

# Open source tools for music teachers

Kristo Käo

University of Tartu

[kristo@matchmysound.com](mailto:kristo@matchmysound.com)

# Domains

1. Audio recording and editing
2. Practice tools
3. Notation and graphics
4. Music theory
5. Games
6. Data collections

# 1. Audio Recording and Editing

**Audacity - has it all** ([audacity.sourceforge.net](http://audacity.sourceforge.net))

**Garage band** (Free with a Mac)

**Web audio** ([webaudiodemos.appspot.com/AudioRecorder/index.html](http://webaudiodemos.appspot.com/AudioRecorder/index.html))

**25 free** [www.hongkiat.com/blog/25-free-digital-audio-editors/](http://www.hongkiat.com/blog/25-free-digital-audio-editors/)

Change tempo and tonality <http://onlinetonegenerator.com/pitch-shifter.html>

**Media.io** (online audio converter)

**Extract Youtube to audio** <http://convert2mp3.net>

## 2. Practicing tools

**Rhythm tools** (drumbot.com, metronomeonline.com)

1. Metronomes
2. Tap tempo
3. Drum machines

**Tuners** (strumprofessor.com, Pitchlab for mobiles)

**Time tracking** ([www.online-stopwatch.com](http://www.online-stopwatch.com), toggl.com (Estonian!))

Automatic page turners such as Tonara for iOS

**Practice diaries, to-do lists** (Google Sheets, Trello.com)

# 3. Notation and graphics

MuseScore - covers it all ([musescore.org](https://musescore.org))

Noteflight ([www.noteflight.com](http://www.noteflight.com))

Lilypond ([www.lilypond.org](http://www.lilypond.org))

Converting to digital (<https://audiveris.kenai.com/>, [musescore.org/import](https://musescore.org/import))

Sibelius Scorch and MuseScore plugins

# 4. Music theory and ear training

Analysis of typical harmonies (Hooktheory.com)

Solfeggio in Estonian (web.zone.ee/solfege)

GNU Solfege (diff. languages, only Linux, [www.solfege.org](http://www.solfege.org))

<http://kolakool.toonika.com>

Music history - VSB Music History (iPad)

100 best music apps: <http://appcrawlr.com/ios-apps/best-apps-music-history>

# 5. Games and sound recognition

**Imirsel** ([www.music-ir.org](http://www.music-ir.org))

Intelligent sheet music (Smart Music, Piano Hero, MuseBook Score, Tonara, Weezic, InTune, Music Prodigy, MatchMySound.com (Estonian!))

Games (Yousician, strumProfessor)

Competitions (Mirex)

Hundreds of mobile games without sound recognition.

# Data collections, sheet music

Petrucci library ([imslp.org](http://imslp.org))

Danish Royal Library ([kb.dk/en/nb/materialer/musik](http://kb.dk/en/nb/materialer/musik))

Tarakanov.net, Folktunefinder.com, Ester.ee,  
Koolikitarr.ee

Tablature sites ([ultimate-guitar.com](http://ultimate-guitar.com))

LinkedIn groups



# Made in Estonia

Sven Aller's MuTe ([www.hot.ee/m/mute2008/](http://www.hot.ee/m/mute2008/))

strumProfessor.com

Chromatic tuner ([guitarteacher.koolikitarr.ee](http://guitarteacher.koolikitarr.ee))

Speedonom + 2 intelligent metronomes as UT  
bachelor works.

MatchMySound.com,

Kitarrikool.ee, Kitarr.ee, Koolikitarr.ee

# Mobile apps

Spotify - listen to music for free

Shazam, Soundhound - music recognition

Soundcloud - as audio-YouTube

SmartMusic - free for iPad, music costs

iWriteMusic - [iwritemusicapp.com](http://iwritemusicapp.com) (notation for iPad)

Interactive books for iPad - <http://www.kitarr.ee/apple-7/>

# Encore

The tools that a blind music student uses:

<http://abt.cm/1nPrpf>