

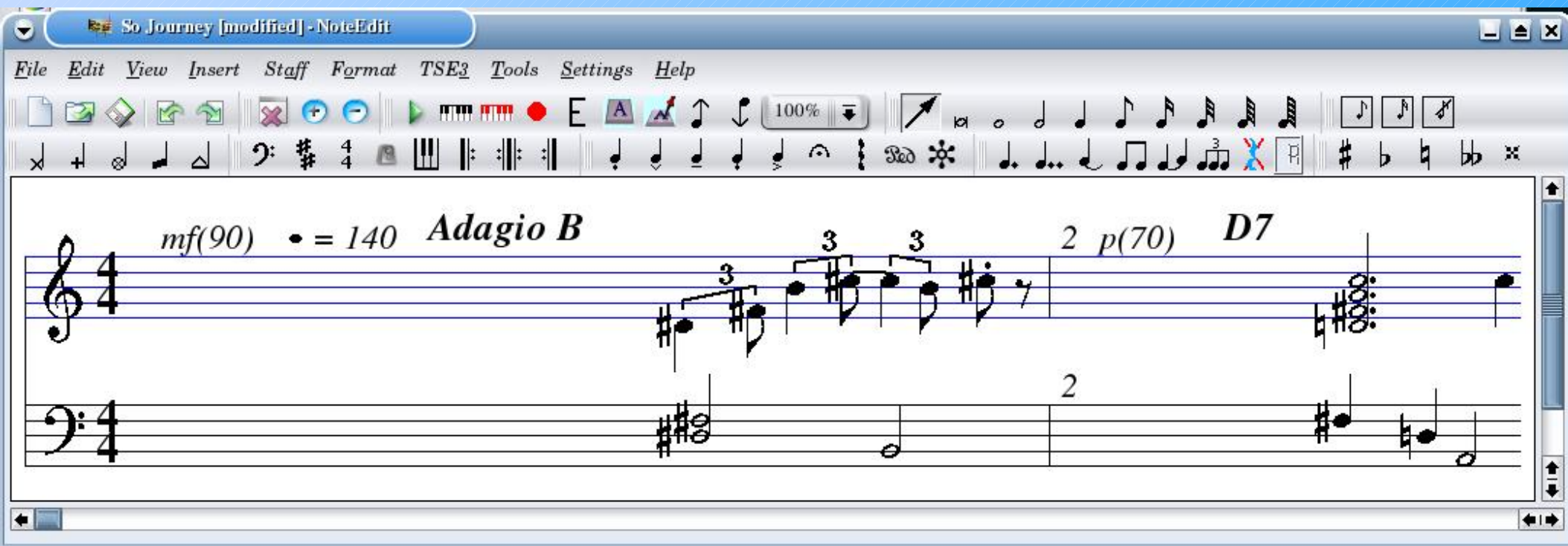
# FOSS Multimedia

This presentation describes the FOSS tools used to create a mock-up of a music video being developed. Unfortunately, the mock-up uses pictures that are copyrighted and will not be released. If you were not at the CALUG meeting, you will have to contact Jim Sansing to have it played, or wait for the final video.

# FOSS Multimedia

## Transcribing Music

NoteEdit is a front-end for LilyPond (shown later).

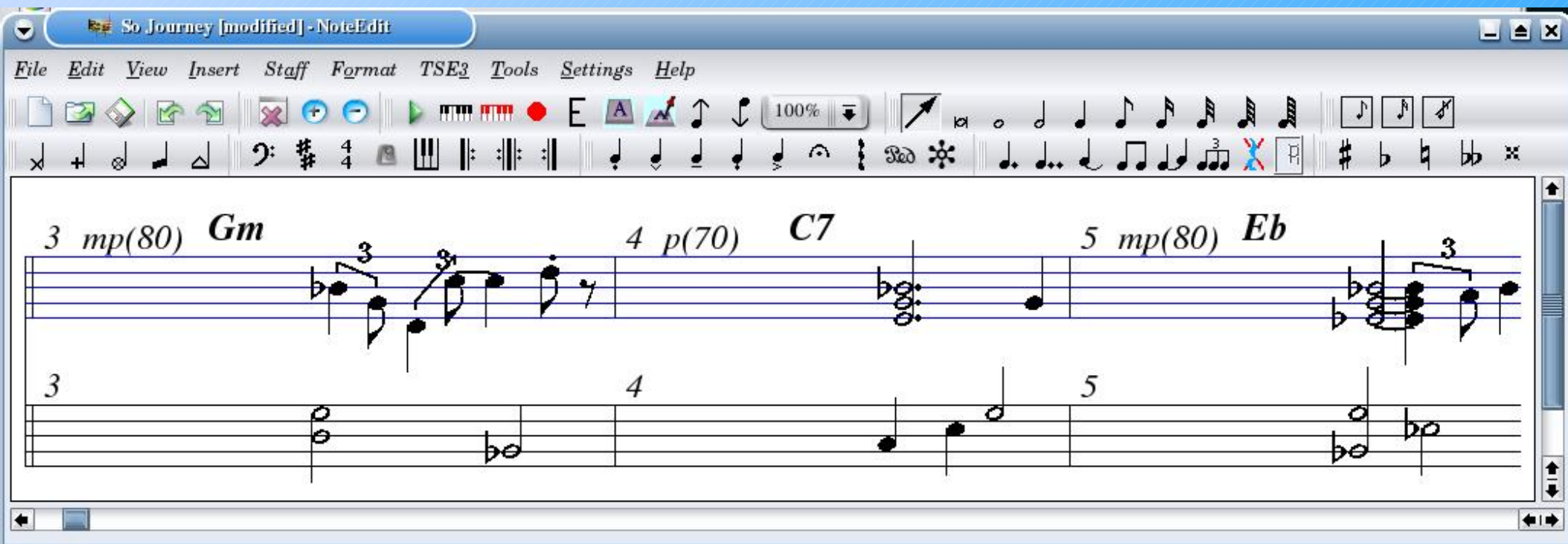


The screenshot displays the NoteEdit application window titled "So Journey [modified] - NoteEdit". The interface includes a menu bar with "File", "Edit", "View", "Insert", "Staff", "Format", "TSE3", "Tools", "Settings", and "Help". Below the menu is a toolbar with various icons for file operations, playback, and editing. The main workspace shows a musical score for two staves in 4/4 time. The top staff is in treble clef and the bottom staff is in bass clef. The score begins with the tempo marking "mf(90) • = 140 Adagio B". The first staff contains a melodic line with two triplet markings (indicated by "3" above the notes) and a fermata. The second staff contains a bass line with a "2" marking above a note. The score concludes with a dynamic marking "p(70)" and a chord symbol "D7".

# FOSS Multimedia

## Transcribing Music

NoteEdit is a front-end for LilyPond (shown later).

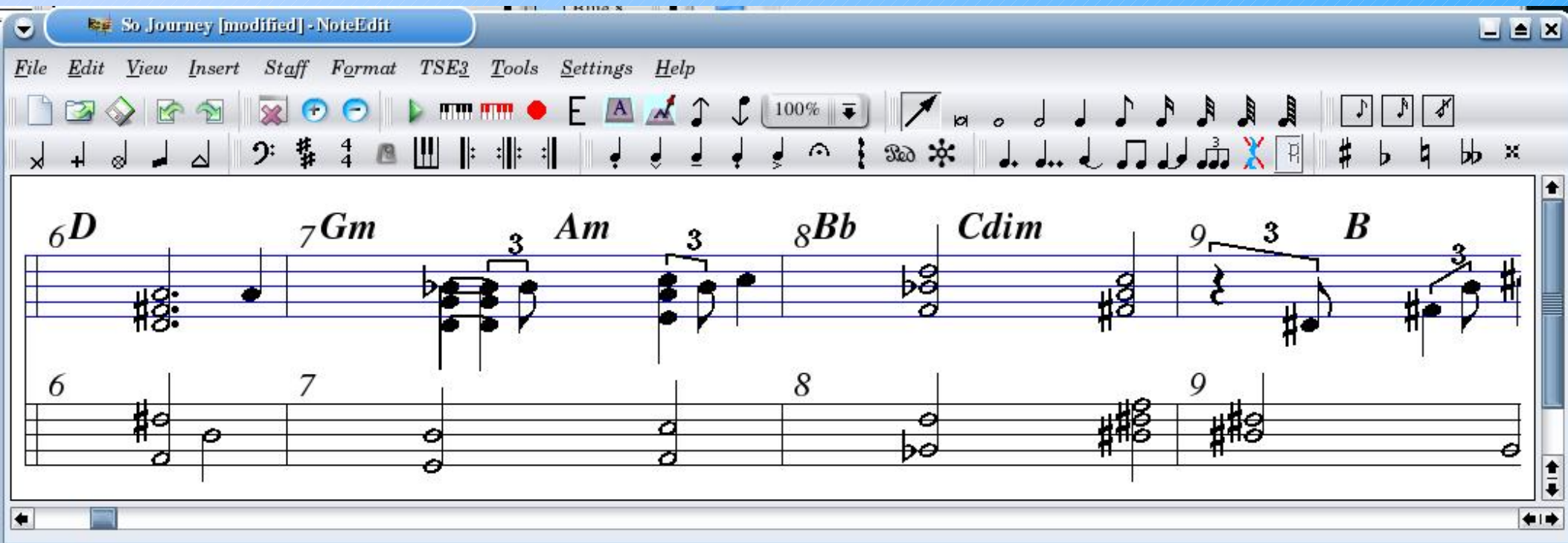


The screenshot displays the NoteEdit application window titled "So Journey [modified] - NoteEdit". The interface includes a menu bar with "File", "Edit", "View", "Insert", "Staff", "Format", "TSE3", "Tools", "Settings", and "Help". Below the menu is a toolbar with various icons for file operations, playback, and editing. The main workspace shows two staves of musical notation. The top staff contains three measures: measure 3 with dynamics *mp(80)* and chord *Gm*, measure 4 with dynamics *p(70)* and chord *C7*, and measure 5 with dynamics *mp(80)* and chord *Eb*. The bottom staff shows the bass line for these measures, with measure numbers 3, 4, and 5 indicated above the notes. The notation includes various note values, rests, and articulation marks.

# FOSS Multimedia

## Transcribing Music

NoteEdit is a front-end for LilyPond (shown later).

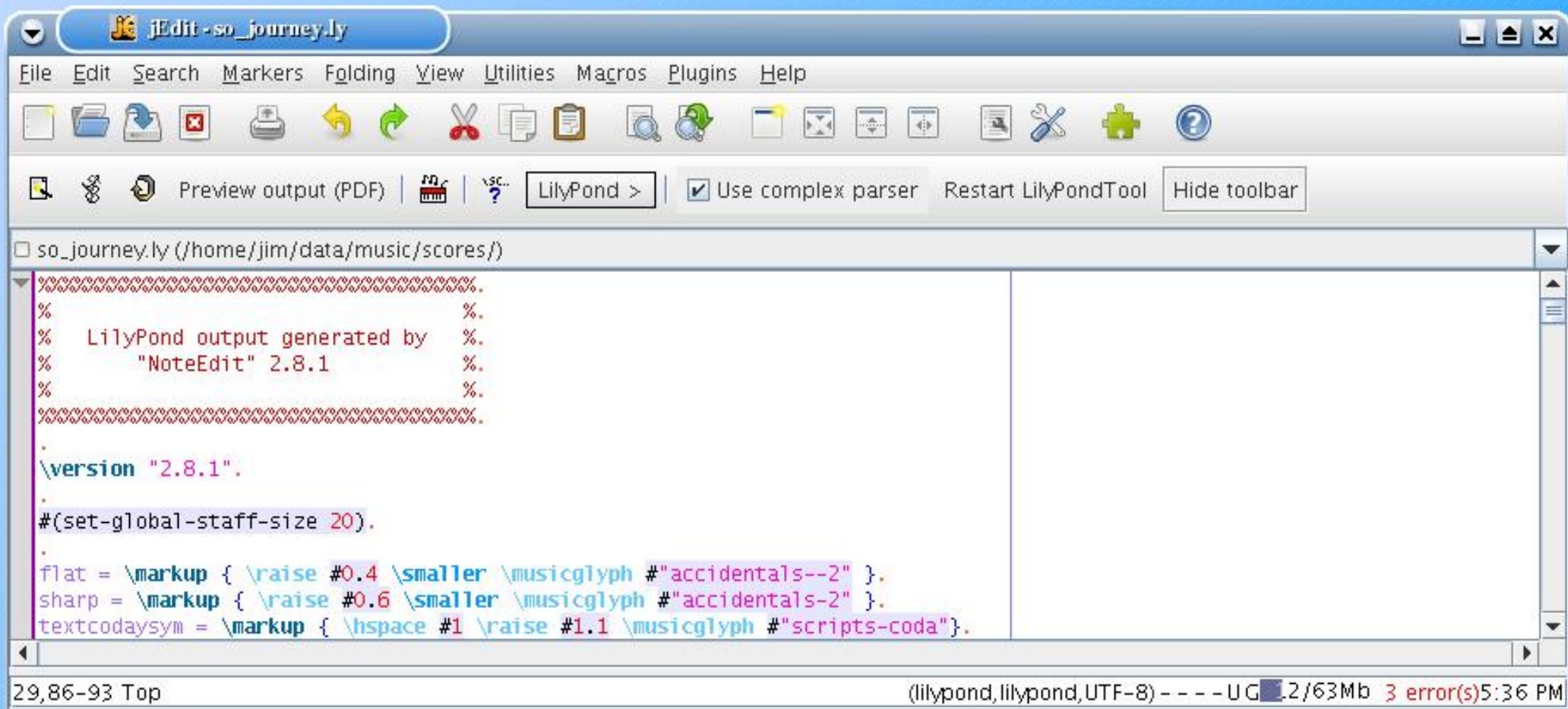


The screenshot displays the NoteEdit application window titled "So Journey [modified] - NoteEdit". The interface includes a menu bar with "File", "Edit", "View", "Insert", "Staff", "Format", "TSE3", "Tools", "Settings", and "Help". Below the menu is a toolbar with various icons for file operations, playback, and editing. The main workspace shows a musical score for two staves. The top staff contains chords and melodic lines with triplets and a slur. The bottom staff contains a bass line with measures numbered 6 through 9. The chords are labeled as 6D, 7Gm, Am, 8Bb, Cdim, 9, and B. The score is displayed in a clean, professional layout with a white background and black notation.

# FOSS Multimedia

## Transcribing Music

LilyPond is a music transcription program. The input is a text file, shown here in JEdit, which has a plugin for LilyPond.



The screenshot shows the JEdit text editor window titled "jEdit - so\_journey.ly". The menu bar includes File, Edit, Search, Markers, Folding, View, Utilities, Macros, Plugins, and Help. The toolbar contains various icons for file operations and editing. A plugin toolbar at the bottom of the menu bar includes "Preview output (PDF)", "LilyPond >", "Use complex parser" (checked), "Restart LilyPondTool", and "Hide toolbar". The main text area displays the following LilyPond code:

```
#####.
%                               %.
% LilyPond output generated by  %.
% "NoteEdit" 2.8.1              %.
%                               %.
#####.
.
\version "2.8.1".
.
#(set-global-staff-size 20).
.
flat = \markup { \raise #0.4 \smaller \musicglyph #"accidentals--2" }.
sharp = \markup { \raise #0.6 \smaller \musicglyph #"accidentals-2" }.
textcodaysym = \markup { \hspace #1 \raise #1.1 \musicglyph #"scripts-coda"}.
```

The status bar at the bottom shows "29,86-93 Top" on the left and "(lilypond, lilypond, UTF-8) - - - UG 1.2/63Mb 3 error(s) 5:36 PM" on the right.

# FOSS Multimedia

## Transcribing Music

LilyPond is a music transcription program. The input is a text file, shown here in JEdit, which has a plugin for LilyPond.

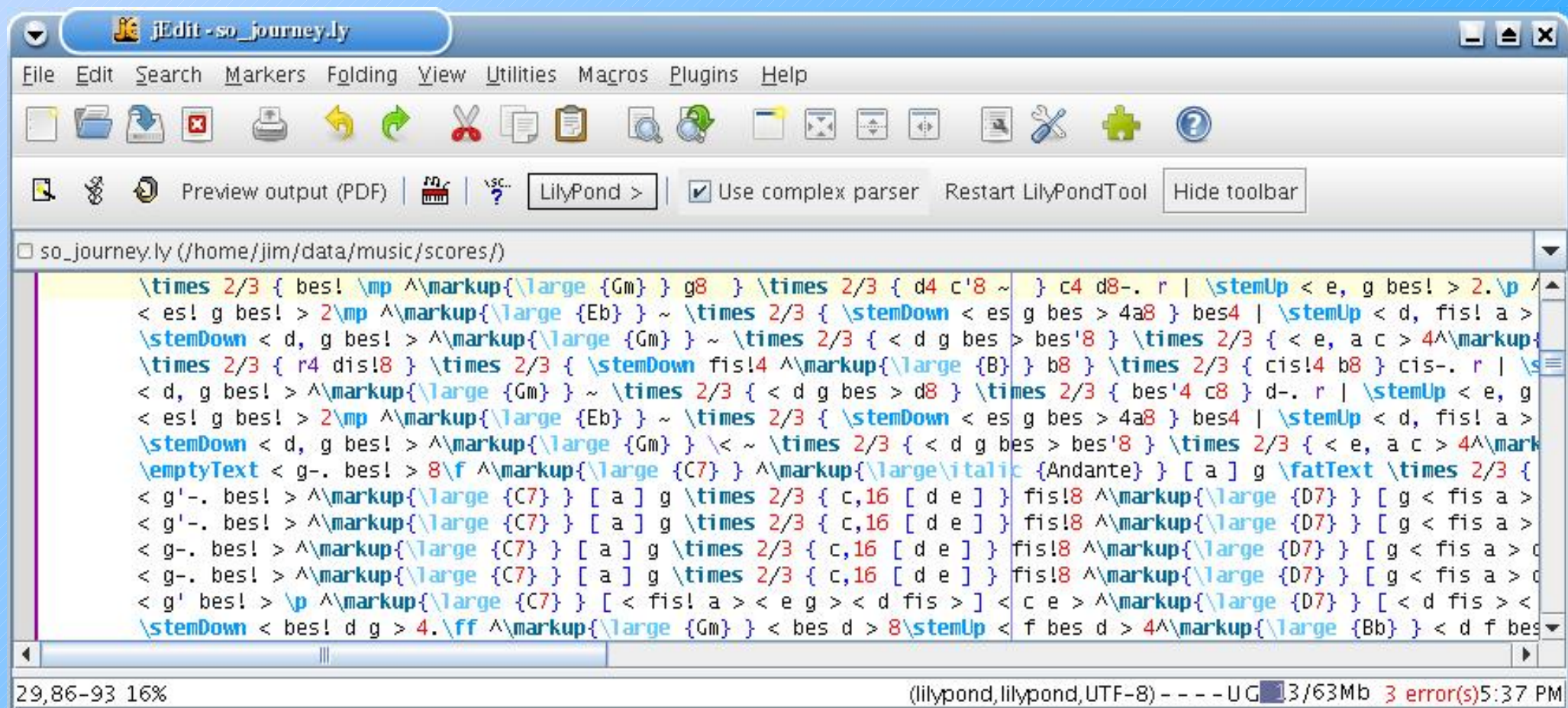
```
jEdit - so_journey.ly
File Edit Search Markers Folding View Utilities Macros Plugins Help
Preview output (PDF) LilyPond > Use complex parser Restart LilyPondTool Hide toolbar
so_journey.ly (/home/jim/data/music/scores/)
\header {
  title = "So Journey ".
  composer = "Jim Sansing ".
  copyright = "2004 Jim Sansing ".
}.
StaffA = \relative c' {
  \set Voice.autoBeaming = ##f.
  \clef G.
  \time 4/4 .
  \times 2/3 { \stemDown dis!4 \mf \markup{\large {B}} ^\markup{\large\italic {Adagio}} fis!8 } \fatText \times 2/3
  \times 2/3 { bes! \mp \markup{\large {Gm}} g8 } \times 2/3 { d4 c'8 ~ } c4 d8-. | \stemUp < e, g bes! > 2. \p /
  < es! g bes! > 2 \mp \markup{\large {Eb}} ~ \times 2/3 { \stemDown < es g bes > 4a8 } bes4 | \stemUp < d, fis! a >
}
```

29,86-93 9% (lilypond, lilypond, UTF-8) - - - - UG 13/63Mb 3 error(s) 5:36 PM

# FOSS Multimedia

## Transcribing Music

LilyPond is a music transcription program. The input is a text file, shown here in JEdit, which has a plugin for LilyPond.



The screenshot shows the JEdit text editor window titled "jEdit - so\_journey.ly". The menu bar includes File, Edit, Search, Markers, Folding, View, Utilities, Macros, Plugins, and Help. The toolbar contains various icons for file operations and editing. Below the toolbar, there are buttons for "Preview output (PDF)", "LilyPond >", "Use complex parser" (checked), "Restart LilyPondTool", and "Hide toolbar". The main text area displays LilyPond source code for a music score, with the file path "/home/jim/data/music/scores/so\_journey.ly" shown in the status bar. The code includes musical notation such as notes, rests, and dynamic markings, along with LilyPond-specific commands like `\times`, `\mp`, `\stemUp`, `\stemDown`, `\markup`, `\large`, `\italic`, `\fatText`, `\ff`, and `\Bb`. The status bar at the bottom indicates the current position in the file (29,86-93) and the zoom level (16%).

```
\times 2/3 { bes! \mp \markup{\large {Gm}} g8 } \times 2/3 { d4 c'8 ~ } c4 d8-. r | \stemUp < e, g bes! > 2.\vp /
< es! g bes! > 2\mp \markup{\large {Eb}} ~ \times 2/3 { \stemDown < es g bes > 4a8 } bes4 | \stemUp < d, fis! a >
\stemDown < d, g bes! > \markup{\large {Gm}} ~ \times 2/3 { < d g bes > bes'8 } \times 2/3 { < e, a c > 4\markup{
\times 2/3 { r4 dis!8 } \times 2/3 { \stemDown fis!4 \markup{\large {B}} } b8 } \times 2/3 { cis!4 b8 } cis-. r | \s
< d, g bes! > \markup{\large {Gm}} ~ \times 2/3 { < d g bes > d8 } \times 2/3 { bes'4 c8 } d-. r | \stemUp < e, g
< es! g bes! > 2\mp \markup{\large {Eb}} ~ \times 2/3 { \stemDown < es g bes > 4a8 } bes4 | \stemUp < d, fis! a >
\stemDown < d, g bes! > \markup{\large {Gm}} \< ~ \times 2/3 { < d g bes > bes'8 } \times 2/3 { < e, a c > 4\mark
\emptyText < g-. bes! > 8\ff \markup{\large {C7}} \markup{\large \italic {Andante}} [ a ] g \fatText \times 2/3 {
< g'-. bes! > \markup{\large {C7}} [ a ] g \times 2/3 { c,16 [ d e ] } fis!8 \markup{\large {D7}} [ g < fis a >
< g'-. bes! > \markup{\large {C7}} [ a ] g \times 2/3 { c,16 [ d e ] } fis!8 \markup{\large {D7}} [ g < fis a >
< g-. bes! > \markup{\large {C7}} [ a ] g \times 2/3 { c,16 [ d e ] } fis!8 \markup{\large {D7}} [ g < fis a > d
< g-. bes! > \markup{\large {C7}} [ a ] g \times 2/3 { c,16 [ d e ] } fis!8 \markup{\large {D7}} [ g < fis a > d
< g' bes! > \vp \markup{\large {C7}} [ < fis! a > < e g > < d fis > ] < c e > \markup{\large {D7}} [ < d fis > <
\stemDown < bes! d g > 4.\ff \markup{\large {Gm}} < bes d > 8\stemUp < f bes d > 4\markup{\large {Bb}} < d f bes
```

# FOSS Multimedia

## Transcribing Music

The output of LilyPond is a PDF file.

**So Journey** Jim Sansing

*Adagio*

The image displays a musical score for the piece "So Journey" by Jim Sansing. The score is presented in three systems, each with a treble and bass staff. The key signature is one sharp (F#) and the time signature is common time (C). The tempo is marked "Adagio".

**System 1:** Treble clef. Chords: B, D7, Gm, C7. Dynamics: *mf*, *p*, *mp*, *p*. Includes the instruction "Forward, hold" and slurs over the first three measures.

**System 2:** Treble clef. Chords: Eb, D, Gm, Am, Bb, Cdim, B. Dynamics: *mp*. Includes slurs over the first and last measures.

**System 3:** Treble clef. Chords: D7, Gm, C7, Eb, D, Gm, Am. Dynamics: *p*, *mp*. Includes slurs over the first and last measures.

The bass staff in all systems contains chords and rests, with some measures marked with a double bar line and a star symbol.

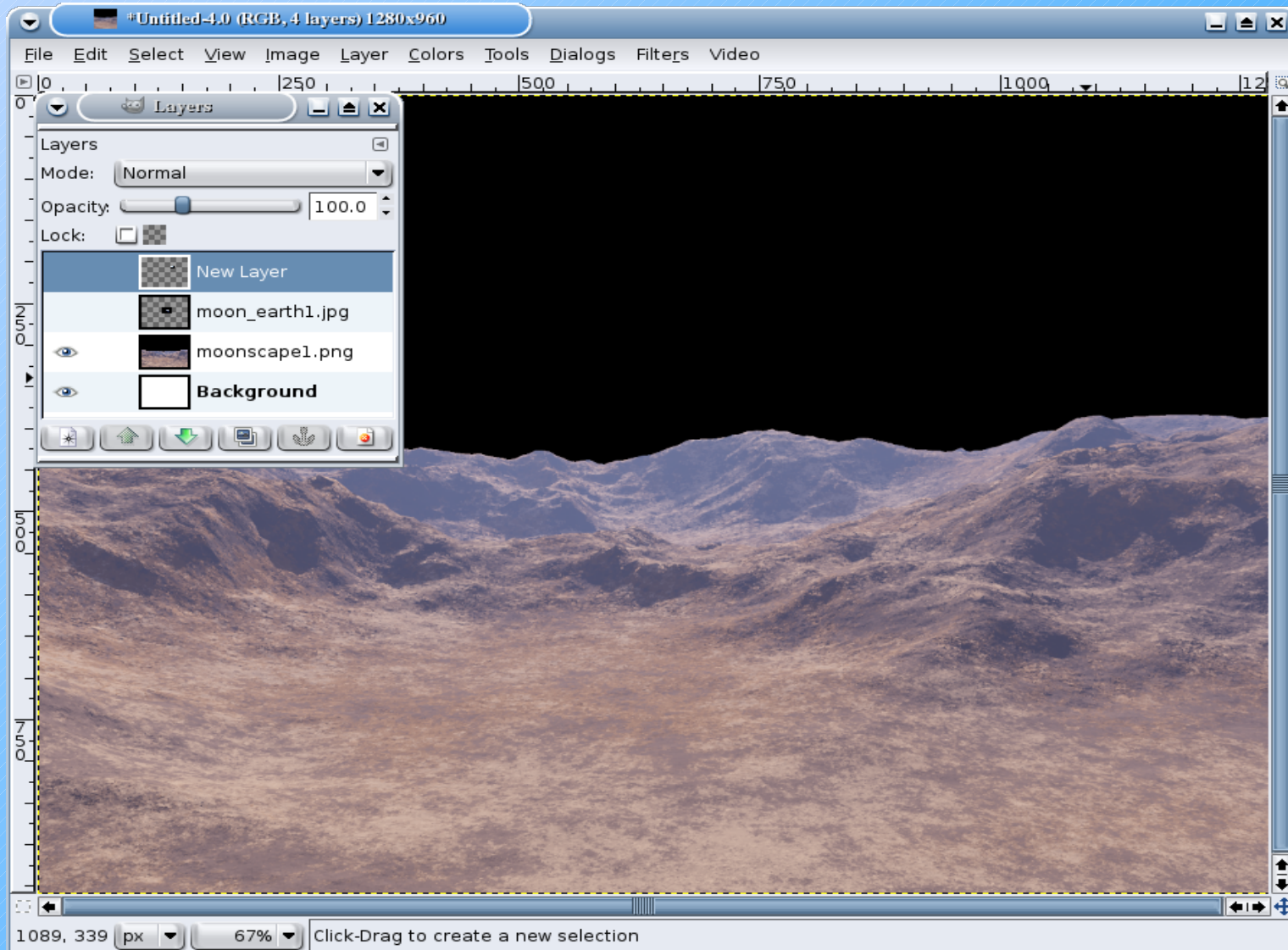
*Andante*



# FOSS Multimedia

## Editing Pictures

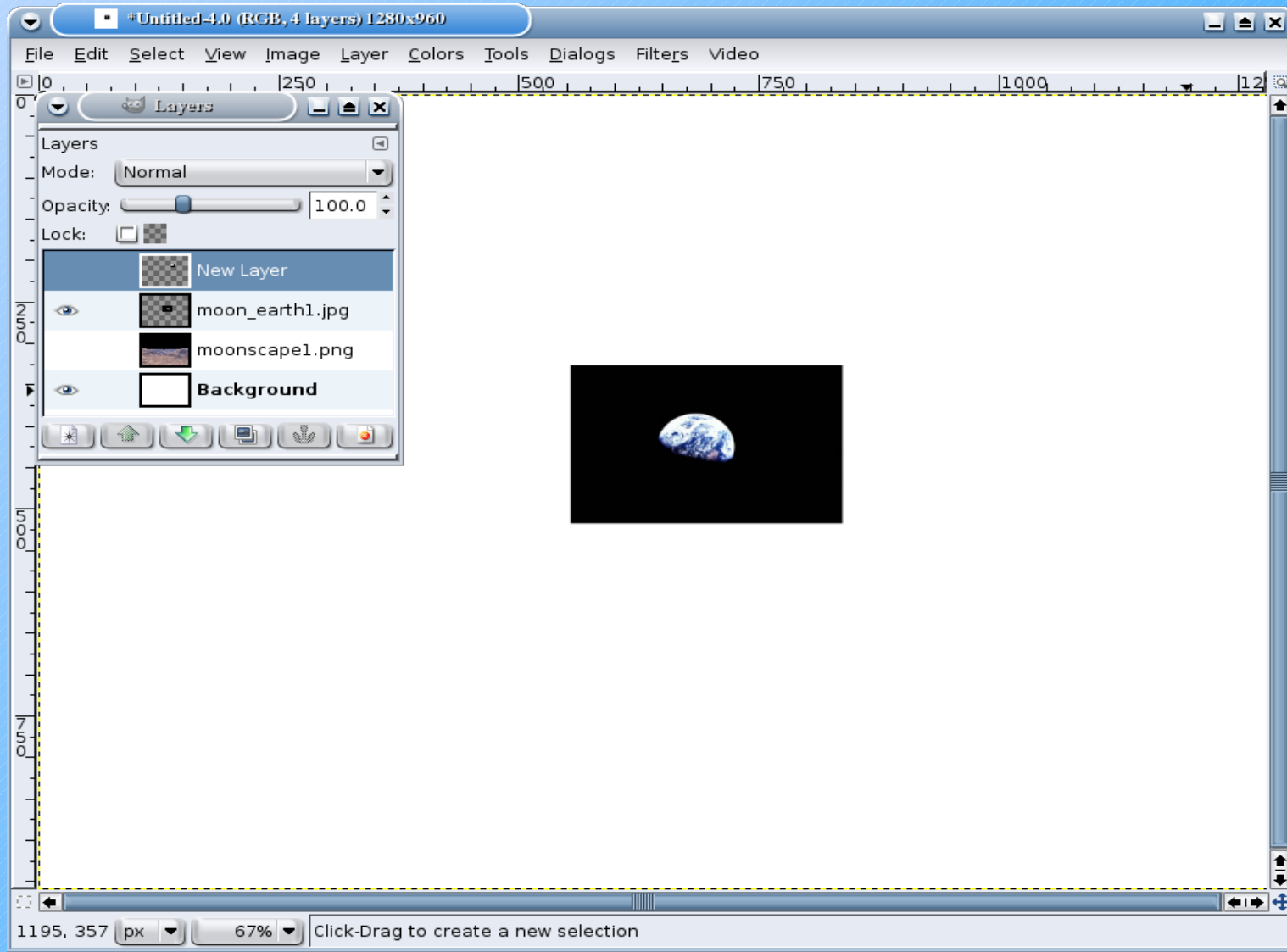
The GIMP allows multiple pictures to be merged.



# FOSS Multimedia

## Editing Pictures

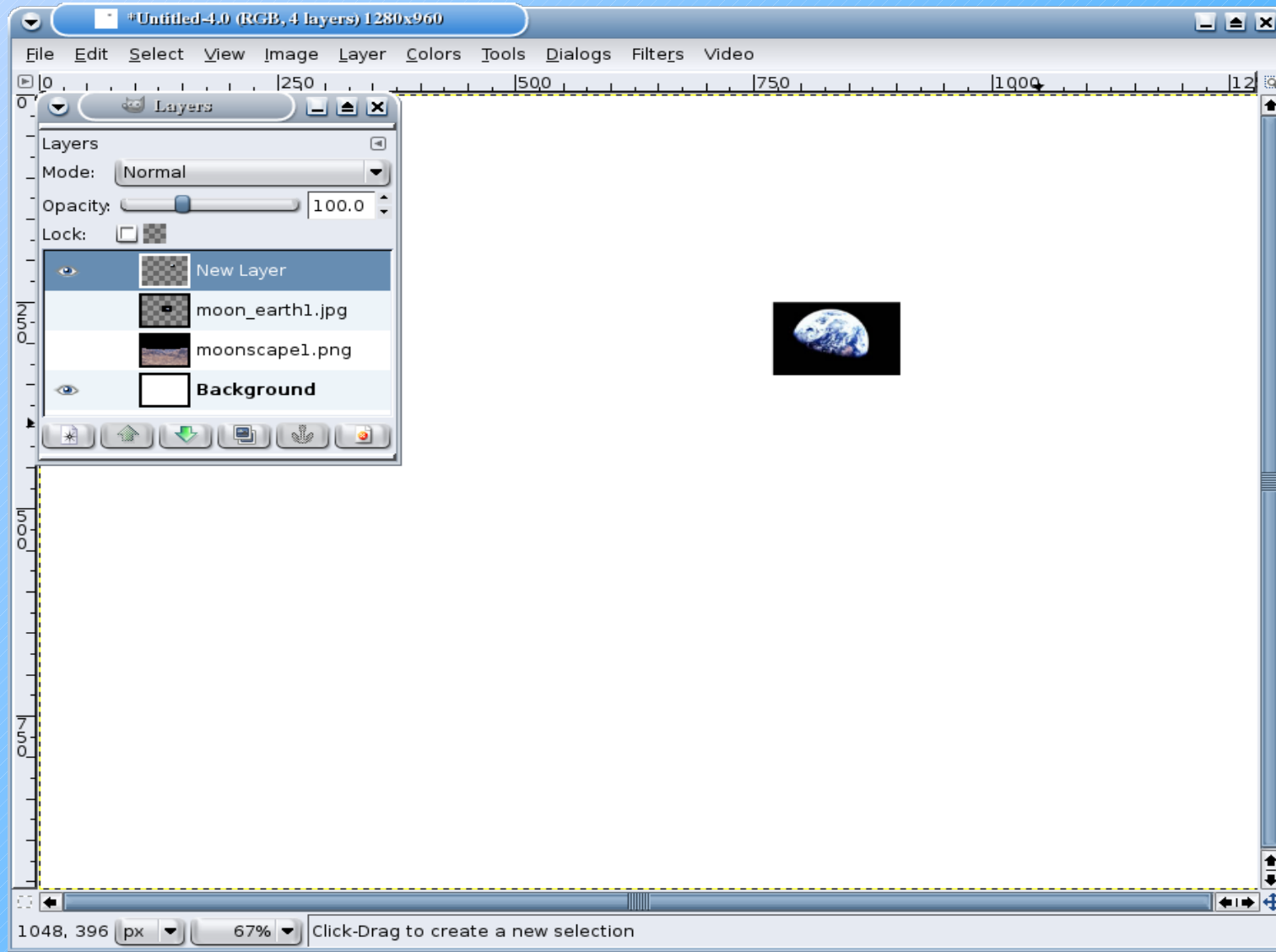
The GIMP allows multiple pictures to be merged.



# FOSS Multimedia

## Editing Pictures

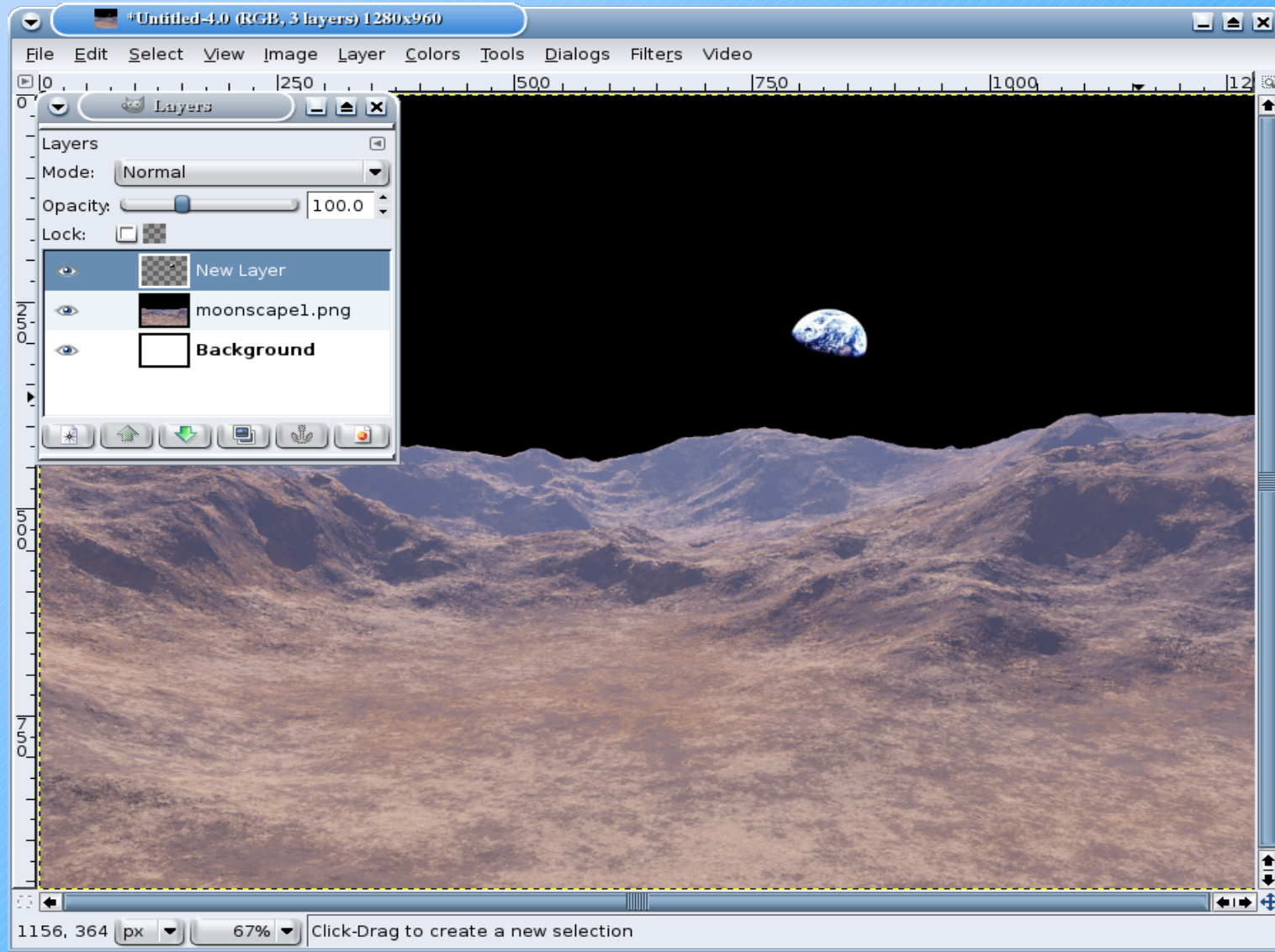
The GIMP allows multiple pictures to be merged.



# FOSS Multimedia

## Editing Pictures

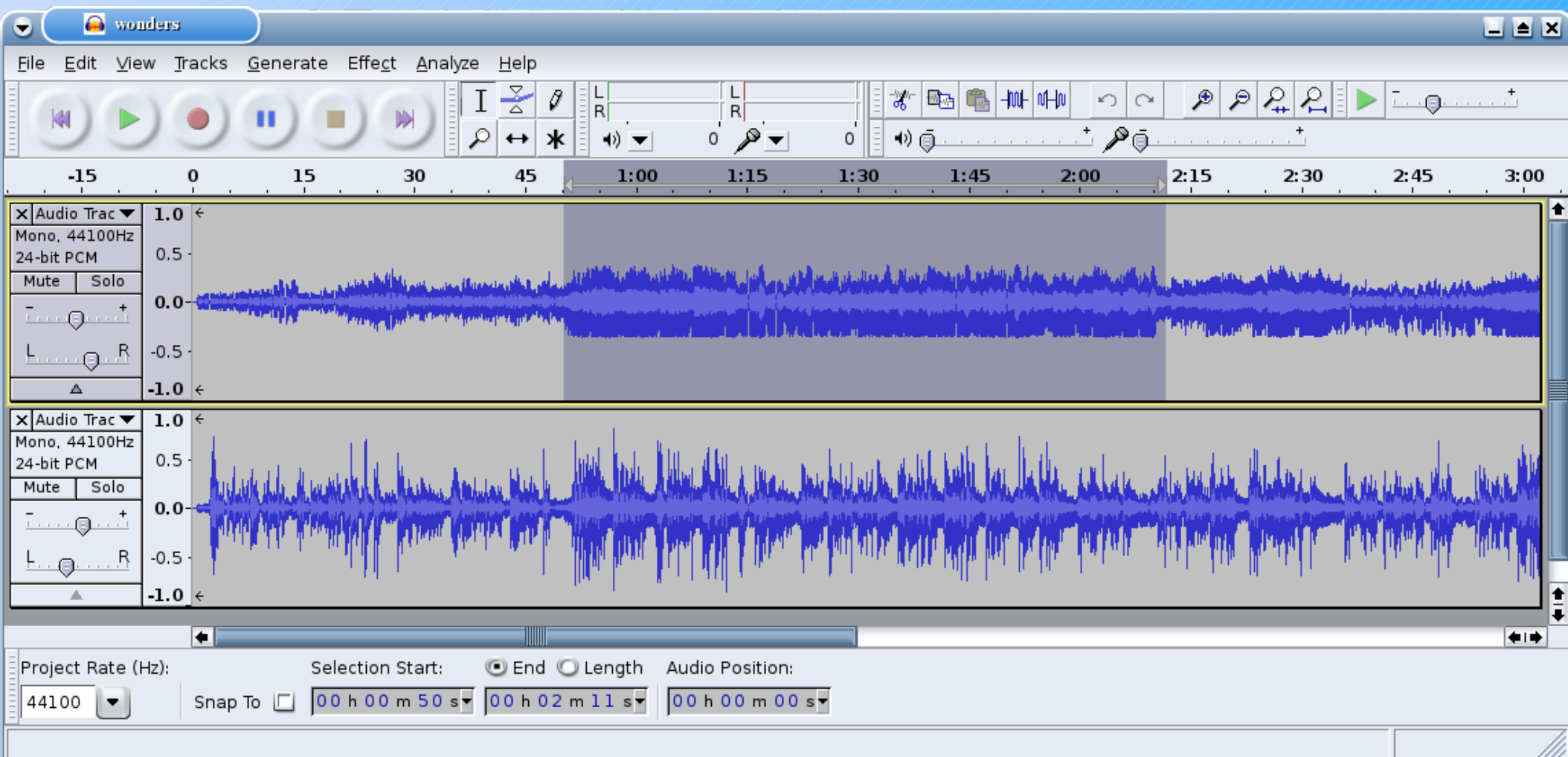
The GIMP allows multiple pictures to be merged.



# FOSS Multimedia

## Editing Pictures

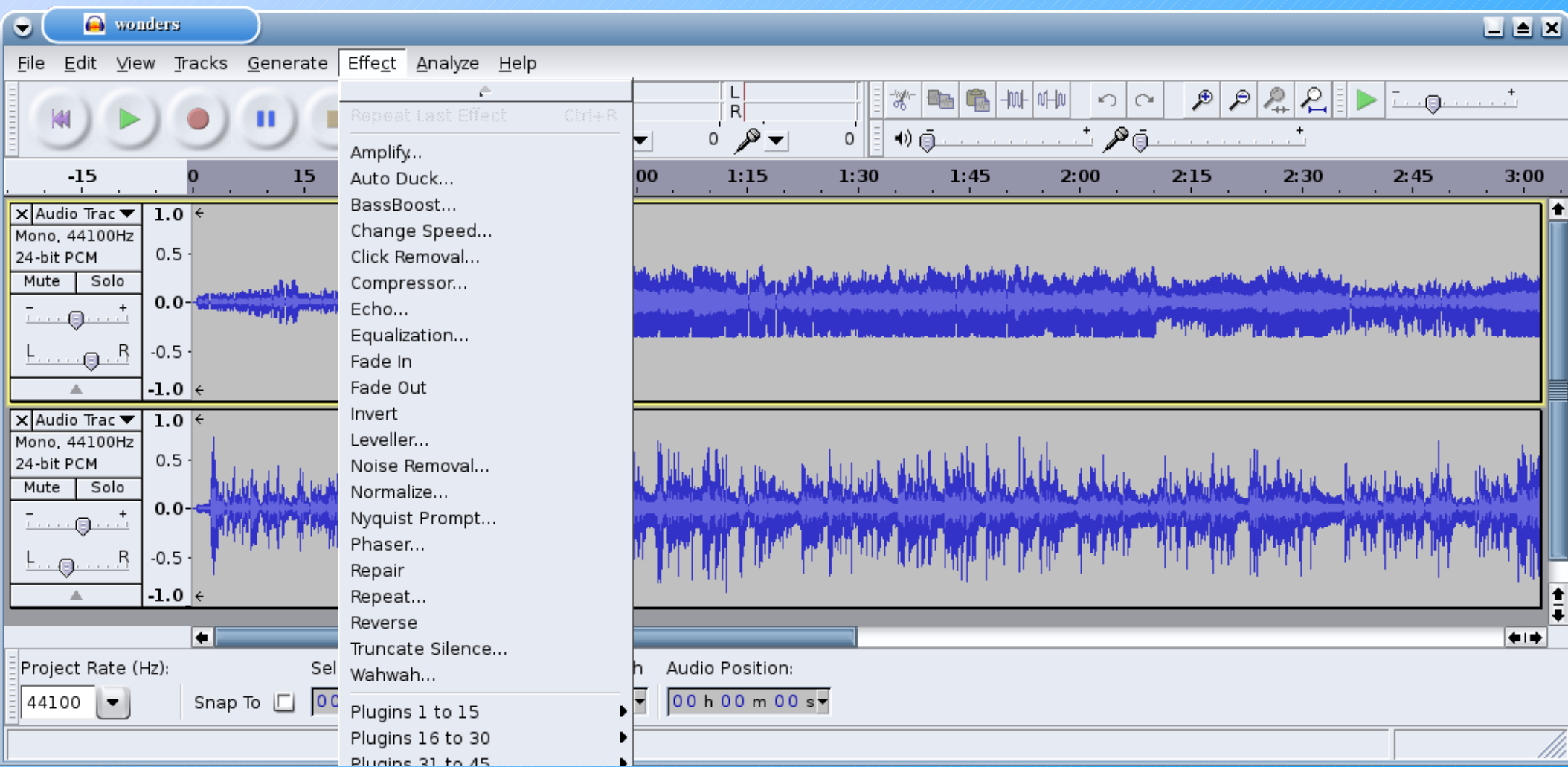
Audacity is a sophisticated audio editing system.



# FOSS Multimedia

## Editing Pictures

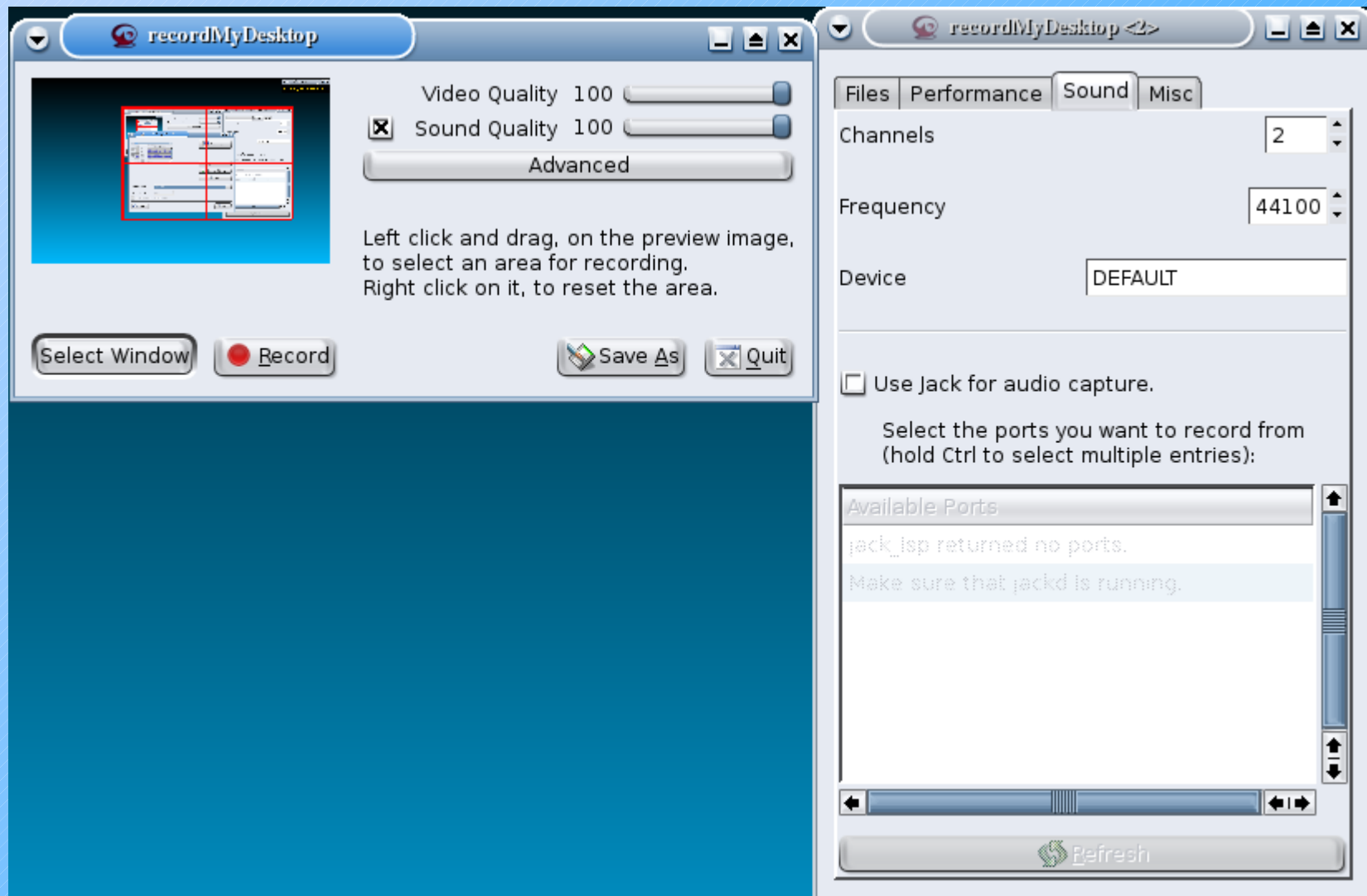
Audacity is a sophisticated audio editing system.



# FOSS Multimedia

## Editing Pictures

Record My Desktop creates screen casts for demos.



# FOSS Multimedia

The FOSS projects described in this presentation were:

- NoteEdit
  - <http://noteedit.berlios.de/>
- LilyPond
  - <http://lilypond.org/>
- GIMP
  - <http://www.gimp.org/>
- Audacity
  - <http://audacity.sourceforge.net/>
- Record my desktop
  - <http://recordmydesktop.sourceforge.net>



# FOSS Multimedia

This presentation describes the FOSS tools used to create a mock-up of a music video being developed. Unfortunately, the mock-up uses pictures that are copyrighted and will not be released. If you were not at the CALUG meeting, you will have to contact Jim Sansing to have it played, or wait for the final video.

# FOSS Multimedia

## Transcribing Music

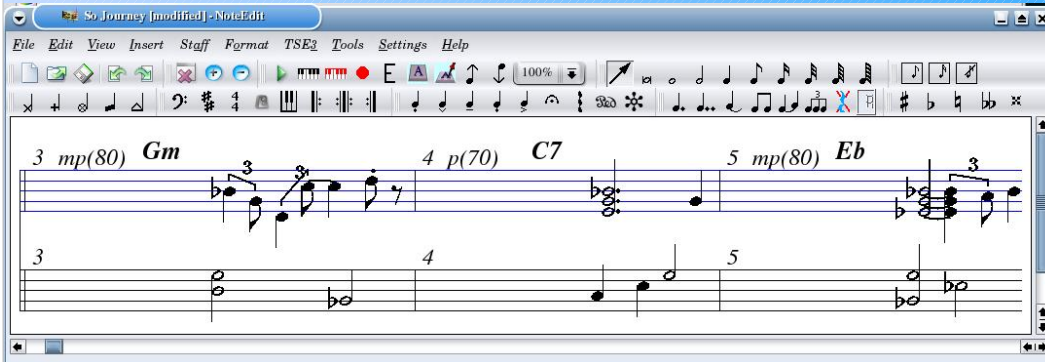
NoteEdit is a front-end for LilyPond (shown later).



# FOSS Multimedia

## Transcribing Music

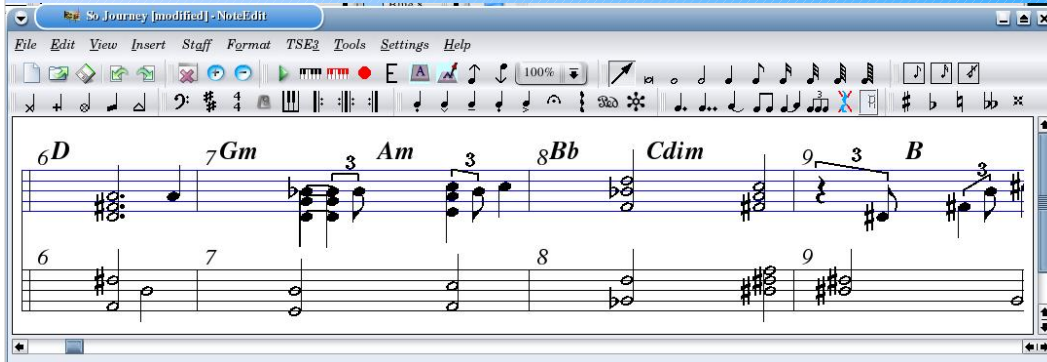
NoteEdit is a front-end for LilyPond (shown later).



# FOSS Multimedia

## Transcribing Music

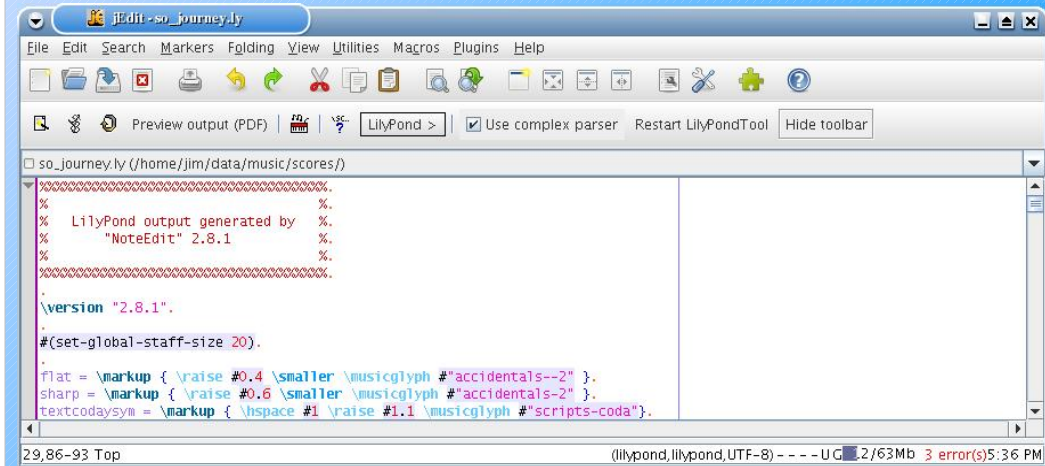
NoteEdit is a front-end for LilyPond (shown later).



# FOSS Multimedia

## Transcribing Music

LilyPond is a music transcription program. The input is a text file, shown here in JEdit, which has a plugin for LilyPond.



The screenshot shows the JEdit editor window titled "JEdit - so\_journey.ly". The menu bar includes File, Edit, Search, Markers, Folding, View, Utilities, Macros, Plugins, and Help. The toolbar contains various icons for file operations and editing. Below the toolbar, there are buttons for "Preview output (PDF)", "LilyPond >", "Use complex parser", "Restart LilyPondTool", and "Hide toolbar". The main text area displays the following LilyPond code:

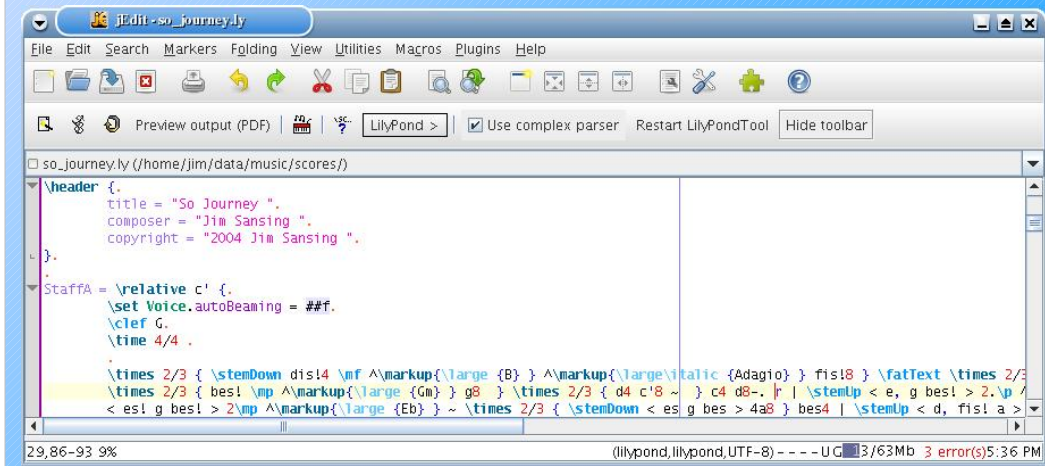
```
so_journey.ly (/home/jim/data/music/scores/)  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
%                               %  
% LilyPond output generated by %  
% "NoteEdit" 2.8.1             %  
%                               %  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
.  
\version "2.8.1".  
#(set-global-staff-size 20).  
flat = \markup { \raise #0.4 \smaller \musicglyph #"accidentals--2" }.  
sharp = \markup { \raise #0.6 \smaller \musicglyph #"accidentals-2" }.  
textcodaysyn = \markup { \hspace #1 \raise #1.1 \musicglyph #"scripts-coda" }.
```

The status bar at the bottom indicates "29,86-93 Top" and "(lilypond,lilypond,UTF-8) --- U G 2/63Mb 3 error(s) 5:36 PM".

# FOSS Multimedia

## Transcribing Music

LilyPond is a music transcription program. The input is a text file, shown here in JEdit, which has a plugin for LilyPond.



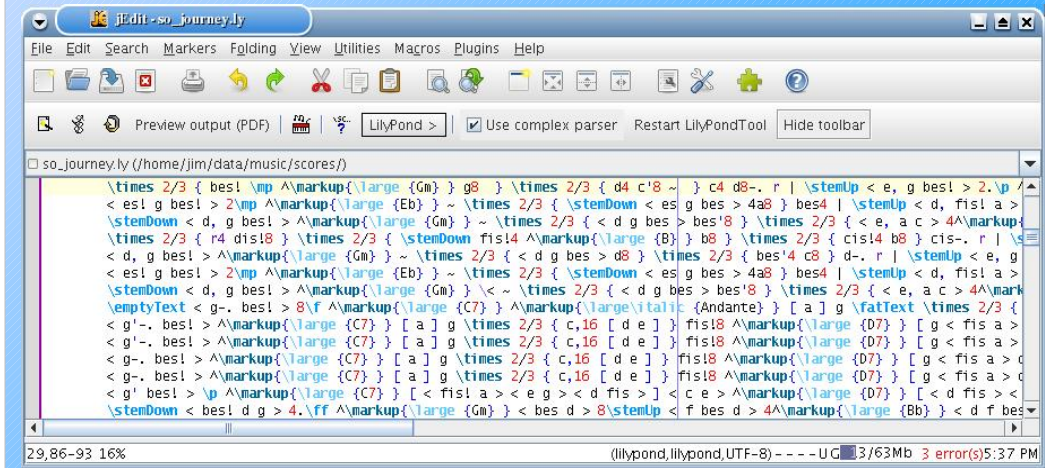
```
so_journey.ly (/home/jim/data/music/scores/)  
▼ header {  
  title = "So Journey "  
  composer = "Jim Sansing "  
  copyright = "2004 Jim Sansing "  
}.  
▼ StaffA = \relative c' {  
  \set Voice.autoBeaming = ##f.  
  \clef G.  
  \time 4/4 .  
  .  
  \times 2/3 { \stemDown dis!4 \mf \markup{\large {B} } \markup{\large\italic {Adagio} } fis!8 } \fatText \times 2/3  
  \times 2/3 { bes! \mp \markup{\large {Gm} } g8 } \times 2/3 { d4 c'8 ~ } c4 d8-. | \stemUp < e, g bes! > 2.\p /  
  < es! g bes! > 2.\mp \markup{\large {Eb} } ~ \times 2/3 { \stemDown < es g bes > 4a8 } bes4 | \stemUp < d, fis! a >
```

29,86-93 9% (lilypond,lilypond.UTF-8) --- U G 3/63Mb 3 error(s)5:36 PM

# FOSS Multimedia

## Transcribing Music

LilyPond is a music transcription program. The input is a text file, shown here in JEdit, which has a plugin for LilyPond.



The screenshot shows the JEdit text editor with a LilyPond score file open. The editor's title bar reads "JEdit - so\_journey.ly". The menu bar includes "File", "Edit", "Search", "Markers", "Folding", "View", "Utilities", "Macros", "Plugins", and "Help". The toolbar contains various icons for file operations and editing. Below the toolbar, there are buttons for "Preview output (PDF)", "LilyPond >", "Use complex parser", "Restart LilyPondTool", and "Hide toolbar". The main text area displays LilyPond source code for a music score, including notes, rests, and dynamic markings. The status bar at the bottom shows "29,86-93 16%" and "(lilypond,lilypond,UTF-8) --- U C 3/63Mb 3 error(s):3:7 PM".

```
\times 2/3 { bes! \mp \markup{\large {Gm}} g8 } \times 2/3 { d4 c'8 ~ } c4 d8-. r | \stemUp < e, g bes! > 2.\p /
< es! g bes! > 2\mp \markup{\large {Eb}} ~ \times 2/3 { \stemDown < es g bes > 4a8 } bes4 | \stemUp < d, fis! a >
\stemDown < d, g bes! > \markup{\large {Gm}} ~ \times 2/3 { < d g bes > bes'8 } \times 2/3 { < e, a c > 4\markup{
\times 2/3 { r4 dis!8 } \times 2/3 { \stemDown fis!4 \markup{\large {B}} } b8 } \times 2/3 { cis!4 b8 } cis-. r | \s
< d, g bes! > \markup{\large {Gm}} ~ \times 2/3 { < d g bes > d8 } \times 2/3 { bes'4 c8 } d-. r | \stemUp < e, g
< es! g bes! > 2\mp \markup{\large {Eb}} ~ \times 2/3 { \stemDown < es g bes > 4a8 } bes4 | \stemUp < e, g
\stemDown < d, g bes! > \markup{\large {Gm}} \times 2/3 { < d g bes > bes'8 } \times 2/3 { < e, a c > 4\mark
\emptyText < g-. bes! > 8\ff \markup{\large {C7}} \markup{\large\italic {Andante}} [ a ] g \fatText \times 2/3 {
< g'-. bes! > \markup{\large {C7}} [ a ] g \times 2/3 { c,16 [ d e ] } fis18 \markup{\large {D7}} [ g < fis a >
< g'-. bes! > \markup{\large {C7}} [ a ] g \times 2/3 { c,16 [ d e ] } fis18 \markup{\large {D7}} [ g < fis a >
< g'-. bes! > \markup{\large {C7}} [ a ] g \times 2/3 { c,16 [ d e ] } fis18 \markup{\large {D7}} [ g < fis a > d
< g' bes! > \markup{\large {C7}} [ a ] g \times 2/3 { c,16 [ d e ] } fis18 \markup{\large {D7}} [ g < fis a > d
< g' bes! > \p \markup{\large {C7}} [ < fis! a > < e g > < d fis > ] < c e > \markup{\large {D7}} [ < d fis > <
\stemDown < bes! d g > 4.\ff \markup{\large {Gm}} < bes d > 8\stemUp < f bes d > 4\markup{\large {Bb}} < d f bes
```

# FOSS Multimedia

## Transcribing Music

The output of LilyPond is a PDF file.

**So Journey** Jim Sansing

*Adagio*

Forward, ho!

5 Eb D Gm Am Bb Cdim B

10 D7 Gm C7 Eb D Gm Am

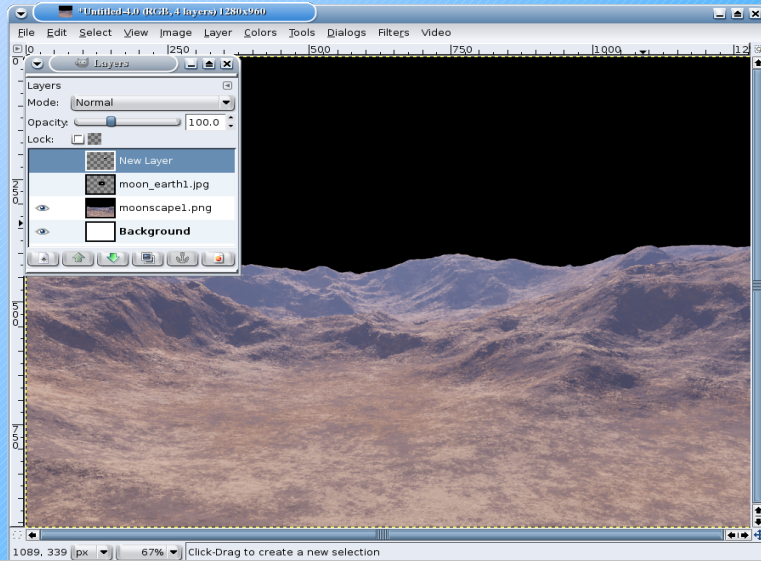
8



# FOSS Multimedia

## Editing Pictures

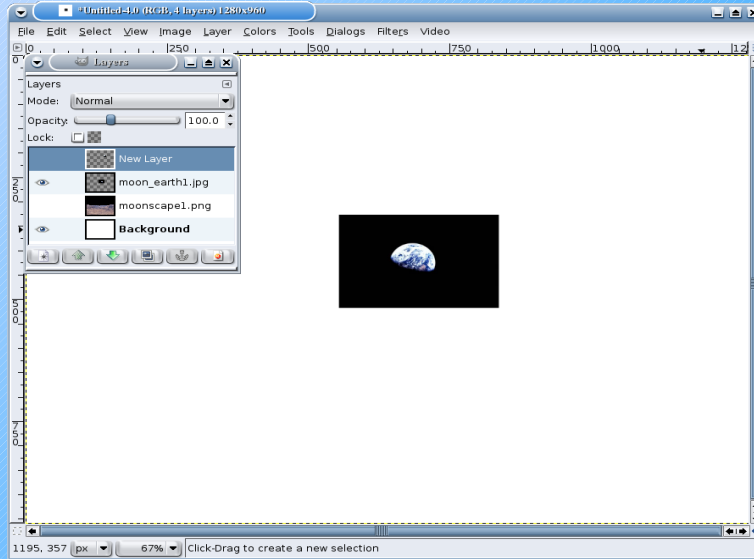
The GIMP allows multiple pictures to be merged.



# FOSS Multimedia

## Editing Pictures

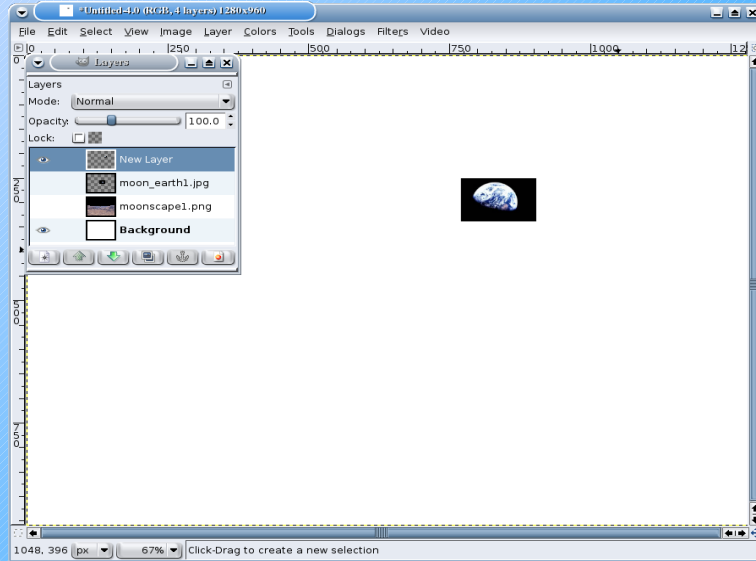
The GIMP allows multiple pictures to be merged.



# FOSS Multimedia

## Editing Pictures

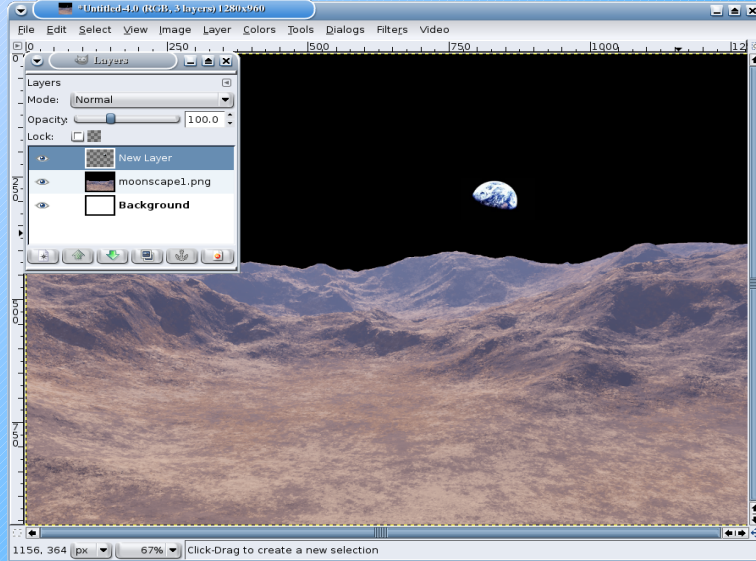
The GIMP allows multiple pictures to be merged.



# FOSS Multimedia

## Editing Pictures

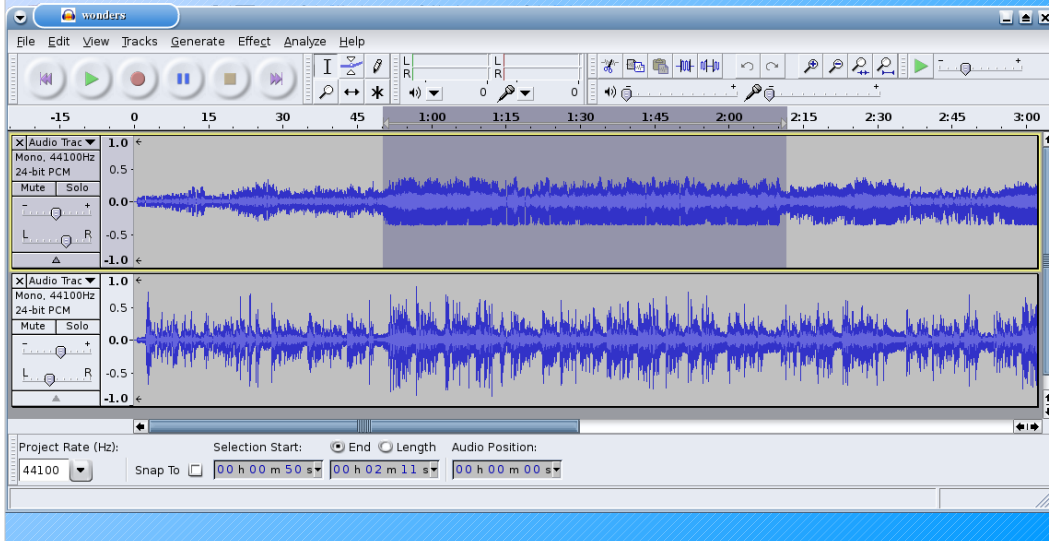
The GIMP allows multiple pictures to be merged.



# FOSS Multimedia

## Editing Pictures

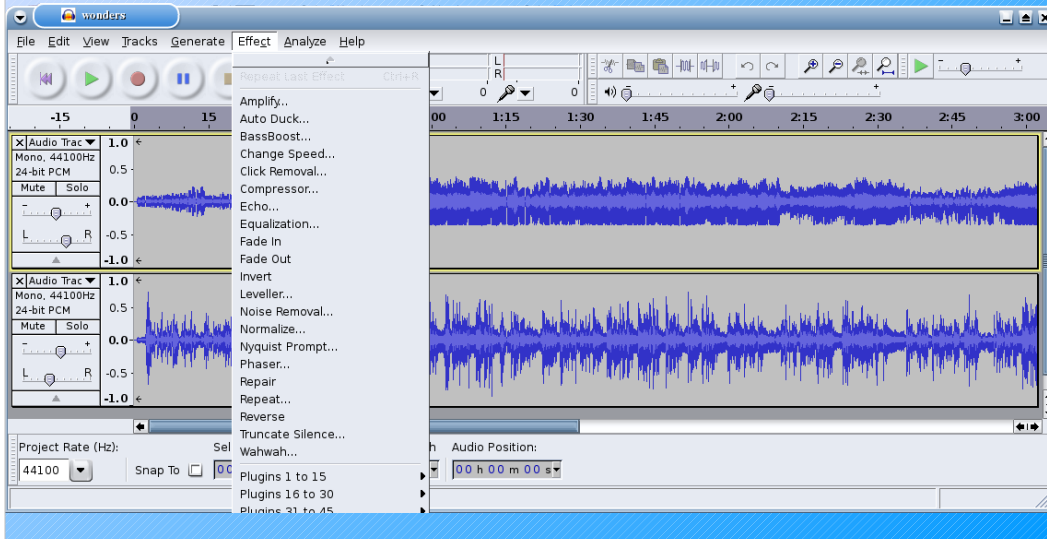
Audacity is a sophisticated audio editing system.



# FOSS Multimedia

## Editing Pictures

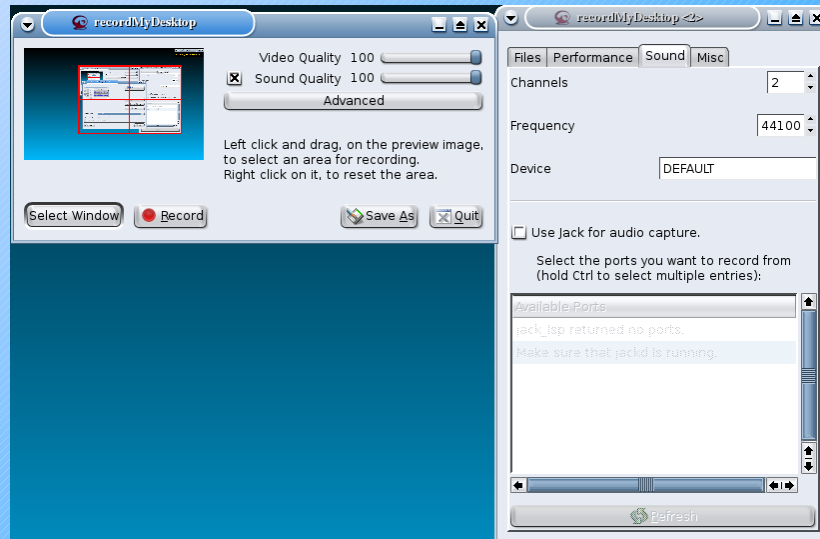
Audacity is a sophisticated audio editing system.



# FOSS Multimedia

## Editing Pictures

Record My Desktop creates screen casts for demos.



# FOSS Multimedia

The FOSS projects described in this presentation were:

- NoteEdit
  - <http://noteedit.berlios.de/>
- LilyPond
  - <http://lilypond.org/>
- GIMP
  - <http://www.gimp.org/>
- Audacity
  - <http://audacity.sourceforge.net/>
- Record my desktop
  - <http://recordmydesktop.sourceforge.net>