



# Contributing Gentoo Through Proxy Maintainers Project

Göktürk Yüksek <gokturk@gentoo.org>

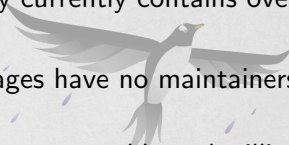
2016/10/08





# Introduction

- The Gentoo package repository currently contains over 19000+ packages
- Roughly 1500+ of those packages have no maintainers (maintainer-needed)
- A lot of keen Gentoo users who are capable and willing to maintain packages
  - Unfortunately, only developers have commit access





# What is Proxy Maintainers Project?

- A Gentoo project that enables users maintain packages in the official package repository
  - Acts as the primary responsible project for the user
  - Acts as a backup when a user is directly working with another developer
- Technical support and documentation
- Code review and quality assurance
- Good way to transition into applying to become a Gentoo developer



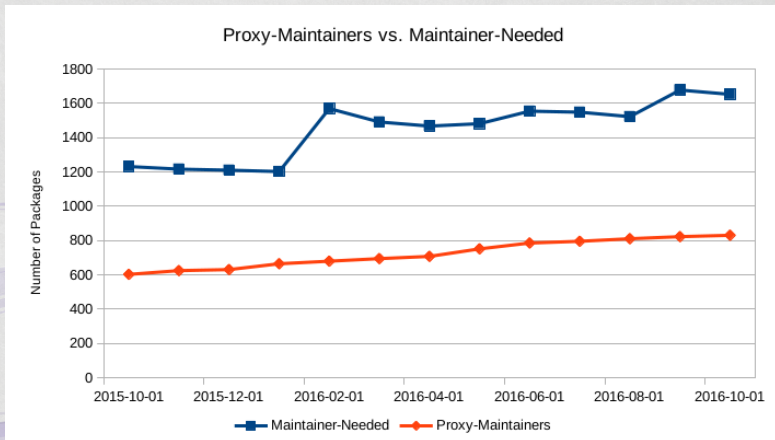
# Proxy-Maint by Numbers

- Short statistics:
  - Number of developers: 18
  - Number of users: 321
  - Number of packages: 833





# Proxy-Maint by Numbers





# How to Get Involved?

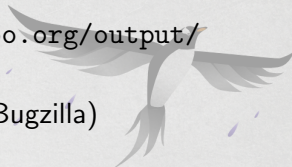
- The typical workflow for a new user is:
  - Find a package to maintain
  - File a Maintainership Request Bug
  - File a Maintainer Bug
  - Submit your initial contribution for review
  - Handle any future version bumps and bugs





# Where to find packages to maintain?

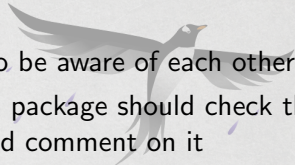
- Maintainer-needed:  
<https://qa-reports.gentoo.org/output/maintainer-needed.html>
- Maintainer-wanted: (Gentoo Bugzilla)  
<https://goo.gl/mUKcP0>
- Packages already maintained by a Gentoo dev  
<https://packages.gentoo.org/>





# The Maintainership Request Bug

- The maintainership bug acts as a central point to coordinate contributions
- Allows multiple contributors to be aware of each other
- Anyone who wishes to claim a package should check the maintainership request bug and comment on it
- File a new bug on Gentoo Bugzilla if there isn't one already:
  - It must have the following format for the bug summary:  
**Maintainership request: <category>/<package>**







# The Maintainership Request Bug

[Bug 583908](#) - Maintainership request: mail-filter/spamassassin ([edit](#))

Save Changes

**Status:** IN\_PROGRESS ([edit](#))

**Alias:** None ([edit](#))

**Product:** Gentoo Linux

**Component:** Current packages ([show other bugs](#))

**Version:** unspecified

**Hardware:** All Linux

**Importance:** Normal normal ([vote](#))

**Target Milestone:** ---

**Assignee:** Proxy Maintainers ([edit](#)) ([take](#))

**URL:**

**Whiteboard:**

**Keywords:**

**Personal Tags:**

**Depends on:** [322025](#) [396307](#) [455604](#) [494260](#) [523960](#) [532094](#) [579222](#) [579666](#) ([edit](#))

**Blocks:** [586388](#) [586390](#) ([edit](#))

Show dependency [tree](#)

**Reported:** 2016-05-23 18:07 EDT by [Philippe Chaintreuil](#)

**Modified:** 2016-09-22 09:16 EDT ([History](#))

**CC List:**  Add me to CC list  
4 users

**Add**

ALPHA  
AMD64  
ARM  
HPPA  
IA64

Add arches:  
atman.sense@zise.de  
bug@mejor.pl  
pchrist@gentoo.org  
wraeth@gentoo.org

Remove selected CCs

**Ignore Bug Mail:**  (never email me about this bug)

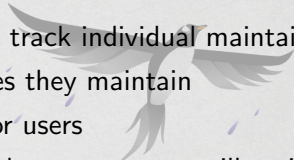
**See Also:** ([add](#))

**Flags:** None yet set ([set flags](#))



# The Maintainer Bug

- The maintainer bug is used to track individual maintainers
- Links the users to the packages they maintain
- Serves as a devaway system for users
- Allows us to “ping” you to make sure you are still active





# The Maintainer Bug

Bug 585734 - Maintainer: Jonathan Scruggs (Dracwyrn) ([edit](#))

[Save Changes](#)

**Status:** CONFIRMED ([edit](#))

**Alias:** None ([edit](#))

**Product:**

**Component:** [OLD] Unspecified ([show other bugs](#))

**Version:** unspecified

**Hardware:** All

**Importance:** Normal  ([vote](#))

**Target Milestone:** ---

**Assignee:** Jon ([edit](#)) ([take](#))

**URL:**

**Whiteboard:**

**Keywords:**

**Personal Tags:**

**Depends on:** [585724](#) [586160](#) [586262](#) [586266](#) [586382](#) [586384](#) [590896](#) ([edit](#))

**Blocks:**

Show dependency [tree](#)

**Reported:** 2016-06-12 14:21 EDT by [Amy Winston](#)

**Modified:** 2016-08-09 13:29 EDT ([History](#))

**CC List:**  Add me to CC list  
1 user

**Add**

**Add arches:**

Remove selected CCs

**Ignore Bug Mail:**  (never email me about this bug)

**See Also:** ([add](#))

**Flags:** None yet set ([set flags](#))



# Submitting Contributions

- You can submit your contributions through many different ways:
  - As an attachment to the maintainership request bug
  - As a pull request on github  
**<https://github.com/gentoo/gentoo>**
  - By emailing the project alias  
**[proxy-maint@gentoo.org](mailto:proxy-maint@gentoo.org)**
  - By emailing the project mailing list  
**[gentoo-proxy-maint@lists.gentoo.org](mailto:gentoo-proxy-maint@lists.gentoo.org)**
  - By emailing one of the developers of the project
- The project developers will review your submission and provide any necessary feedback





# What Does Happen When You Claim a Package?

- We update the package's metadata with your name and email address
- You will be responsible for keeping the package up-to-date
- Any bugs associated with your package will be assigned to you

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE pkgmetadata SYSTEM "http://www.gentoo.org/dtd/metadata.dtd">
<pkgmetadata>
  <maintainer type="person">
    <email>keen.user@tunaroo.org</email>
    <name>Keen User</name>
  </maintainer>
  <maintainer type="project">
    <email>proxy-maint@gentoo.org</email>
    <name>Proxy Maintainers</name>
  </maintainer>
</pkgmetadata>
```



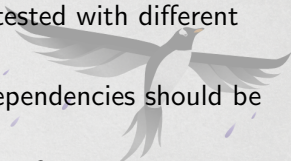
# What's Next?

- Any future updates to the package may be submitted through the aforementioned submission methods
- Default permissions on bugzilla allow you to close bugs assigned to you
- Once you get comfortable, you may take on additional packages by filing more maintainership request bugs
- If you decide to cease maintainership, contact us and we will remove you from the metadata



# What makes a submission good?

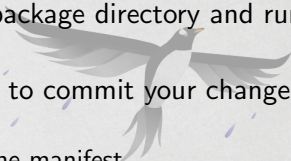
- Ebuilds must pass the repoman checks (more on this later)
- The submission should be runtested with different combinations of USE flags
- The build time and runtime dependencies should be accurately specified
- If the submission is in the form of git commits:
  - The commit message should follow the Gentoo format
  - Each commit should contain a single atomic logical change
  - Each commit should be repoman valid individually





# Repoman

- Repoman is a tool that scans package ebuild and metadata for a variety of errors
- To run it, simple **cd** into the package directory and run **repoman full**
- Always use **repoman commit** to commit your changes instead of **git commit**
  - Automatically regenerates the manifest
  - Creates a proper commit message template
  - Cancels commit on serious QA violations
- Repoman does not
  - Compile and test your package for you
  - check whether you have the correct package dependencies







# Repoman

```
gokturk ~/gentoo/app-misc/foo $ repoman full
```

```
RepoMan scours the neighborhood...
```

```
IUSE.invalid [fatal] 1
  app-misc/foo/foo-0.1.ebuild: baz
LICENSE.missing [fatal] 1
  app-misc/foo/foo-0.1.ebuild
digest.missing [fatal] 1
  /home/gokturk/gentoo/app-misc/foo::foo-0.1.tar.gz
ebuild.notadded 1
  app-misc/foo/foo-0.1.ebuild
metadata.bad [fatal] 1
  app-misc/foo/metadata.xml: line: 4, Element 'maintainer': The attribute 'type' is required but missing.
metadata.warning 1
  app-misc/foo/metadata.xml: unused local USE-description: 'bar'
```

Note: use `--include-dev (-d)` to check dependencies for 'dev' profiles

Please fix these important QA issues first.

RepoMan sez: "Make your QA payment on time and you'll never see the likes of me."



# Useful Links

- Proxy-Maintainers Wiki:  
[https://wiki.gentoo.org/wiki/Project:Proxy\\_Maintainers](https://wiki.gentoo.org/wiki/Project:Proxy_Maintainers)
- Gentoo Developer Manual:  
<https://devmanual.gentoo.org/>
- Gentoo Github Guide:  
[https://wiki.gentoo.org/wiki/Gentoo\\_Github](https://wiki.gentoo.org/wiki/Gentoo_Github)





# Contact Us

- Email: [proxy-maint@gentoo.org](mailto:proxy-maint@gentoo.org)
- IRC: [#gentoo-proxy-maint](irc://freenode/#gentoo-proxy-maint)
- Mailing List: [gentoo-proxy-maint@lists.gentoo.org](mailto:gentoo-proxy-maint@lists.gentoo.org)  
<https://archives.gentoo.org/gentoo-proxy-maint/>





# Questions

And questions or comments?





# Thank You

Thank you all for attending the talk!



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