Package ‘ggguitar’

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Type  Package
Title  Utilities for Creating Guitar Tablature
Version  0.1.1
Maintainer  Casimir Saternos <cas.saternos@gmail.com>
Description  Utilities for Creating Guitar Tablature using tidyverse packages.
License  MIT + file LICENSE
LazyData  TRUE

BugReports  https://github.com/ezgraphs/ggguitar/issues
Imports  dplyr (>= 0.5.0), ggplot2 (>= 0.2.1.0), gridExtra(>= 2.2.1),
          lazyeval(>= 0.2.0), readr(>= 1.0.0), tibble (>= 1.2)
Suggests  knitr(>= 1.14), rmarkdown(>= 1.2), testthat(>= 1.0.2)
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Author  Casimir Saternos [aut, cre]
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A dataset containing chords.

Description

A dataset containing chords, their location on a guitar neck, and the standard fingering used to play them.

Usage

chords

Format

A data frame chords:

X1  id field

note  note that is the root of the chord

chord  name of the chord

string_1_fret  Which fret should be pressed on the first string.

string_2_fret  Which fret should be pressed on the second string.

string_3_fret  Which fret should be pressed on the third string.

string_4_fret  Which fret should be pressed on the fourth string.

string_5_fret  Which fret should be pressed on the fifth string.

string_6_fret  Which fret should be pressed on the sixth string.

string_1_finger  Which finger should press the specified fret on the first string.

string_2_finger  Which finger should press the specified fret on the second string.

string_3_finger  Which finger should press the specified fret on the third string.

string_4_finger  Which finger should press the specified fret on the fourth string.

string_5_finger  Which finger should press the specified fret on the fifth string.

string_6_finger  Which finger should press the specified fret on the sixth string.
chord_for_frets

**Description**
Return the notes for a given set of frets for a specified tuning. Preserves NAs indicating muted strings.

**Usage**
```
chord_for_frets(frets, tuning = c("e", "a", "d", "g", "b", "e"))
```

**Arguments**
- `frets` A 6 element vector representing fret positions.
- `tuning` A 6 element vector representing notes of open strings.

**Value**
Returns a 6 element vector of note names.

**See Also**
- `notes_for_frets`

**Examples**
```
chord_for_frets(c(naL, SL, RL, 0L, 1L, 0))
```

narrow_chord

**Description**
This function filters rows in the chord data frame by criteria passed in and accounts for nulls. The nifty bit is - given a full set of chords, you can get chords that use a given fret or frets.

**Usage**
```
narrow_chord(chords, value, name)
```

**Arguments**
- `chords` A data frame of chords.
- `value` The value to be filtered.
- `name` The name to be filtered.
notes_for_frets

This function is similar to chord_for_frets but also handles scales. Unlike chords_for_frets, this function removes NAs. This means there are no muted strings identified if a chord is passed in the frets argument.

Description

This function is similar to chord_for_frets but also handles scales. Unlike chords_for_frets, this function removes NAs. This means there are no muted strings identified if a chord is passed in the frets argument.

Usage

notes_for_frets(frets, tuning = c("e", "a", "d", "g", "b", "e"))

Arguments

frets A vector representing fret positions.
tuning A 6 element vector representing notes of open strings.

Value

Returns a vector of note names.

See Also

chord_for_frets

Examples

G_M_scale <- c(3, 0, 0, NA, NA,
               NA, 2, 2, NA, NA, NA,
               NA, 3, 4, NA, NA, NA)

notes_for_frets(G_M_scale)
select_chords

Description
Select chords by criteria

Usage
select_chords(note_name = NULL, chord_name = NULL, string_1_fret = NULL, string_2_fret = NULL, string_3_fret = NULL, string_4_fret = NULL, string_5_fret = NULL, string_6_fret = NULL)

Arguments
- note_name: Root of the chord.
- chord_name: Name of the chord.
- string_1_fret: Fret location on the 1st string.
- string_2_fret: Fret location on the 2nd string.
- string_3_fret: Fret location on the 3rd string.
- string_4_fret: Fret location on the 4th string.
- string_5_fret: Fret location on the 5th string.
- string_6_fret: Fret location on the 6th string.

Value
Returns a data frame of chords.

Examples
select_chords(chord_name = 'G', string_5_fret = 3)
select_chords(note='d')

tablature
Create guitar chord tablature chart.

Description
Create guitar chord tablature chart.

Usage
tablature(name, desc, include_text = TRUE, include_title = TRUE, x_labels = NULL, x_axis_label = "String", dot_labels = NULL, dot_label_size = 2)
Arguments

name   The name of the chord
desc   A vector with 6 elements representing strings. A number indicates the fret and NA indicates a string should not be played.
include_text Include tick mark labels on x and y axis. Default is TRUE.
include_title Include the labels on the x and y axis. Default is TRUE.
x_labels A vector containing x tick mark labels. Default is string numbers.
x_axis_label The x axis label. Default is String.
dot_labels Adds labels in place of dots on frets.
dot_label_size Set the size of labels used in place of dots on frets.

Examples

tablature('G Major', c(3, 2, 0, 0, 0, 3))

B_M <- c(NA, 2, 4, 4, 4, 2)
tablature('B Major (bar)', B_M,
          x_labels=c(0,1,3,3,3,1),
          x_axis_label = 'Finger')

tablature('B Major (bar)', B_M,
          dot_labels = c('', 'B', 'F#', 'B', 'D#', 'F#'))
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