

Package ‘satconcordance’

December 19, 2017

Type Package

Title Concordance for New and Old SAT Values

Version 0.1.1

Author Pete Barwis

Maintainer Pete Barwis <pbarwis@capturehighered.com>

Description This package provides functions to recode SAT scores according to any table in the SAT Concordance Tables (Released 5/9/2016): this includes new SAT to old SAT values, old SAT to new SAT values, new SAT to ACT values, and ACT to new SAT values. All functions call `dplyr::recode()` to perform optimized recodes. Each function accepts a vector of values, recodes it, and returns the recoded vector.

URL <https://github.com/capturelabs/satconcordance>

BugReports <https://github.com/capturelabs/satconcordance/issues>

License MIT

Encoding UTF-8

Depends R (>= 3.1.2)

LazyData true

Imports dplyr

RoxygenNote 6.0.1

R topics documented:

<code>act_english_to_new_sat_writing</code>	2
<code>act_to_new_sat</code>	2
<code>new_sat_ebrw_to_old_writingreading</code>	3
<code>new_sat_math_to_old_sat_math</code>	4
<code>new_sat_reading_to_old_sat_reading</code>	4
<code>new_sat_to_act</code>	5
<code>new_sat_to_old_sat_1600</code>	6
<code>new_sat_to_old_sat_2400</code>	6
<code>new_sat_writing_to_act_english</code>	7
<code>new_sat_writing_to_old_sat_writing</code>	8
<code>old_sat_math_to_new_sat_math_section</code>	8
<code>old_sat_math_to_new_sat_math_test</code>	9
<code>old_sat_reading_to_new_sat_reading</code>	10

old_sat_to_new_sat_1600 10

old_sat_to_new_sat_2400 11

old_sat_writingreading_to_new_ebrw 12

old_sat_writing_to_new_sat_writing 12

Index 14

act_english_to_new_sat_writing	
	<i>Recode ACT English/Writing test to new SAT writing and language section</i>

Description

Function to recode ACT English/Writing test to new SAT writing and language section. Missing and unmatched values are coded as missing.

Usage

```
act_english_to_new_sat_writing(x)
```

Arguments

x numeric vector of ACT English/Writing test values

Value

integer vector of new SAT writing and language section values

Examples

```
require(dplyr)

act_vals <- sample(11:36, 10)
new_sat_vals <- act_english_to_new_sat_writing(act_vals)
act_new_vals <- data.frame(act_vals, new_sat_vals)
print(act_new_vals)

act_new_vals %>%
  mutate(new_sat_vals_piped = act_english_to_new_sat_writing(act_vals))
```

act_to_new_sat	<i>Recode ACT to new SAT (1600 scale)</i>
----------------	---

Description

Function to recode ACT to new SAT (1600 scale). Missing and unmatched values are coded as missing.

Usage

```
act_to_new_sat(x)
```

Arguments

x numeric vector of ACT values

Value

integer vector of new SAT values (1600 scale)

Examples

```
require(dplyr)

act_vals <- sample(11:36, 10)
new_sat_vals <- act_to_new_sat(act_vals)
act_new_vals <- data.frame(act_vals, new_sat_vals)
print(act_new_vals)

act_new_vals %>%
  mutate(new_sat_vals_piped = act_to_new_sat(act_vals))
```

```
new_sat_ebrw_to_old_writingreading
```

Recode new SAT EBRW section to old SAT writing plus critical reading sections

Description

Function to recode new SAT Evidence-Based Reading and Writing Section test to old SAT writing plus critical reading sections. Missing and unmatched values are coded as missing.

Usage

```
new_sat_ebrw_to_old_writingreading(x)
```

Arguments

x numeric vector of new SAT EBRW section values

Value

integer vector of old SAT writing plus critical reading section values

Examples

```
require(dplyr)

new_sat_vals <- round(sample(200:800, 10), -1)
old_sat_vals <- new_sat_ebrw_to_old_writingreading(new_sat_vals)
new_old_vals <- data.frame(new_sat_vals, old_sat_vals)
print(new_old_vals)

new_old_vals %>%
  mutate(old_sat_vals_piped = new_sat_ebrw_to_old_writingreading(new_sat_vals))
```

new_sat_math_to_old_sat_math

Recode new SAT math section to old SAT math section

Description

Function to recode new SAT math section to old SAT math section. Missing and unmatched values are coded as missing.

Usage

```
new_sat_math_to_old_sat_math(x)
```

Arguments

x numeric vector of new SAT math section values

Value

integer vector of old SAT math section values

Examples

```
require(dplyr)

new_sat_vals <- round(sample(200:800, 10), -1)
old_sat_vals <- new_sat_math_to_old_sat_math(new_sat_vals)
new_old_vals <- data.frame(new_sat_vals, old_sat_vals)
print(new_old_vals)

new_old_vals %>%
  mutate(old_sat_vals_piped = new_sat_math_to_old_sat_math(new_sat_vals))
```

new_sat_reading_to_old_sat_reading

Recode new SAT reading test to old SAT critical reading section

Description

Function to recode new SAT reading test to old SAT critical reading section. Missing and unmatched values are coded as missing.

Usage

```
new_sat_reading_to_old_sat_reading(x)
```

Arguments

x numeric vector of new SAT reading test values

Value

integer vector of old SAT critical reading section values

Examples

```
require(dplyr)

new_sat_vals <- sample(10:40, 10)
old_sat_vals <- new_sat_reading_to_old_sat_reading(new_sat_vals)
new_old_vals <- data.frame(new_sat_vals, old_sat_vals)
print(new_old_vals)

new_old_vals %>%
  mutate(old_sat_vals_piped = new_sat_reading_to_old_sat_reading(new_sat_vals))
```

new_sat_to_act	<i>Recode new SAT (1600 scale) to ACT</i>
----------------	---

Description

Function to recode new SAT (1600 scale) to ACT. Missing and unmatched values are coded as missing.

Usage

```
new_sat_to_act(x)
```

Arguments

x numeric vector of new SAT values (1600 scale)

Value

integer vector of ACT values

Examples

```
require(dplyr)

new_sat_vals <- round(sample(560:1600, 10), -1)
act_vals <- new_sat_to_act(new_sat_vals)
new_act_vals <- data.frame(new_sat_vals, act_vals)
print(new_act_vals)

new_act_vals %>%
  mutate(act_vals_piped = new_sat_to_act(new_sat_vals))
```

`new_sat_to_old_sat_1600`*Recode new SAT (1600 scale) to old SAT (1600 scale)*

Description

Function to recode new SAT (1600 scale) to old SAT (1600 scale). Missing and unmatched values are coded as missing.

Usage

```
new_sat_to_old_sat_1600(x)
```

Arguments

`x` numeric vector of new SAT values on 1600 scale

Value

integer vector of old SAT values on 1600 scale

Examples

```
require(dplyr)

new_sat_vals <- round(sample(400:1600, 10), -1)
old_sat_vals <- new_sat_to_old_sat_1600(new_sat_vals)
new_old_vals <- data.frame(new_sat_vals, old_sat_vals)
print(new_old_vals)

new_old_vals %>%
  mutate(old_sat_vals_piped = new_sat_to_old_sat_1600(new_sat_vals))
```

`new_sat_to_old_sat_2400`*Recode new SAT (1600 scale) to old SAT (2400 scale)*

Description

Function to recode new SAT (1600 scale) to old SAT (2400 Scale). Missing and unmatched values are coded as missing.

Usage

```
new_sat_to_old_sat_2400(x)
```

Arguments

`x` numeric vector of new SAT values on 1600 scale

Value

integer vector of old SAT values on 2400 scale

Examples

```
require(dplyr)

new_sat_vals <- round(sample(400:1600, 10), -1)
old_sat_vals <- new_sat_to_old_sat_2400(new_sat_vals)
new_old_vals <- data.frame(new_sat_vals, old_sat_vals)
print(new_old_vals)

new_old_vals %>%
  mutate(old_sat_vals_piped = new_sat_to_old_sat_2400(new_sat_vals))
```

```
new_sat_writing_to_act_english
```

Recode new SAT writing and language section to ACT English/Writing test

Description

Function to recode new SAT writing and language section to ACT English/Writing test. Missing and unmatched values are coded as missing.

Usage

```
new_sat_writing_to_act_english(x)
```

Arguments

x numeric vector of new SAT writing and language section values

Value

integer vector of ACT English/Writing test values

Examples

```
require(dplyr)

new_sat_vals <- sample(17:40, 10)
act_vals <- new_sat_writing_to_act_english(new_sat_vals)
new_act_vals <- data.frame(new_sat_vals, act_vals)
print(new_act_vals)

new_act_vals %>%
  mutate(act_vals_piped = new_sat_to_act(new_sat_vals))
```

`new_sat_writing_to_old_sat_writing`*Recode new SAT writing and language test to old SAT writing section*

Description

Function to recode new SAT writing and language test to old SAT writing section. Missing and unmatched values are coded as missing.

Usage

```
new_sat_writing_to_old_sat_writing(x)
```

Arguments

`x` numeric vector of new SAT writing and language values

Value

integer vector of old SAT writing section values

Examples

```
require(dplyr)

new_sat_vals <- sample(10:40, 10)
old_sat_vals <- new_sat_writing_to_old_sat_writing(new_sat_vals)
new_old_vals <- data.frame(new_sat_vals, old_sat_vals)
print(new_old_vals)

new_old_vals %>%
  mutate(old_sat_vals_piped = new_sat_writing_to_old_sat_writing(new_sat_vals))
```

`old_sat_math_to_new_sat_math_section`*Recode old SAT math section to new SAT math section (200-800 scale)*

Description

Function to recode old SAT math section to new SAT math section (200-800 scale). Missing and unmatched values are coded as missing.

Usage

```
old_sat_math_to_new_sat_math_section(x)
```

Arguments

`x` numeric vector of old SAT math section values

Value

integer vector of new SAT math section values (200-800 scale)

Examples

```
require(dplyr)

old_sat_vals <- round(sample(200:800, 10), -1)
new_sat_vals <- old_sat_math_to_new_sat_math_section(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_math_to_new_sat_math_section(old_sat_vals))
```

old_sat_math_to_new_sat_math_test

Recode old SAT math section to new SAT math test (10-40 scale)

Description

Function to recode old SAT math section to new SAT math test (10-40 scale). Missing and unmatched values are coded as missing.

Usage

```
old_sat_math_to_new_sat_math_test(x)
```

Arguments

x numeric vector of old SAT math section values

Value

integer vector of new SAT math test values (10-40 scale)

Examples

```
require(dplyr)

old_sat_vals <- round(sample(200:800, 10), -1)
new_sat_vals <- old_sat_math_to_new_sat_math_test(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_math_to_new_sat_math_test(old_sat_vals))
```

`old_sat_reading_to_new_sat_reading`*Recode old SAT critical reading test to new SAT reading section*

Description

Function to recode old SAT critical reading test to new SAT reading section. Missing and unmatched values are coded as missing.

Usage

```
old_sat_reading_to_new_sat_reading(x)
```

Arguments

`x` numeric vector of old SAT critical reading test values

Value

integer vector of new SAT reading section values

Examples

```
require(dplyr)

old_sat_vals <- round(sample(200:800, 10), -1)
new_sat_vals <- old_sat_reading_to_new_sat_reading(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_reading_to_new_sat_reading(old_sat_vals))
```

`old_sat_to_new_sat_1600`*Recode old SAT (1600 scale) to new SAT (1600 scale)*

Description

Function to recode old SAT (1600 scale) to new SAT (1600 scale). Missing and unmatched values are coded as missing.

Usage

```
old_sat_to_new_sat_1600(x)
```

Arguments

`x` numeric vector of old SAT values on 1600 scale

Value

integer vector of new SAT values on 1600 scale

Examples

```
require(dplyr)

old_sat_vals <- round(sample(400:1600, 10), -1)
new_sat_vals <- old_sat_to_new_sat_1600(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_to_new_sat_1600(old_sat_vals))
```

old_sat_to_new_sat_2400

Recode old SAT (2400 scale) to new SAT (1600 scale)

Description

Function to recode old SAT (2400 scale) to new SAT (1600 Scale). Missing and unmatched values are coded as missing.

Usage

```
old_sat_to_new_sat_2400(x)
```

Arguments

x numeric vector of old SAT values on 2400 scale

Value

integer vector of new SAT values on 1600 scale

Examples

```
require(dplyr)

old_sat_vals <- round(sample(600:2400, 10), -1)
new_sat_vals <- old_sat_to_new_sat_2400(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_to_new_sat_2400(old_sat_vals))
```

```
old_sat_writingreading_to_new_ebrw
```

Recode old SAT writing plus critical reading sections to new SAT EBRW section

Description

Function to recode old SAT writing plus critical reading sections to new SAT Evidence-Based Reading and Writing Section test. Missing and unmatched values are coded as missing.

Usage

```
old_sat_writingreading_to_new_ebrw(x)
```

Arguments

x numeric vector of old SAT writing plus critical reading section values

Value

integer vector of new SAT EBRW section values

Examples

```
require(dplyr)

old_sat_vals <- round(sample(400:1600, 10), -1)
new_sat_vals <- old_sat_writingreading_to_new_ebrw(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_writingreading_to_new_ebrw(old_sat_vals))
```

```
old_sat_writing_to_new_sat_writing
```

Recode old SAT writing test to new SAT writing and language section

Description

Function to recode old SAT writing test to new SAT writing and language section. Missing and unmatched values are coded as missing.

Usage

```
old_sat_writing_to_new_sat_writing(x)
```

Arguments

x numeric vector of old SAT writing values

Value

integer vector of new SAT writing and language section values

Examples

```
require(dplyr)

old_sat_vals <- round(sample(200:800, 10), -1)
new_sat_vals <- old_sat_writing_to_new_sat_writing(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_writing_to_new_sat_writing(old_sat_vals))
```

Index

act_english_to_new_sat_writing, [2](#)
act_to_new_sat, [2](#)

new_sat_ebrw_to_old_writingreading, [3](#)
new_sat_math_to_old_sat_math, [4](#)
new_sat_reading_to_old_sat_reading, [4](#)
new_sat_to_act, [5](#)
new_sat_to_old_sat_1600, [6](#)
new_sat_to_old_sat_2400, [6](#)
new_sat_writing_to_act_english, [7](#)
new_sat_writing_to_old_sat_writing, [8](#)

old_sat_math_to_new_sat_math_section,
 [8](#)
old_sat_math_to_new_sat_math_test, [9](#)
old_sat_reading_to_new_sat_reading, [10](#)
old_sat_to_new_sat_1600, [10](#)
old_sat_to_new_sat_2400, [11](#)
old_sat_writing_to_new_sat_writing, [12](#)
old_sat_writingreading_to_new_ebrw, [12](#)