Package ‘covid19italy’
July 28, 2021

Type Package
Title The 2019 Novel Coronavirus COVID-19 (2019-nCoV) Italy Dataset
Version 0.3.1
Maintainer Rami Krispin <rami.krispin@gmail.com>
Description Provides a daily summary of the Coronavirus (COVID-19) cases in Italy by country, region and province level. Data source: Presidenza del Consiglio dei Ministri - Dipartimento della Protezione Civile <https://www.protezionecivile.it/>.
License MIT + file LICENSE
Encoding UTF-8
LazyData true
Depends R (>= 3.0.2)
Imports devtools
Suggests knitr (>= 1.28), readr (>= 1.3.1), remotes (>= 2.1.1), rmarkdown (>= 2.1), testthat (>= 2.1.0)
URL https://github.com/RamiKrispin/covid19italy
BugReports https://github.com/RamiKrispin/covid19italy/issues
RoxygenNote 7.1.1
VignetteBuilder knitr
NeedsCompilation no
Author Rami Krispin [aut, cre]
Repository CRAN
Date/Publication 2021-07-28 06:00:02 UTC

R topics documented:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>italy_province</td>
<td>2</td>
</tr>
<tr>
<td>italy_region</td>
<td>3</td>
</tr>
<tr>
<td>italy_total</td>
<td>4</td>
</tr>
<tr>
<td>update_data</td>
<td>6</td>
</tr>
</tbody>
</table>

Index 7
**The 2019 Novel Coronavirus COVID-19 (2019-nCoV) Italy Provinces Outbreak Dataset**

**Description**

Daily summary of the Coronavirus (COVID-19) pandemic cases in Italy’s provinces.

**Usage**

`italy_province`

**Format**

A data.frame object.

**Details**

The dataset contains the daily summary of the Coronavirus pandemic cases in Italy’s regions. The data includes the following fields:
- `date` - date of notification (Date class)
- `region_name` - region names
- `region_code` - region code
- `province_name` - province names
- `province_spatial` - the spatial province names as in the output of the `ne_states` function from the `rnaturalearth` package
- `province_abb` - the province abbreviation
- `province_code` - province code
- `lat` - latitude point
- `long` - Longitude point
- `new_cases` - daily number of positive cases
- `total_cases` - total number of positive cases (cumulative)
- `nuts_code_1` - groups of region - level 1 of Italy statistical regions (Nomenclature of Territorial Units for Statistics), more details available [here](#)
- `nuts_code_2` - regions, level 2 of Italy statistical regions (Nomenclature of Territorial Units for Statistics), more details available [here](#)
- `nuts_code_3` - provinces, level 3 of Italy statistical regions (Nomenclature of Territorial Units for Statistics), more details available [here](#)

**Source**

Presidenza del Consiglio dei Ministri - Dipartimento della Protezione Civile [website](#)
Examples

```r
data(italy_province)
head(italy_province)
```

Description
daily summary of the Coronavirus (COVID-19) pandemic cases in Italy’s regions

Usage

```r
italy_region
```

Format

A data.frame object

Details
The dataset contains the daily summary of the Coronavirus pandemic cases in Italy’s regions. The data includes the following fields:

- `date` - date of notification (Date class)
- `region_code` - region code
- `region_name` - region names
- `lat` - latitude point
- `long` - Longitude point
- `hospitalized_with_symptoms` - number of hospitalised patients with symptoms
- `intensive_care` - intensive Care
- `total_hospitalized` - total hospitalised patients
- `home_confinement` - home confinement
- `cumulative_positive_cases` - total amount of current positive cases (Hospitalised patients + Home confinement)
- `daily_positive_cases` - news amount of current positive cases (Hospitalised patients + Home confinement)
- `recovered` - recovered cases
- `death` - death cases
- `positive_clinical_activity` - positive cases emerged from clinical activity
- positive_surveys_tests - positive cases emerging from surveys and tests, planned at national or regional level
- cumulative_cases - total positive, recovered, and death cases
- total_tests - number of tests performed
- total_people_tested - total number of people tested
- new_intensive_care - daily admissions to intensive care
- total_positive_tests - total positive tests
- total_fast_tests - total fast tests
- daily_positive_tests - daily positive tests
- daily_fast_tests - daily fasts tests
- nuts_code_1 - NUTS statistical regions of Italy more details available here
- nuts_code_2 - NUTS statistical regions of Italy more details available here
- region_spatial - the spatial region names as in the output of the 'ne_states' function from the **naturalearth** package

Source

Presidenza del Consiglio dei Ministri - Dipartimento della Protezione Civile website

Examples

```r
data(italy_region)
head(italy_region)
```

<table>
<thead>
<tr>
<th>italy_total</th>
<th>The 2019 Novel Coronavirus COVID-19 (2019-nCoV) Italy Outbreak Dataset</th>
</tr>
</thead>
</table>

Description

daily summary of the Coronavirus (COVID-19) pandemic cases in Italy

Usage

```r
italy_total
```

Format

A data.frame object
Details

The dataset contains the daily summary of the Coronavirus pandemic cases in Italy. The data includes the following fields:

- date - date of notification (Date class)
- hospitalized_with_symptoms - number of hospitalised patients with symptoms
- intensive_care - intensive Care
- total_hospitalized - total hospitalized patients
- home_confinement - home confinement
- cumulative_positive_cases - total amount of current positive cases (Hospitalised patients + Home confinement)
- daily_positive_cases - new amount of current positive cases (Hospitalised patients + Home confinement)
- recovered - recovered cases
- death - death cases
- positive_clinical_activity - positive cases emerged from clinical activity
- positive_surveys_tests - positive cases emerging from surveys and tests, planned at national or regional level
- cumulative_cases - total positive cases, recovered, and death cases
- total_tests - number of tests performed
- total_people_tested - total number of people tested
- new_intensive_care - daily admissions to intensive care
- total_positive_molecular_test - total positive cases tested by molecular tests
- total_positive_rapid_antigen_test - Total positive rapid antigen tests
- molecular_test - total molecular tests
- rapid_antigen_test - total rapid antigen tests

Source

Presidenza del Consiglio dei Ministri - Dipartimento della Protezione Civile website

Examples

data(italy_total)

head(italy_total)
update_data

---

**update_data**

*Update the Package Datasets*

---

**Description**

Checks if new data is available on the package dev version (Github). In case new data is available the function will enable the user the update the datasets.

**Usage**

update_data()
Index

* COVID19
  italy_province, 2
  italy_region, 3
  italy_total, 4
* Italy
  italy_province, 2
  italy_region, 3
  italy_total, 4
* coronavirus
  italy_province, 2
  italy_region, 3
  italy_total, 4
* datasets
  italy_province, 2
  italy_region, 3
  italy_total, 4

italy_province, 2
italy_region, 3
italy_total, 4
update_data, 6