

# Strategien zur Qualitätssicherung

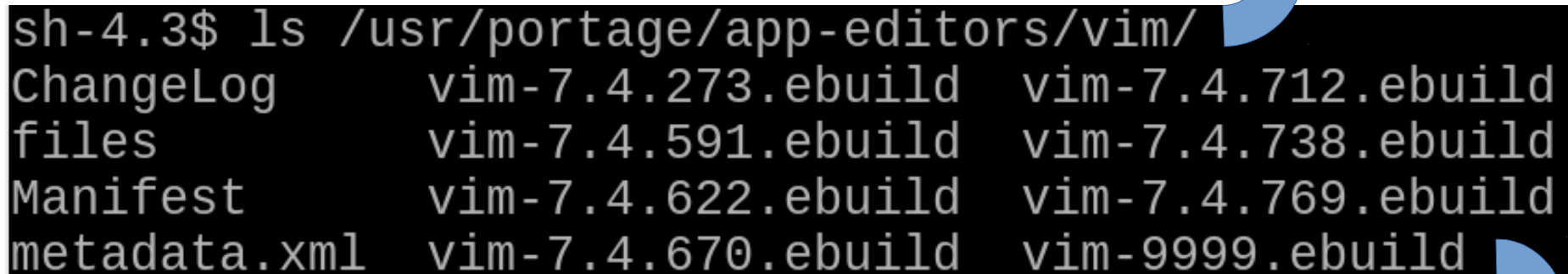


Fehler rechtzeitig finden

# Zu pflegende ebuilds

- Anzahl **Paketnamen: 17816**

```
qsearch -aN | wc -l
```



```
sh-4.3$ ls /usr/portage/app-editors/vim/  
ChangeLog      vim-7.4.273.ebuild  vim-7.4.712.ebuild  
files          vim-7.4.591.ebuild  vim-7.4.738.ebuild  
Manifest       vim-7.4.622.ebuild  vim-7.4.769.ebuild  
metadata.xml   vim-7.4.670.ebuild  vim-9999.ebuild
```

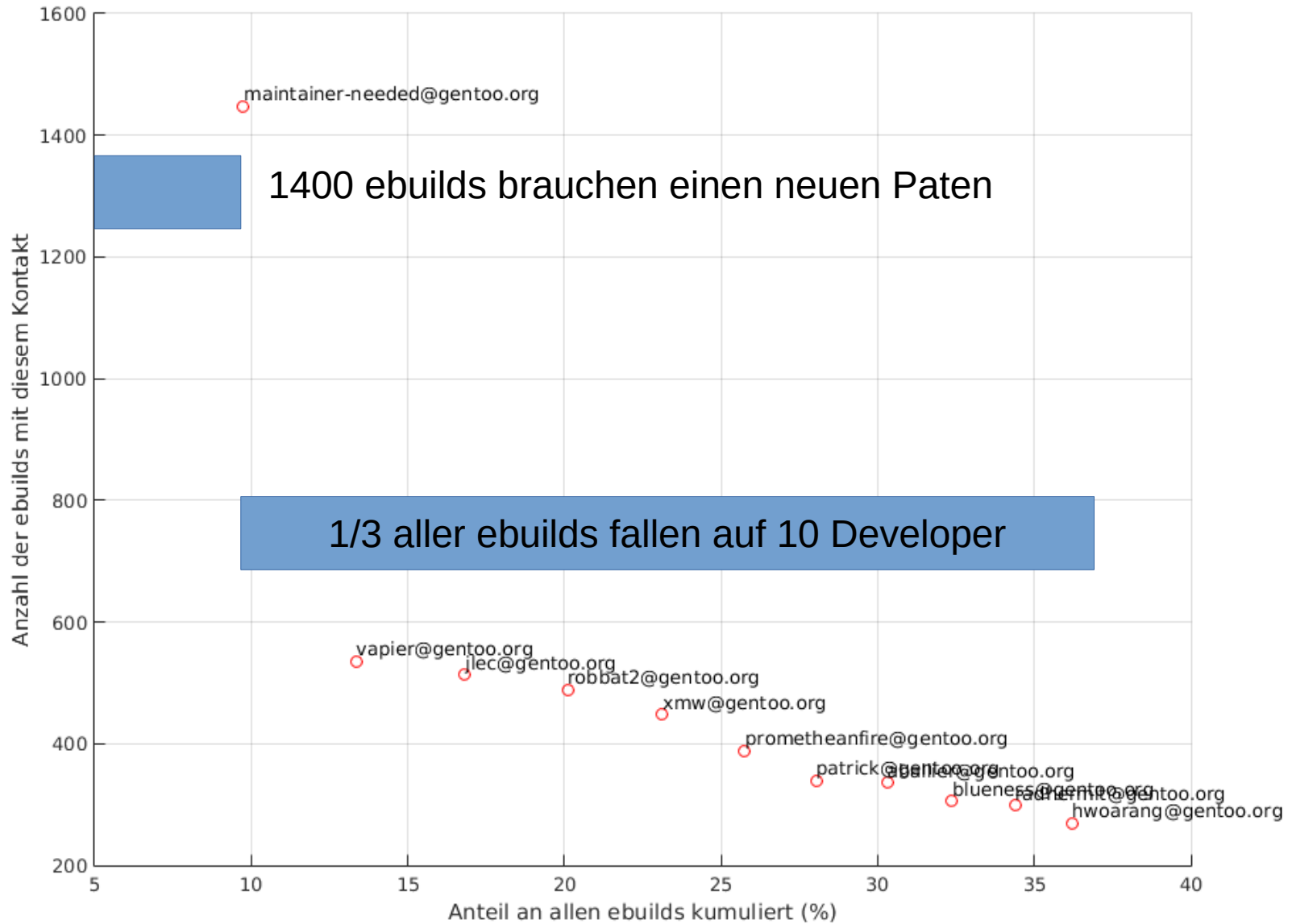
A terminal screenshot showing the directory listing of vim ebuilds. The output shows four rows of files: ChangeLog, files, Manifest, and metadata.xml. Each row contains two ebuild files with version numbers. The first three rows show two versions each, while the last row shows two versions, including a version number of 9999. A blue curved arrow points from the terminal output back to the text above it.

- Anzahl **ebuilds: 36573**

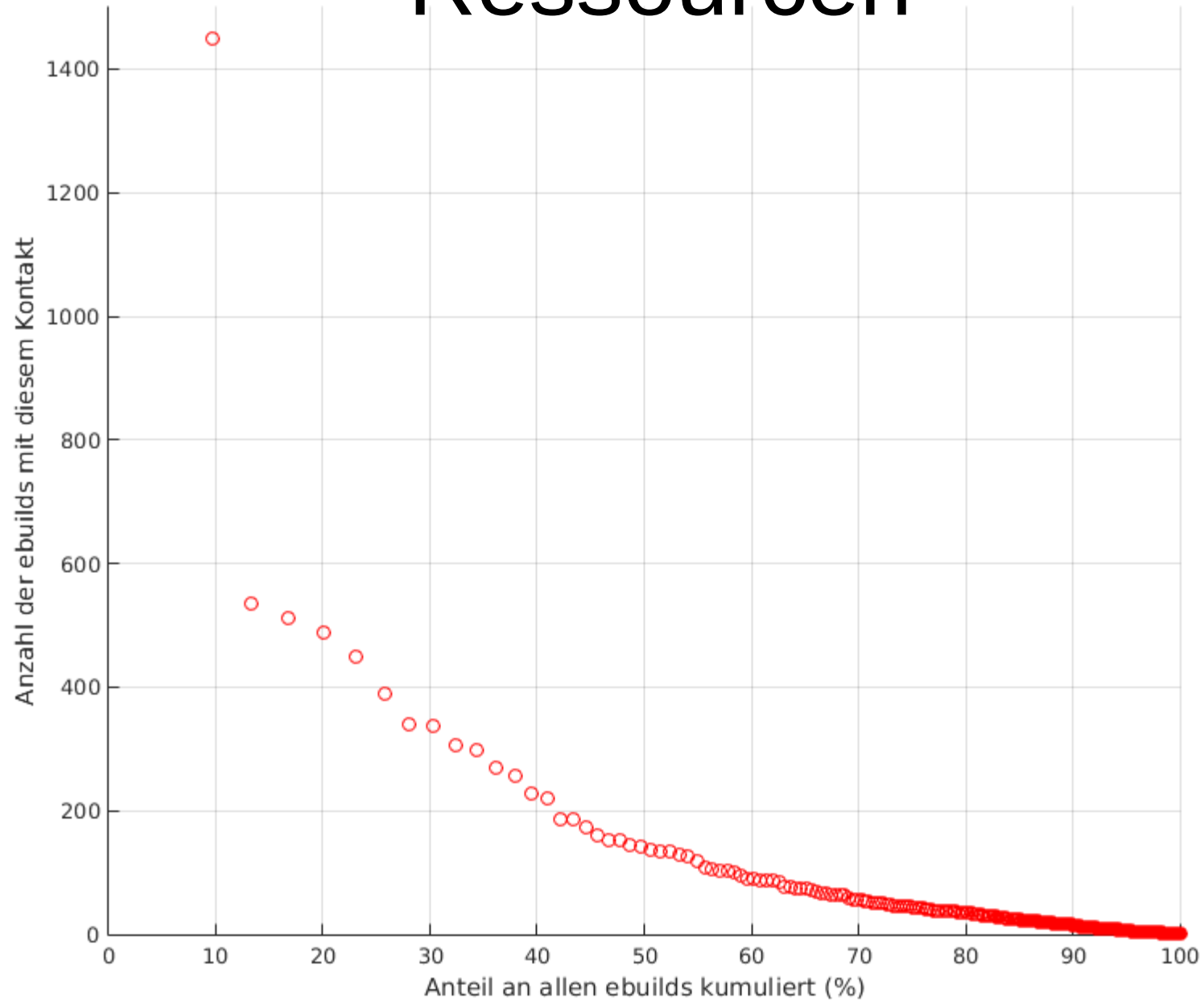
```
find /usr/portage/*-* -name "*.ebuild" | wc -l
```

=> rund 2 Versionsnummern pro  
Softwarepaket

# Ressourcen



# Ressourcen



# Herds teilen sich die Arbeit im Team

Home Get Started Downloads Inside Gentoo Support Get Involved

Developers Projects Artwork Gentoo Foundation Sponsors Stores Contact

## Gentoo Package Herds

This page lists all package maintenance groups (herds) in the Gentoo project.

Developers  
Developer Map  
Unavailable Developers  
Retired Developers  
**Herds**

### app-doc

**Description** Maintainers of app-doc/\*

**Contact** [app-doc@gentoo.org](mailto:app-doc@gentoo.org)

**Maintainers**

Maintainer	Roles
<a href="#">Ryan Hill</a>	
<a href="mailto:vapier@gentoo.org">vapier@gentoo.org</a>	

### ayatana

**Description** Maintain packages related to Ayatana project

**Contact** [ayatana-bugs@gentoo.org](mailto:ayatana-bugs@gentoo.org)

**Maintainers**

Maintainer	Roles
<a href="#">Samuli Suominen</a>	
<a href="#">Chi-Thanh Christopher Nguyễn</a>	

### bazaar

**Description** Bazaar distributed version control system and related packages

**Contact** [bazaar@gentoo.org](mailto:bazaar@gentoo.org)

**Maintainers**

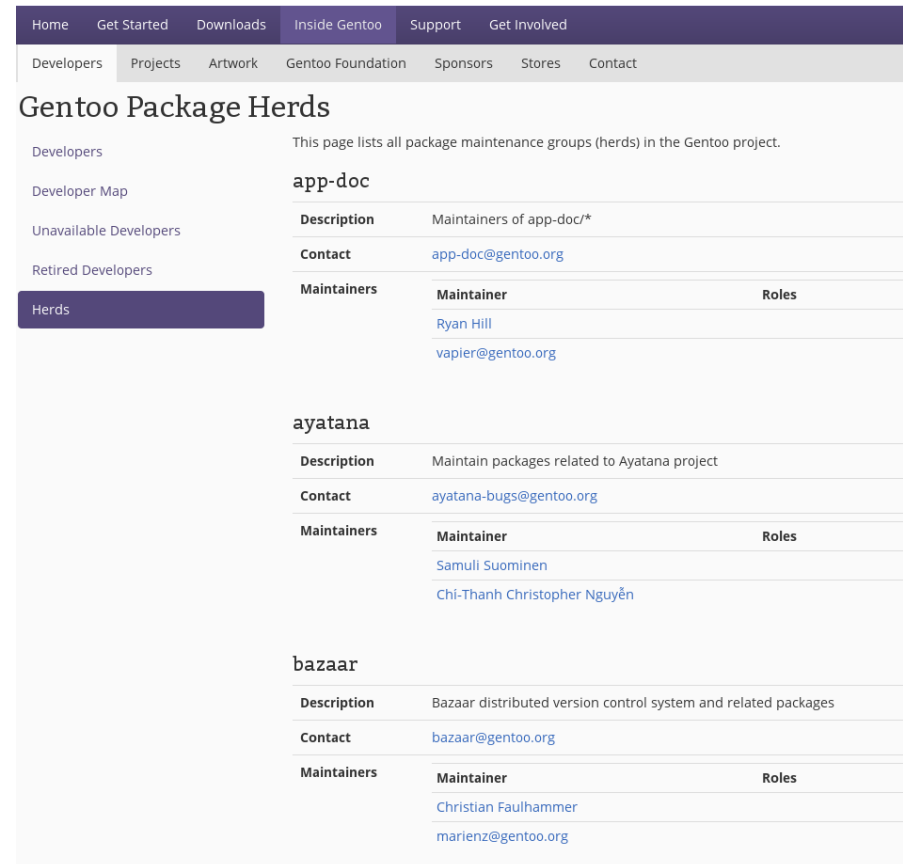
Maintainer	Roles
<a href="#">Christian Faulhammer</a>	
<a href="mailto:marienz@gentoo.org">marienz@gentoo.org</a>	

```
wget https://www.gentoo.org/inside-gentoo/developers/herds.html
cat herds.html | grep "h3\\|@" | sed -e 's/<a href="mailto://g' | sed -e 's/<td>//g' |
cut -f1 -d"@ " | grep -v "h3>\\|twitter"> herds.txt
```

```
cat herds.txt | grep -v " " | wc -l # Zeilen ohne Einrueckung zaehlen = Herd
cat herds.txt | grep " " | wc -l # Zeilen mit Einrueckung zaehlen = User
cat herds.txt | grep " " | sort | uniq -i | wc -l # verschiedene User zaehlen
```

# Herds teilen sich die Arbeit im Team

- 190 Personen
- Verteilen sich auf 137 Herds
- Je Herd Manpower von < 1.4 Personen



The screenshot shows the 'Gentoo Package Herds' page. It features a navigation bar at the top with links like 'Home', 'Get Started', 'Downloads', 'Inside Gentoo', 'Support', and 'Get Involved'. Below the navigation bar, there are tabs for 'Developers', 'Projects', 'Artwork', 'Gentoo Foundation', 'Sponsors', 'Stores', and 'Contact'. The main content area is titled 'Gentoo Package Herds' and includes a sidebar with links to 'Developers', 'Developer Map', 'Unavailable Developers', 'Retired Developers', and 'Herds'. The main content lists three herds: 'app-doc', 'ayatana', and 'bazaar'. Each herd entry includes a description, contact information, and a table of maintainers with their roles.

app-doc							
<b>Description</b>	Maintainers of app-doc/*						
<b>Contact</b>	<a href="mailto:app-doc@gentoo.org">app-doc@gentoo.org</a>						
<b>Maintainers</b>	<table border="1"><thead><tr><th>Maintainer</th><th>Roles</th></tr></thead><tbody><tr><td><a href="#">Ryan Hill</a></td><td></td></tr><tr><td><a href="mailto:vapier@gentoo.org">vapier@gentoo.org</a></td><td></td></tr></tbody></table>	Maintainer	Roles	<a href="#">Ryan Hill</a>		<a href="mailto:vapier@gentoo.org">vapier@gentoo.org</a>	
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ayatana							
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bazaar							
<b>Description</b>	Bazaar distributed version control system and related packages						
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cat herds.txt | grep "      " | sort | uniq -i | wc -l # verschiedene User zaehlen
```

# Es gibt Hoffnung

- andere Distributionen haben mehr Manpower, aber aufwändigere Paketverwaltung (debian ~1078 dev) [1]
- ebuilds sind einfach zu durchsuchen

```
sh-4.3$ qgrep EAPI vim-9999  
EAPI=5
```

- gibt es Muster, die besonders oft zu defekten ebuilds führen?

[1] <https://db.debian.org/search.cgi>





# Rasterfahndung

- Tilde in HOMEPAGE oft nur kurzzeitiger Account.

```
sci-libs/parmgridgen/parmgridgen-1.0.ebuild:SRC_URI="
http://www-users.cs.umn.edu/~moulitsa/download/${MYP}
.tar.gz"
```

- alte EAPI, oder Jahreszahl

Viele dieser Ebuilds hatten veraltete Versionen und weitere Probleme

```
# Copyright 1999-2004 Gentoo Foundation
```

```
sh-4.3$ qgrep "EAPI=1" | wc -l
26
```

# Wespennest

- einge defekte ebuilds führten nach Berlios
- dort neuer Hinweis, über shutdown  
also:

```
sh-4.3$ cd /usr/portage/  
sh-4.3$ grep "SRC_URI" */**/*.ebuild | grep berlios.de | cut -f1 -d":"  
app-benchmarks/spew/spew-1.0.8.ebuild  
app-benchmarks/spew/spew-1.0.8-r1.ebuild
```

es fanden sich viele betroffene ebuilds, die mit Skripten leicht gefunden werden konnten

# Großereignisse

- Berlios.de shut down

[Bug 494678](#) - berlios.de is gone (

Depends on: [537690](#) [537692](#) [537694](#) [537696](#) [537702](#) [537704](#)  
[537706](#) [537708](#) [537712](#) [537716](#) [537718](#) [537720](#)  
[537726](#) [537728](#) [537736](#) [537748](#) [537750](#) [537756](#)  
[537758](#) [537760](#) [537762](#) [537782](#) [537784](#) [537786](#)  
[537790](#) [537792](#) [537796](#) [537802](#) [537824](#) [537688](#)  
[537698](#) [537700](#) [537710](#) [537714](#) [537722](#) [537724](#)  
[537730](#) [537732](#) [537734](#) [537738](#) [537740](#) [537742](#)  
[537744](#) [537746](#) [537752](#) [537754](#) [537764](#) [537766](#)  
[537768](#) [537770](#) [537772](#) [537774](#) [537776](#) [537778](#)  
[537780](#) [537788](#) [537794](#) [537798](#) [537800](#) [537804](#)  
[537806](#) [537808](#) [537810](#) [537812](#) [537814](#) [537816](#)  
[537818](#) [537820](#) [537822](#) (edit)

- Halbwertzeit:  
**1 Jahr bis ca. 50 % der Bugs behoben waren**

# Großereignisse

- Gitorious shutdown [1] trifft bekannte Projekte

[Bug 544808](#) - (gitorious-shutdown) [Tracker] gitorious.org will shut down 2015-05-31

Bug 544842 – dev-qt/qt-creator

Bug 544844 – dev-vcs/svn2git

Bug 544850 – media-gfx/geeqie

Bug 544862 - sci-geosciences/merkaartor

...

```
grep 'gitorious' -R --include="*.ebuild" /usr/portage |
```

```
grep URI | wc -l
```

72 ebuilds damals betroffen

[1] <https://about.gitlab.com/2015/03/03/gitlab-acquires-gitorious/>

# Großereignisse

- Google Code shut down:  
800+ ebuidls betroffen

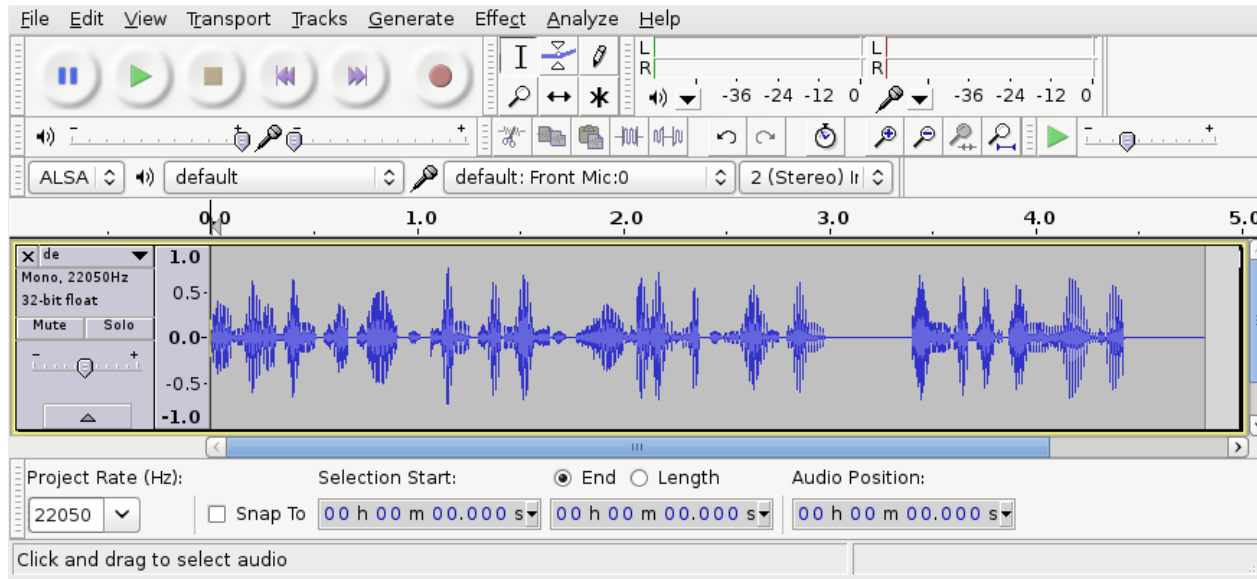
[Bug 544092](#) - Tracker bug: Shutdown of Google Code

- March 12, 2015  
New project creation disabled.
- August 24, 2015  
The site goes read-only. You can still checkout/view project source, issues, and wikis.
- January 25, 2016  
The project hosting service is closed. You will be able to download a tarball of project source, issues, and wikis. These tarballs will be available throughout the rest of 2016. [1]

[1] <http://google-opensource.blogspot.de/2015/03/farewell-to-google-code.html>

# Besondere Gefahren durch Serverumzüge

[Bug 544762](#) - media-sound/audacity project has moved



The Audacity project on Sourceforge has seen a hostile takeover and should no longer be used.

The project website is now at <http://web.audacityteam.org/>

The downloads are available from <http://www.fosshub.com/Audacity.html>

## Gefahr: Neuer Link auf (manipulierten) Fork

# Fazit

- Durch Statistik und Q-Applets lassen sich defekte ebuilds effizient aufspüren. [1]
- Filehoster haben eine Monopolstellung. Umzug/Shutdown führt zu umfangreichen Paketmängeln deren Halbwertszeit (~1 Jahr) sehr lang ist.
- Mithilfe ist leicht möglich!

[1] [https://wiki.gentoo.org/wiki/Q\\_applets](https://wiki.gentoo.org/wiki/Q_applets)