Bugzilla, Bug-squad and GNOME3

Presented By
Akhil Laddha
Agenda

- About me
- Bugzilla
- Bug triaging : In and Out
- Bugzilla Statistics
- GNOME3 contribution
- Q & A
Who am I?

Bug Master
Evolution QA
mailto: lakhil@gnome.org
IRC nick : lakhil
#bugs, #evolution on gimpnet
What is Bugzilla?

- Bug-Tracking System
- Open sourced
- Mozilla foundation initiative

url: bugzilla.gnome.org
Welcome to GNOME Bugzilla

File a Bug | Search | User Preferences

Enter a bug # or some search terms: Quick Search

Quick help | Install the Quick Search plugin


Home | New | Browse | Search | Find | Reports | Preferences | Log out: lakhi@novell.com

My Bugs:
Add: the named tag to bugs Commit
What is Bug triaging?

- Bug has enough information for the developers and makes sense.
- Bug has sensible "Severity" and "Priority" fields.
- Bug is filed in the right bucket.
Bugzilla Fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>NEW (edit)</td>
</tr>
<tr>
<td>Product</td>
<td>Evolution</td>
</tr>
<tr>
<td>Component</td>
<td>Mailer</td>
</tr>
<tr>
<td>Version</td>
<td>2.8.x</td>
</tr>
<tr>
<td>OS</td>
<td>other</td>
</tr>
<tr>
<td>Importance</td>
<td>Normal</td>
</tr>
<tr>
<td>Target Milestone</td>
<td>--</td>
</tr>
<tr>
<td>Assigned To</td>
<td><a href="mailto:evolution-mail-maintainers@ximian.com">evolution-mail-maintainers@ximian.com</a> (edit)</td>
</tr>
<tr>
<td>QA Contact</td>
<td>Evolution QA team (edit)</td>
</tr>
<tr>
<td>Whiteboard</td>
<td>evolution[attachments]</td>
</tr>
<tr>
<td>Keywords</td>
<td>probability</td>
</tr>
<tr>
<td>Reported</td>
<td>2006-12-18 09:30 IST by Akhi Laddha</td>
</tr>
<tr>
<td>Modified</td>
<td>2009-01-06 01:55 IST (History)</td>
</tr>
<tr>
<td>CC List</td>
<td>Add me to CC list</td>
</tr>
<tr>
<td>GNOME target</td>
<td>---</td>
</tr>
<tr>
<td>GNOME version</td>
<td>---</td>
</tr>
</tbody>
</table>

Commit
Cont... (Keyword)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Open Bugs</th>
<th>Total Bugs</th>
</tr>
</thead>
<tbody>
<tr>
<td>accessibility</td>
<td>Keyword for bugs related to accessibility issues.</td>
<td>Search</td>
<td>6363</td>
</tr>
<tr>
<td>API</td>
<td>Application Programming Interface</td>
<td>Search</td>
<td>1164</td>
</tr>
<tr>
<td>BLOCKED_BY_FREEZE</td>
<td>This keyword should be used for bugs for which action can be taken by the maintainer once feature/urstring/code freeze is removed, but for which all further actions are blocked until that time. Should be reserved for bugs containing a patch.</td>
<td>Search</td>
<td>81</td>
</tr>
<tr>
<td>build</td>
<td>Problems with the build system, source tree, etc (but not packages)</td>
<td>Search</td>
<td>679</td>
</tr>
<tr>
<td>documentation</td>
<td>This bug (or something in it) needs documenting</td>
<td>Search</td>
<td>1733</td>
</tr>
<tr>
<td>gnome-love</td>
<td>Marking a bug with this keyword means that you're willing to help someone fix the bug, or that it should be fixable by a beginner without any help. This should ONLY be set by a maintainer or people familiar with the code base, and ONLY when it looks like a project suitable for a new developer looking for a task.</td>
<td>Search</td>
<td>2950</td>
</tr>
<tr>
<td>HELPWANTED</td>
<td>Usually added by component owner, help appreciated here!</td>
<td>Search</td>
<td>184</td>
</tr>
<tr>
<td>HIG</td>
<td>Bug reporting an area where an application does not follow the HIG.</td>
<td>Search</td>
<td>612</td>
</tr>
<tr>
<td>i18n</td>
<td>This is an internationalization issue. This includes strings not marked for translation, things not working in certain locales etc. This is the infrastructure to support i18n.</td>
<td>Search</td>
<td>2865</td>
</tr>
<tr>
<td>keynav</td>
<td>Bug involves keyboard navigation (or lack of).</td>
<td>Search</td>
<td>915</td>
</tr>
<tr>
<td>L10N</td>
<td>This is a localisation issue, including errors in localisations, typos, etc. Adding locations and weather stations is one example. Correcting dates and time formats is another.</td>
<td>Search</td>
<td>2332</td>
</tr>
<tr>
<td>memory</td>
<td>Keyword for bugs filed about various problems regarding memory, from excessive memory use due to poor design to usage of uninitialized values identified by a tool such as valgrind.</td>
<td>Search</td>
<td>436</td>
</tr>
<tr>
<td>mozilla</td>
<td>Caused by mozilla bugs</td>
<td>Search</td>
<td>182</td>
</tr>
<tr>
<td>multthead</td>
<td>Keyword for bugs related to multthead displays.</td>
<td>Search</td>
<td>128</td>
</tr>
<tr>
<td>perf</td>
<td>A keyword for performance bugs.</td>
<td>Search</td>
<td>617</td>
</tr>
<tr>
<td>portability</td>
<td>This keyword indicates that this bug is related to the porting of GNOME to non-linux platforms, to compilers other than gcc, or to architectures other than i386.</td>
<td>Search</td>
<td>982</td>
</tr>
<tr>
<td>pref</td>
<td>The bug is a request for adding a configuration option.</td>
<td>Search</td>
<td>78</td>
</tr>
<tr>
<td>printing</td>
<td>Printing / preview issues</td>
<td>Search</td>
<td>323</td>
</tr>
<tr>
<td>probabledup</td>
<td>This bug is probably a duplicate of another bug but the person who added the designation doesn't have the time to search for the original offhand.</td>
<td>Search</td>
<td>1566</td>
</tr>
<tr>
<td>qa</td>
<td>Bugs that describe testing that needs to be done (and can be done by non-programmers)</td>
<td>Search</td>
<td>242</td>
</tr>
</tbody>
</table>

- Url https://bugzilla.gnome.org/describekeywords.cgi
Bugzilla Whiteboard Topics

\textbf{evolution[accounts]} \url{Search Bugzilla}
Bugs related to account setup, management, implementation, etc. Primarily for mail accounts but may also apply to remote address book or calendar accounts.

\textbf{evolution[attachments]} \url{Search Bugzilla}
Bugs related to email and iCalendar attachments. Applies to both Evolution and Evolution-Data-Server products.

\textbf{evolution[caldav]} \url{Search Bugzilla}
Bugs related to interacting with CalDAV servers. Applies to both Evolution and Evolution-Data-Server products.

\textbf{evolution[categories]} \url{Search Bugzilla}
Bugs related to categories for calendar events, tasks and memos. Applies to both Evolution and Evolution-Data-Server products.

\textbf{evolution[cleanup]} \url{Search Bugzilla}
Bugs related to cleanup chores: fixing compiler warnings, refactoring, migrating away from deprecated API, etc.

\textbf{evolution[comeditor]} \url{Search Bugzilla}
Bugs related to the editor window for calendar events, tasks and memos.

\textbf{evolution[composer]} \url{Search Bugzilla}
Bugs related to Evolution's mail composer. Applies to both Evolution and \texttt{Gtk+HTML} products.

\textbf{evolution[dbus]} \url{Search Bugzilla}
Topic for bugs related to the replacement of Bonobo with D-Bus in Evolution-Data-Server 2.30.

\textbf{evolution[disk-summary]} \url{Search Bugzilla}
Transient topic for bugs related to the SQLite-based \texttt{disk-summary} feature in Evolution 2.24.

\textbf{evolution[etable]} \url{Search Bugzilla}
Bugs related to Evolution's infamous ETable widget.

\textbf{evolution[express]} \url{Search Bugzilla}
Bugs related to Evolution's "express" mode.

\begin{itemize}
\item \url{http://live.gnome.org/Evolution/BugzillaTopics}
\end{itemize}
Bug Types:
- Crash
- Function failure
- Feature
- Usability
- Regression

Watch out Modules like gnome-panel, vte, pango
Do we need bug triaging?

Graph only against new bugs (Desktop) in last 6 months (Jan10-Jun10)
Bugs closed (Desktop) in last 6 months (Jan10-Jun10)
Bugzilla Statistics

Year 2007
Year 2008
Year 2009
Who does bug triaging?

- Highly Motivated bug squad members
- Maintainers
- Release team members
- Advanced Users
Bug triager's quality

- Sensible
- Patience
- Friendly
- Listener
Roles and Responsibility

- Assists in the prioritization of the defects
- Assigns the defects to the appropriate developer
- Helps in raising the quality of GNOME
How to start?

- Create a bugzilla account
- Read bug triaging guidelines
- Read stock responses
- Login to IRC #bugs
- Join bug-squad
- Ask for permission
Triaging Flow chart

1. UNCONFIRMED
   - NEW
   - ASSIGNED [2]
   - REOPENED
   - RESOLVED

2. NEEDINFO
   - Revert to previous status
   - 6 weeks without response [1]

3. Statuses:
   - NO BUG
   - NOTGnome
   - FIXED
   - OBSOLETE
   - INCOMPLETE
   - WONTFIX [2]

   Gnome version older than 2 releases

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

### STATUS

The **status** field indicates the general health of a bug. Only certain status transitions are allowed.

- **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 [bugslist](#) may confirm this bug, changing its state to **NEW**. Or, it may 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 **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.

- **REOPENED**
  - This bug was once resolved, but the resolution was deemed incorrect. For example, a **WORKSFORME** bug is **REOPENED** when more information shows up and the bug is now reproducible. From here bugs are either marked **ASSIGNED** or **RESOLVED**.

- **RESOLVED**
  - A resolution has been taken, and it is awaiting verification by QA. From here bugs are either re-opened and become **REOPENED**, are marked **VERIFIED**, or are closed for good and marked **CLOSED**.

- **VERIFIED and CLOSED**
  - 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.

### RESOLUTION

The **resolution** field indicates what happened to this bug.

- **FIXED**
  - A fix for this bug is checked into the tree and tested.

- **DUPLICATE**
  - The problem is a duplicate of an existing bug. Marking a bug duplicate requires the bug# of the duplicating bug and will at least put that bug number in the description field.

- **WONTFIX**
  - The problem described is a bug which will never be fixed.

- **NOTABUG**
  - The problem described is not actually a bug, but a design choice of some sort.

- **NOTGNOME**
  - The bug is either not in a module that is part of GNOME, or is caused by something outside of GNOME that cannot be worked around or otherwise resolved by the GNOME application.

- **INCOMPLETE**
How do we collaborate?

- Home page - http://live.gnome.org/Bugsquad
- Mailing list gnome-bugsquad@gnome.org
- Subscription url
  - http://mail.gnome.org/mailman/listinfo/gnome-bugsquad
- #bugs on gimpnet
- Organize bug day
GNOME3 Goals : Helping hands

- Revamp our User Experience
- Streamlining of the Platform
- Promotion of GNOME
Conclusion

- GNOME need triagers
- Easy to start
- Good opportunities ahead
Andre!
Special Thanks!
Q & A
Credits

- http://goodgoliath.goodgoliath.net/images/thumbs/
- freeiconsweb.com
- http://www.cherububble.com/whoami.htm
- http://www.saladeprensa.org/art787.htm