

Package ‘SGPdata’

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Type Package

Title Exemplar Data Sets for SGP Analyses

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Depends R (>= 2.12)

Suggests SGP (>= 1.4-0.0)

Imports data.table (>= 1.9.6)

Description

Data sets utilized by the SGP Package as exemplars for users to conduct their own SGP analyses.

URL <https://cran.r-project.org/package=SGPdata>,
<https://github.com/CenterForAssessment/SGPdata>

LazyLoad Yes

LazyData Yes

License GPL-3

NeedsCompilation no

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SGPdata-package

Exemplar Data Sets for SGP Analyses

Description

The package SGPdata contains four exemplar data sets utilized by the SGP Package for testing and examples.

Details

Package:	SGPdata
Type:	Package
Version:	17.0-0.0
Date:	2017-4-13
License:	GPL-3
LazyLoad:	Yes
LazyData:	Yes

sgpData

Longitudinal Student Assessment Data

Description

A dataset comprising a subset of five years of state assessment reading data suitable for student growth percentile and percentile growth projection/trajectory analyses. The dataset is used in examples provided in the documentation for the `studentGrowthPercentiles` and `studentGrowthProjections` functions, and serves as an exemplar for user construction of their own datasets for growth percentile analyses.

Usage

```
data(sgpData)
```

Format

A data frame of student level observations for five years on the following variables.

ID Student ID

GRADE_2013 Student Grade Tested 2013, possibly missing

GRADE_2014 Student Grade Tested 2014, possibly missing

GRADE_2015 Student Grade Tested 2015, possibly missing

GRADE_2016 Student Grade Tested 2016, possibly missing
GRADE_2017 Student Grade Tested 2017, possibly missing
SS_2013 Student Scale Score 2013, possibly missing
SS_2014 Student Scale Score 2014, possibly missing
SS_2015 Student Scale Score 2015, possibly missing
SS_2016 Student Scale Score 2016, possibly missing
SS_2017 Student Scale Score 2017, possibly missing

Note

All datasets used with `studentGrowthPercentiles` and `studentGrowthProjections` must be specifically formatted as *wide* format files. The first variable/column is the student ID variable. The next set of columns provide the grade of the student across all the years provided in the dataset (possibly missing). The last set of columns provide the scales scores of the student in the respective grades. Multi-year operational analyses benefit from putting data in long format. See `sgpData_LONG` and associated documentation for a comprehensive account.

Source

Anonymized student level state assessment data

See Also

[sgpData_LONG](#)

sgpData_INSTRUCTOR_NUMBER

*Lookup table associating INSTRUCTOR_NUMBER with student ID
by YEAR and CONTENT_AREA*

Description

A lookup table comprising student IDs associated with INSTRUCTOR_NUMBER a subset of five years of state assessment reading and mathematics data suitable for student growth percentile and percentile growth projection/trajectory analyses. The dataset is in LONG format with each record representing a unique teacher by student by year by content area combination.

Usage

`data(sgpData_INSTRUCTOR_NUMBER)`

Format

A data frame of student level observations for five years and two content areas for the following variables.

ID Unique Student Identification Number

CONTENT_AREA Content area for student/teacher record (Reading or Mathematics)

YEAR Year for student/teacher record

INSTRUCTOR_NUMBER Unique instructor number identifier

INSTRUCTOR_LAST_NAME Instructor last name

INSTRUCTOR_FIRST_NAME Instructor first name

INSTRUCTOR_WEIGHT Proportional weight associated with student/teacher record

INSTRUCTOR_ENROLLMENT_STATUS Indicator of full enrollment status of student with teacher

Source

Anonymized student/teacher lookup table in LONG format

See Also

[sgpData_LONG](#)

sgpData_LONG

Longitudinal Student Assessment Data in LONG format

Description

A dataset comprising a subset of five years of state assessment reading and mathematics data suitable for student growth percentile (SGP) and percentile growth projection/trajectory analyses. The dataset is in LONG format with each record representing a unique student, by year by content area combination. The example data is used in examples and illustration in the enclosed documentation to show how SGPs can be operationalized across years with the results being used to produce a variety of high quality visualizations both at the aggregate (e.g., school) and individual level.

Usage

```
data(sgpData_LONG)
```

Format

A data frame of student level observations for five years and two content areas for the following variables.

ID Unique Student Identification Number

LAST_NAME Student last name

FIRST_NAME Student first name

CONTENT_AREA Content area for student observation (Reading or Mathematics)
YEAR Year for student observation
GRADE Grade level of student observation
SCALE_SCORE Student Scale Score
ACHIEVEMENT_LEVEL Achievement level associated with student scale score
GENDER Student gender
ETHNICITY Student ethnicity
FREE_REDUCED_LUNCH_STATUS Student free/reduced lunch status
ELL_STATUS Student English Language Learner status
IEP_STATUS Student Individual Education Plan status
GIFTED_AND_TALENTED_PROGRAM_STATUS Student Gifted and Talented Program status
SCHOOL_NUMBER School number associated with student record
SCHOOL_NAME School name associated with school number and student record
EMH_LEVEL Elementary, Middle, High school indicator for school attended
DISTRICT_NUMBER District number associated with student record
DISTRICT_NAME District name associated with school number and student record
SCHOOL_ENROLLMENT_STATUS Indicator of full academic year student enrollment in school
DISTRICT_ENROLLMENT_STATUS Indicator of full academic year student enrollment in school
STATE_ENROLLMENT_STATUS Indicator of full academic year student enrollment in school
VALID_CASE Indicator of whether the case is valid or invalid

Note

All datasets used with `studentGrowthPercentiles` and `studentGrowthProjections` must be specifically formatted as *wide* format files. The first variable/column is the student ID variable. The next set of columns provide the grade of the student across all the years provided in the dataset (possibly missing). The last set of columns provide the scales scores of the student in the respective grades. Operational users of this package are advised to use data formatted similar to the `sgpData_LONG` with the higher level functions `prepareSGP`, `analyzeSGP`, `combineSGP`, `summarizeSGP`, `visualizeSGP`, and `outputSGP`

Source

Anonymized student level state assessment data in LONG format

See Also

[sgpData](#)

sgptData_LONG	<i>Longitudinal Student Assessment Data in LONG format with DATE for SGPt analyses.</i>
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Description

A dataset comprising a subset of 3 years (and time periods) of interim assessment early literacy, reading and mathematics data suitable for time dependent student growth percentile (SGPt) and percentile growth projection/trajectory analyses. The dataset is in LONG format with each record representing a unique student, by year/time period by content area combination. The example data is used in examples and illustrations in the enclosed documentation to show how SGPTs can be operationalized across years with the results being used to produce a variety of high quality visualizations both at the aggregate (e.g., school) and individual level.

Usage

```
data(sgptData_LONG)
```

Format

A data frame of student level observations for five years and two content areas for the following variables.

COUNTRY Variable indicating the COUNTRY associated with test record.

STATE State associated with the test record.

VALID_CASE VALID_CASE variable.

CONTENT_AREA Variable indicating content area associated with test record.

YEAR Variable indicating the year associated with the test record.

DATE Variable indicating the year associated with the test record: Must be in YYYY-MM-DD format.

ID Unique student identifier associated with test record.

GRADE Variable indicating the grade associated with the test record.

SCALE_SCORE Variable providing the scale score associated with the test record.

SCALE_SCORE_RASCH Variable providing the Rasch score associated with the test record.

SEM Variable indicating the standard error of measurement associated with the scale score.

ACHIEVEMENT_LEVEL Variable indicating the achievement level associated with the scale score.

Source

Anonymized student level interim assessment data in LONG format

See Also

[sgpData_LONG](#)

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