

Rosegarden

A Slumbering Giant

Richard Bown
@bown_rw



Hallelujah_Chorus_from_Messiah.rg - Rosegarden

File Edit View Composition Studio Segment Tracks Tools Help

Zoom: 100%

Special Parameters

Segment Parameters

Label Edit

Repeat Transpose ▾

Quantize ▾ Delay ▾

Color ▾

Track Parameters
[Track 5 - Trombe in B]

▼ Playback parameters

Device ▾

Instrument ▾

► Recording filters

► Staff export options

► Create segments with

Instrument Parameters
MIDI input system device #3
[20:0 UM-2 MIDI 1]

Channel out ▾

Percussion

Bank ▾

Program ▾

Receive external

Pan Chorus

Volume Reverb

1 Winds:

2 Oboi

3 Fagotti

4 Brass:

5 Trombe in B

6 Percussion:

7 Timpani in A und D

8 Strings:

9 Violino I

10 Violino II

11 Viola

12 Violoncello

13 SATB:

14 Soprano

15 Alto

16 Tenore

17 Basso

120
4/4

1	2	3	4	5	6
---	---	---	---	---	---

oboe

bassoon

trumpet I

trumpet II

timpani

violin

violin

viola

cello

flute

Rosegarden Transport

00:00:00 0000

SIG 4/4 DIV 16 TEMPO 120.000

IN NO EVENTS
OUT NO EVENTS

*tchai_op35-mvmt1.mid - 8 Segments - Matrix

File Edit View Composition Segment Adjust Move Tools Help

Grid: ♩ 1/4 Velocity: 100 Quantize: Off

Sustain Pan Pitch Bend Velocity

*ravel-pc-gmaj-adagio.rg - Segment Track #1 - Notation

File Edit View Composition Segment Note Phrase Adjust Move Tools Help

Font: Feta Size: 6 Spacing: 100%

1 event selected C 6

21st December,
2022
Rosegarden
22.12.1
released

7th December,
2022
Rosegarden
22.12
released

8th June, 2022
Rosegarden
22.06
released

8th December,
2021
Rosegarden
21.12
released

9th July, 2021
Rosegarden
21.06.1
released

What is Rosegarden?

Rosegarden is a **music composition and editing environment** based around a **MIDI sequencer** that features a rich understanding of **music notation** and includes **basic support for digital audio**.

Rosegarden is an easy-to-learn, attractive application that runs on Linux, ideal for composers, musicians, music students, and small studio or home recording environments.








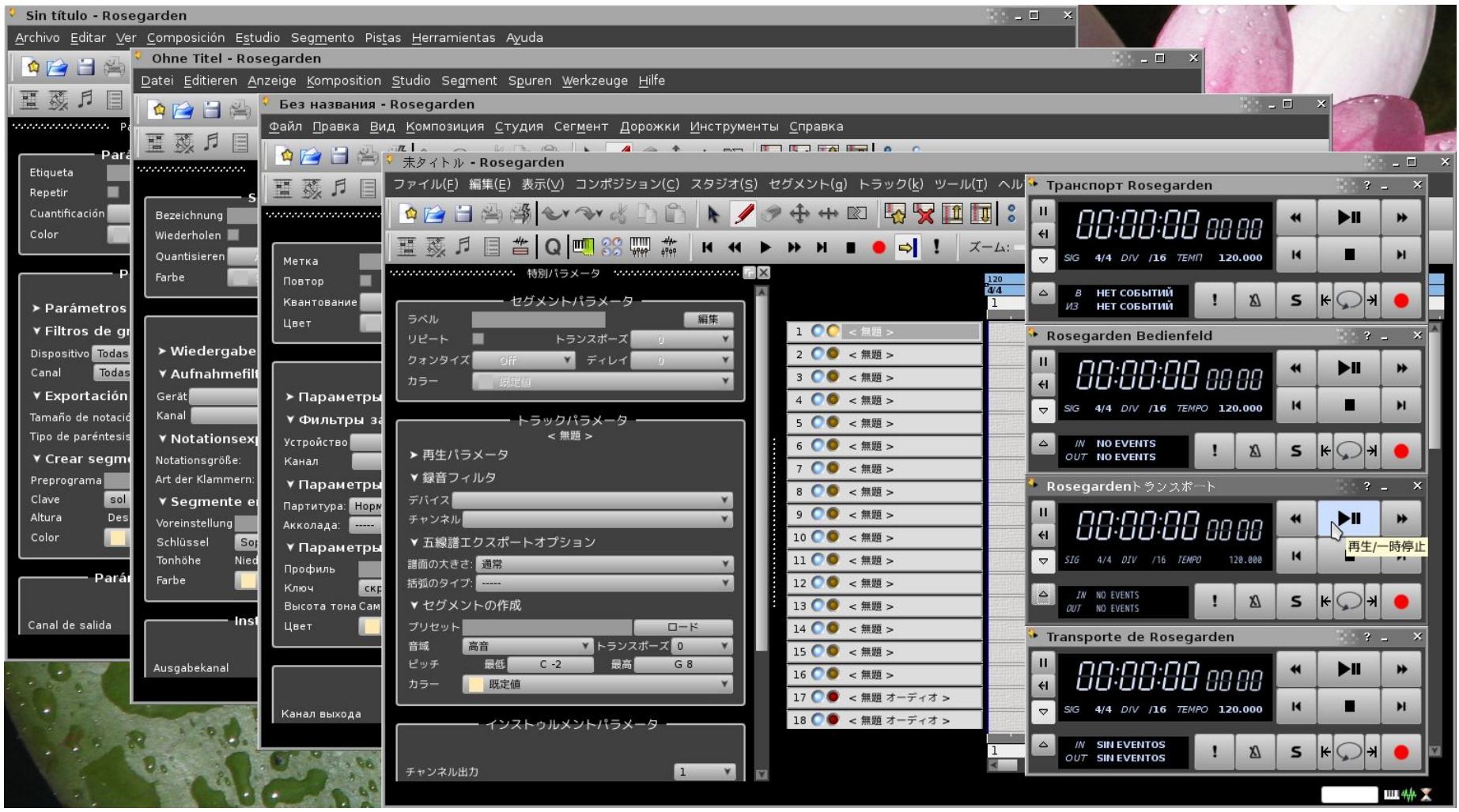
Rosegarden 22.12.1 released!

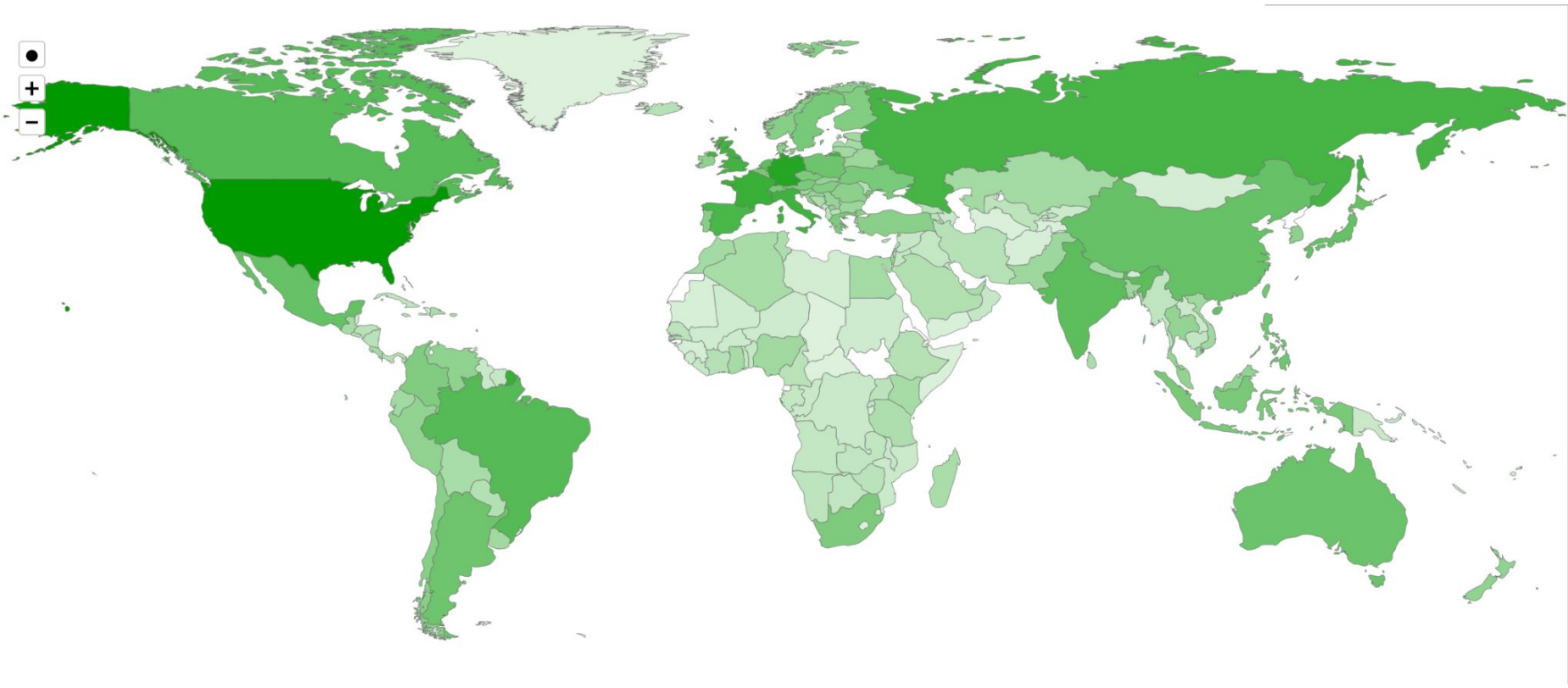
Read the [release note](#), and [get the code here!](#)

Learn more about Rosegarden:

- **Take our tour!**
- Read the **user documentation**.
- Join the Rosegarden **community**.
- Find out **who wrote Rosegarden**.
- And last but not least, **get it!**

	Distro release	Rosegarden version	Available via
	Ubuntu 22.04.1 LTS (Jammy Jellyfish)	Rosegarden v21.12	Community-supported Packages
	Ubuntu 20.04.5 LTS (Focal Fossa)	Rosegarden v19.12	Community-supported Packages
	Ubuntu 18.04.6 LTS (Bionic Beaver)	Rosegarden v17.12.1	Community-supported Packages
	Ubuntu 22.10 (Kinetic Kudu)	Rosegarden v22.06	Community-supported Packages
	Debian Bullseye	Rosegarden v20.12	
	Debian Buster	Rosegarden v18.12	
	Debian Stretch	Rosegarden v16.06	
	Debian Jessie	Rosegarden v14.02	
	openSUSE Tumbleweed	Rosegarden v22.06	multimedia/apps
	openSUSE Factory_PowerPC	Rosegarden v22.06	multimedia/apps
	openSUSE Factory_ARM	Rosegarden v22.06	multimedia/apps
	Arch Linux	Rosegarden v22.12.1	Community repository
			







Rosegarden

Brought to you by: [bownie](#), [cannam](#), [dmmcintyr](#), [tedfelix](#)

Summary

Files

Reviews

Support

Mailing Lists

Tickets

Code (git)

External Link

Svn (old)

Downloads

410,789

2000-04-01 to 2023-02-01

Countries

Operating Systems

Download Statistics

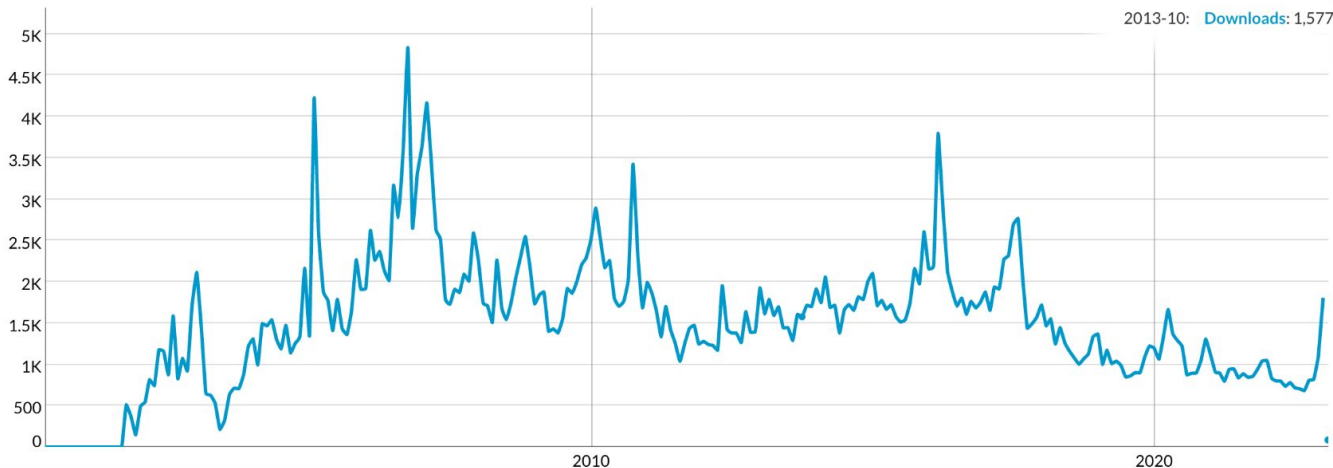
[All Files \(Change File\)](#)

Date Range: 2000-04-01 to 2023-02-01

Daily

Weekly

Monthly



Who am I?



RICHARD BOWN

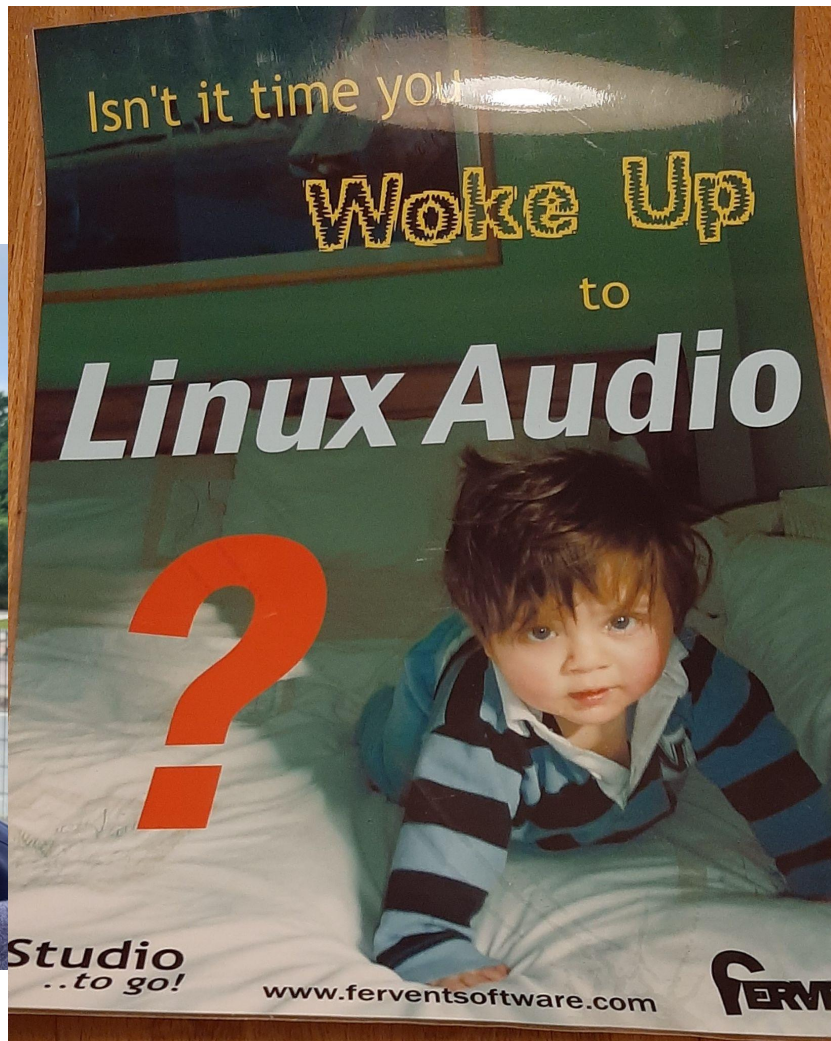
- Independent Consultant
- Software Delivery & Customer Focus
- Lead Dev on Rosegarden (1995-2004/5)
- Talks, writes and podcasts about software development technique, legacy & DevOps
- Coding when necessary to prove or disprove a point

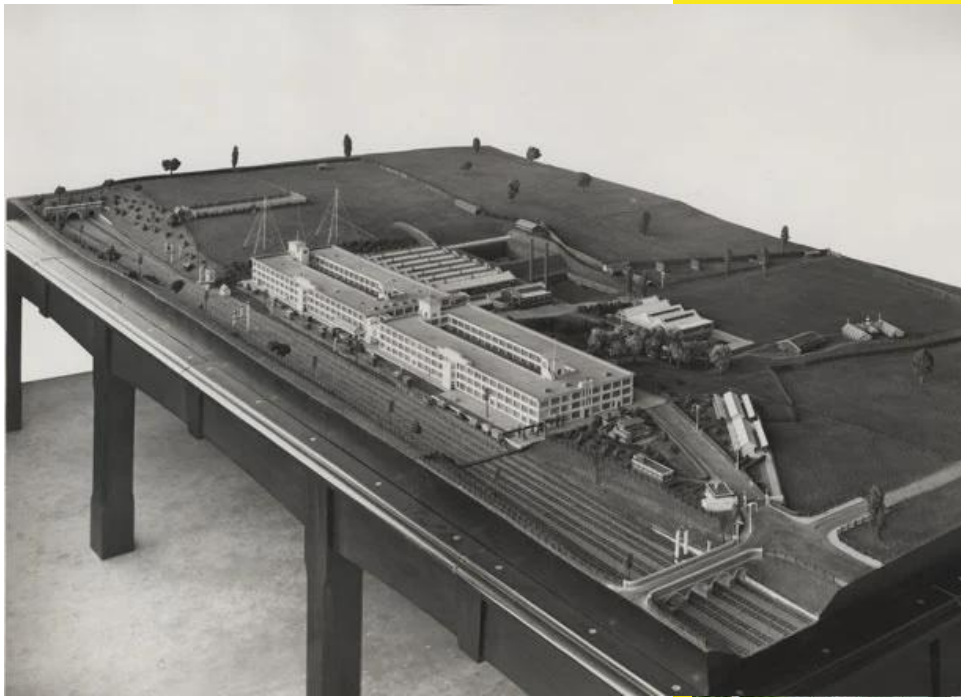
OSS - What is Important?

EFFORT

- Chris Cannam
- Melissa Wilson
- Richard Bown
- Guillaume Laurent
- Ron Kuris
- Randall Farmer
- Hans Kieserman
- D. Michael McIntyre
- Pedro Lopez-Cabanillas
- Levi Burton
- Mark Hymers
- Alexandre Prokoudine
- Jörg Schumann
- Eckhard Jokisch
- Kevin Donnelly
- Didier Burli
- Yves Guillemot
- Heikki Johannes Junes
- Daniele Medri
- Alessandro Musesti
- Stefan Asserhöl
- Erik Magnus Johansson
- Hasso Tepper
- Jelmer Vernooij
- Kevin Liang
- Arnout Engelen
- Thorsten Wilms
- "William"
- Liu Songhe
- Thomas Nagy
- Vince Negri
- Toni Arnold
- Stephen Torri
- Jan Bína
- Vladimir Savic
- Lisandro Damián Nicanor Pérez Meyer
- Javier Castrillo
- Lucas Godoy
- Marcos Guglielmetti
- Feliu Ferrer
- Quim Perez i Noguer
- Carolyn McIntyre (deceased)
- Piotr Sawicki
- David García-Abad
- Mikhail Yakshin
- Joerg C. Koenig
- Philippe Macaire
- Jaakko H. Kyro
- Gunhild Andersen
- Colin Fletcher
- Alessandro Preziosi
- Stefan Asserhall
- "Flameeyes" Pettenò
- Anders Dahnielson
- Shelagh Manton
- Julie Swango
- Emanuel Rumpf
- David Willis
- Chris "CJ" Fryer
- Thorsten Alteholz
- Queen Mary, University of London
- Mikko Vepsäläinen
- Jani Frilander
- Ilan Tal
- Doug McGilvray
- Nicholas Bailey
- Graham Percival
- Mario Moles
- Dave Plater
- Michel Munnix
- Ted Felix - Performance improvements, bug fixes, new features.
- Felipe Lopes
- Ian Gardner
- Alvar Udras
- Daren Beattie
- Tom Breton
- Tim Munro
- Niek van den Berg
- Grzegorz Pruchniakowski
- Fernando A. Martin
- Tito Latini
- David Faure - Bug fixes, ThornStyle, Qt related improvements, cmake build system...
- Philip Leishman (Iman) - Bug fixes and new features.
- **Michael Stockinger** - German Translation.
- Mark R. Rubin (thanks4opensrc) - Added several new features. See **his fork on github**.
- Scott Snyder
- Jasper Stein
- Oota Toshiya

SUPPORT





EXPERTISE

—

Rosegarden

Rosegarden 1.0

'92 - '95



Rosegarden

Notation

The screenshot displays the Rosegarden Editor interface for the file 'glazunov.rose'. The main window shows musical notation for two staves: Cello and Piano. The Cello staff features a melodic line with various dynamics like *mf* and *p*, and includes a 'patch 42' label. The Piano staff shows chordal accompaniment with dynamics *p* and *mf*. An 'Edit Chord' dialog box is open, showing a chord diagram for 'Esus2(no 5th)' on a treble clef staff. The dialog includes 'Add', 'Del', '+Sve', and '-Sve' buttons, along with navigation arrows and 'OK', 'Cancel', and 'Help' buttons at the bottom. A 'Palette' window on the right contains a 'Follow key' checkbox and various musical symbols. The bottom status bar indicates 'Bar 21'.

Rosegarden

Piano Roll
Event Edit

The screenshot displays the Rosegarden Sequencer interface. The main window, titled "Rosegarden Sequencer MIDI file (changed)", features a menu bar (File, Edit, Track, Midi) and a toolbar. Below the toolbar is a track list showing "Track 0: glazunov.rose (temporary)", "Track 1: Cello", "Track 2: Piano", and "Track 3: Piano".

Overlaid on the main window are several smaller windows:

- Filter:** A window titled "Filter Track 0 by event" with a list of event types: Note Off, Note On, Polyphonic Aftertouch, Control Change, Program Change, and Channel Aftertouch. All are checked.
- Rosegarden Sequencer Event List - Track 1: Cello:** A window showing a list of MIDI events for the Cello track, including track name, program change, time signature, and key signature.
- Rosegarden Sequencer Piano Roll - Track 2: Piano:** A window showing a piano roll for the Piano track. It includes a keyboard graphic on the left, a piano roll grid with notes, and a MIDI piano roll view at the bottom. The status bar shows "Position: 0.00" and "Zoom: 100%".

At the bottom right, there is a "Mute" button and a list of MIDI events for the Piano track:

54	1.00
56	3.50
54	0.25
56	3.00
54	1.00
56	2.50
54	0.25
54	0.25
54	0.25
54	0.25
54	0.25
54	0.25
56	3.00
54	0.50

Rosegarden

Notation
PianoRoll

The screenshot displays the Rosegarden music software interface. The main window is titled "Rosegarden Sequencer MIDI file (changed)". It features a menu bar with "Notate", "Sequence", "Exit", and "Help". Below the menu bar is a toolbar with various icons. The interface is divided into several panels:

- Track List:** Shows three tracks: "Track 0: glazunov_rose (t)", "Track 1: Cello", and "Track 2: Piano".
- Rosegarden Sequencer Event List - Track 1: Cello:** A table listing events for the Cello track. The table has columns for time and dynamics. The data is as follows:

Time	Dynamics
54	1.00
56	3.50
54	0.25
54	0.25
56	3.00
54	1.00
56	2.50
54	0.25
54	0.25
54	0.25
54	0.25
54	0.25
56	3.00
54	0.50
- Rosegarden Sequencer Piano Roll - Track 2: Piano:** A piano roll view showing a keyboard with notes and dynamics. The tempo is set to 84.00 and the zoom is 100%.
- Notation View:** Shows musical notation for the Cello and Piano parts. The Cello part is labeled "Cello" and the Piano part is labeled "Piano". The notation includes dynamics like *p* and *mf*, and a "patch 0" label.
- Control Panel:** Located at the bottom right, it includes a "Lute" button and a section with "IIII" and "I" indicators.

Gaming and Learning

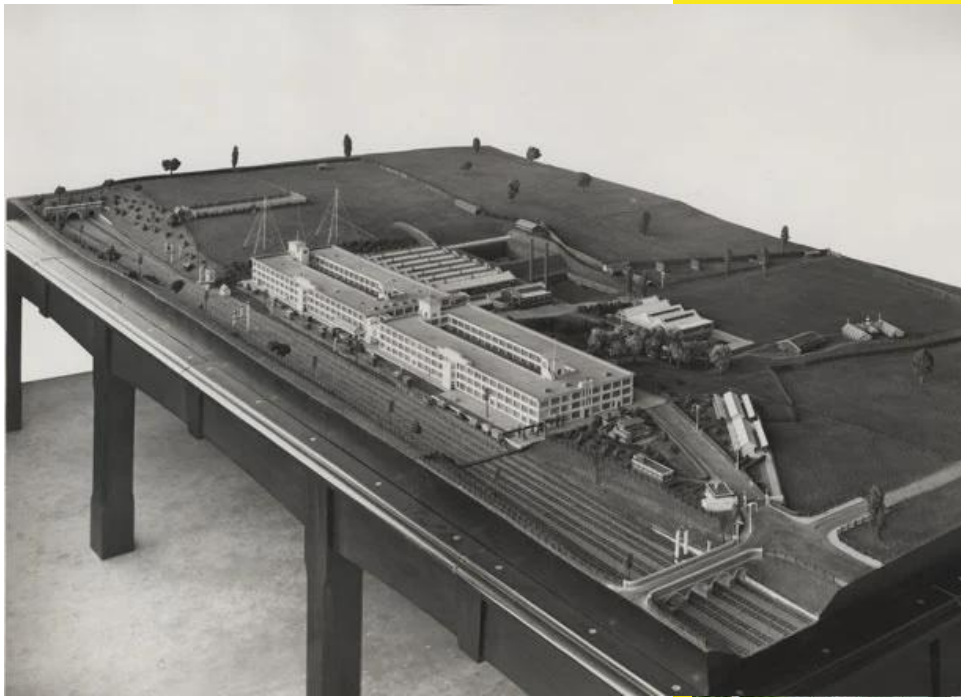
- Too much XTank
- UNIX Command Line
 - SGI IRIX
 - SunOs
 - Sun SPARC
- Learning C, X11, Command Line



Rosegarden

Rosegarden 2.1

'95 - '01



EXPERTISE

Serving the Customer / End-User



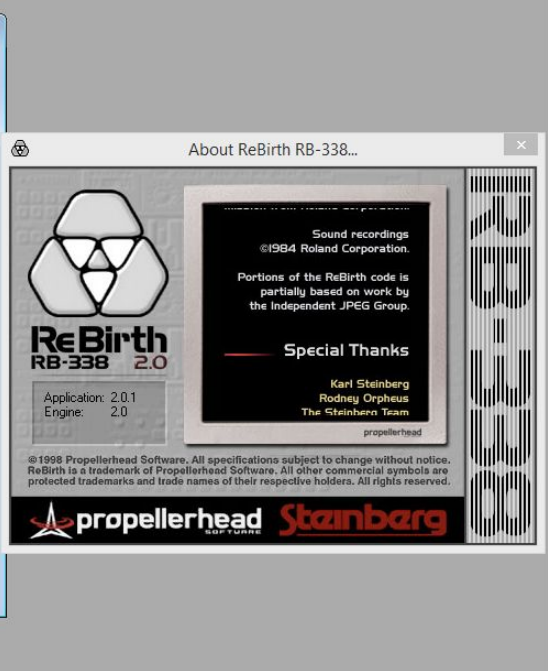
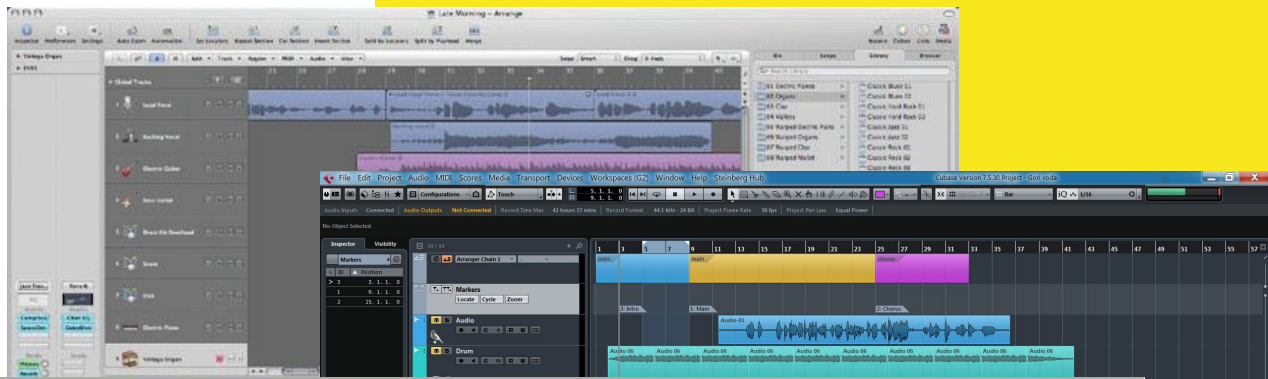
GATEWAY 2000

GATEWAY 2000
"You've got a friend in the business."SM

CRYSTALSCAN® 700

Shipping label with barcode and tracking information.

Logic Audio Cubase Rebirth Reason



Learning the Domain

Architectural Ideas

From Rosegarden 2.1 (C/X11/XAw)

JAVA

IPC - CORBA

OSS Sound

ALSA/JACK emergent

Smaller / Bigger

GTK vs KDE

UI was going to be vital

Rosegarden

The KDE Years
2001 - 2008

Hallelujah_Chorus_from_Messiah.rg - Rosegarden

File Edit View Composition Studio Segment Tracks Tools Help

Zoom: 100%

Special Parameters

Segment Parameters

Label Edit

Repeat Transpose ▾

Quantize ▾ Delay ▾

Color ▾

Track Parameters
[Track 5 - Trombe in B]

▼ Playback parameters

Device ▾

Instrument ▾

► Recording filters

► Staff export options

► Create segments with

Instrument Parameters
MIDI input system device #3
[20:0 UM-2 MIDI 1]

Channel out ▾

Percussion

Bank ▾

Program ▾

Receive external

Pan Chorus

Volume Reverb

1 Winds:

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8 Strings:

9 Violino I

10 Violino II

11 Viola

12 Violoncello

13 SATB:

14 Soprano

15 Alto

16 Tenore

17 Basso

120
4/4

1	2	3	4	5	6
---	---	---	---	---	---

oboe

bassoon

trumpet I

trumpet II

timpani

violin

violin

viola

cello

flute

Rosegarden Transport

00:00:00 0000

SIG 4/4 DIV 16 TEMPO 120.000

IN NO EVENTS
OUT NO EVENTS

The image shows a complex music production software interface with several windows open over a background image of a pink flower. The main window is titled '*zynfidel.rg - Rosegarden' and features a menu bar (File, Edit, View, Composition, Studio, Segment, Tracks, Tools, Help) and a toolbar. A track list on the right includes: 1 Delayed Echo, 2 Drums KIT, 3 Plucked Wah, 4 Resonance Synth, 5 Short Noise, and 6 Echoed Synth. A 'Segment Parameters' window is open for 'Resonance Synth (recom)', showing options for Repeat, Transpose, Quantize, Delay, and Color (Acoustic Guitar). A 'Track Parameters' window for 'Track 4 - Resonance Synth' shows playback parameters for 'Rosegarden Transport' with a digital display at 00:04:19.5077 and tempo of 85.567. An 'Audio Mixer' window is open, showing levels for Audio 1, Audio 2, and Master. An 'Envy24 Control Utility' window displays digital mixer and PCM output levels. A 'zynfidel.kmz - ZynAddSubFX' window is open, showing 'Delayed Echo' parameters and a virtual keyboard. A 'JACK Audio Connection Kit' window is open, displaying 'Started' status and a virtual keyboard. A 'Connections - JACK Audio Connection Kit' window shows connections between 'rosegarden', 'system', and 'ZynAddSubFX'.

*zynfidel.rg - Rosegarden

File Edit View Composition Studio Segment Tracks Tools Help

Special Parameters

Segment Parameters

Label Resonance Synth (recom) Edit

Repeat Transpose 0

Quantize Off Delay 0

Color Acoustic Guitar

Track Parameters

[Track 4 - Resonance Synth]

Playback parameters

Rosegarden Transport

00:04:19.5077

SG 4/4 Div 16 TEMPO 85.567

NO EVENTS

OUT F4 34

Preset Load

Clef treble Transpose 0

zynfidel.kmz - ZynAddSubFX

File Instrument Misc

Reset Part 1 Enabled System Effects

Master Volume Fine Detune

Delayed Echo

Portamento

Volume

Stop ALL sounds!

Ch1 Midi Channel Receive

2 Keyb. Oct.

JACK Audio Connection Kit [(default)] Started.

Started 36% 48000 Hz

0:00:00

Stopped

Messages Status

Connect Patchbay

Connections - JACK Audio Connection Kit

Audio MIDI ALSA

Readable Clients / Output Ports

- rosegarden
- system
- ZynAddSubFX

Writable Clients / Input Ports

- rosegarden
- system

Connect Disconnect Disconnect All Refresh

Emergent Architecture

- Shared Core (templated C++)
 - KDE/Qt (KDE 1.0) » Qt6
 - KDE sound and OSS MIDI (pre ALSA)
 - JACK integration
 - LADSPA/DSSI Plugin support
 - VST Plugins
 - MIDI Import/Export
 - Notation Markup and Printing (Lilypond export)
 - Rosegarden Studio Concept
 - Editing Rulers
-

Architecture and Organisation is Difficult

Everyone Has An
Opinion on UI

When You Get it Right,
Great Features are
Simple To Implement

A Small Number of Loyal
Users is All You Need

Rosegarden

Getting Out There



Rosegarden

music software for everyone



Rosegarden helps you compose, edit and arrange music.

*With all the power of top products for other platforms,
Rosegarden is the leading sequencer and score editor
for Linux - and it's both friendly and free.*



- Record from MIDI instruments, guitars and microphones
- Compose and edit in score, matrix and segment editors
- Arrange, mix, and render to audio for CD or mp3

Available for the Linux desktop now.

<http://www.all-day-breakfast.com/rosegarden/>

"the closest native equivalent to Cubase for Linux" - Sound on Sound

Rosegarden development is supported by



www.ferventsoftware.com

- Journalism
- Trade Shows
- Conferences
- Approaching vendors
- Documentation (Books)
- Partners

Getting on the Road

A screenshot of a Linux desktop environment with a pink background. The desktop contains several windows:

- holly_golightly.WAV 4% - Sweep 0.0.1**: A window showing a waveform of an audio file. The y-axis ranges from -6.0 to +10%.
- jamin - default.jam - 0.9.0**: A window showing a 30-band EQ spectrum. The x-axis is frequency in Hz (100, 200, 500, 1000, 2000, 5000, 10000, 20000). The y-axis is gain in dB (-10 to 10). A red vertical line is at 1566 Hz. The window is titled 'Stopped | 23.6% CPU | 0 xruns | 1024 frames | 48000 Hz | RT'.
- JACK Audio Connection Kit [64-bit] Autodetect: 0! Started.**: A small utility window with buttons for Start, Stop, Messages, Connect, Patchbay, Play, and About.
- Connections - JACK Audio Connection Kit**: A window showing audio connections. On the left, 'Readable Clients / Output Ports' includes 'alsa_pcm', 'jamin', and 'sweep_0'. On the right, 'Writable Clients / Input Ports' includes 'alsa_pcm' and 'jamin'. A line connects 'sweep_0' to 'jamin'.

The taskbar at the bottom shows the system tray with icons for JACK Audio Connection Kit, jamin - default.jam - 0.9.0, and holly_golightly.WAV 4% - Sweep 0.0.1. The system tray also displays CPU usage and a keyboard layout indicator.



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Linux Magazine

.ORG VILLAGE
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Rosegarden
MUSIC SOFTWARE FOR LINUX

LPI provide standardised multiplatform music software for Linux and Linux.

Rosegarden-4 is an audio and MIDI sequencer, and music editor for Unix and Linux.

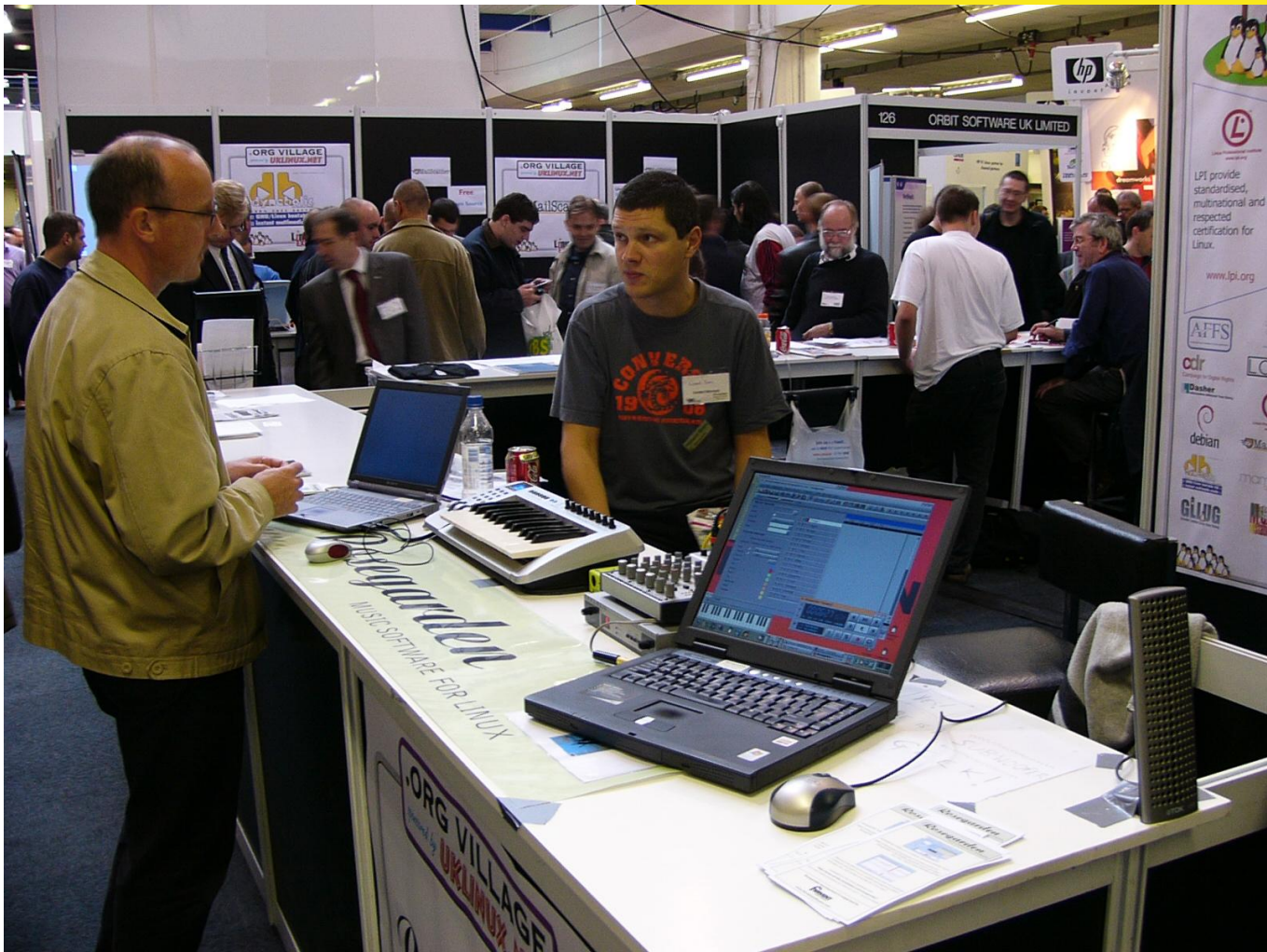
OpenBSD

Rosegarden

LIBUS

rosegarden
MUSIC SOFTWARE FOR LINUX

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Rosegarden

**The Qt Years
2008 - Present**

Major Dependency
Upgrades are Hard

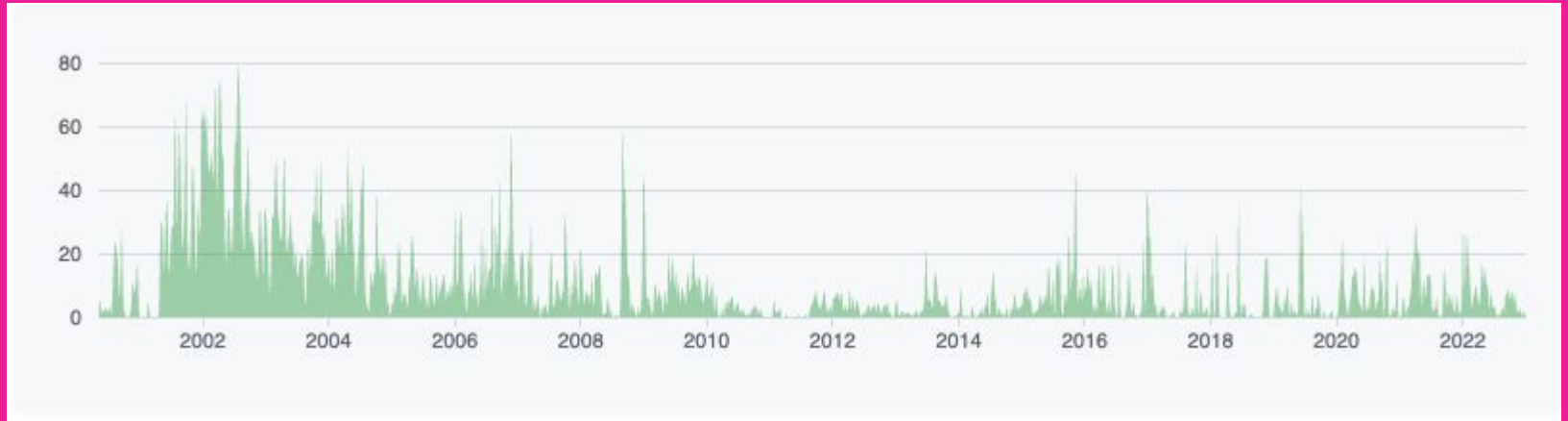
SMALL IS SIMPLE
SIMPLE IS GOOD

<i>Grouped LOC</i>	COUNT of LOC
0 - 499	1253
500 - 999	82
1000 - 1499	29
1500 - 1999	16
2000 - 2499	6
2500 - 2999	3
3000 - 3499	2
3500 - 3999	1
5500 - 5999	2
6000 - 6499	1
8500 - 8999	1
Grand Total	1396

Rosegarden

The Future

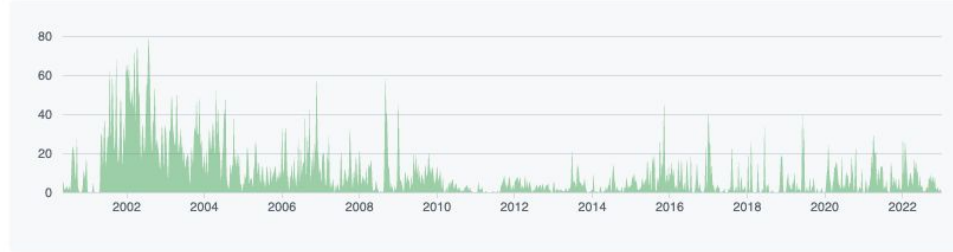
Continuing contributions



May 14, 2000 – Jan 12, 2023

Contributions: Commits ▾

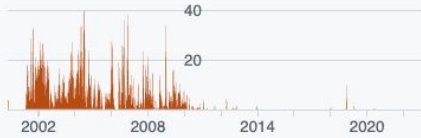
Contributions to master, excluding merge commits and bot accounts



cannam

3,859 commits 3,432,157 ++ 2,856,708 --

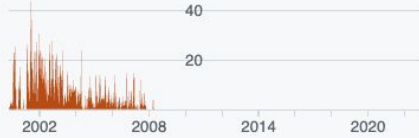
#1



glaurent

2,771 commits 3,136,087 ++ 2,766,204 --

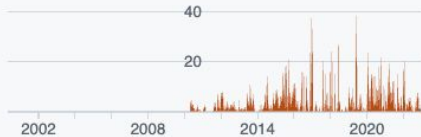
#2



tedfelix

2,445 commits 235,522 ++ 215,688 --

#3



bownie

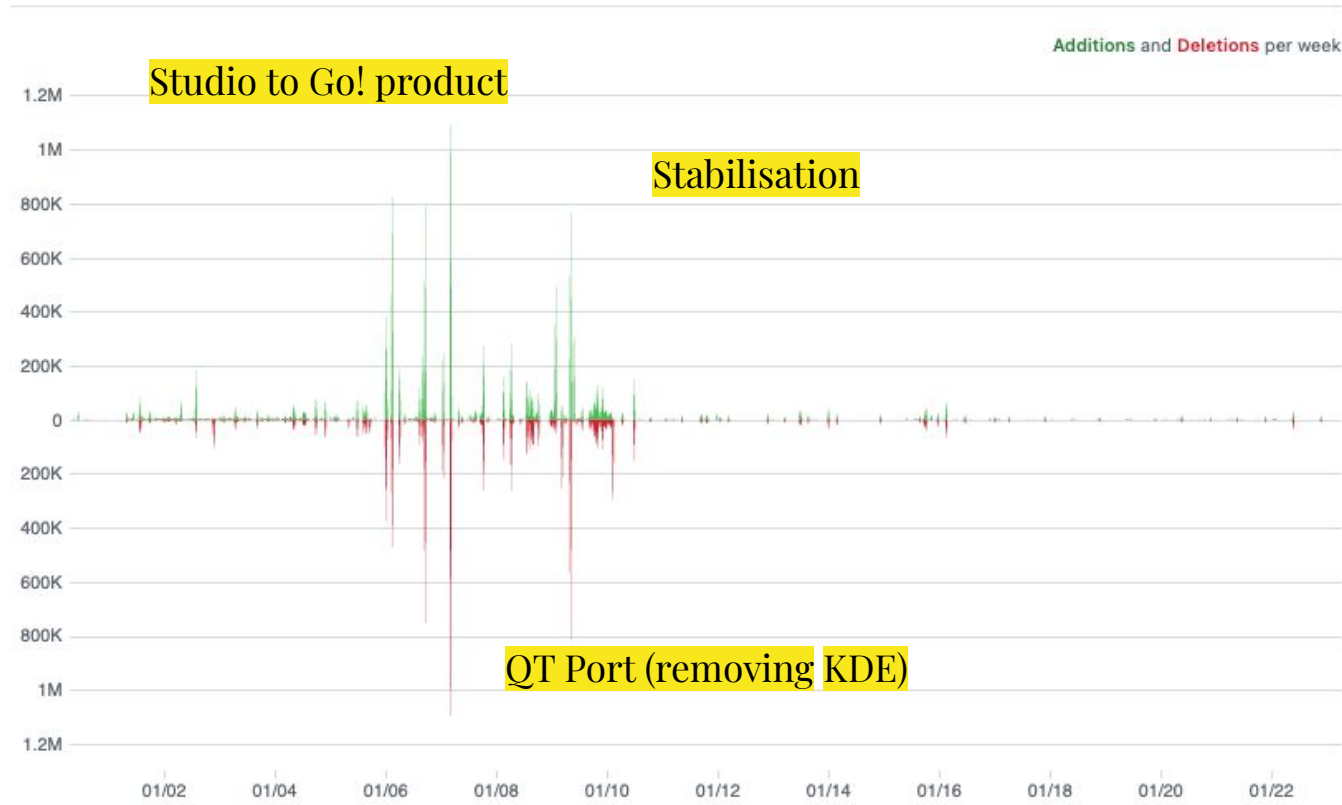
1,498 commits 521,699 ++ 162,332 --

#4

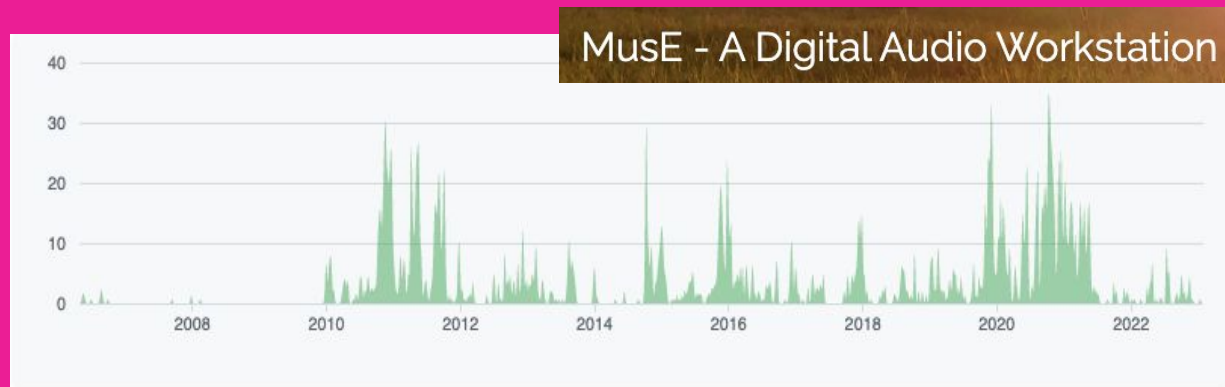
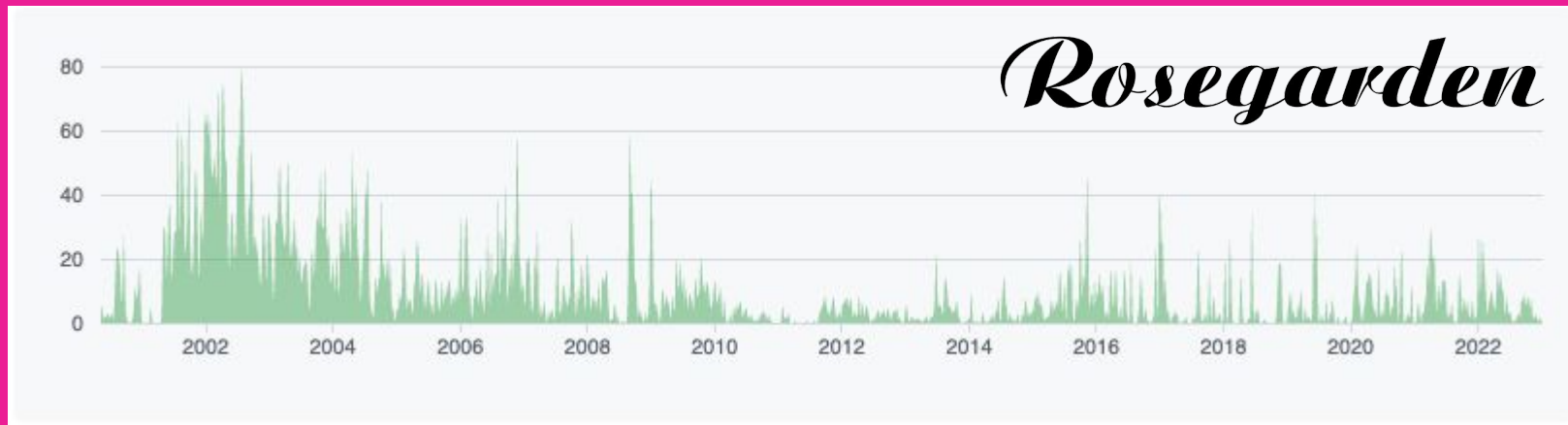


Continuing Contributors

Code frequency over the history of tedfelix/rosegarden-official



Compare Contributions



PEOPLE

TOP FIVE THINGS

Quality

Coding Is Social,
OSS Doubly So

“People Like Us Do
Things Like This”

Seth Godin

Use All The Tools

It's Only Software

Rosegarden

<https://qr.net/nbrtMY>



Richard Bown
@bown_rw