Package 'rGhanaCensus'

January 13, 2022

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|--|
| Title 2021 Ghana Population and Housing Census Results as Data Frames |
| Version 0.1.0 |
| Description Datasets from the 2021 Ghana Population and Housing Census Results. Users can access results as 'tidyverse' and 'sf'-Ready Data Frames. The data in this package is scraped from pdf reports released by the Ghana Statistical Service website https://census2021.statsghana.gov.gh/ . The package currently only contains datasets from the literacy and education reports. Namely, school attendance data for respondents aged 3 years and above. |
| License MIT + file LICENSE |
| Encoding UTF-8 |
| RoxygenNote 7.1.2 |
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| Depends R (>= 3.5.0) |
| LazyData true |
| Suggests dplyr, knitr, magrittr, rmarkdown, sf, tmap |
| VignetteBuilder knitr |
| <pre>URL https://github.com/ktemadarko/rGhanaCensus</pre> |
| BugReports https://github.com/ktemadarko/rGhanaCensus/issues |
| NeedsCompilation no |
| Author Ama Owusu-Darko [cre, aut] |
| Repository CRAN |
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| R topics documented: |
| Ghana_2021_school_attendance2Ghana_2021_school_attendance_geometry3 |
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Ghana_2021_school_attendance

Ghana School Attendance Indicator data

Description

The Ghana_2021_school_attendance dataset contains school attendance indicators for respondents in the 16 regions of Ghana surveyed in the 2021 Ghana Population and Housing Census.

• Details -Age range of survey respondents in this data set 3 years and above.

Usage

Ghana_2021_school_attendance

Format

A data frame with 64 rows and 10 variables:

- Region
 - A factor with 16 levels with the names of the regions in Ghana
- Gender
 - A factor with 2 levels
- Locality
 - A factor with 2 levels describing with the respondents surveyed lived in an urban or rural area
- Currently_Attending_School
 - numeric column with the raw count values of survey respondents aged 3 years and above currently attending school
- Percent_Currently_Attending_School
 - A numeric column with the derived percentage of
 - ((Currently_Attending_School)/Sum_of_Respondents_(3_years_and_above))*100 to two decimal places
- Never_Attended_School
 - A numeric column with the raw count values of survey respondents aged 3 years and above who have never attended school
- Percent_Never_Attended_School
 - A numeric column with the derived percentage of
 - ((Never_Attended_School)/Sum_of_Respondents_(3_years_and_above))*100 to two decimal places
- Dropped_out_of_School
 - A numeric column with the raw count values of survey respondents aged 3 years and above who were in school but dropped out

- Percent_Dropped_out_of_School
 - A numeric column with the derived percentage of
 - ((Dropped_out_of_School)/Sum_of_Respondents_(3_years_and_above))*100 to two decimal places
- Sum_of_Respondents_(3_years_and_above)
 - A numeric column with the raw sum values in each row.
 - That is sum of (Currently_Attending_School, Never_Attended_School, Dropped_out_of_School) in each row

Source

- · School attendance data
- Scraped from Ghana Statistical Service published 2021 Ghana Population and Housing Census Results Volume 3D Literacy and Education PDF Reports

https://statsghana.gov.gh/gssmain/fileUpload/pressrelease/2021%20PHC%20General%20Report% 20Vol%203D_Literacy%20and%20Education.pdf

- · Ghana regional administrative boundaries geometry data
- Downloaded from Humanitarian data exchange website on 7th January, 2022

https://data.humdata.org/dataset/ghana-administrative-boundaries

Ghana_2021_school_attendance_geometry

Ghana School Attendance Indicator data plus geometry

Description

The Ghana_2021_school_attendance_geometry dataset contains school attendance indicators for respondents in the 16 regions of Ghana surveyed in the 2021 Ghana Population and Housing Census plus Ghana regional administrative boundaries.

• Details Age range of survey respondents in this data set 3 years and above.

Usage

Ghana_2021_school_attendance_geometry

Format

A data frame with 64 rows and 10 variables:

- Region
 - A factor with 16 levels with the names of the regions in Ghana
- Gender

- A factor with 2 levels
- Locality
 - A factor with 2 levels describing with the respondents surveyed lived in an urban or rural area
- Currently_Attending_School
 - numeric column with the raw count values of survey respondents aged 3 years and above currently attending school
- Percent_Currently_Attending_School
 - A numeric column with the derived percentage of
 - ((Currently_Attending_School)/Sum_of_Respondents_(3_years_and_above))*100 to two decimal places
- Never_Attended_School
 - A numeric column with the raw count values of survey respondents aged 3 years and above who have never attended school
- Percent_Never_Attended_School
 - A numeric column with the derived percentage of
 - ((Never_Attended_School)/Sum_of_Respondents_(3_years_and_above))*100 to two decimal places
- Dropped_out_of_School
 - A numeric column with the raw count values of survey respondents aged 3 years and above who were in school but dropped out
- Percent_Dropped_out_of_School
 - A numeric column with the derived percentage of
 - ((Dropped_out_of_School)/Sum_of_Respondents_(3_years_and_above))*100 to two decimal places
- Sum_of_Respondents_(3_years_and_above)
 - A numeric column with the raw sum values in each row.
 - That is sum of (Currently_Attending_School, Never_Attended_School, Dropped_out_of_School) in each row

Source

- · School attendance data
- Scraped from Ghana Statistical Service published 2021 Ghana Population and Housing Census Results Volume 3D Literacy and Education PDF Reports

https://statsghana.gov.gh/gssmain/fileUpload/pressrelease/2021%20PHC%20General%20Report% 20Vol%203D_Literacy%20and%20Education.pdf

- Ghana regional administrative boundaries geometry data
- Downloaded from Humanitarian data exchange website on 7th January, 2022

https://data.humdata.org/dataset/ghana-administrative-boundaries

Examples

```
## Not run:
#Example
#Create a interactive map with the package tmap that displays the
#regional distribution of percentage of students 3 years or older who have dropped out of school.
#Load required packages
library(sf)
library(tmap)
library(dplyr)
library(magrittr)
#Load geometry data
data("Ghana_2021_school_attendance_geometry", package = "rGhanaCensus")
#Convert to sf data frame and assign a name
#In this example, "Ghana_edu_sf" will be the name of the sf data frame created.
Ghana_edu_sf<- sf::st_as_sf(Ghana_2021_school_attendance_geometry)</pre>
#Use tmap to create interactive map
tmap_mode("plot")
Ghana_edu_sf %>%
               dplyr::filter(Locality=="Urban") %>%
               tm_shape()+
               tm_polygons(id="Region", col="Percent_Dropped_out_of_School")+
               tm_text(text="Percent_Dropped_out_of_School")+
               tm_facets(by="Gender")
## End(Not run)
```

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