

Free Music Notation for Everyone

How music schools can reap the benefits of Open Source and
Free Culture

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Outline

- 1 Software
- 2 Web
- 3 Schools

Text Input

Sorry, **no GUI!**

You *write* text, LilyPond *interprets* it and creates the output ...

...just like \LaTeX

How it works...

The screenshot displays the LilyPond software interface. The top menu bar includes: File, Modifica, Visualizza, Documento, LilyPond, Segnalibri, Strumenti, Impostazioni, Aiuto. The toolbar contains icons for: Nuovo, Apri, Salva, Salva come, Chiudi, Annulla, Rifai, and LilyPond.

The main window shows a score for "Fireman Joe's Breathless Day". The score is written in LilyPond notation and includes the following code:

```

1 \version "2.13"
2 \include "english.ly"
3 \include "bend.ly"
4 \include "mytabsettings.ly"
5
6 %% TODO completo
7
8 \paper {
9   between-system-spacing = #'((space . 8) (padding . 8))
10 }
11
12 \header {
13   title= "Fireman Joe's Breathless Day"
14   composer= "Giovanni Unterberger"
15   tagline= ##f
16 }
17
18 \global = {
19   \key c \major

```

The score is displayed in two systems. The first system is titled "Fireman Joe's Breathless Day" and "capo II". It features a treble clef, a common time signature (C), and a key signature of one flat (Bb). The melody consists of eighth notes with triplet markings (3). The guitar tablature below the staff shows the corresponding fretting: 3-1-0, 3-1-0, 5-3-0, and 4-2. The second system shows a double bar line with a repeat sign (S) and a key signature change to one sharp (F#).

The bottom status bar indicates: Riga: 1 Col: 0, INS RIGA, Terminale, LilyPond log, Rumor. The bottom right corner shows "1 di 4" and navigation arrows.

Why it's special...

LilyPond is the *Open Source* alternative to Finale and Sibelius



- Excellent Engraving
- Automatic Layout
- Flexibility (thanks to Scheme)
- Modularity (perfect for large projects)

...and unique!







As it's text-based, LilyPond has some unique features:

- Mix Music and Text
- Accessibility
- Control Versioning Systems
- Web 2.0 applications

Modern Tablatures

The image displays a musical score for guitar, featuring three systems of notation. Each system includes a standard musical staff and a corresponding guitar tablature (TAB) staff. The first system is in C major, 4/4 time, with a key signature of one flat (Bb) and a common time signature (C). The second system is in Bb major, 4/4 time, with a key signature of two flats (Bb, Eb) and a common time signature (C). The third system is in Bb major, 4/4 time, with a key signature of two flats (Bb, Eb) and a common time signature (C). The TAB staves use numbers 0-5 to indicate fret positions, and the standard staves use notes, rests, and accidentals to represent the melody. The score is divided into two main sections, labeled '1.' and '2.', with repeat signs and first/second endings. The first ending of each section leads to the second ending, which concludes with a double bar line and repeat dots.

Unix Philosophy...

- **GUI** →  Denemo,  MuseScore
- **Books** →  OpenOffice,  Scribus, L^AT_EX
- **Export** →  Inkscape,  Rosegarden

Open Content

Open Libraries

The logo for Mutopia, featuring the word "Mutopia" in a stylized, rounded, green font with a slight 3D effect and a light blue shadow, set against a light blue rectangular background.

<http://www.mutopiaproject.org/>

- public domain scores typesetted by volunteers
- more than 1600 music sheets
- permissive free licenses (PD, By, By-Sa)
- **source file is LilyPond format**

Open Publishing



- <http://valentin.villenave.info/opera/>
- <http://nicolas.sceaux.free.fr/>
- <http://www.serpentpublications.org/>
- <http://www.theshadylanepublishing.com/>

Web 2.0

MediaWiki extension



```
<lilypond>put the notes here. . . </lilypond>  
<lilymidi>c4 d e f</lilymidi>
```

vulnerable to DoS attacks \implies Wikipedia cannot use it

Private wikis:

- <http://oscarvandillen.com/Lilypond>
- <http://freescore.rhizomatik.net/>
- <http://www.wikilivres.info/>

Web Services



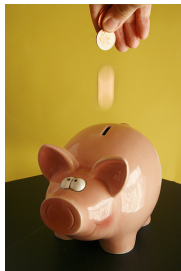
- **PNG generator** \implies <http://lilypondwave.org/num.hu/>
- **Database of snippets** \implies <http://lsr.dsi.unimi.it/>
- **Search engine** \implies <http://www.musipedia.org/>

7 reasons to use it

Why conservatories and modern music schools should adopt LilyPond



1 - Gratis



Schools and students save money

2 - Legal



Students won't have to use pirate copies

3 - Best Quality

High quality for publishers and musicians

4 - Extensible



You can connect LilyPond
to many other open source applications

5 - Ready for Modern Schools



Once LilyPond was just for classical musicians. . .
. . . the new tablature support brings it to modern musicians

6 - Open Content



If you want to contribute to the building of Free Culture
you should learn the software used by its community

7 - Easy to Learn and Teach



Very good documentation and community support. . .
You can teach it without video tutorial or face-to-face lessons

Summary

- LilyPond provides **the best quality**
- LilyPond gives **access to p2p production**
- LilyPond is **the only sustainable way for schools**

Questions?

<http://lilypond.org/>

<http://www.lilynet.net/>

<http://identi.ca/group/lilypond>

<http://gnurag.net/blog/>