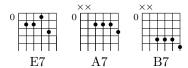
GCHORDS, a LATEX 2_{ε} package to draw guitar chord diagrams by Kasper Peeters, kasper peeters@phi-sci.com

GCHORDS is a \LaTeX package to draw those familiar guitar chord diagrams, using only \LaTeX $2_{\mathcal{E}}$ rules and the "lcircle" font, without using postscript or pdf specials. Options are available to draw them in any size, using any number of strings, produce black dots or numbered circles to denote fingers, add chord names, show the number of the top fret, specify fonts for almost any symbol occurring in the diagram and many more. This is what it looks like:



There is also a macro to typeset chords above lyrics. A small TCL script for graphical construction of chord symbols is also included. This is a short guide to show how the commands work, with a few examples included.

The home page and repository for this macro package is

Feel free to contact me if you have questions or if you want other features included.

1 Quick guide

The main macro is called \chord, and should be used as follows:

\chord{modifiers} $\{x_1, x_2, \ldots\}\{name\}$, where

- modifiers: Currently, there are two uses of this part. Putting a 't' in it draws a thick top fret. Putting in an arbitrary number (large numbers must be put in curly braces) resuls in this number being printed at the top left corner of the diagram (denoting a fret position).
- x_1, x_2, \ldots : Each x_i contains the information for a single string. Recognized commands are
 - b: This note is a base note and will be printed a bit larger than the others,
 - n: This string does not contain any dots.

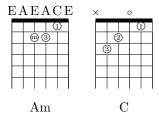
- x: This string should be muted (a \times appears above the string).
- o: This string should be explicitly labelled as open (a \circ symbol appears above the string).
- **f** num: This note should be played with finger number num. The number will be put inside the (open) dot.
- pnum: Fret number on which the dot should be placed. If you need numbers larger than
 9, they must be enclosed in curly braces.
- ttxt: Adds a label to this string, to be put at the very top of the diagram (useful to add the name of the note, for instance). If you need more than one character, put the text in curly brackets (though this probably will not fit).
- snum: Use a different string to put this note on.
- name: The name of the chord. Appears underneath the diagram.

If you want to put more notes on one string, just add the f and p sequences. They must appear in top-down order in order for the strings to be drawn correctly.

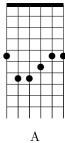
The chord macro can be used in tables if you need a lot of diagrams neatly aligned. For a row of diagrams, the shortcut \chords{ chords} may be used (where chords is a sequence of chord macros).

A few examples will illustrate the possibilities. First, lets put a diagram in the text itself, like

, which is just A minor. The numbers of the fingers can be put in, resulting in let's make the diagrams a bit larger and put them in a separate line, like



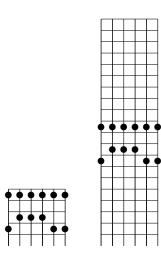
In the first diagram you can see how to put note names at the top of the diagram. It is also possible to display a larger part of the neck, like in



which can also be displayed as



Nice patterns to play are the following:



2 Gchords and lyrics

You can also typeset chords above lyrics by using the \upchord command, provided by Yotam Medini. You use it as follows

\begin{verse}
\smallchords
\newcommand{\AsevenMaj}{\chord{t}{x,n,p2,p1,p2,n}{A7+}}
Getting to \upchord{\AsevenMaj}know you
\end{verse}

which produces the output



Getting to know you

See the file get2knowu.tex for a more complicated example.

There is currently no functionality for rotated diagrams, but you can rotate the diagrams using the "rotating" package:

+ Z X

3 Chordbox graphical chord editor

Included in the distribution is a small TCL script which provides a graphical editor for chords. This script was written by David R. Lovell. To start it, for instance with 8 frets, type

wish chordbox.tcl 8

After constructing the chord and entering the name, press the 'print' button to see the LATEX command printed on stdout.

It is possible to use the 'b' and '#' symbols in the 'name' field to denote 'flat' and 'sharp' chords.

4 Sizes and defaults

It's possible to change the dimensions, fonts, number of strings etc. by using one of the following settings.

- \strings{num}: number of strings on your guitar.
- \numfrets{num}: length (number of frets) of a diagram.
- \chordsize{\,dim\}: distance between two frets in some dimension known to TFX.
- \fingerfont{font}: font used for numbering of fingers. This can be any font, but if it is too large, the number will not fit into the circle, so beware.
- \namefont{font}: font used when typesetting the name of the chord.
- \fretposfont{font}: font used when typesetting the position of on the neck of the top fret in the diagram.
- $\langle ampsymbol \{ symbol \} :$ a single symbol in any font you like, used to denote damped strings (usually a \times).
- \fatsiz{dec}: size of a fat note (the physical size will be \fatsiz*\chordsize/2).
- \normalsiz{dec} : size of a normal note.
- $fingsiz\{dec\}$: size of the circle used to produce 'numbered fingers'.
- \fatfingsiz{dec}: size of the circle used to produce 'numbered fingers', used for the fatter notes.
- \topfretsiz{dim}: thickness of the top fret (when the 't' modifier is used).
- \xoff{dec},\yoff{dec}: the left lower corner of the diagram in units of \chordsize.

There are two sizes predefined, which can be activated by \smallchords and \mediumchords.