

Debian Edu / Skolelinux Audacity 手册

出版日期：2023-09-22

Contents

| | | |
|----------|---|-----------|
| 1 | Audacity 手册 | 1 |
| 2 | 开始之前 | 1 |
| 2.1 | 插件 | 2 |
| 2.2 | 从何处获取 Audacity | 2 |
| 3 | 进行一些录制 | 3 |
| 4 | 导入音频 | 9 |
| 5 | 工具部分 | 10 |
| 5.1 | 选择工具 | 10 |
| 5.2 | 缩放工具 | 11 |
| 5.3 | 包络工具 | 11 |
| 5.4 | 时间移动工具 | 12 |
| 6 | 版权与作者 | 13 |
| 7 | 附录 A ——GNU 公共许可证 | 13 |
| 7.1 | Audacity 手册 | 13 |
| 7.2 | GNU GENERAL PUBLIC LICENSE | 13 |
| 7.3 | TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION | 13 |

1 Audacity 手册

b'' 翻 b''b'' 译 b'':

2017 Zhang Miao
2018, 2020 Ma Yong
2019 zlffcn
2020 EldersJavas
2020 wdggg
2020 Tao Wang

这是一本关于 Audacity 的手册，基于 Debian Edu Etch 3.0 版中的 1.2.4b-2.1+b1 版本。

在 <http://wiki.debian.org/DebianEdu/Documentation/Manuals/Audacity> 上的版本是 wiki 版，并且会经常更新。它的翻译是 debian-edu-doc 软件包的一部分，可以安装在 web 服务器上，且可以[在线得到](#)。

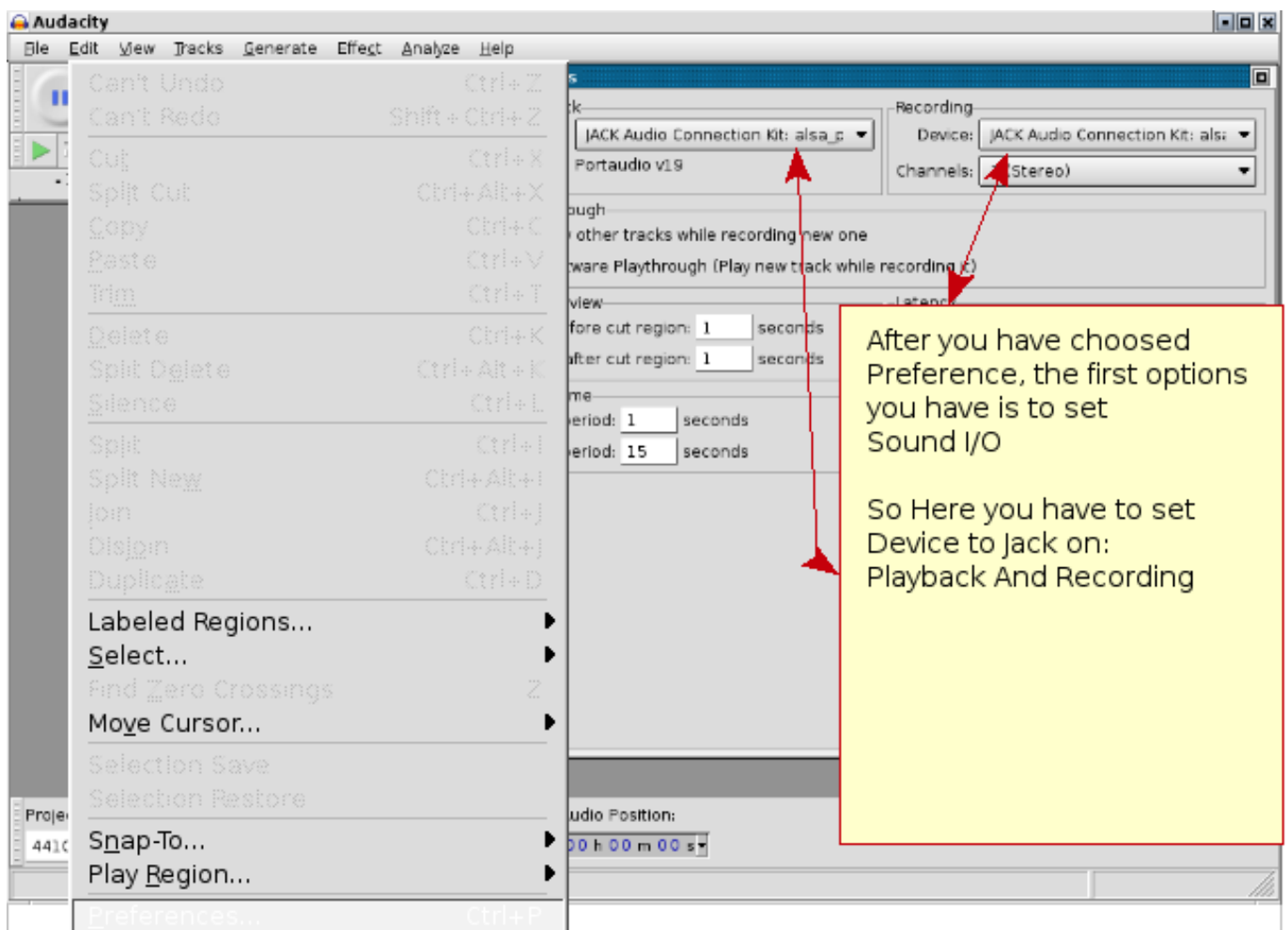
2 开始之前

设置 Audacity 并不难，只要记住设置 Audacity 来使用 JACK，这便能够运行同时使用声音的其他程序。设置 JACK 使其流畅运行的指南在这里：

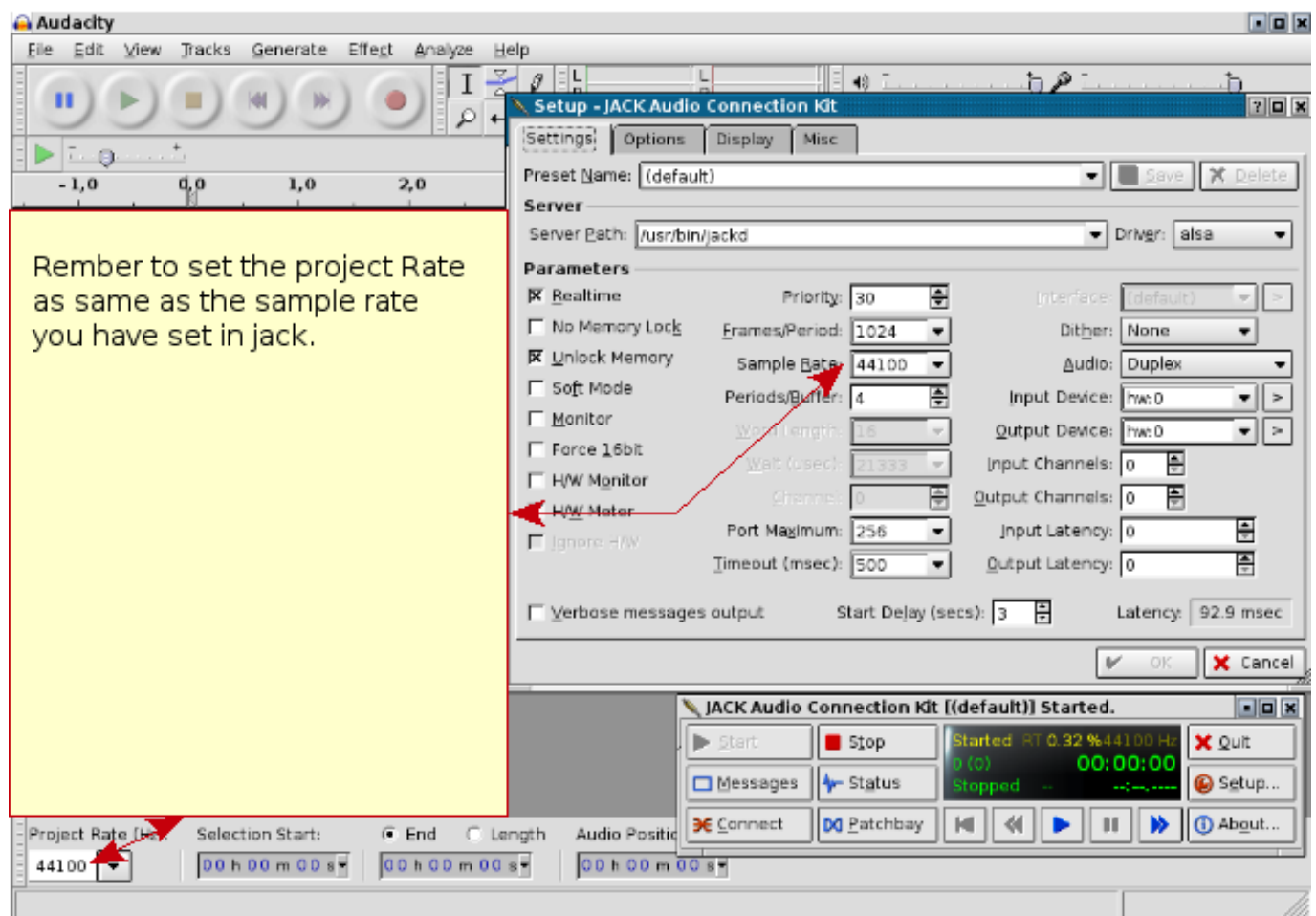
<http://wiki.debian.org/DebianEdu/Documentation/Manuals/Rosegarden/Setup>

制作本文档时使用的是 Audacity 1.3.3-Beta 版本。

所以为了设置 Audacity 使用 Jack，必须进入 menu --> Edit ---> Preferences.



接下来要注意的是，项目速率必须与 jack 中设置的取样速率相同。



2.1 插件

这里是一些可能会需要的插件：

**** 音频插件 ****

swh-plugins

mcp-plugins

terminatorx

fixme: 装上一些您有经验的插件

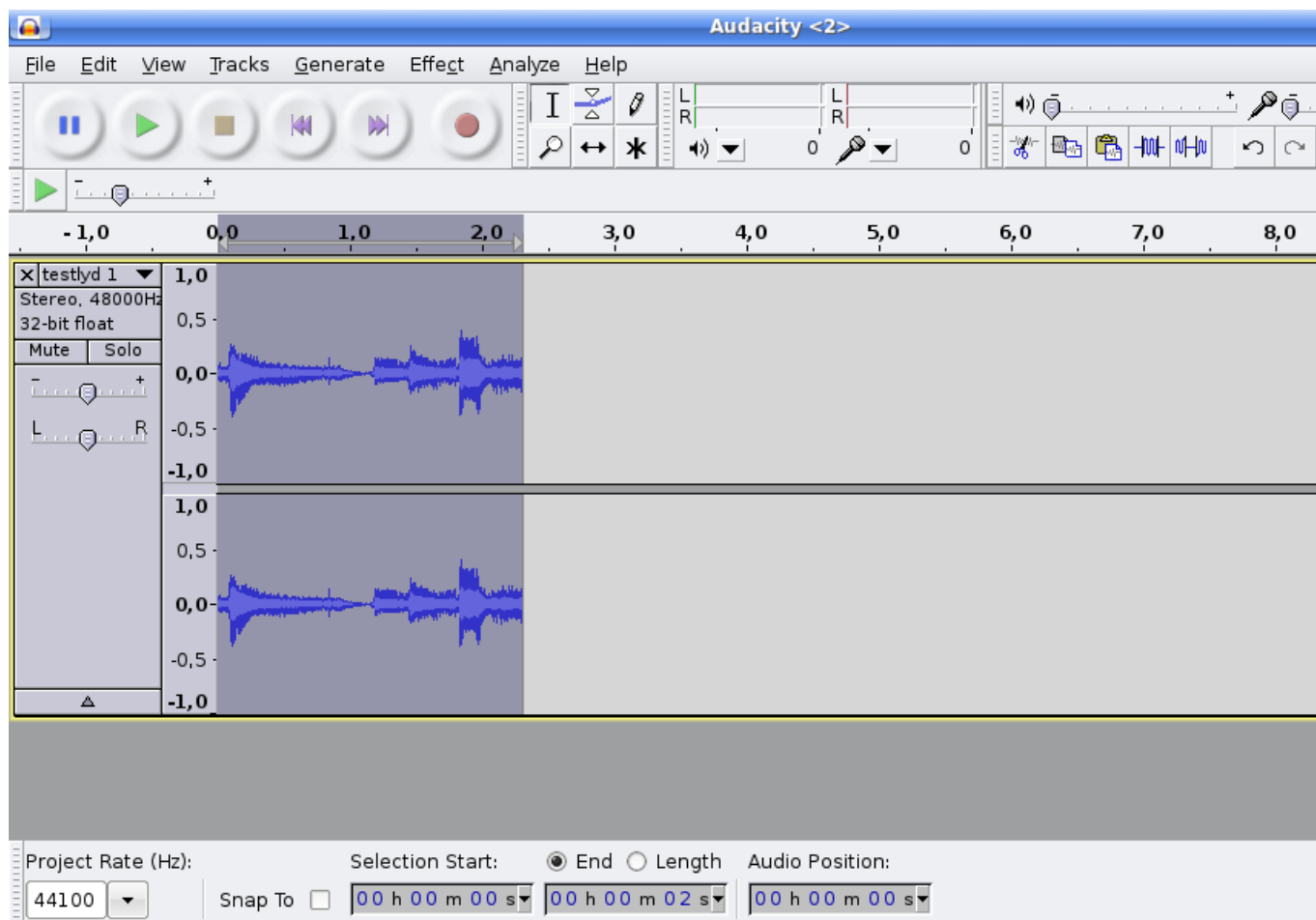
现在已经准备好开始录制了。

2.2 从何处获取 Audacity

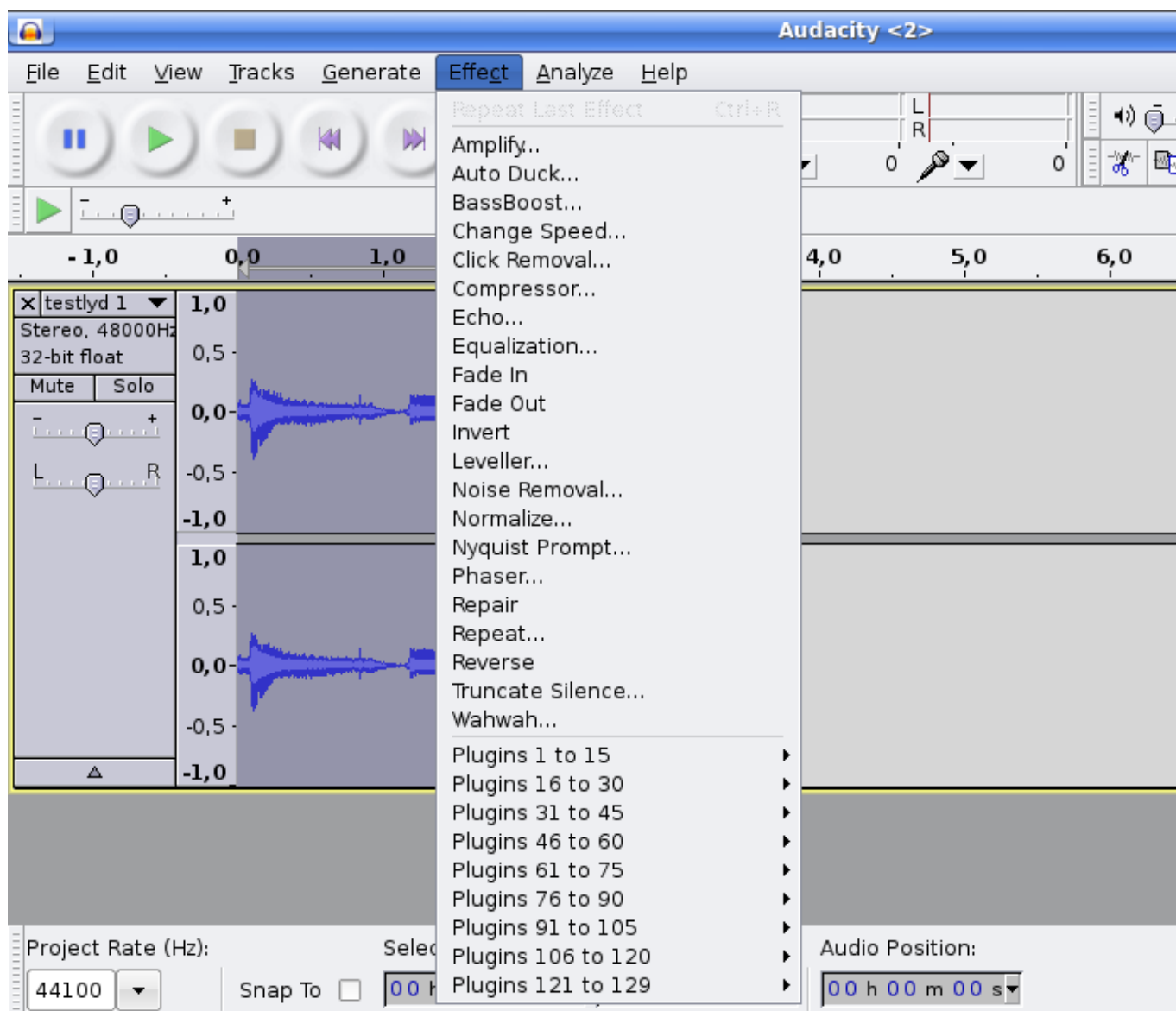
可以方便地使用 aptitude 来安装，也可以在这里的项目页面看一下 <http://audacity.sourceforge.net/>

3 进行一些录制

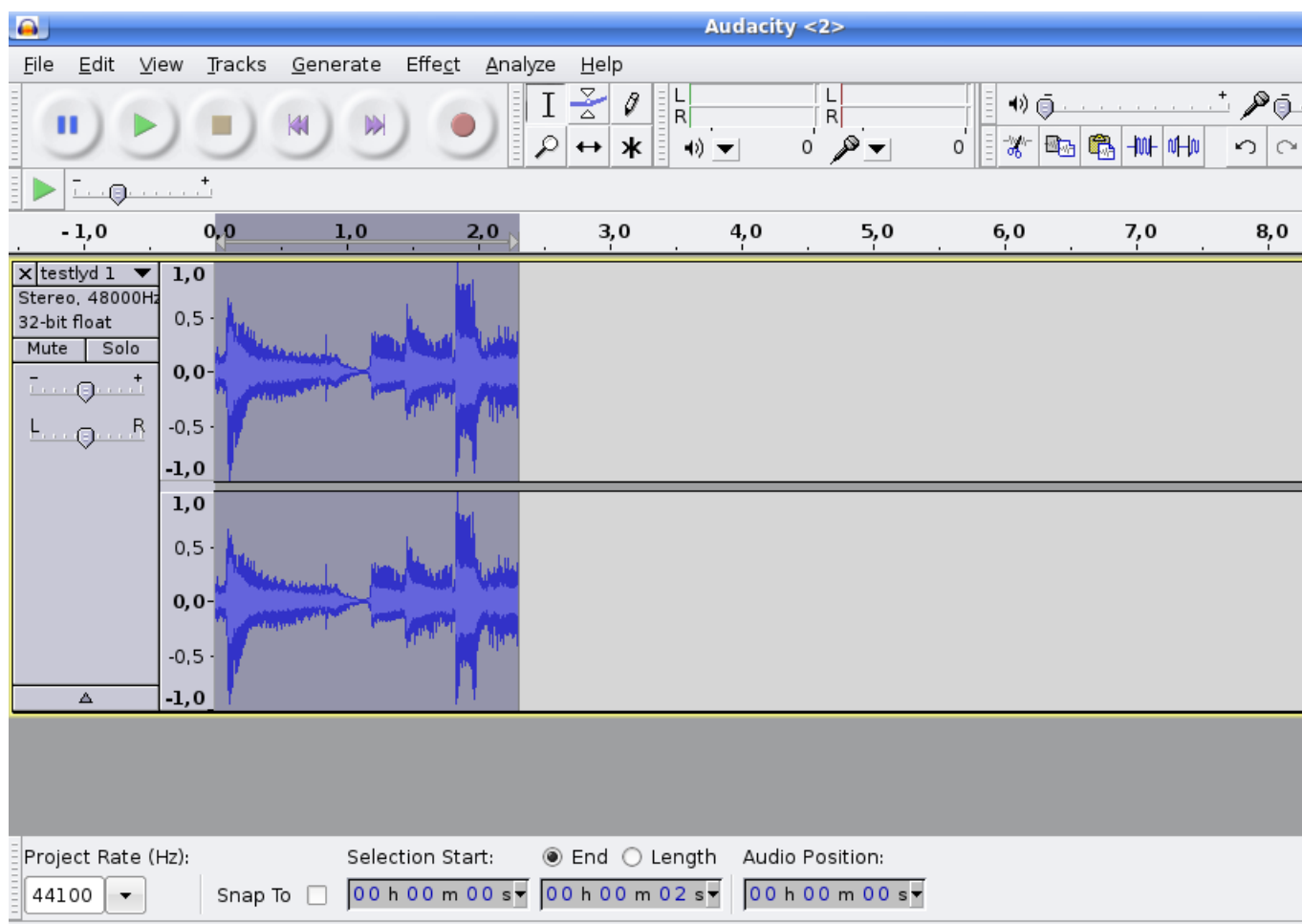
当录音首先记住小心不要将音量设置得过大，在这里设置得低一点比高一点更好。



当录制了想要的内容时，可以对录音进行标准化处理，使录音中的音量自动设置在正确的音量上，而任何部分的声音不会有过载的危险。



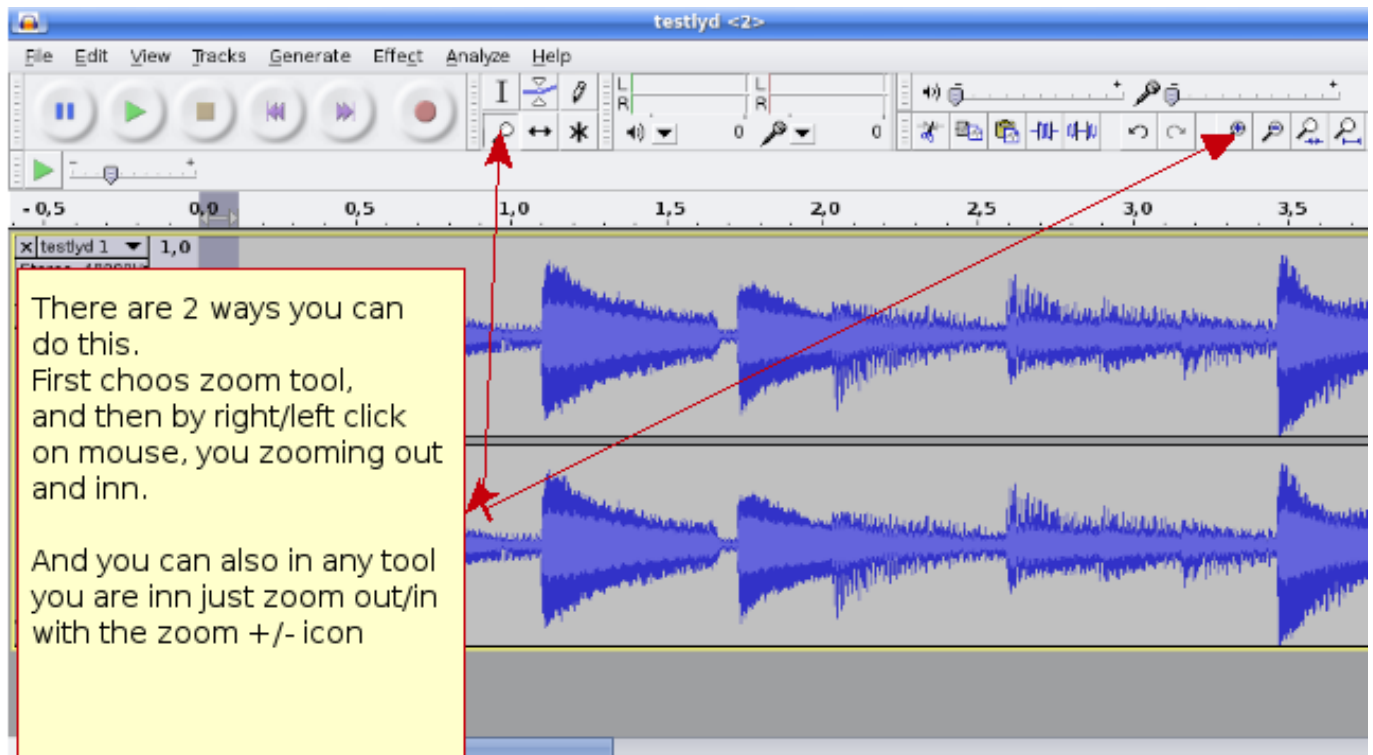
而后就会有一小段标准化的录音片段，看着像这样：



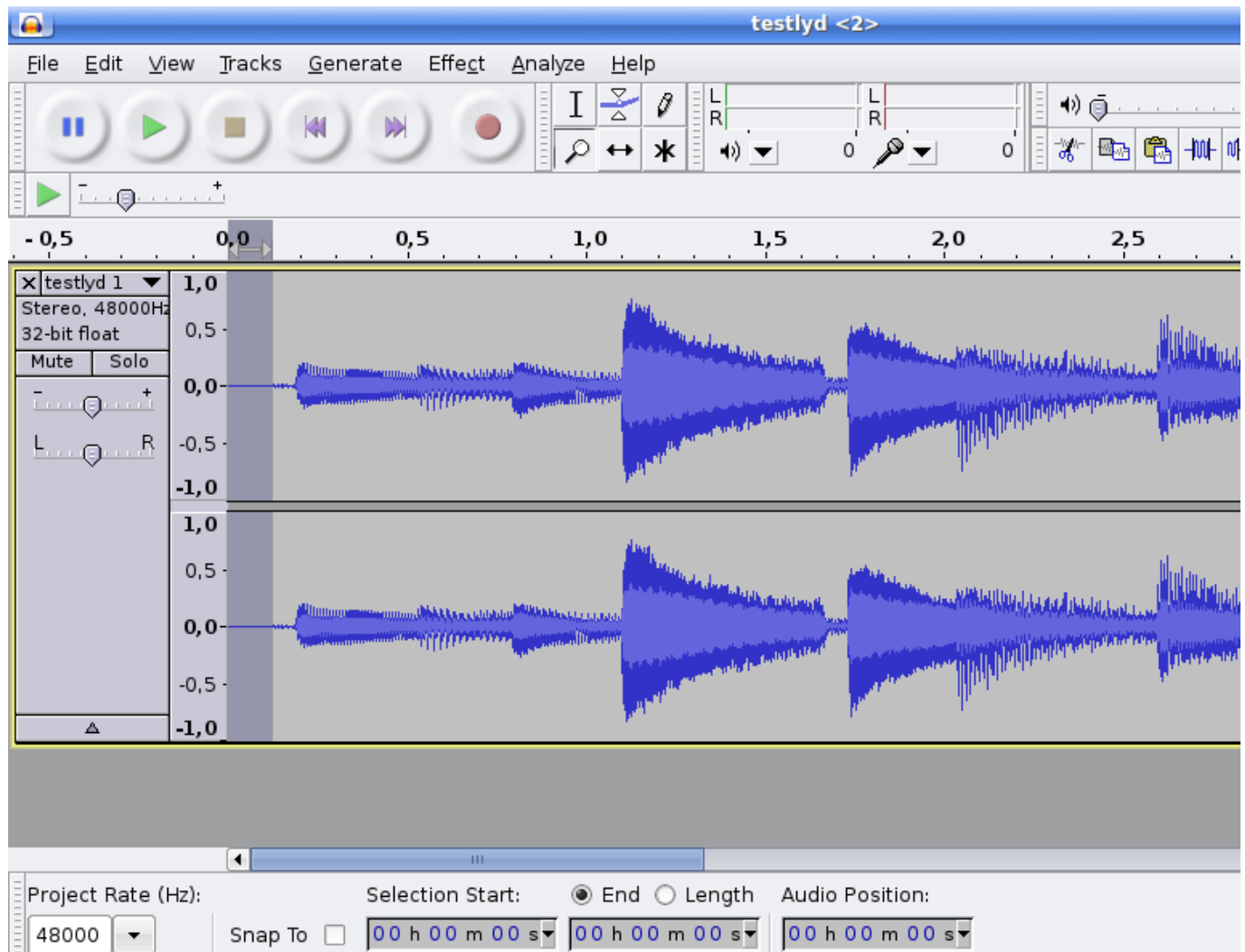
现在，这个录音片段的音量被纠正了。这是较好的方式来确保完成的录音不会过载，从而必须降低设置，此，让 Audacity 来修正它的音量。

现在想要从录音中去掉噪音，也许是一些来自麦克风的背景的嘶嘶声。所以第一部分是制作想要去除的“噪音设定”。

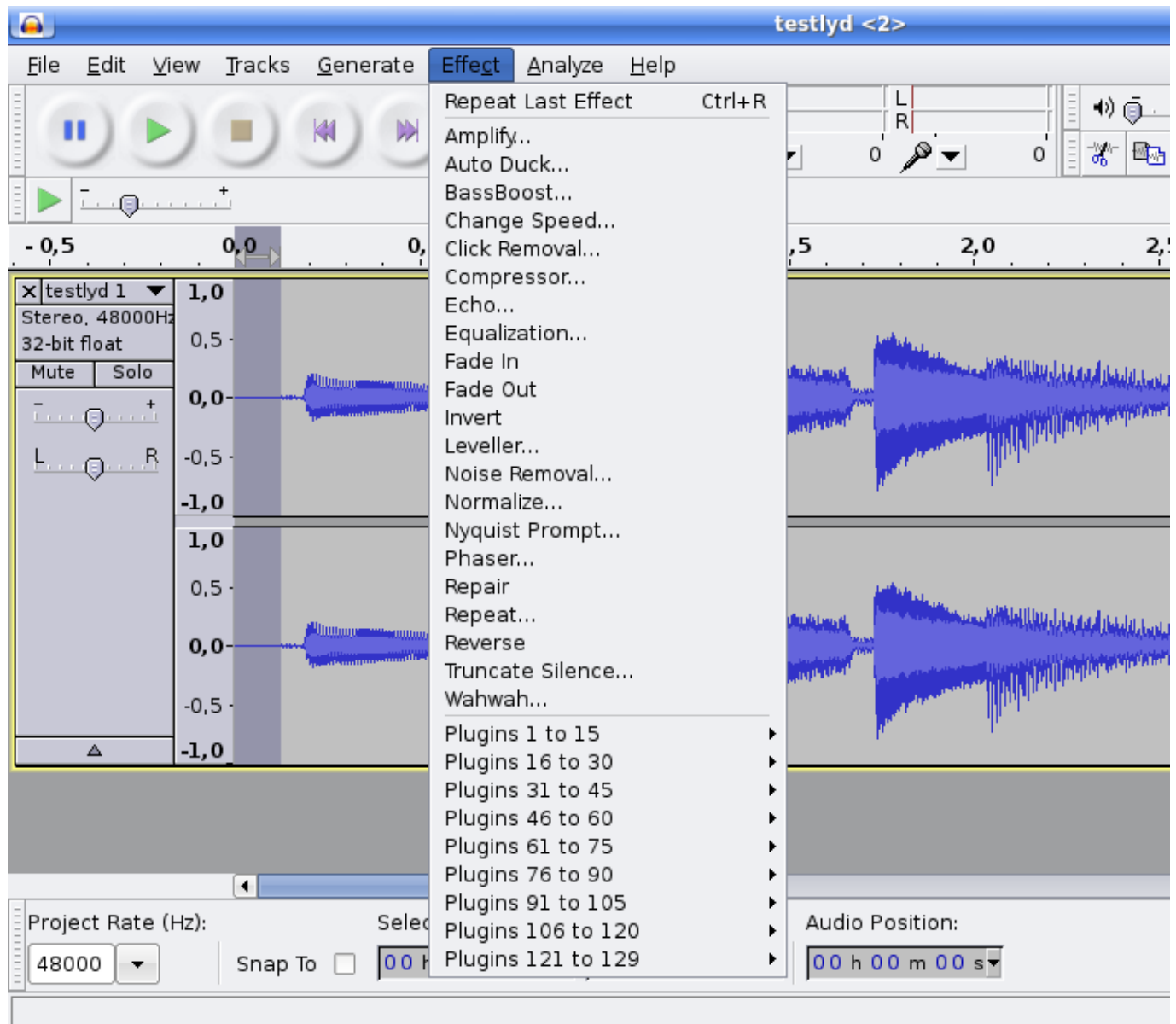
1. 首先放大，从而能够更清晰地看到录音。



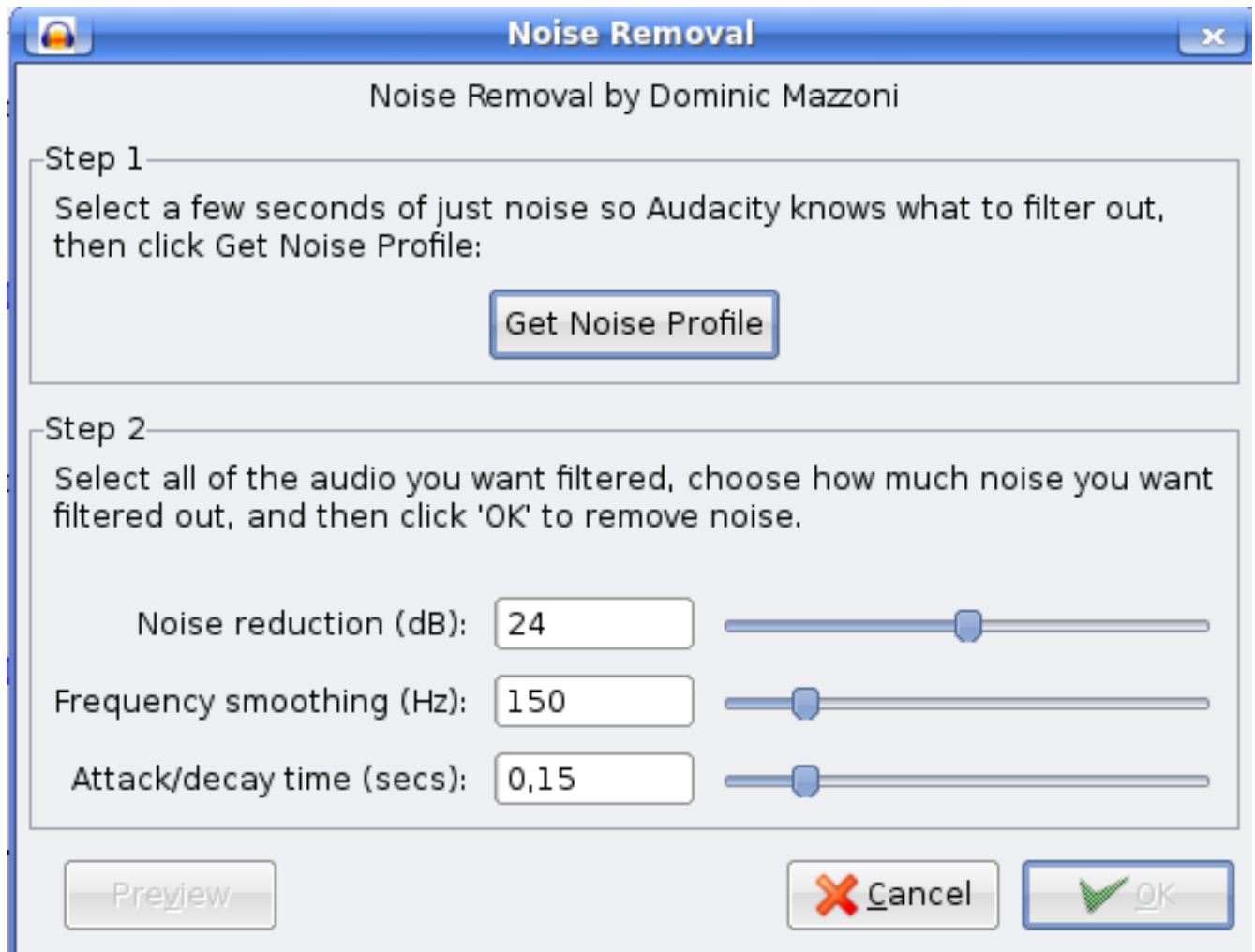
2. 然后，标记想要制作噪音设定的部分。通过在片段上左击鼠标并按住，然后拖动。这样就标记了需要得到噪音设定的部分。



3. 然后选择需要使用的 Noise removal 选项。



4. 然后创建“噪音设定”。



5. 然后点击 CTRL + A 选择整个录音，并再次从菜单选择 Noise removal，而这次按 OK。

然后如果根据喜好想要添加一些混响，和其它宜人的效果，建议在安装插件后搜索能用的大菜单。

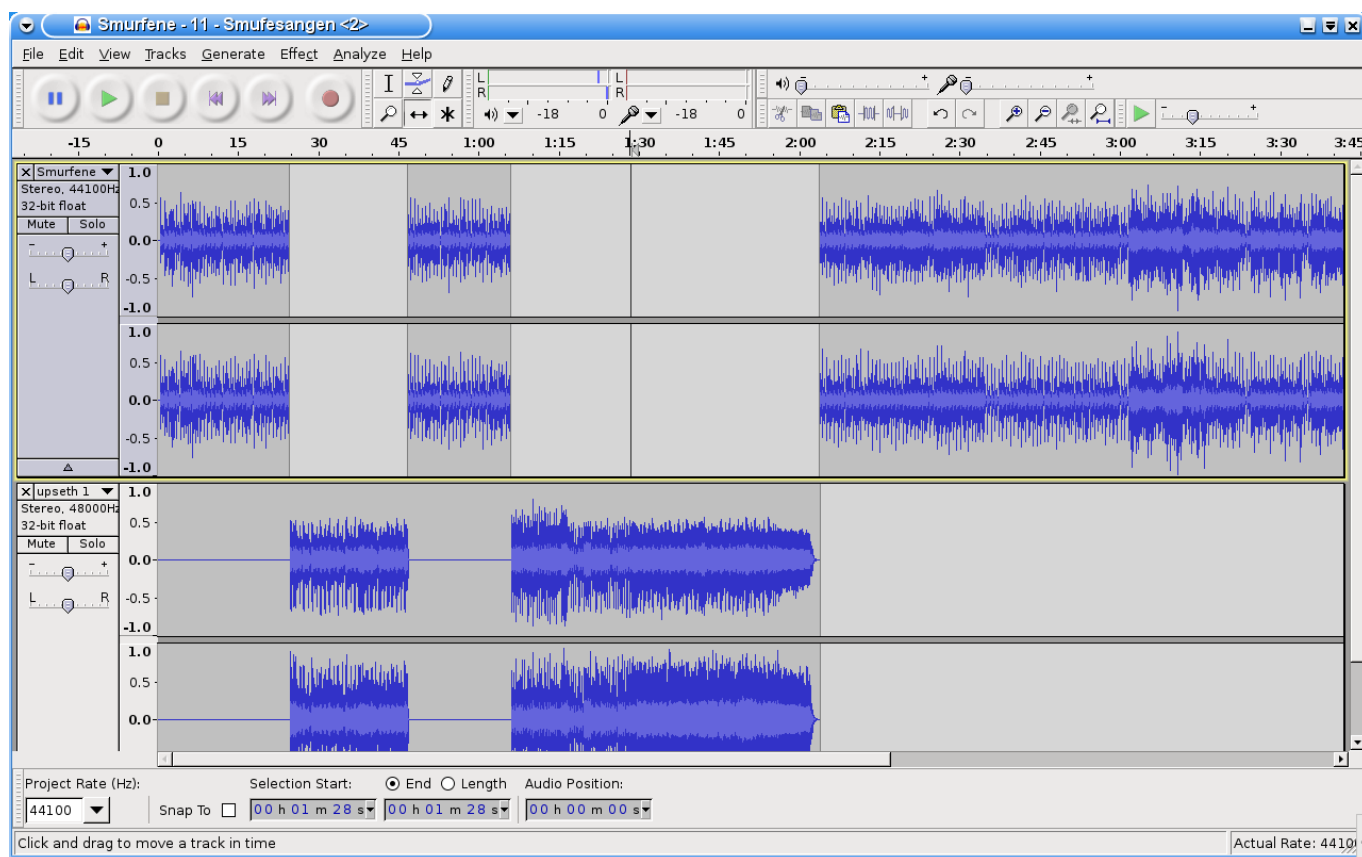
有几种方式来导出完成的成果。可以输出为 WAV、AIFF MP3、OGG、FLAC，文件菜单里选择导出。

4 导入音频

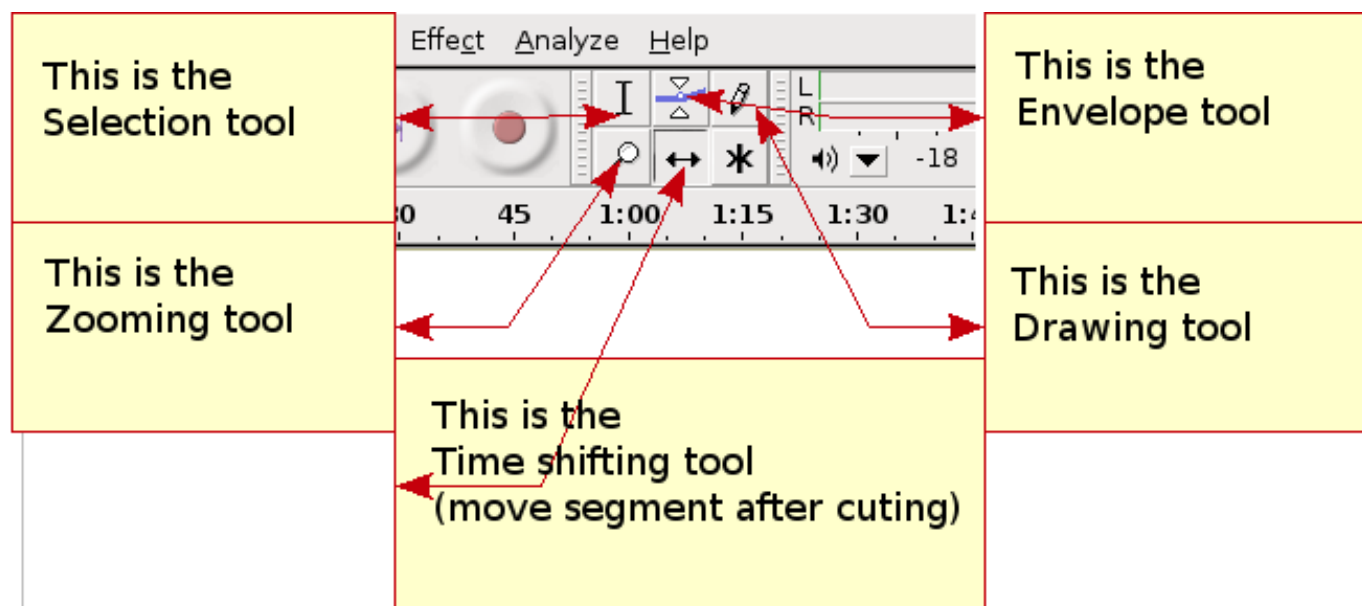
使用 Audacity 可以导入多种常规音频：音频、MIDI、标签和原始数据。可以直接将 MP3 文件导入项目，并在 Audacity 里将不同的歌曲混合到一起。

举个例子。

首先是主歌曲“smurfesangen”，而后为混合可以导入另一首歌，在菜单中选择 > > file > > Import Audio，然后新导入的音频会出现在第一个音频下面，这里的混合能力极大。



5 工具部分

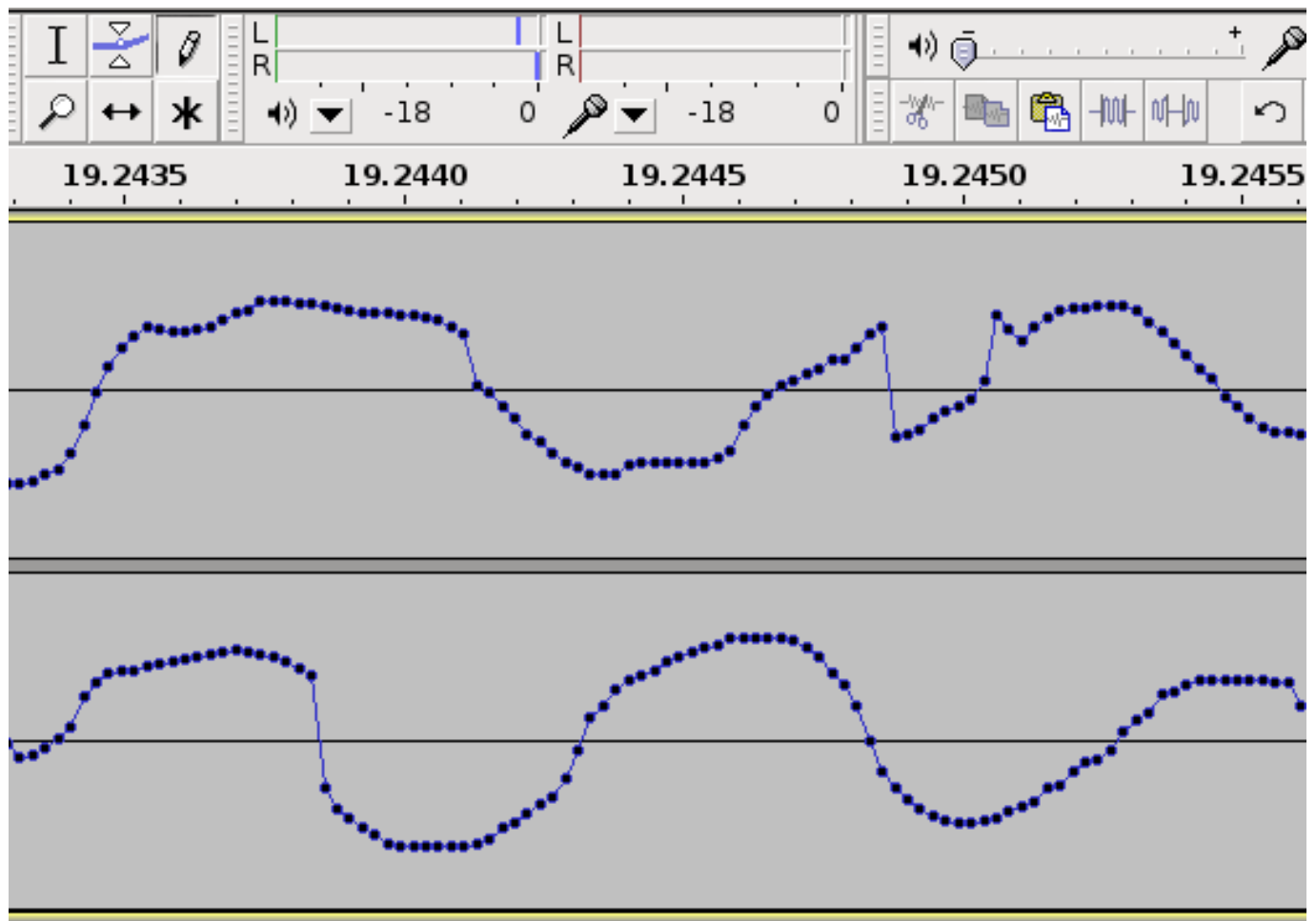


5.1 选择工具

要分离音频，从而可以移动的部分音频，首先要使用选择工具，选取需要剪切的。而后使用“ctrl + I”来分离。然后使用时间移动工具来移动片段。

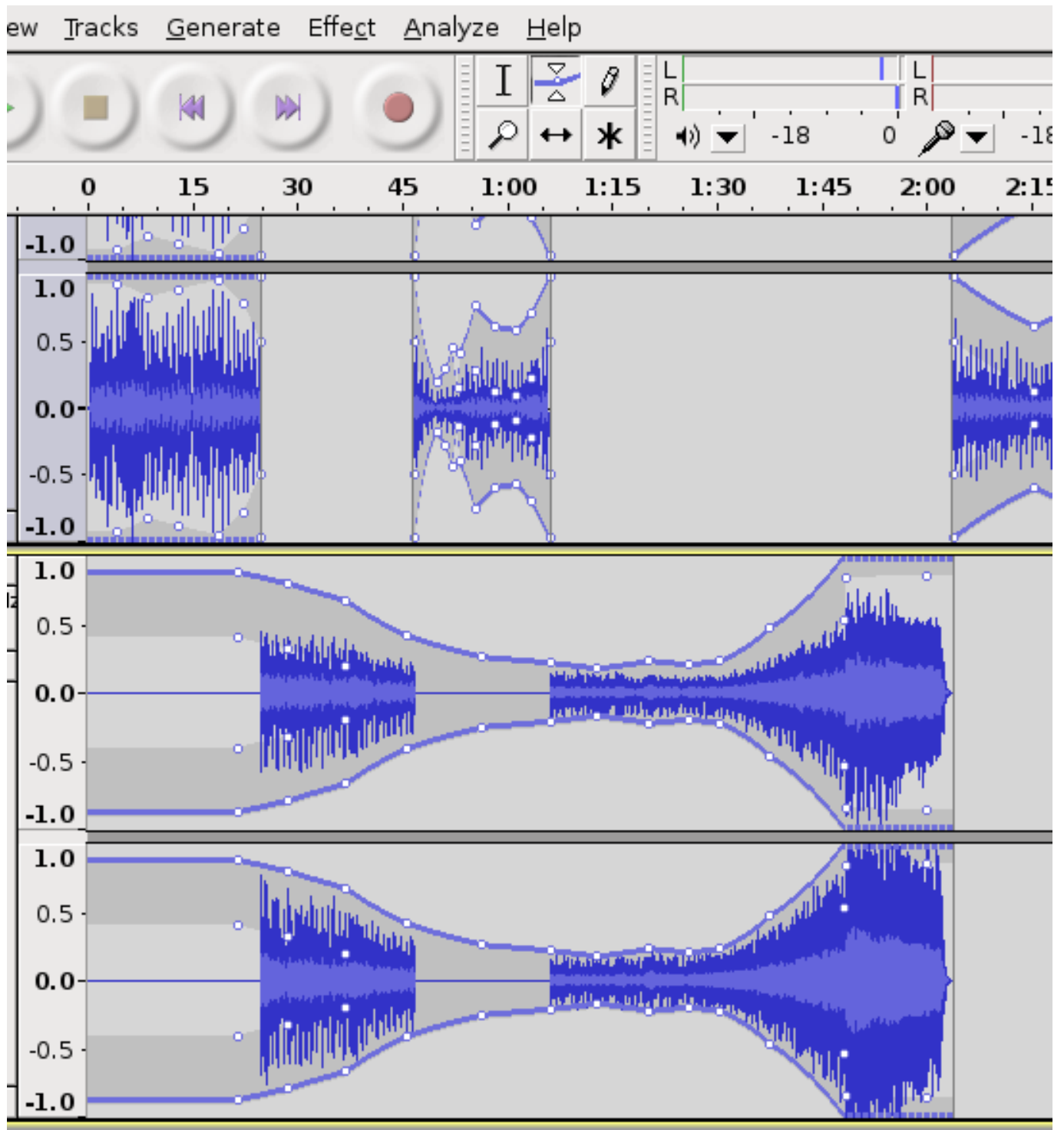
5.2 缩放工具

使用缩放工具可以缩放音频的片段，然后用绘制工具来操作这一音频。



5.3 包络工具

可以使用包络工具在片段上的任何位置增加或降低音量来处理音量。



5.4 时间移动工具

使用时间移动工具可以在一定范围内到处移动音频片段。

6 版权与作者

本文件由 Alf Tonny Bätz (2008, 2009) 和 Holger Levsen (2009) 撰写并拥有版权，并且以 GPL2 或任何更新的版本授权来发布。请尽情享受！

如果向其添加内容，请您只有是作者本人，并在相同条件下发布时来进行！然后将您的姓名添加到这里，并在“GPL v2 or any later version”许可下发布。

7 附录 A ——GNU 公共许可证

7.1 Audacity 手册

版权所有 (C) 2008,2009 Alf Tonny Bätz < alfton@gmail.com > 及其他人，版权所有者的完整列表请参见 [版权章节](#)。

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

7.2 GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

7.3 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- **a)** You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b)** You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c)** If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- **a)** Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b)** Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c)** Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
