Contributing Gentoo Through Proxy Maintainers Project

Göktürk Yüksek <gokturk@gentoo.org>

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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

Göktürk Yüksel <gokturk@gentoo.org>

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Proxy-Maint by Numbers

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

Göktürk Yüksek <gokturk@gentoo.org>

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Proxy-Maint by Numbers

![Graph showing Proxy-Maintainers vs. Maintainer-Needed]

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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/

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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>`
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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)

**Status**: CONFIRMED (edit)

**Alias**: None (edit)

**Product**: Gentoo Linux

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

**Version**: unspecified

**Hardware**: All ▼ Linux ▼

**Importance**: Normal ▼ normal ▼ (vote)

**Target Milestone**: ---

**Assignee**: Jon (edit) (take)

**URL**

**Whiteboard**

**Keywords**

**Personal Tags**

**Depends on**: 585724 586160 585262 586288 586292 585284 566896 (edit)

**Blocks**

Show dependency tree

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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
  - By emailing the project mailing list
    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
<?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.

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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

Göktürk Yüksekgokturk@gentoo.org
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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."
```

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Contributing Gentoo Through Proxy Maintainers Project
Useful Links

- Gentoo Developer Manual: https://devmanual.gentoo.org/

Göktürk Yüksel <gokturk@gentoo.org>
Contributing Gentoo Through Proxy Maintainers Project
Contact Us

- Email: proxy-maint@gentoo.org
- IRC: freenode/#gentoo-proxy-maint
- Mailing List: gentoo-proxy-maint@lists.gentoo.org
  https://archives.gentoo.org/gentoo-proxy-maint/
Questions

And questions or comments?

Göktürk Yüksel <gokturk@gentoo.org>

Contributing Gentoo Through Proxy Maintainers Project
Thank you all for attending the talk!

This template is shamelessly stolen from scarabeus

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