

Package ‘covidsymptom’

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Title COVID Symptom Study Sweden Open Dataset

Version 1.0.0

Description The COVID Symptom Study is a non-commercial project that uses a free mobile app to facilitate real-time data collection of symptoms, exposures, and risk factors related to COVID19. The package allows easy access to summary statistics data from COVID Symptom Study Sweden.

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URL <https://github.com/hugofitipaldi/covidsymptom>

Depends R (>= 2.10)

Imports stringi, usethis, utils

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

VignetteBuilder knitr

Config/testthat/edition 3

Encoding UTF-8

LazyData true

RoxygenNote 7.3.1

BugReports <https://github.com/hugofitipaldi/covidsymptom/issues>

NeedsCompilation no

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county_estimates	<i>Estimates of COVID-19 in Sweden (county level)</i>
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Description

A dataset containing predictions of COVID Symptom Study Sweden at national level

Usage

```
county_estimates
```

Format

A data frame of 5 columns

Lan Swedish county

Datum Date of prediction

Uppskattning Estimated prevalence of COVID-19 in Sweden

Low_CI Confidence Interval Lower Bound

High_CI Confidence Interval Higher Bound

Details

This dataset contains daily estimated prevalence of symptomatic covid-19 in swedish counties.

Source

COVID Symptom Study-Sweden.

Examples

```
data(county_estimates)
```

`covidsymptom`*covidsymptom: COVID Symptom Study-Sweden data*

Description

Easily imports COVID Symptom Study-Sweden open data

Details

The COVID Symptom Study is a non-commercial project that uses a free smartphone app to facilitate real-time data collection of symptoms, exposures, and risk factors related to COVID-19. The app was developed by researchers at King's College and Guys and St Thomas' Hospitals in London in partnership with health science company Zoe Global Ltd. Baseline data and recurring daily questions are described in Drew et al (Science, 2020). The app was launched in the UK and US March 2020. In Sweden, the study is based at Lund University and, as per a collaboration agreement on 28 July 2020, Uppsala University. The app was launched in Sweden on April 29, 2020 as part of a national research initiative on COVID-19. To date, >4.5 million participants in the three countries are using the app, ~202,000 of whom live in Sweden. Participants have so far made ~271 million data entries, with Swedish participants contributing ~11 million of these.

Author(s)

Maintainer: Hugo Fitipaldi <hugofitipaldi@gmail.com>

See Also

Useful links:

- <https://github.com/hugofitipaldi/covidsymptom>
- Report bugs at <https://github.com/hugofitipaldi/covidsymptom/issues>

`csss_tests`*Daily covid-19 tests reported in the COVID Symptom Study Sweden*

Description

A dataset containing daily reported number of covid-19 tests and the proportion of positive results

Usage

```
csss_tests
```

Format

A data frame of 4 columns

date Date of report

total_tests Number of tests

proportion_positive Proportion of positive tests

test_type Type of test: snabbtest (antigen) or PCR

Details

This dataset contains daily reports of covid-19 tests and the proportion of positive results in swedish 2-digit postcode regions.

Source

COVID Symptom Study-Sweden.

Examples

```
data(csss_tests)
```

get_latest_data	<i>Retrieve updated COVID Symptom Study Sweden (CSSS) data</i>
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Description

This function was originally designed to download the latest version of CSSS data dynamically. Due to the cessation of data updates from the COVID Symptom Study Sweden, this function now checks if locally stored data is up-to-date and notifies the user accordingly. The function will not fetch new data from online sources.

Usage

```
get_latest_data(data_level = c("national", "county", "postcode"))
```

Arguments

data_level A character string specifying which data set from CSSS you want to "download". Can be "national" (default), "county", or "postcode".

Details

Note: As the COVID Symptom Study Sweden is no longer updating their data sets, this function serves as a demonstration of how data updates could be managed without needing frequent package updates. It returns the data that was last available before updates were discontinued.

Value

This function returns a data.frame containing the data for the specified level. Data returned is the last available snapshot stored within the package.

Author(s)

Hugo Fitipaldi

Examples

```
# The following example demonstrates how to retrieve data at the county level.  
df <- get_latest_data(data_level = "county")
```

national_estimates *Estimates of COVID-19 in Sweden (national level)*

Description

A dataset containing predictions of COVID Symptom Study Sweden at national level

Usage

```
national_estimates
```

Format

A data frame of 4 columns

Datum Date of prediction

Uppskattning Estimated prevalence of COVID-19 in Sweden

Low_CI Confidence Interval Lower Bound

High_CI Confidence Interval Higher Bound

Details

This dataset contains daily estimated prevalence of symptomatic covid-19 in Sweden.

Source

COVID Symptom Study-Sweden.

Examples

```
data(national_estimates)
```

postcode_estimates *Estimates of COVID-19 in Sweden (2-digit postal code level)*

Description

A dataset containing predictions of COVID Symptom Study Sweden at national level

Usage

```
postcode_estimates
```

Format

A data frame of 5 columns

Postnummer 2-digit postal code area

Datum Date of prediction

Uppskattning Estimated prevalence of COVID-19 in Sweden

Low_CI Confidence Interval Lower Bound

High_CI Confidence Interval Higher Bound

Ort Regions/cities within the postcode area

Details

This dataset contains daily estimated prevalence of symptomatic covid-19 in swedish 2-digit post-code regions.

Source

COVID Symptom Study-Sweden.

Examples

```
data(postcode_estimates)
```

 symptoms

Daily proportion of symptoms reported by CSSS users

Description

A dataset containing daily reported number of covid-19 tests and the proportion of positive results

Usage

symptoms

Format

A data frame of 4 columns

Datum Date of report

Symptom Symptom

Andel Proportion of symptom

Vikt Weight related to covid19: positiv or negativ

Details

This dataset contains daily reports of covid-19 tests and the proportion of positive results in swedish 2-digit postcode regions.

Source

COVID Symptom Study-Sweden.

Examples

```
data(csss_tests)
```

 update_csss_data

Update COVID Symptom Study Sweden (CSSS) data

Description

Originally, this function would update the package datasets in the global environment with the most recent data from the development version of the package. However, as updates to the CSSS dataset have been discontinued, this function now simply notifies that no updates are available.

This function served to ensure that the package datasets remained up-to-date without requiring a full package reinstallation. It would compare the local version of the data with the latest online version and offer to update if newer data were found.

Due to the discontinuation of data updates from CSSS, this function now only serves to inform users that no new updates will be provided, preserving its structure for educational or demonstration purposes.

Usage

```
update_css_data(silence = FALSE)
```

Arguments

`silence` A logical parameter (default FALSE) to suppress messages. Setting this parameter will not affect the functionality now as the function does not perform any operations.

Value

None. This function now simply prints a message to the console indicating that the function has been disabled and no updates are available.

Author(s)

Hugo Fitipaldi

Examples

```
update_css_data() # This will print a message that no updates are available.
```

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