

MusiX_{TeX}

音乐笔记

Using \TeX to write polyphonic
or instrumental music

Version 1.27

Revised July 4, 2018

本书为教会诗班音乐学习笔记，
主要为吉他编曲和五线谱诗歌本作素材准备。

*If you are not familiar with \TeX at all, I would recommend
to find another software package to do musical typesetting.*

*Setting up \TeX and MusiX_{TeX} on your machine and mastering it is
an awesome job which gobbles up a lot of your time and disk space.*

But, once you master it...

Hans KUYKENS (ca. 1995)

In my humble opinion, that whole statement is obsolete.

Christof BIEBRICHER (2006)

MusiX_{TEX} may be freely copied, duplicated and used in conformance to the GNU General Public License (Version 2, 1991, see included file copying)¹.

You may take it or parts of it to include in other packages, but no packages called MusiX_{TEX} without specific suffix may be distributed under the name MusiX_{TEX} if different from the original distribution (except obvious bug corrections).

Adaptations for specific implementations (e.g., fonts) should be provided as separate additional _{TEX} or \LaTeX files which override original definitions.

¹Thanks to the Free Software Foundation for advice. See <http://www.gnu.org>

Preface

MusiX_{TEX} was developed by Daniel Taupin, Ross Mitchell and Andreas Egler, building on earlier work by Andrea Steinbach and Angelika Schofer. Unfortunately, Daniel Taupin, the main developer, died all too early in a 2003 climbing accident. The MusiX_{TEX} community was shocked by this tragic and unexpected event. You may read tributes to Daniel Taupin that are archived at the [Werner Icking Music Archive](#).

Since then, the only significant update to MusiX_{TEX} has been in version 1.15 (April 2011) which takes advantage of the greater capacity of the e_{TEX} version of _{TEX}. This manual is the definitive reference to all features of MusiX_{TEX} version 1.27.

Novice users need not start here. Most music typesetting tasks can be accomplished entirely by using the **PMX** (for instrumental music) or **M-Tx** (for vocal music) preprocessors to generate the MusiX_{TEX} input file, relieving the user of learning any of the commands or syntax of MusiX_{TEX} itself. It is only for out-of-the-ordinary constructions that one must learn these details in order to insert the necessary MusiX_{TEX} commands into the preprocessor's input file as so-called inline _{TEX}.

Advanced users might want to use *autosp*, another preprocessor. It simplifies the production of MusiX_{TEX} scores by automating the choice of note-spacing commands; see Section ??.

It is possible to create inputs for MusiX_{TEX}, **PMX**, **M-Tx** or *autosp* using any text editor, such as notepad or *vi* or *emacs*. Currently there is no graphical user interface for generating input files, other than _{TEX}-oriented integrated graphical development environments such as _{TEX}Works.

The [Werner Icking Music Archive](#) (WIMA) contains excellent and detailed instructions for installing _{TEX}, MusiX_{TEX} and the strongly recommended preprocessors **PMX** and **M-Tx** on [Linux/UNIX](#), [Windows](#) and [Mac OS](#). See [this](#) page at WIMA for documentation of **PMX** and **M-Tx**.

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July 4, 2018

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1

Guitar

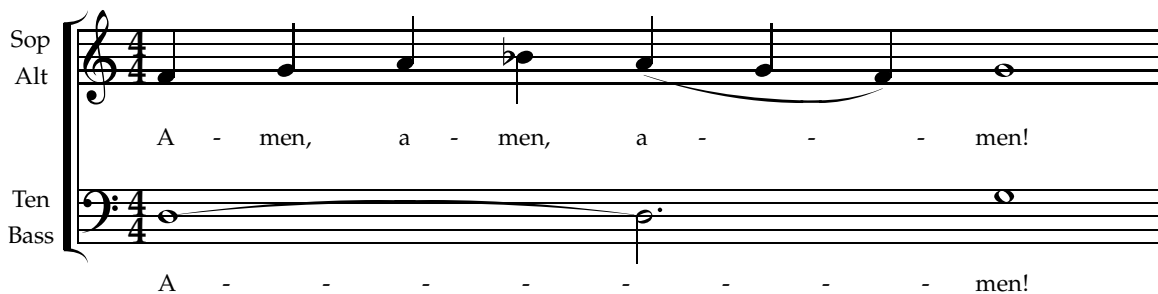
*Trust in the Lord, and do good;
dwell in the land and befriend faithfulness.
Delight yourself in the Lord,
and he will give you the desires of your heart.*

– Psalms 37:3-4 *ESV2011*

1.1 Lyrics Test

Test for the reference.[1]

Arr.: A. B. Musician



Musical score for Lyrics Test, featuring Soprano (Sop), Alto (Alt), Tenor (Ten), and Bass (Bass) parts. The key signature is one flat (Bb) and the time signature is 4/4. The lyrics are: A - men, a - men, a - - - - men! A - - - - - - - - - men!

1.2 Classical Guitar

1.2.1 C major 恭逢婚礼


Arr.: Steven Law YouTube



Musical score for Classical Guitar, featuring a single melodic line. The key signature is C major and the time signature is 4/4. The lyrics are: 今日聚集. The score includes chord markings: C, G7, C, F, C/G, G7, G.

1.3 C major scale

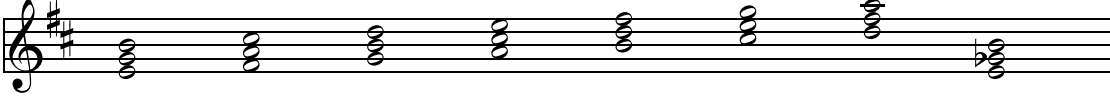
C	Dm	Em	F	G	Am	Bdim	Cm
---	----	----	---	---	----	------	----



I	ii	iii	IV	V	vi	vii°	i
---	----	-----	----	---	----	------	---

1.4 D major scale from transposition of C

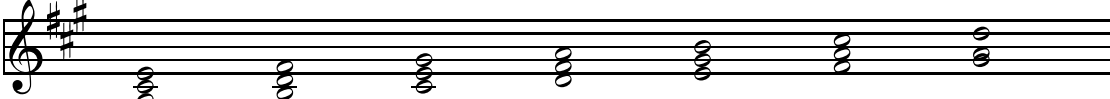
D	Em	F#m	G	A	Bm	C#dim	Dm
---	----	-----	---	---	----	-------	----



I	ii	iii	IV	V	vi	vii°	i
---	----	-----	----	---	----	------	---

1.5 A major scale

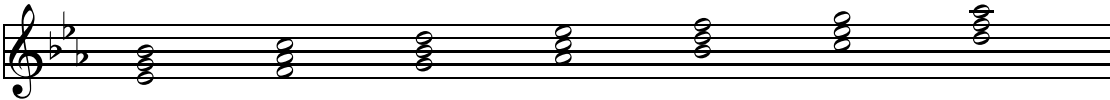
A	Bm	C#m	D	E	F#m	G#dim
---	----	-----	---	---	-----	-------



I	ii	iii	IV	V	vi	vii°
---	----	-----	----	---	----	------

1.6 B^b major scale

E ^b	Fm	Gm	A ^b	B ^b	Cm	Ddim
----------------	----	----	----------------	----------------	----	------



I	ii	iii	IV	V	vi	vii°
---	----	-----	----	---	----	------

G C⁵ e/H⁵ A⁷ D

We wish you a merry christmas, we wish you a merry christmas,

D/c B⁷ e G/d C⁶ D⁷ G

we wish you a mer-ry christ-mas and a hap-py new year.

pp sempre

3

3 sempre

1.7 Guitar Templates

1.7.1 Lyrics with Chords

You are my ^F | sunshine, my only | sunshine.

You make me ^{B^b} | happy when skies are ^F | gray.

You never ^{B^b} | know, Dear, how much I ^F | love you.

Please don't ^{C⁷} | take my sunshine a-^F | way.

1.7.2 Classical guitar

Das Ergebnis¹ sieht so aus:

1

1.7.3 Classical guitar with high notes

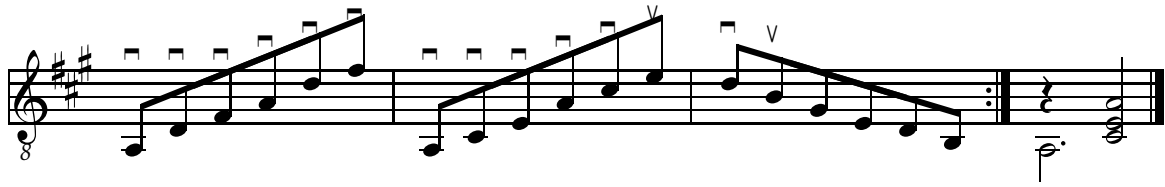
1.7.4 Acoustic guitar with beam

3

1.7.5 Rhythm Guitar

1.7.6 Guitar with Finger placements

¹aus 'A Modern Method for Guitar Volume 1' von William G. Leavitt



1.7.7 Lead guitar

A musical staff in C minor (three flats) and 4/4 time, labeled "Bossa". The melody is: C4, D4, E4, F4, G4, A4, B4, C5, C4, B4, A4, G4, F4, E4, D4, C4. The piece ends with a double bar line. Below the staff, there are five guitar chord diagrams: Cm7 (red), Fm7, Dm7b5, G7b9, and Cm7. The notation includes various articulations: a red accent mark under the first C4, a 'V' (breath mark) under the F4, a 'V' under the G4, a 'V' under the A4, and a red accent mark under the B4. The word "sim." is written below the staff between the G4 and A4 notes.

Chord diagrams shown:

- Cm7 (red)
- Fm7
- Dm7b5
- G7b9
- Cm7

Pitches

'A 'B 'C 'D 'E 'F 'G A B C D E F G H I J K L M N a b c d e
 'A 'B 'C 'D 'E 'F 'G
 a b c d e f g h i j k l m n o p q r s t u v w x y z

Notes and Accidentals

\longa \wq \wqq \wh \hu \hl \qu \ql \cu \cl \ccu \ccl \cccu \cccl \cccu \cccl \grcu \grcl
 \maxima \breve
 Accidentals: > \cdsh ~ \csh = \cna - \cfl < \cdf1
 \dqu¹²³ \yqu¹²³ \dcqu² \dhqu² \doqu² \xqu² \oxqu² \roqu² \tgqu² \kqu² \squ³ \lsqu³ \rsqu³ \cqu⁴ \ql⁴ \chu⁴ \chl⁴

Pointed Notes and Accents

\lpz \upz \lsf \usf \lst \ust \lppz \uppz \lsfz \usfz \lpzst \upzst \downbow \upbow \flageolett \whp \qupp
 Accent on beam with prefix b and beam reference number instead of the pitch

Clefs

\trebleclef \bassclef \smallaltoclef \drumclef² \gregorianFclef³
 \altoclef \smalltrebleclef \smallbassclef \gregorianCclef³ \oldGclef⁴

Rests

\qqq \hs \qs \ds \qp \hp \qqsp \hsp \qsp \dsp \qpp \hpp \pause \pausep \PAUSE \PAUSE \Hpause⁴
 \liftpause \liftpause

Miscellaneous Symbols

\tr\Trille \trille \shake \Shake \Mordent \Mordent \Shakel \Shakene \Shakesw \Shakenw \trt
 \allabreve \meterC \reverseC \meterplus \duevolte \l[r]par
 \reverseallabreve
 \setvoltabox \setvolta \coda \Coda \segno \Segno
 \metron = 99
 \PED \sPED \pdld \pdlud \pdlu \DEP \sDEP
 \caesura \cbreath
 \fermataup \Fermataup \arpeggio d5 \uptrio \octfinup \slide \boxit A \circleit B
 \bracket
 \fermatadown \Fermatadown \octfindown \downtrio
 \leftrepeat \rightrepeat
 \leftrightrepeat

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guitar, **1**

Bibliography

- [1] Francis F. Chen. *INTRODUCTION TO PLASMA PHYSICS AND CONTROLLED FUSION II EDITION*. Plenum Press, 1984.