Package 'ggguitar'

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Type Package

Title Utilities for Creating Guitar Tablature

Version 0.1.1

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Description Utilities for Creating Guitar Tablature using tidyverse packages.

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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)

RoxygenNote 5.0.1

VignetteBuilder knitr

NeedsCompilation no

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R topics documented:

chords *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 *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(NA, 3, 2, 0, 1, 0))
```

narrow_chord *Narrow (Filter) Chord Selection*

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.

Value

Returns a data frame of chords.

`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, 0, NA, NA,
                         NA, 2, 2, NA, NA, NA,
                         NA, 3, 4, NA, NA, NA)
notes_for_frets(G_M_scale)
```

select_chords *Select chords by criteria*

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 = 'Major', 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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