GUITARCHORDSCHEMES

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guitar chord schemes and fingering scales with TikZ

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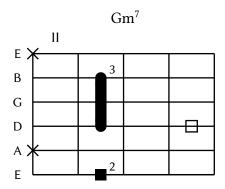


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1 License and Requirements

Permission is granted to copy, distribute and/or modify this software under the terms of the LaTeX Project Public License (LPPL), version 1.3 or later (http://www.latex-project.org/lppl.txt). The software has the status "maintained."

GUITARCHORDSCHEMES loads the packages TikZ [Tan13], etoolbox [Leh11] and pgfopts [Wri11]. It also loads the TikZ libraries shapes.misc, arrows and calc.

2 The Commands

This package more or less provides a single command:

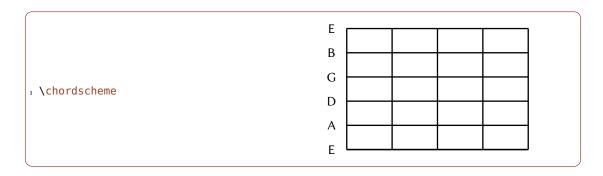
 $\chordscheme[\langle options \rangle]$

Typeset a guitar chord scheme.

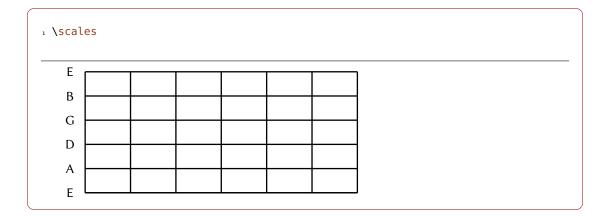
\scales[\langle option \rangle]

Typeset a fingering scale.

These commands set the frame for the chord and scale tablatures and can be used to create sheets for manually writing down tablatures:



Similarly \scales creates a frame with two more frets:



2.1 Options for \chordscheme

The $\langle options \rangle$ argument is where the actual details for a chord happen. These are the available ones for $\backslash chordscheme$:

fret-number = $\{\langle number \rangle\}$

Default: 4

Introduced in version o.6

The number of frets that are drawn. This number must be at least 4. The option should be set as first option since it influences other options.

```
name = \{\langle chordsymbol \rangle\}
```

Set the chord symbol. This option accepts a comma separated list of entries.

```
position = \{\langle position \rangle\}
```

Set the position for the first of the four frets.

```
finger = \langle fret \rangle / \langle string \rangle : \langle label \rangle
```

Specify the finger positions for a chord. This option accepts a comma separated list of entries. The : $\langle label \rangle$ is optional.

```
root = \langle fret \rangle / \langle string \rangle : \langle label \rangle
```

The same as finger but uses a square instead of a circle to indicate that this finger is playing the root of the chord. This option accepts a comma separated list of entries. The : $\langle label \rangle$ is optional.

```
show-root = \langle fret \rangle / \langle string \rangle
```

Specify positions of the root that are *not* part of the actual chord but are somewhere in the vicinity of it on the guitar neck. This option accepts a comma separated list of entries.

```
barre = \langle fret \rangle / \langle string \ range \rangle : \langle label \rangle
```

Specify a barré position for a chord. The $\langle string\ range \rangle$ part must contain a two string numbers separated with a dash. This option accepts a list of entries. The : $\langle label \rangle$ is optional.

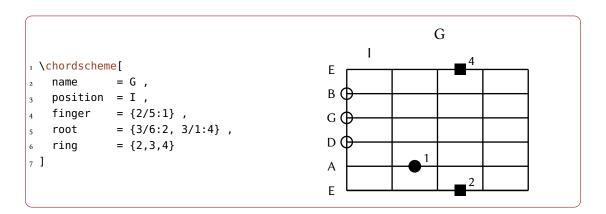
```
ring = \{\langle string \rangle\}
```

Specify open strings. This option accepts a comma separatedlist of entries.

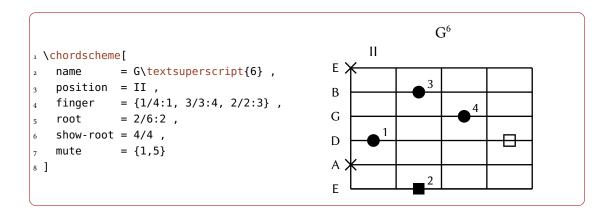
```
mute = \{\langle string \rangle\}
```

Specify muted/un-played strings. This option accepts a comma separated list of entries.

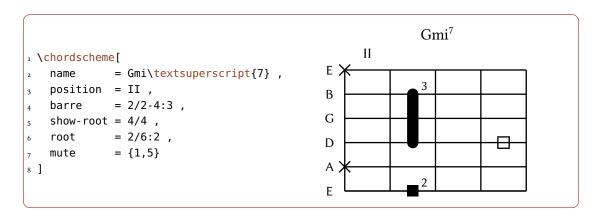
Let's take a look at a few examples:



Or a more "'jazzy"' chord:



One with a barré:



2.2 Options for \scales

The *(options)* argument for *\scales* are similar to the ones for *\chordscheme*:

```
fret-number = \{\langle number \rangle\} Default: 6
```

Introduced in version o.6

The number of frets that are drawn. This number must be at least 6. The option should be set as first option since it influences other options.

```
name = \{\langle title \rangle\}
```

Set a title for the scale.

```
position = \{\langle position \rangle\}
```

Set the position for the first of the six frets.

```
finger = \langle fret \rangle / \langle string \rangle : \langle label \rangle
```

Specify the finger positions for the scale. This option accepts a comma separated list of entries. The : $\langle label \rangle$ is optional.

```
root = \langle fret \rangle / \langle string \rangle : \langle label \rangle
```

The same as finger but uses a square instead of a circle to indicate that this finger is playing the

root of the scale. This option accepts a comma separated list of entries. The : $\langle label \rangle$ is optional.

```
fret number = \{\langle integer \rangle\}
```

Default: 6

The number of frets displayed for a scale. The minimum number is 6.

```
fingering = type 1|type 1A|type 2|type 3|type 4
```

Set a whole predefined fingering. The types correspond to ones taught in Leavitt's *A Modern Method for Guitar* [Lea66]. This option assumes an ionic scale a places the roots correspondingly.

```
fingering* = type 1|type 1A|type 2|type 3|type 4
```

The same as fingering but not scale is assumed and no roots are indicated.

```
fingering? = type 1|type 1A|type 2|type 3|type 4
```

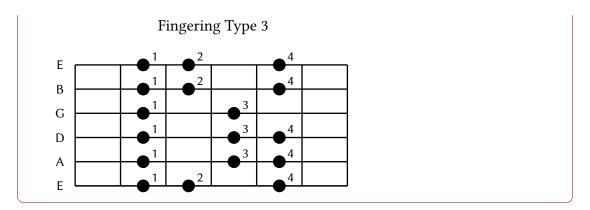
The same as fingering* but also no labels for the fingers are given.

Let's see an example:

```
1 \scales[
               = F-major (Fingering Type~1A) ,
   name
   position = I,
   fingering = type 1A
<sub>5</sub>]
               F-major (Fingering Type 1A)
    Ε
    В
                            2
    G
    D
                            2
            1s
    Α
                            2
    Ε
```

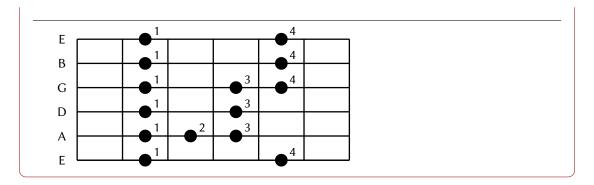
An example for fingering*:

```
1 \scales[
2  name = Fingering Type~3 ,
3  fingering* = type 3
4 ]
```



Now an example for fingering?:

At last an example for an explicitly set scale:



3 Options

There are quite a number of options determining the layout of the tablatures. They can either be set as package options or via the setup command:

\setchordscheme

options The setup command for **GUITARCHORDSCHEMES**.

Below every option and its corresponding default setting is described.

x-unit = { $\langle dim \rangle$ } Default: .8cm

The basic x unit for the TikZ picture the chord scheme is set in.

y-unit = $\{\langle dim \rangle\}$ Default: .8cm

The basic y unit for the TikZ picture the chord scheme is set in.

 $finger-format = \{\langle T_{FX} code \rangle\}$ Default: \sffamily\small

The format the numbers for the fingers are typeset with.

 $finger-format+ = \{\langle T_F X code \rangle\}$ (initially empty)

Code to be appended to finger-format.

 $position-format = \{\langle T_F X code \rangle\}$ Default: \sffamily

The format the number for the position is typeset with.

 $position-format+ = \{\langle T_{EX} code \rangle\}$ (initially empty)

Code to be appended to position-format.

 $name-format = \{\langle T_F X code \rangle\}$ Default: \large

The format the chord name/symbol is typeset with.

 $name-format+ = \{\langle T_E X code \rangle\}$ (initially empty)

Code to be appended to name-format.

Introduced in

version 0.5

chord-name-format = $\{\langle cs \rangle\}$ Default: \@firstofone

The command that is used to parse the chord name. $\langle cs \rangle$ needs to be a command that takes a mandatory argument.

scales-name-format = $\{\langle cs \rangle\}$

Default: \@firstofone

Introduced in version 0.5

The command that is used to parse the scales name. $\langle cs \rangle$ needs to be a command that takes a mandatory argument.

 $string-name-format = \{\langle T_F X code \rangle\}$

Default: \sffamily\small

The format the names of the strings are typeset with.

 $string-name-format+ = \{\langle T_E X code \rangle\}$

(initially empty)

Code to be appended to string-name-format.

 $chord-frets = \{\langle number \rangle\}$

Default: 4

Introduced in version 0.6

Introduced in version 0.6

The default number of frets of a chord scheme. $\langle number \rangle$ must be at least 4.

 $scales-frets = \{\langle number \rangle\}$

Default: 6

The default number of frets of a scales scheme. $\langle number \rangle$ must be at least 6.

 $line-width = \{\langle dim \rangle\}$

Default: 1pt

The line width used for all lines drawn in the chord scheme.

finger-radius = $\{\langle num \rangle\}$

Default: .1875

The radius of the circles that represent the fingers in multiples of x-unit. Also determines the size of the root markers and the barré.

 $finger-x-offset = \{\langle num \rangle\}$

Default: .375

The x offset of the number with respect to the circle in multiples of x-unit.

finger-y-offset = $\{\langle num \rangle\}$

Default: .375

The y offset of the number with respect to the circle in multiples of y-unit.

 $finger-style = \{\langle TikZ \, style \rangle\}$

Default: fill

The TikZ style the circles representing the fingers are drawn with. This is equivalent to $\texttt{tikzset}\{\texttt{finger style}/.\texttt{style}\}\}$.

 $root-style = \{\langle TikZ \, style \rangle\}$

Default: fill

The TikZ style the squares representing the roots are drawn with. This is equivalent to $\texttt{tikZset}\{\texttt{root style},\texttt{style}\}\}$.

show-root-style = $\{\langle TikZ \, style \rangle\}$

Default: draw

The TikZ style the squares representing the "'ghost roots"' are drawn with. This is equivalent to $\texttt{tikzset}\{\text{show root style/.style}\}$ }.

ringing-style = $\{\langle TikZ \ style \rangle\}$

Default: draw

The TikZ style the circles representing the open string markers are drawn with. This is equivalent to $\texttt{tikzset}\{\texttt{ringing style}/.\texttt{style}\}\}$.

 $muted-style = \{\langle TikZ \, style \rangle\}$

Default: cross out, draw

The TikZ style the nodes representing muted strings are drawn with. This is equivalent to $\texttt{tikzset}\{\texttt{muted style}/.\texttt{style}\}\}$.

References

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