

How to kill a bug

YAPC::Europe & KohaCon23, Helsinki
August 15, 2023

Bugs will happen.

Nick Clemens



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What is a bug?

A **software bug** is an error, flaw or fault in a computer program or system that causes it to produce an incorrect or unexpected result, or to behave in unintended ways.

https://en.wikipedia.org/wiki/Software_bug

koha uses a wider definition:

- Typos and wrong grammar
- Missing documentation
- Improvement ideas
- New features
- New modules
- ...

Everything is a bug.



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A bug is filed

Bugzilla – Bug 33759 Typo: Thankyou Last modified: 2023-05-18 09:33:55 UTC

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| [Log out](#) [katrin.fischer@bsz-bw.de](#)

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Bug 33759 - Typo: Thankyou [\(edit\)](#)

<p>Status: NEW (edit)</p> <p>Alias: None (edit)</p> <p>Product: <input type="text" value="Koha"/></p> <p>Component: <input type="text" value="Notices"/> (show other bugs)</p> <p>Version: <input type="text" value="master"/></p> <p>Hardware: <input type="text" value="All"/> <input type="text" value="All"/></p> <p>Importance: <input type="text" value="P5 - low"/> <input type="text" value="minor"/> (vote)</p> <p>Assignee: Bugs List (edit) (take)</p> <p>QA Contact: Testopia (edit) (take)</p> <p>URL: <input type="text"/></p> <p>Keywords: <input type="text"/></p> <p>Personal Tags: <input type="text"/></p> <p>Depends on: <input type="text"/></p> <p>Blocks: <input type="text"/></p>	<p>Reported: 2023-05-18 09:15 UTC by Katrin Fischer</p> <p>Modified: 2023-05-18 09:33 UTC (History)</p> <p>CC List: <input type="checkbox"/> Add me to CC list 0 users (edit)</p> <p>Ignore Bug Mail: <input type="checkbox"/> (never email me about this bug)</p> <p>See Also: (add)</p> <p>Change sponsored?: <input type="text" value="---"/></p> <p>Patch complexity: <input type="text" value="---"/></p> <p>Documentation contact: <input type="text"/></p> <p>Documentation submission: <input type="text"/></p> <p>Text to go in the release notes: (edit)</p> <p>Version(s) released in: (edit)</p>
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Development workflow

A bug is filed



A patch is written

Write a patch

```
diff --git a/installer/data/mysql/en/mandatory/sample_notices.yml b/installer/data/mysql/e
n/mandatory/sample_notices.yml
index 3b0892188b..28c482bf9a 100644
--- a/installer/data/mysql/en/mandatory/sample_notices.yml
+++ b/installer/data/mysql/en/mandatory/sample_notices.yml
@@ -55,12 +55,12 @@ tables:
     - "[%- PROCESS 'html_helpers.inc' -%]"
     - "Dear [%- INCLUDE 'patron-title.inc' patron => ticket.reporter -%],<br>"
     - "<br>"
-     - "Thankyou for your report concerning [%- INCLUDE 'biblio-title.inc' biblio=
ticket.biblio link = 0 -%].<br>"
+     - "Thank you for your report concerning [%- INCLUDE 'biblio-title.inc' biblio
=ticket.biblio link = 0 -%].<br>"
     - "<br>"
     - "You reported: <br>"
     - "[%- ticket.body -%]<br>"
     - "<br>"
-     - "Thankyou"
+     - "Thank you"
```

```
commit 55e1c03fa61e68735732419185438632cc365cdd (HEAD -> my-33759-thankyou)
Author: Katrin Fischer <katrin.fischer@bsz-bw.de>
Date: Thu Aug 10 13:26:54 2023 +0000
```

Bug 33759: Fix typo 'Thankyou' in sample notices

This fixes the typo 'Thankyou' in some of the sample notices.

To test:

- * With the sample data
- * Create and run a report:
SELECT code,content FROM letter where content LIKE "%Thankyou%";
- * Verify 3 notices contain 'Thankyou'
- * Apply patch
- * Drop your database
- * Run the web installer
- * Run report again, you should no longer get any results

Write a patch – upload to bugzilla

Bug 33759 - Typo: Thankyou ([edit](#)) Save Changes

Status: Needs Signoff ([edit](#))

Alias: None ([edit](#))

Product:

Component: ([show other bugs](#))

Version:

Hardware:

Importance: ([vote](#))

Assignee: [Katrin Fischer](#) ([edit](#))

QA Contact: [Testopia](#) ([edit](#)) ([take](#))

URL:

Keywords:

Personal Tags:

Depends on:

Blocks:

Reported: 2023-05-18 09:15 UTC by [Katrin Fischer](#)

Modified: 2023-08-11 08:36 UTC ([History](#))

CC List: Add me to CC list
0 users ([edit](#))

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

See Also: ([add](#))

Change sponsored?:

Patch complexity:

Documentation contact:

Documentation submission:

Text to go in the release notes: ([edit](#))

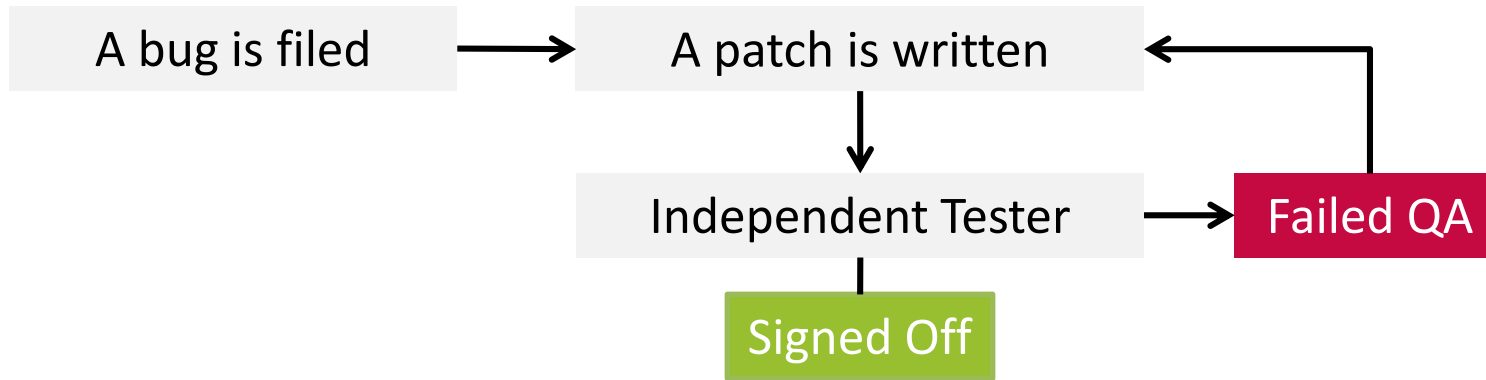
Version(s) released in: ([edit](#))

Orig. Est.:	Current Est.:	Hours Worked:	Hours Left:	%Complete:	Gain:	Deadline:
<input type="text" value="0.0"/>	<input type="text" value="0.0"/>	<input type="text" value="0.0"/> + <input type="text" value="0"/>	<input type="text" value="0.0"/>	<input type="text" value="0"/>	<input type="text" value="0.0"/>	<input type="text"/>

[Summarize time \(including time for bugs blocking this bug\)](#)

Attachments	
Bug 33759: Fix typo 'Thankyou' in sample notices (2.13 KB, patch) 2023-08-11 08:36 UTC, Katrin Fischer	Details Diff Splinter Review
Add an attachment (proposed patch, testcase, etc.)	View All

Development workflow



Bug 33759 - Typo: Thankyou ([edit](#))

[Save Changes](#)

Status: Signed Off ([edit](#))

Alias: None ([edit](#))

Product:

Component: ([show other bugs](#))

Version:

Hardware:

Importance: ([vote](#))

Assignee: [Katrin Fischer](#) ([edit](#))

QA Contact: [Testopia](#) ([edit](#)) ([take](#))

URL:

Keywords:

Personal Tags:

Depends on:

Blocks:

Reported: 2023-05-18 09:15 UTC by [Katrin Fischer](#)

Modified: 2023-08-14 19:24 UTC ([History](#))

CC List: Add me to CC list
1 user ([edit](#))

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

See Also: ([add](#))

Change sponsored?:

Patch complexity:

Documentation contact:

Documentation submission:

Text to go in the release notes:

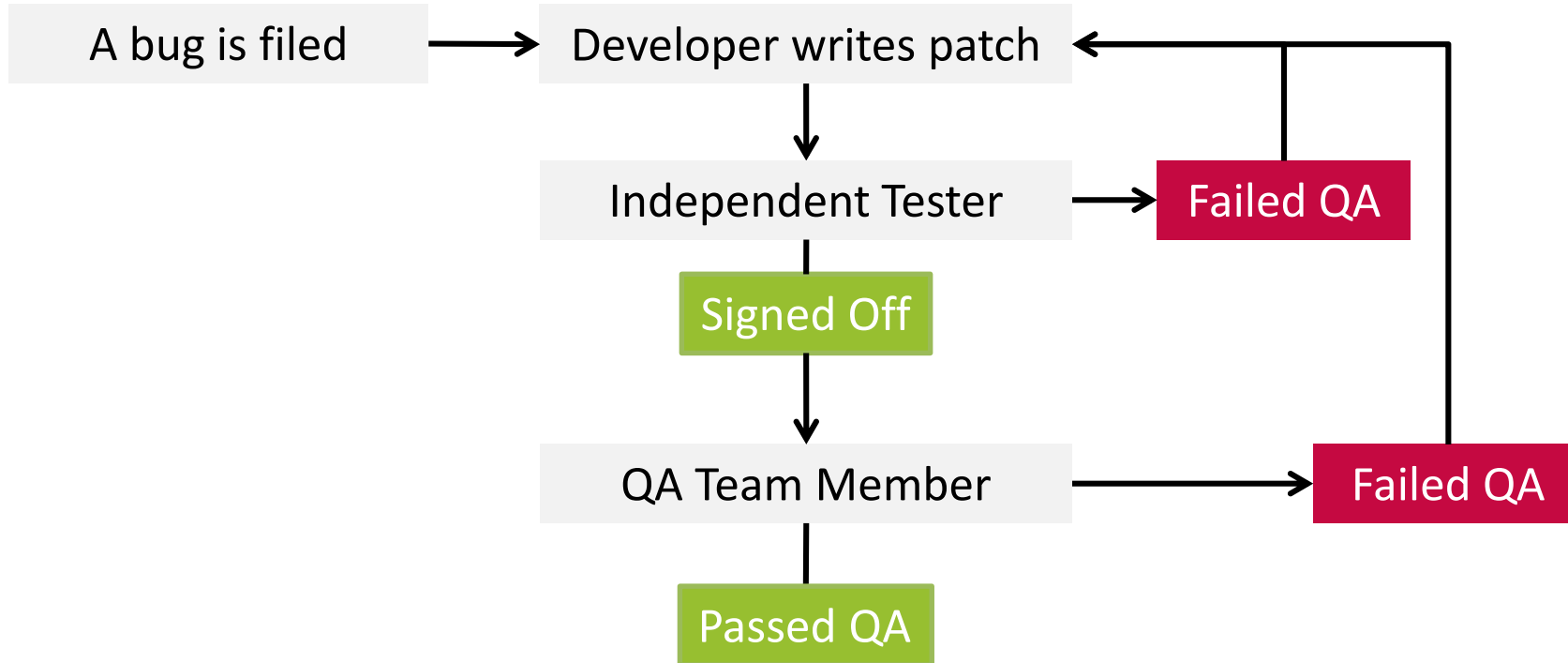
Version(s) released in: ([edit](#))

Orig. Est.:	Current Est.:	Hours Worked:	Hours Left:	%Complete:	Gain:	Deadline:
<input type="text" value="0.0"/>	<input type="text" value="0.0"/>	<input type="text" value="0.0"/> + <input type="text" value="0"/>	<input type="text" value="0.0"/>	<input type="text" value="0"/>	<input type="text" value="0.0"/>	<input type="text"/>

[Summarize time \(including time for bugs blocking this bug\)](#)

Attachments	
Bug 33759: Fix typo 'Thankyou' in sample notices (2.19 KB, patch) 2023-08-11 11:32 UTC, Alexander Wagner	Details Diff Splinter Review
Add an attachment (proposed patch, testcase, etc.)	Show Obsolete (1) View All

Development workflow



```
kohadev-koha@kohadevbox:koha(my-33759-thankyou)$ qa
testing 1 commit(s) (applied to 7957368 '34 Bug 33117: Make dbrev
idempotent')
```

```
Processing files before patches
|=====>| 1 / 1 (100.00%)
Processing files after patches
|=====>| 1 / 1 (100.00%)
```

```
OK installer/data/mysql/en/mandatory/sample_notices.yml
```

```
Processing additional checks OK!
```

```
kohadev-koha@kohadevbox:koha(my-33759-thankyou)$
```



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Navigation

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Tools

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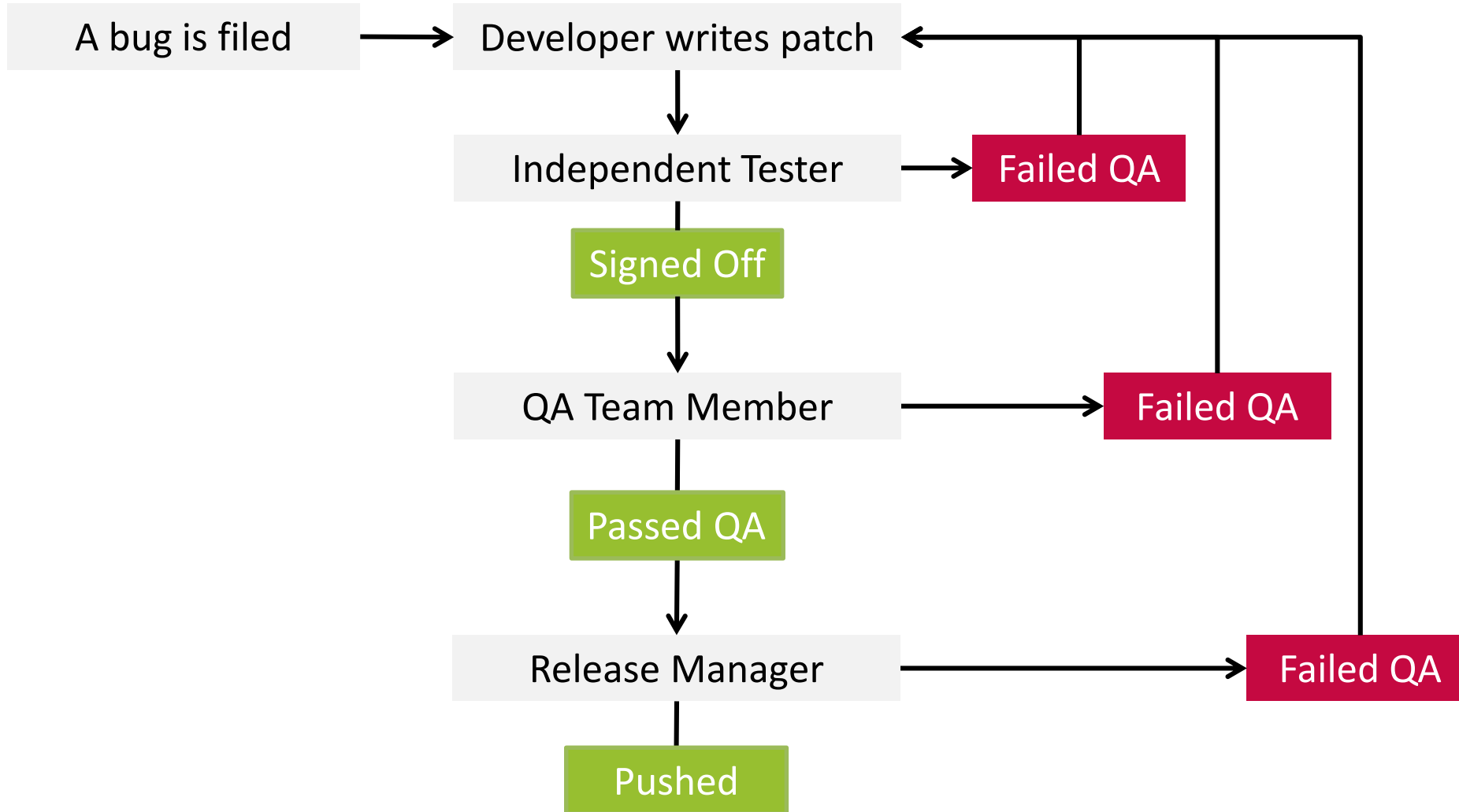
Page [Discussion](#) [Read](#) [View source](#) [View history](#)

Coding Guidelines

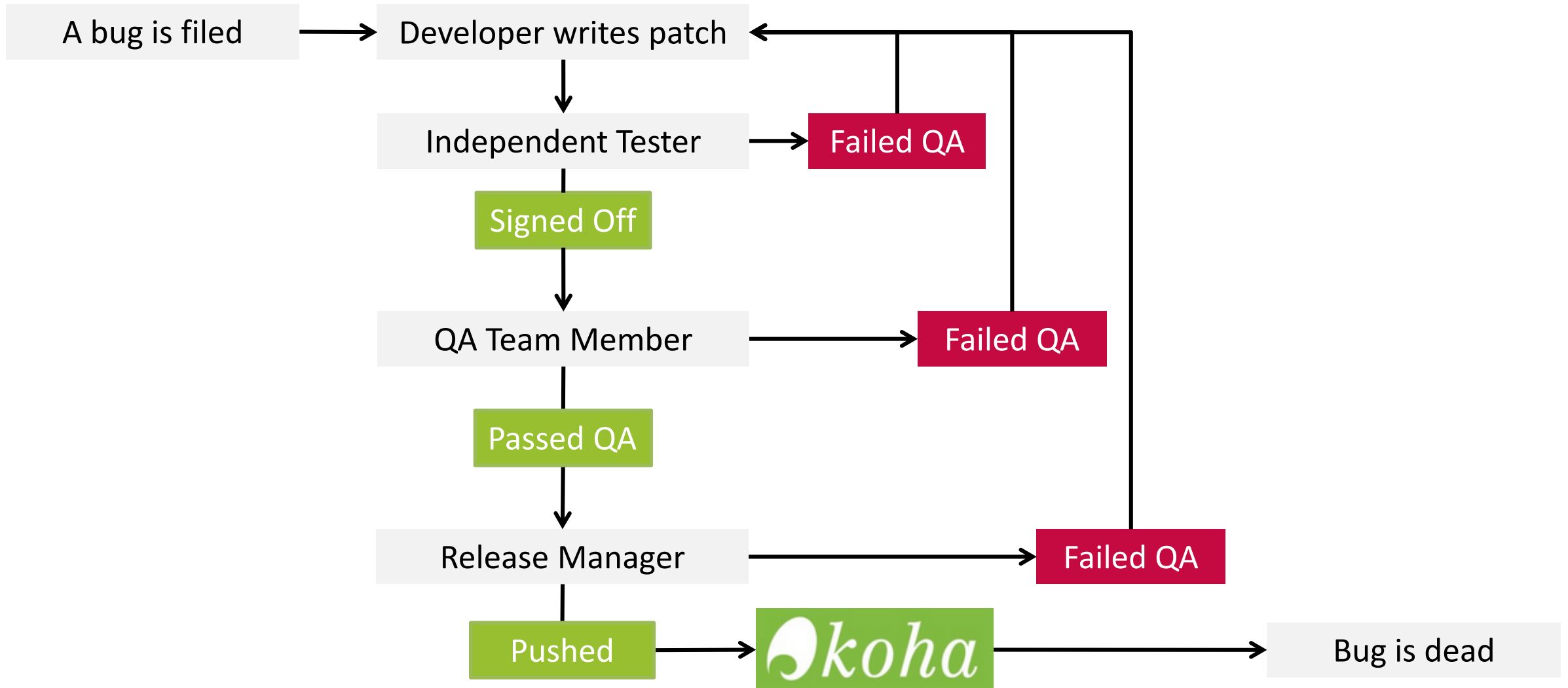
Contents [\[hide\]](#)

- 1 Basics
 - 1.1 Handling disagreements
 - 1.2 Licence
 - 1.3 Commit messages
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 - 1.5 Bug Numbers
 - 1.6 Indentation
 - 1.7 Editors
 - 1.7.1 Specific editor tricks
- 2 User Interface
 - 2.1 HTML Templates
 - 2.1.1 HTML1: Template Toolkit markup inside HTML
 - 2.1.2 HTML2: HTML inside Perl scripts
 - 2.1.3 HTML3: Displaying dates
 - 2.1.4 HTML4: Upper and lower cases in strings
 - 2.1.5 HTML6: A hash key with the same name as a TT virtual method
 - 2.1.6 HTML7: Use system preference TT plugin
 - 2.1.7 HTML8: Use Asset TT plugin for linking JavaScript and CSS files
 - 2.1.8 HTML9: Filter all template variables
 - 2.1.9 HTML10: Set autocomplete attribute on all password fields
 - 2.2 Notices
 - 2.2.1 NOTICE1: Default Notices should now be writing using template toolkit
 - 2.3 Accessibility
 - 2.3.1 ACC1: All OPAC pages require a single 'block' with the '.maincontent' class

Development workflow



Development workflow





Koha Dashboard

Koha release date

Random Bug

8762 Add option to remove custom MARC fields form export file (\$9, 9xx, etc.)

Random Quote

'oleonard: git stash... where ambitious dreams go to die...'

➤ Overall bug tracker health status: 6 blockers 3 criticals, 120 majors.

To Do

Needs Signoff

10 Oldest bugs

- 33074 - ReservesControlBranch not taken into account in opac-reserve.pl
- 33184 - Warnings when running holds queue builder
- 24172 - Locale is ignored when saving season name in the database
- 33842 - Search for authid not returning right results with QueryAutoTruncate ON
- 33856 - Inventory tool CSV export contains untranslatable strings
- 32695 - Search string for various 7xx linking fields is incorrectly formed
- 32707 - ElasticSearch should not auto truncate (even if QueryAutoTruncate = 1) for identifiers (and some other fields)
- 24143 - buildQuery should disable Query* on identifier search
- 29009 - Attempting to Koha-restore shows unnecessary SQL error
- 31393 - Koha::Config->read_from_file incorrectly parses elements with 1 attribute named "content" (Shibboleth config)

Needs QA

10 Oldest bugs

- 28658 - With SearchMyLibraryFirst if library isn't set for the opac, try to guess it by checking branchip
- 32740 - Add a new option patron home library to OverdueNoticeFrom
- 31631 - Optionally choose for tax-exclusive values to be used for calculating fund values (spent, ordered)
- 31391 - Staff-side recalls
- 33045 - Use process_tt in C4::Record::marcrecord2csv
- 12532 - Redirect guarantee email to guarantor
- 17385 - Add custom export formats for bibliographic records
- 28657 - Expand branches.branchip to allow for multiple space separated ip ranges
- 32335 - Allow stock rotation items to be moved several stages ahead
- 33170 - Refactor MarcltemFieldsToOrder code to make adding more fields simpler

Needs Documenting

10 Oldest bugs

- 29282 - Show items.issue and items.renewals in the holdings table on the detail page in the staff interface
- 21903 - koha-dump be able to include koha-upload
- 27667 - Display the number of non-indexed records
- 29824 - Allow for quick spine labels to be editable for printing
- 30484 - Interlibrary loans should have the ability to send notices based on request supplier updates
- 24239 - Let the ILL module set ad hoc hard due dates
- 22321 - Make it possible to edit illrequests.borrowernumber
- 13545 - Add barcode image generator service
- 29100 - Add checkouts data loop to predue/due notices script (advance_notices.pl)
- 32930 - [DOCS] No manual entry for "SMTP Servers"

Progress

Last Signoffs

10 Most recent signoffs

- 34364 - Background job - Fix visual progress of progress bar (Lucas Gass)
- 34445 - Default budget is not selected in addorderiso2709.pl (Lucas Gass)
- 34518 - "Renew all" button doesn't work in OPAC (Lucas Gass)
- 34431 - Distinguish between status and status_alias in ILL UI (Pedro Amorim)
- 30846 - "If any unavailable" doesn't consider negative notforloan values as unavailable (Hammat wele)
- 33462 - Force password change for new patrons entered by staff (Christopher Brannon)
- 34457 - Add card number to hold details page (Rebecca Coert)
- 34501 - Patron Purchase Suggestion table should include the non-public note (Lisette Scheer)
- 33759 - Typo: Thankyou (Alexander Wagner)
- 29930 - Auth with LDAP: Update tag leads to unwanted updates (Alexander Wagner)

New features

10 Newest features pushed

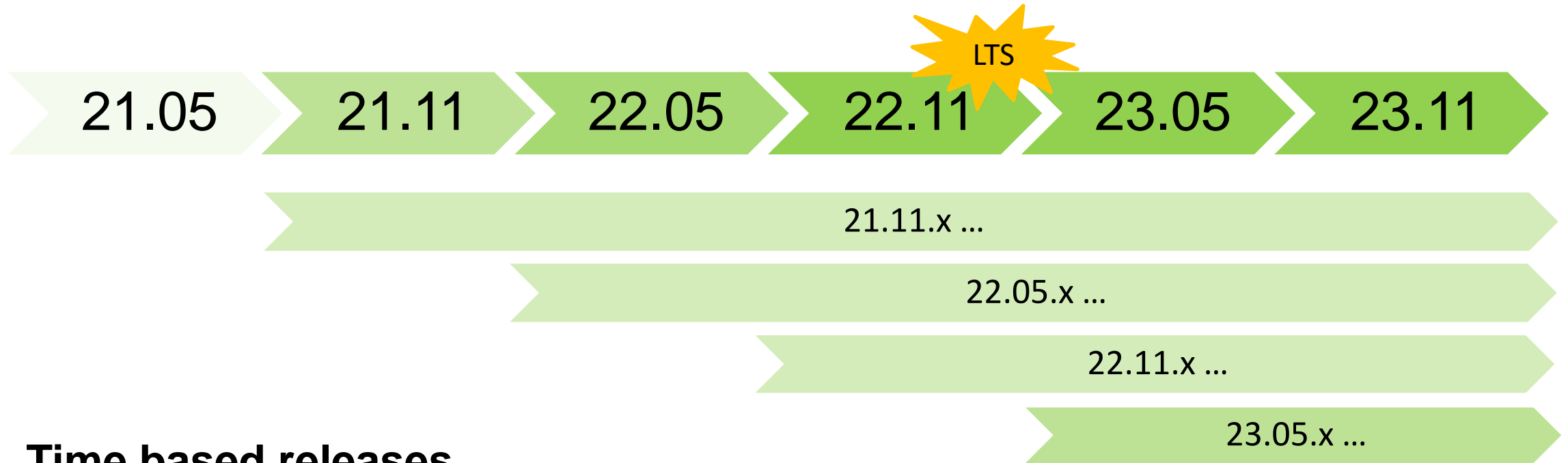
- 34226 - Format dates from DT filters before querying the REST API
- 32739 - REST API: Extend endpoint /auth/password/validation for cardnumber
- 34169 - Add validation for monetary input fields in acquisition module
- 32711 - Add biblio details to trusted self-checkout modal
- 34213 - False POD for matchpoint option in import_patrons.pl
- 33379 - virtualshelcontents.flags seems useless
- 34321 - Tidy skeleton too
- 33105 - Add vendor issues
- 28493 - Make koha-passwd display the username
- 33444 - AddRenewal should take a hash of parameters

The screenshot shows the GitLab interface for the 'koha-release-notes' repository. The top navigation bar includes links for 'About GitLab', 'Pricing', and 'Talk to an expert', along with a search bar and 'Register'/'Sign in' buttons. The left sidebar lists repository features like 'Project information', 'Repository', 'Issues' (with 1 issue), 'Merge requests' (with 0), 'CI/CD', 'Deployments', 'Packages and registries', 'Monitor', 'Analytics', 'Wiki', and 'Snippets'. The main content area shows a commit by 'PTFS Admin' with ID '23.06.00.013 7957368c34' and a file 'release_notes_23_06_00.md' (50.02 KiB). The file content displays the title 'RELEASE NOTES FOR KOHA 23.06.00' and the date '14 Aug 2023'. The text describes Koha as a free and open source library automation package, sponsored by libraries, volunteers, and support companies. It includes a link to 'Koha Community' and a 'Download' link for Koha 23.06.00. The page also mentions that installation instructions can be found at the bottom.

Avoiding zombie bugs

The screenshot shows the Jenkins dashboard interface. At the top, there is a search bar and navigation links for 'log in' and 'sign up'. The main content area is titled 'List of jobs that are currently enabled.' and includes a filter bar with tabs for '21.05', '21.11', '22.05', '22.11', '23.05', 'All', 'Enabled', and 'master'. Below this is a table of jobs with columns for status (S, W), name, last success, last failure, last duration, and number of builds. To the left, there is a sidebar with navigation options like 'People', 'Build History', and 'Build Queue'. The 'Build Queue' section shows 'No builds in the queue.' and the 'Build Executor Status' section shows four executors: 'Docker_1' (1 Idle), 'Docker_2' (1 Idle), 'Docker_3' (offline), and 'Docker_4'.

S	W	Name ↓	Last Success	Last Failure	Last Duration	Number of builds
✓	☀	Koha_21.05_D10	4 mo 29 days #313	N/A	1 hr 14 min	1 0
✓	☀	Koha_21.05_D11	4 mo 29 days #279	N/A	38 min	1 0
✓	☀	Koha_21.05_U18	4 mo 29 days #224	N/A	1 hr 11 min	1 0
✓	☀	Koha_21.05_U20	4 mo 29 days #235	N/A	42 min	1 0
✓	☀	Koha_21.05_U22	4 mo 29 days #63	N/A	39 min	1 0



Time based releases

- Feature releases in May and November
- Monthly bugfix releases

→ What's pushed in time, will be in the next release



No insects were harmed in the making of this presentation.

Thank you!
Any questions?

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- Bugzilla | <https://bugs.koha-community.org>
- Bug Reporting Guidelines | https://wiki.koha-community.org/wiki/Bug_Reporting_Guidelines
- Development environment - koha-testing-docker | <https://gitlab.com/koha-community/koha-testing-docker>
- Commit Messages | https://wiki.koha-community.org/wiki/Commit_messages
- Git bz | https://wiki.koha-community.org/wiki/Git_bz_configuration
- Coding Guidelines | https://wiki.koha-community.org/wiki/Coding_Guidelines
- Dashboard | <https://dashboard.koha-community.org>
- Release notes repository | <https://gitlab.com/koha-community/koha-release-notes>
- Continuous integration server | <https://jenkins.koha-community.org/>
- Koha Versioning | https://wiki.koha-community.org/wiki/Koha_Versioning
- Development Workflow | https://wiki.koha-community.org/wiki/Development_workflow