Package ‘ispdata’

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Title  Access Data from the Public Security Institute of the State of Rio De Janeiro

Version  1.1.2

Description

Allows access to data from the Rio de Janeiro Public Security Institute (ISP), such as criminal statistics, data on gun seizures and femicide. The package also contains the spatial data of Pacifying Police Units (UPPs) and Integrated Public Safety Regions, Areas and Circumscriptions.

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Depends  R (>= 2.10)

Encoding  UTF-8

RoxygenNote  7.2.1

Suggests  testthat (>= 3.0.0)

Config/testthat/edition  3

LazyData  true

LazyDataCompression  xz

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NeedsCompilation  no

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R topics documented:

bicycle_theft ................................................. 2
car_fleet ..................................................... 2
crimes_against_life ...................................... 3
gun_seizure .................................................. 4
gun_seizure_historical ................................. 4
## bicycle_theft

*Access the statistics about bicycle theft of the State of Rio de Janeiro*

### Description

Returns monthly data on police occurrences involving bicycle theft in the State of Rio de Janeiro in the form of a dataframe.

### Usage

```r
bicycle_theft()
```

### Value

a dataframe

### Examples

```r
## Not run: bicycle_theft()
```

## car_fleet

*Access data from car fleet*

### Description

Returns data about car fleet in State of Rio de Janeiro in the form of a dataframe.

### Usage

```r
car_fleet(by)
```
Access the public security statistics about crimes against life in the State of Rio de Janeiro

Description

Returns monthly data about crimes against life in the State of Rio de Janeiro in the form of a dataframe.

Usage

`crimes_against_life(type)`

Arguments

`type` allows you to select the type of violent crime: "femicide", "violent_lethality", "violent_lethality_elucidation_rate" or "officers_killed_on_duty". character.

Details

The data available are on femicide, violent lethality, the rate of elucidation of cases of violent lethality or death of police officers on duty.

Value

a dataframe

Examples

## Not run: crimes_against_life(type = "femicide")
**gun_seizure**  
*Access data from gun seizure in State of Rio de Janeiro*

---

**Description**

Returns monthly data about gun seizure in State of Rio de Janeiro in the form of a dataframe.

**Usage**

`gun_seizure(gun_type)`

**Arguments**

- `gun_type` selects the gun type: "firearms" or "edged_weapons". character.

**Value**

a dataframe

**Examples**

`gun_seizure(gun_type = "firearms")`

---

**gun_seizure_historical**  
*Access historical data from seizure of firearms in State of Rio de Janeiro*

---

**Description**

Returns monthly historical data about seizure of firearms in State of Rio de Janeiro in the form of a dataframe.

**Usage**

`gun_seizure_historical(by)`

**Arguments**

- `by` selects the spatial division of the data: "cisp" or "state". character.

**Details**

Data availability from 2000 to 2006 for the State and from 2003 to 2006 for the Police Station Area (also called CISP).
monthly_stats

Value

a dataframe

Examples

## Not run: gun_seizure_historical(by = "cisp")

---

**monthly_stats**

*Access the public security statistics of the State of Rio de Janeiro by month*

**Description**

Returns monthly data on police occurrences in the State of Rio de Janeiro in the form of a dataframe.

**Usage**

`monthly_stats(by, value = "standard")`

**Arguments**

- **by**
  selects the spatial division of the data. It might be: "cisp", "municipality" or "state". character.

- **value**
  allows you to choose whether the values will be in absolute numbers ("standard") or per 100,000 inhabitants ("per_100k"). character.

**Details**

To see the dictionary of variables, use the function `monthly_stats_dictionary()`.

**Value**

a dataframe

**Examples**

`monthly_stats(by = "cisp")`
monthly_stats_dictionary

*Access the dictionaries of public security statistics of the State of Rio de Janeiro by month*

**Description**

Returns the data dictionary of the police occurrences in the State of Rio de Janeiro in the form of a dataframe.

**Usage**

```r
monthly_stats_dictionary(by, value = "standard")
```

**Arguments**

- **by**: selects the spatial division of the dictionary. It might be: "cisp", "municipality" or "state". character.
- **value**: selects the type of value: absolute numbers ("standard") or per 100,000 inhabitants ("per_100k"). character.

**Value**

- a dataframe

**Examples**

```r
## Not run: monthly_stats_dictionary(by = "state", value = "per_100k")
```

---

population

*Access population data*

**Description**

Returns data about population by state, municipality, CISP (the same as police station area) or Pacifying Police Unit.

**Usage**

```r
population(data)
```

**Arguments**

- **data**: selects the data: "cisp_monthly", "cisp_yearly", "muni_monthly", "muni_yearly", "state_monthly", "state_yearly", "upp_2010" or "upp_projection". character.
**spatial_aisp**

Value

a dataframe.

Examples

```r
## Not run: population(data = "cisp_monthly")
```

---

### spatial_aisp  
*Spatial Data from Integrated Public Safety Area (AISP)*

**Description**

This is the spatial data from the Integrated Public Safety Area (AISP) of the State of Rio de Janeiro.

**Usage**

```r
spatial_aisp
```

**Format**

```r
spatial_aisp:
A spatial data frame

aisp  Integrated Public Safety Areas (AISP) code
risp  Integrated Public Safety Regions (RISP) code
geometry  Spatial vector data of AISP
```

**Source**

[https://www.ispdados.rj.gov.br/Arquivos/AISPshp.rar](https://www.ispdados.rj.gov.br/Arquivos/AISPshp.rar)

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### spatial_cisp  
*Spatial Data from Integrated Public Safety Circumscriptions (CISP)*

**Description**

This is the spatial data from the Integrated Public Safety Circumscriptions (CISP) of the State of Rio de Janeiro.

**Usage**

```r
spatial_cisp
```
Format

spatial_cisp:
A spatial data frame

dp  id number
aisp  Integrated Public Safety Areas (AISP) code
geometry  Spatial vector data of CISP

Source

https://www.ispdados.rj.gov.br/Arquivos/CISPshp.rar

Description

Returns data about the spatial data in the package. If the data argument is "code_equivalence", it will show the equivalence between AISP, CISP and RISP codes, neighborhoods and cities. If the data argument is "area_km2", it returns a dataframe with the areas of AISP, CISP and RISP by square kilometers.

Usage

spatial_info(data)

Arguments

data  it may be "code_equivalence" or "area_km2"

Value

a dataframe

Examples

## Not run: spatial_info(data = "code_equivalence")
**spatial_regions_rj**  
*Spatial Data from Regions of the State of Rio de Janeiro*

---

**Description**

This is the spatial data from the State of Rio de Janeiro.

**Usage**

`spatial_regions_rj`

**Format**

`spatial_regions_rj`:
A spatial data frame  
`id1` id number  
`regiao` region name  
`geometry` Spatial vector data of the regions

**Source**

https://www.ispdados.rj.gov.br/Arquivos/RegioesSHP.rar

---

**spatial_risp**  
*Spatial Data from Integrated Public Safety Regions (RISP)*

---

**Description**

This is the spatial data from the Integrated Public Safety Regions (RISP) of the State of Rio de Janeiro.

**Usage**

`spatial_risp`

**Format**

`spatial_risp`:
A spatial data frame  
`risp` risp number  
`geometry` Spatial vector data of RISP

**Source**

https://www.ispdados.rj.gov.br/Arquivos/RISPshp.rar
Spatial data of Pacifying Police Units (UPP) - 2017 Limits

Description
This is the spatial data from the territorial limits of the Pacifying Police Units (UPPs) in the year of 2017.

Usage
spatial_upp

Format
spatial_upp:
A spatial data frame
nome UPP name
nomeabrev UPP abbreviate name
id_upp UPP id number
datacriaca Creation date
resolucaoc resolution number
geometry Spatial vector data of UPPs limits in 2017

Source
https://www.ispdados.rj.gov.br/Arquivos/UPPshp.rar

Access data from Pacifying Police Units (UPPs)

Description
Returns data about Pacifying Police Units in the form of a dataframe.

Usage
upp_data(data)

Arguments
data selects the data: "stats", "dates" or "area_m2". character.

Value
a dataframe.
yearly_stats

Examples

## Not run: upp_data(data = "area_m2")

| yearly_stats | Access the public security statistics of the State of Rio de Janeiro by year |

Description

Returns yearly data on police occurrences in the State of Rio de Janeiro in the form of a dataframe.

Usage

yearly_stats(by)

Arguments

by selects the spatial division of the data. It might be: "municipality" or "state". character.

Details

Values per 100,000 inhabitants.

To see the dictionary of variables, use the function yearly_stats_dictionary().

Value

a dataframe

Examples

## Not run: yearly_stats(by = "state")
yearly_stats_dictionary

Access the dictionaries of public security statistics of the State of Rio de Janeiro by year

Description

Returns the data dictionary of the police occurrences in the State of Rio de Janeiro in the form of a dataframe.

Usage

yearly_stats_dictionary(by)

Arguments

by selects the spatial division of the dictionary. It might be: "municipality" or "state". character.

Value

a dataframe

Examples

## Not run: yearly_stats_dictionary(by = "state")
Index

* datasets
  spatial_aisp, 7
  spatial_cisp, 7
  spatial_regions_rj, 9
  spatial_risp, 9
  spatial_upp, 10

bicycle_theft, 2

car_fleet, 2

crimes_against_life, 3

gun_seizure, 4

gun_seizure_historical, 4

monthly_stats, 5

monthly_stats_dictionary, 6

population, 6

spatial_aisp, 7
spatial_cisp, 7
spatial_info, 8
spatial_regions_rj, 9
spatial_risp, 9
spatial_upp, 10

upp_data, 10

yearly_stats, 11

yearly_stats_dictionary, 12