Triaging bug reports in GNOME

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About us

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- Talk 30 min.
- Ask questions immediately
- $m{\ddot{c}}$ discussion at the end (and in between, if applicable)





Motivation

Why are we here today?

- *** Help People to start triaging
- 👸 Show best practices and common pitfalls
- 🥇 Identify, discuss and solve current problems
- 👸 Get to know each other, aka map addresses to faces



Motivation

Why is GNOME here today?

- 👸 tidy up bug database
 - $ilde{v}\sim 5$ active triagers
 - $ilde{\mathbf{c}} \sim 1200 \sim 750 \sim 500$ incoming bug reports per week
 - $ilde{m{arepsilon}}\sim 500$ closed bug reports per week
 - $< \sim 24000 \text{ unanswered open bug reports}$
 - $ilde{m{arepsilon}}\sim 25000$ open bug reports older than two years
- 👸 bringing triage community together
- teaching newcomers in triaging



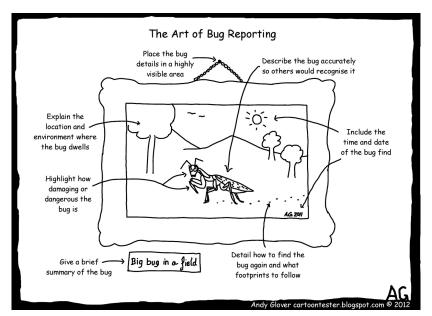
Description

What is Bug Triaging anyway?

- 👸 QualityAssurance
- 👸 Manage bug reports
 - 👸 get enough information for devs to fix bugs
 - keep bug reports in their actual state (NEEDINFO, OBSOLETE, Version, . . .)
 - 🥰 address severe bug reports
- 👸 make users and devs happy :-)



The Art of Bug Reporting



GNOME Methodology

How does GNOME manage its bug reports?

```
Bugzilla as Bug Database
```

- 👸 mature product
- 👸 awesome install base
- 👸 though old and kinda rusty

gnome-bugsquad@gnome.org as mailing-list

- 👸 Discuss Policies
- *Organize Bugdays*
- **CANSION** Answer Questions
- Subscribe http://mail.gnome.org/mailman/

listinfo/gnome-bugsquad

#bugs on GIMPnet

- 👸 Easy Questions
- 🍍 hang around

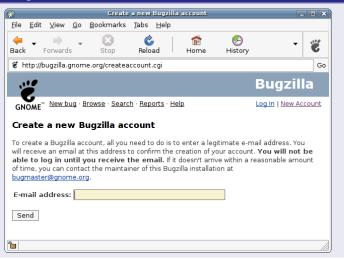


Beginners Guide

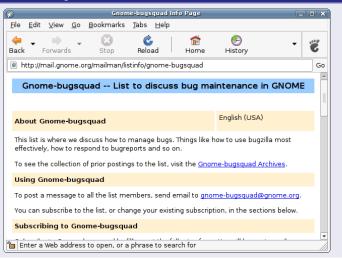
How do I triage bugs?

How do I triage bugs?

Create Bugzilla Account



Subscribe Mailinglist



How do I triage bugs?

Read Triage Guide



Beginners Guide (cont.)

How do I triage bugs?

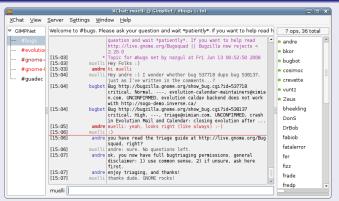
Triage bug reports

Write Comments, Ask on IRC or Mailinglist

Beginners Guide (cont.)

How do I triage bugs?



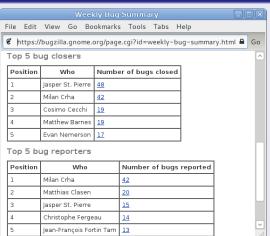


On IRC or on Mailinglist

Beginners Guide (cont.)

How do I triage bugs?

Be in the top 10!



Collect Points

Real Triagers are older in bugzilla points than in real life

Best Practice Pitfalls

How does Triaging look like?

Communication

- Be nice, be friendly, be happy
- 👸 Answer early, answer often
- 👸 Be nice, be friendly, be happy



Best Practice Pitfalls (cont.)

How does Triaging look like?

Methods

- 🏅 Adjust Bugzilla Metadata (Version, Product, ...)
- 👸 Ask for proper Stacktrace (C vs Mono vs Python vs ...)
- Analyze Stacktrace (Ignore Glib/Gtk+ buzz, Find crashing function, . . .)
- look for Dups with Traceparser
- Rename Bug to include crashing function, filename, location
- Watch out for modules that don't like being triaged (Pango and vte)



Status Fields

What do all these fields mean, anyway?

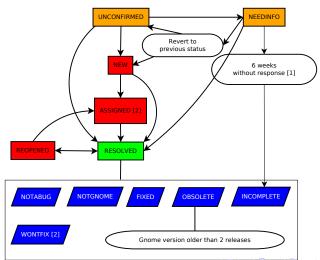
UNCONFIRMED This bug has recently been added to the database. Nobody has validated that this bug is true. Users who have obtained permissions from the bugsquad may confirm this bug, changing its state to → NEW. It may also be directly resolved and marked RESOLVED, or more information may be necessary, moving it to NEEDINFO.

NEW This bug has recently been added to the assignee's list of bugs and must be processed. Bugs in this state may be accepted and become →ASSIGNED, passed on to someone else and remain NEW, or resolved and marked RESOLVED.

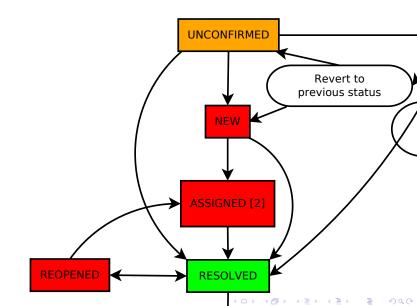
- ASSIGNED This bug is not yet resolved, but is assigned to the proper person. From here bugs can be given to another person and become NEW, or resolved and become \rightarrow RESOLVED.
- NEEDINFO More information from the reporter is needed to proceed further in fixing this bug. This should not be used when someone needs more information from a developer- a NEW or ASSIGNED bug implicitly needs more information from the developer.
- RESOLVED The bug has been resolved in some way. The resolution field should contain a secondary status describing the way in which it was resolved. See the Resolutions section for more details.

Status Fields (cont.) What do all these fields mean, anyway?

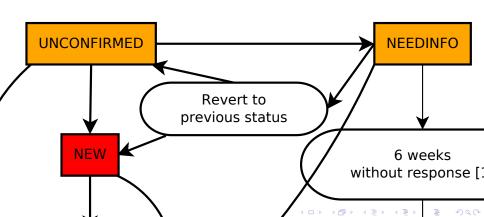
VERIFIED GNOME does not substantially use VERIFIED (or CLOSED). When used, they indicate that a third party has checked to see that a bug was properly resolved.



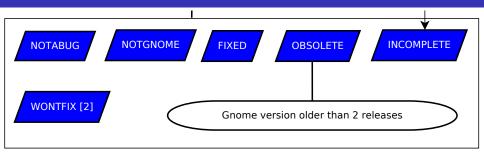
Triaging Diagram Normal Flow



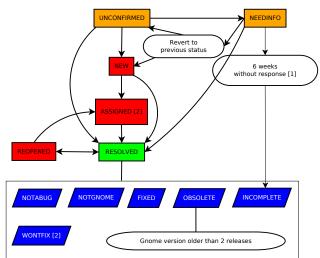
Triaging Diagram NEEDINFO



Triaging Diagram Resolutions



[1] It's not always 6 weeks. Some maintainers explicitly asked to not close after 6 weeks [2] Only for maintainers



Conclusion

What we've just learned

- **GNOME** needs triagers
- 👸 It's easy to start triaging
- 👸 It's about people



Questions?

Questions?

