</td>
<td>population in age group 65-69</td>
</tr>
<tr>
<td>P70_74</td>
<td>population in age group 70-74</td>
</tr>
<tr>
<td>P75_80</td>
<td>population in age group 75-80</td>
</tr>
<tr>
<td>P80plus</td>
<td>population in age group 80+</td>
</tr>
<tr>
<td>Child</td>
<td>child population</td>
</tr>
<tr>
<td>Male</td>
<td>male population</td>
</tr>
<tr>
<td>Female</td>
<td>female population</td>
</tr>
</tbody>
</table>

**Source**

Bangladesh Bureau of Statistics

**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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