



Koha development ecosystem

Overview of the development side of Koha



Who am I?

Jonathan Druart aka Joubu

Working on Koha since 2010 (self-employed for 8 years).

Sponsored by

BibLibre (France)

ByWater Solutions (USA)

PTFS Europe (UK)

What is Koha?

- Integrated Library System (ILS)
- 1999 in New Zealand for Y2K bug
- Highly configurable and customizable

The screenshot displays the Koha library system interface. At the top, there is a navigation bar with links for Circulation, Patrons, Search, More, and a shopping cart icon. Below this is a search bar with the text "Check out" and "Enter patron card number or partial name". To the right of the search bar are links for "Check out", "Check in", "Renew", "Search patrons", and "Search catalog". The main content area is divided into two columns. The left column contains a "News" section with a "Welcome to Koha" article and a "What's Next?" section with a list of links. The right column contains a grid of buttons for various library functions: Circulation, Patrons, Advanced search, Item search, Lists, Course reserves, Authorities, Cataloging, Serials, Acquisitions, Reports, Preservation, Tools, Koha administration, and About Koha. The version number "Koha 23.06.00" is visible in the bottom right corner.

- Two interfaces: staff and public
- Exact number of libraries unknown (more than 15k)
- 50k+ commits, 489 developers



Strengths and weaknesses

Weaknesses

- Size of the community
 - Patches integration workflow
 - Age of the project
-
- Inconsistencies (bless vs Class::Accessor)
 - No proper roadmap
 - Focus on the same things at the same time
 - Legacy code
 - Wiki and website outdated, info spread

Strengths

- Size of the community
 - Patches integration workflow
 - Age of the project
-
- Coding guidelines
 - Free software
 - Good user manual
 - Solid sale market
 - Happy users
 - Flexible, customizable
 - Friendly and helpful community (welcome newcomers!)



Components

- Web server
 - Apache + Plack (Plack::App::CGIBin, Starman)
 - Koha as a Mojo app => Work in progress...
- MariaDB/MySQL (DBIx::Class wrapped into Koha::Object[s])
- REST API
 - Mojolicious
 - OpenAPI
- UI
 - Template::Toolkit
 - Bootstrap 4 for OPAC
 - jQuery
 - Vue.js
 - DataTables
- Search engines
 - Elastic
 - Zebra
- RabbitMQ
- Cache
 - Koha::Cache
 - Memcached
 - Sereal
- Tests (Code Coverage - 85%)
 - Test::More
 - Test::Mojo (REST API)
 - Selenium
 - Cypress (Vue)



Where to look on the web?

Official Koha website

koha-community.org



- Home
- News
- About ▾
- Calendar
- Demo
- Documentation ▾
- Download Koha
- Get Involved ▾
- KohaCon ▾
- Support ▾

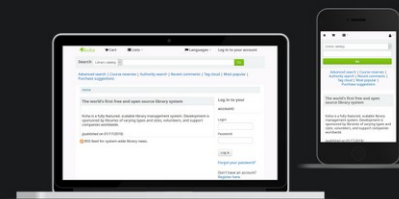
Koha Library Software

The world's first free and open source library system

Koha is a fully featured, scalable library management system. Development is sponsored by libraries of varying types and sizes, volunteers, and support companies worldwide.

Introducing Koha 23.05

[Try it now](#)



News

[Koha Community Newsletter: June 2023](#) Thursday June 29th, 2023

[Koha 22.05.14 released](#) Thursday June 29th, 2023

[Koha 23.05.01 released](#) Thursday June 29th, 2023

[Koha 22.11.07 released](#) Monday June 26th, 2023

[Koha 23.05 released](#) Thursday June 1st, 2023

Community Resources

@KohaLS@mastodon.world

[Bugzilla](#)

[Code of Conduct](#)

[Gitlab Mirror](#)

[Koha Git Repository](#)

[Koha Wiki](#)

Miss a post?


Select Month



Wiki

wiki.koha-community.org

[British English](#)
[Log in](#)
[Request account](#)



[Main page](#)
[Discussion](#)

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

Official Koha Site

[Koha Manuals](#)

[Koha Newsletter](#)

Navigation

[Wiki Home](#)

Categories

[Advanced search current](#)

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Categories

[About Koha](#)

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[Koha Conferences](#)

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Tools

[What links here](#)

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Main Page

Welcome to the official wiki of Koha.

Please help us to populate the new site by registering for an account and by making your valuable edits on the site.

Koha is an [integrated library system \(ILS\)](#) and was the first [open source](#) ILS. Koha was created in 1999 by [Katipo Communications](#) for the [Horowhenua Library Trust](#) in [New Zealand](#). The first installation went live in January of 2000.

Contents [\[hide\]](#)

- 1 [Getting Involved](#)
- 2 [Categories](#)
- 3 [Koha Community Sites \(and their status\)](#)
- 4 [Wiki Updates](#)

Getting Involved

- [Getting involved](#)

Categories

Current wiki content can be found under the following categories:

- [About Koha](#)
- [Community Participation](#)
- [Documentation](#)
- [Installation](#)
- [Development](#)
- [Koha & Git](#)
- [Koha Conferences](#)
- [Legal Matters](#)
- [Tips & Tricks](#)
- [Shared Resources](#)

Koha Community Sites (and their status)

Other official Koha sites are as follows:

- [www.koha-community.org](#)
- [wiki.koha-community.org](#)
- [lists.koha-community.org](#) (Mailing lists are all the rage with the kidses.)
- [irc.koha-community.org](#) Log of the Internet Relay Chat (IRC) channel on Koha
- [bugs.koha-community.org](#) Bugzilla
- [git.koha-community.org](#) Git repository for distributed version control
- [dashboard.koha-community.org](#) (automatically updated overview of development activities)
- [debian.koha-community.org](#)
- [download.koha-community.org](#) (Come and get your stuff!)
- [perldoc.koha-community.org](#)
- [splitter2.koha-community.org](#)
- [paste.koha-community.org](#) (for sending pastes to the #koha IRC channel)
- [jenkins.koha-community.org](#) Continuous integration server
- [schema.koha-community.org](#) SQL schema
- [translate.koha-community.org](#) (Psst, Librarians, you can help a lot here.)
- [meetings.koha-community.org](#) IRC meeting logs and minutes.
- [hea.koha-community.org](#) Koha stats
- [https://twitter.com/kohails](#) - community Twitter, currently maintained by David Nind
- [api.koha-community.org](#) Koha API documentation

Details of who hosts what etc. Please add others or links when those sites are up.

Koha bug tracker

bugs.koha-community.org

Bugzilla – Main Page

version 5.0.6

[Home](#) | [New](#) | [Browse](#) | [Search](#) | [?] | [Reports](#) | [New Account](#) | [Log In](#) | [Forgot Password](#)

Welcome to Bugzilla



[File a Bug](#)



[Search](#)



[Open a New Account](#)



[Documentation](#)



[Dashboard](#)

Enter a bug # or some search terms

[?]

Common Queries:

Bugs reported in the [last 24 hours](#) | [last 7 days](#)

Bugs changed in the [last 24 hours](#) | [last 7 days](#)

[Home](#) | [New](#) | [Browse](#) | [Search](#) | [?] | [Reports](#) | [New Account](#) | [Log In](#) | [Forgot Password](#)



Koha git repository

git.koha-community.org

Home Explore Help [← Sign In]

Repositories Users Organizations <> Code

Search... Search Sort ▾

Koha-community / Koha	JavaScript ☆ 5 🐞 0
Main Koha release repository Updated 45 minutes ago	
Koha-community / koha-release-notes 📄	Markdown ☆ 0 🐞 0
Updated 2 hours ago	
Koha-community / release-tools 📄	Perl ☆ 1 🐞 0
A collection of release tools used for Koha Updated 13 hours ago	
Koha-community / qa-test-tools 📄	Perl ☆ 1 🐞 0
Updated 5 days ago	
Koha-community / koha-manual 📄	Python ☆ 0 🐞 0
Koha Documentation repository Updated 5 days ago	
Koha-community / koha-testing-docker 📄	Dockerfile ☆ 1 🐞 0
Updated 5 days ago	
Koha-community / git-bz 📄	Python ☆ 0 🐞 0
git-bz client for Koha Updated 4 weeks ago	

GitStats

git.koha-community.org/stats

GitStats - koha

General Activity Authors Files Lines Tags

Project name:

koha

Generated:

2023-07-11 23:46:14 (in 2730 seconds)

Generator:

[GitStats](#) (version 55c5c28), git version 2.20.1, gnuplot 5.2 patchlevel 6

Report Period:

1999-10-21 21:13:42 to 2023-07-11 23:00:37

Age:

8665 days, 6148 active days (70.95%)

Total Files:

7953

Total Lines of Code:

16356592 (112918300 added, 96561708 removed)

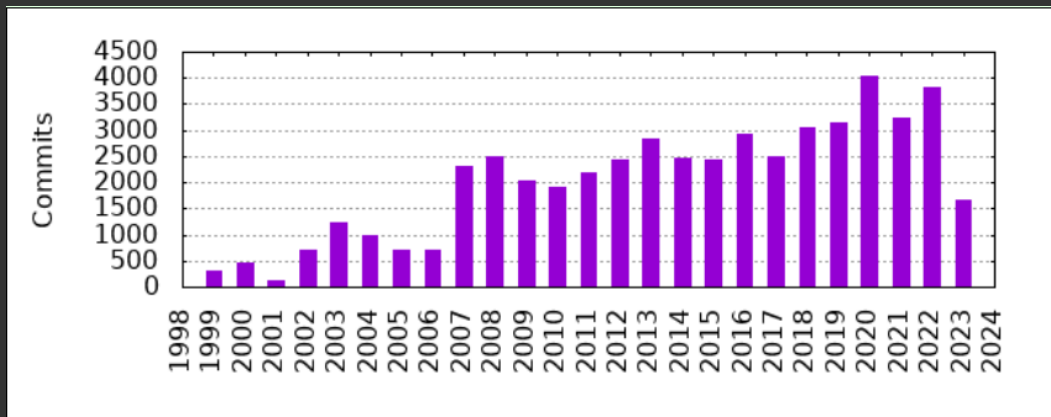
Total Commits:

50750 (average 8.3 commits per active day, 5.9 per all days)

Authors:

492 (average 103.2 commits per author)

Extension	Files(%)	Lines(%)
po	921 (11.58%)	14893197 (91.05%)
pl	1061 (13.34%)	162779 (1.00%)
pm	1085 (13.64%)	233043 (1.42%)
t	647 (8.11%)	158128 (0.97%)
tt	539 (6.78%)	157984 (0.97%)
vue	42 (0.53%)	7889 (0.05%)





CI

jenkins.koha-community.org

Dashboard > master >

- People
- Build History
- Project Relationship
- Check File Fingerprint
- Job Import Plugin

[21.05](#)
[21.11](#)
[22.05](#)
[22.11](#)
[23.05](#)
[All](#)
[Enabled](#)
[master](#)

Build Queue (9) ▼

- [Koha_23.05_U22](#)
- [Koha_23.05_U23](#)
- [Koha_23.05_U20](#)
- [Koha_22.11_D12](#)
- [Koha_22.11_U20](#)
- [PTFS_22.11_BUILD](#)
- [PTFS_22.11_D12](#)
- [Koha_22.11_D11](#)
- [Koha_22.11_D10](#)

Build Executor Status ▼

- Docker_1**
 - 1 [Koha_23.05_D12](#) #12
- Docker_2**
 - 1 [Koha_22.11_U22](#) #196
- Docker_3** (suspended)
 - 1 [Koha_Master_D10](#) #1210

S	W	Name ↓	Last Success	Last Failure	Last Duration	Number of builds
		Koha_Master	16 hr #2581	18 days #2567	1 hr 5 min	
		Koha_Master_CPAN	12 days #626	2 mo 18 days #607	1 hr 1 min	
		Koha_Master_D10	1 day 14 hr #1208	2 mo 18 days #1122	1 hr 4 min	
		Koha_Master_D10-Core	1 yr 11 mo #91	N/A	46 min	
		Koha_Master_D10-Full	1 yr 11 mo #152	N/A	1 hr 0 min	
		Koha_Master_D10-Tarball	N/A	N/A	N/A	
		Koha_Master_D11	7 mo 15 days #481	N/A	44 min	
		Koha_Master_D11_ARM64	N/A	N/A	N/A	
		Koha_Master_D12	21 hr #592	2 mo 18 days #520	1 hr 14 min	
		Koha_Master_ES6	12 days #364	N/A	7 min 14 sec	
		Koha_Master_ES7	12 days #342	2 mo 18 days #323	7 min 0 sec	
		Koha_Master_ES8	2 mo 1 day #6	N/A	16 min	
		Koha_Master_MDB_Latest	12 days #1309	N/A	51 min	
		Koha_Master_My8	12 days #1228	N/A	1 hr 19 min	
		Koha_Master_OS1	12 days #117	N/A	8 min 23 sec	



Translation

translate.koha-community.org

Koha Translation Project

Browse ▾ All Languages ▾ All Projects ▾

Top contributors: #1 Magnus Enger 2,329 #2 Adam 1,778 #3 ManuB. 1,745

Search unavailable 🔍

Critical errors 388,558

Suggestions 33,042

Incomplete 43,659,739

All 64,619,883

Name ↕	Progress ▾	Last Activity ↕	Critical ↕	Suggestions ↕	Incomplete ↕	Total ↕
MARC21 SQL Files	<div><div style="width: 30%;"></div></div>	Ronald Wijlens 1 week	0	30	27,188	101,232
Terminology	<div><div style="width: 20%;"></div></div>	Eugenios Papadopoulos 4 weeks	3	15	40,834	92,266
Koha manual 21.05	<div><div style="width: 40%;"></div></div>	Mathieu Saby 4 days	3,828	5,068	1,432,811	2,398,867
Koha manual 22.05	<div><div style="width: 35%;"></div></div>	Mathieu Saby 4 days	2,973	459	1,479,144	2,473,263
Koha manual 21.11	<div><div style="width: 30%;"></div></div>	Mathieu Saby 4 days	3,861	0	1,459,637	2,422,028
Koha manual 20.11	<div><div style="width: 25%;"></div></div>	Mathieu Saby 4 days	2,786	623	1,446,608	2,362,962
Koha 22.11	<div><div style="width: 45%;"></div></div>	Ronald Wijlens 40 minutes	82,250	15,586	7,905,000	11,527,782
Koha 21.11	<div><div style="width: 30%;"></div></div>	Katrin Fischer 2 days	64,318	3,373	7,194,832	10,446,711
Koha 22.05	<div><div style="width: 35%;"></div></div>	Илиян Дамянов 3 days	76,279	812	7,535,859	10,927,852
Koha 21.05	<div><div style="width: 30%;"></div></div>	Shahab bohlooli 5 hours	59,835	6,686	7,078,126	10,244,972
Koha 23.05	<div><div style="width: 35%;"></div></div>	Igor A. Sychev 4 hours	92,425	390	8,059,700	11,621,948
Tutorial						

Manual (user)

koha-community.org/documentation

Documentation

In addition to the following Koha Manuals, you can find helpful tutorials and

To view the manual revision history, please visit our [git page](#).

Please keep in mind that these manuals are living documents and change over time. Please refer to the [PDF and others](#).

Installation instructions

The best instructions to use for most installations can be found on our wiki.

[Install using Debian packages on either Debian or Ubuntu](#)

Koha 23.05 (stable)

- [23.05 Manual \(English\) \[HTML\] \[ePub\]](#)
- [23.05 Manual \(Arabic\) \[HTML\] \[ePub\]](#)
- [23.05 Manual \(Chinese – Taiwan\) \[HTML\] \[ePub\]](#)
- [23.05 Manual \(Czech\) \[HTML\] \[ePub\]](#)
- [23.05 Manual \(French\) \[HTML\] \[ePub\]](#)
- [23.05 Manual \(French – Canada\) \[HTML\] \[ePub\]](#)
- [23.05 Manual \(German\) \[HTML\] \[ePub\]](#)
- [23.05 Manual \(Hindi\) \[HTML\] \[ePub\]](#)
- [23.05 Manual \(Italian\) \[HTML\] \[ePub\]](#)
- [23.05 Manual \(Portuguese – Brazil\) \[HTML\] \[ePub\]](#)
- [23.05 Manual \(Spanish\) \[HTML\] \[ePub\]](#)
- [23.05 Manual \(Turkish\) \[HTML\] \[ePub\]](#)

Koha Manual

23.05

Search docs

Introduction

Introduction to the Koha installation process

Web installer

Onboarding tool

Advanced configurations

System preferences

Administration

Tools

Patrons

Point of sale

Circulation

Cataloging

Course reserves

Serials

Acquisitions

E-Resource management

Lists and cart

Reports

OPAC

Searching

Plugin system

About Koha

ILL requests / Interlibrary loans

Implementation checklist

Cron jobs and daemons

Cataloguing plugins (value builders)

Web services

Other APIs and protocols

Extending Koha

Using third party software with Koha

Configuring receipt printers

Important links

FAQs

GNU General Public License version 3

/ Koha 23.05 (development) Manual (en)

Koha 23.05 (development) Manual (en)

Author: The Koha Community

- [Introduction](#)
 - [Koha basics](#)
 - [Koha recommendations](#)
 - [Using this manual](#)
 - [Contributing to the manual](#)
 - [Contributing to Koha](#)
- [Introduction to the Koha installation process](#)
 - [What is the Koha web installer?](#)
 - [What is the Koha onboarding tool?](#)
- [Web installer](#)
 - [Web installer login](#)
 - [Language picker](#)
 - [Installer perl modules installed](#)
 - [Database settings](#)
 - [Ready to fill tables with data](#)
 - [Database tables created](#)
 - [Ready for basic configurations](#)
 - [Select MARC flavour](#)
 - [MARC21 and UNIMARC setup](#)
 - [MARC21 setup](#)
 - [UNIMARC setup](#)
 - [Selected data added](#)
 - [Redirect to onboarding tool](#)
- [Onboarding tool](#)
 - [Create a library](#)
 - [Create a patron category](#)
 - [Create a patron](#)
 - [Create an item type](#)
 - [Create a circulation rule](#)
 - [Onboarding tool complete](#)
 - [Login to access staff interface](#)
 - [Staff interface](#)



Side-projects

gitlab.com/koha-community

- koha-dashboard
- hea (collect and publish data)
- koha-sandboxes-docker (ansible)
- qa-test-tools
- release-tools
- git-bz
- koha-testing-docker ("ktd")
- koha-misc4dev
- bz-splitter
- koha-manual
- koha plugins – gitlab.com/koha-community/plugins
- kohadevbox (ansible) => deprecated in favour of ktd



Dashboard

dashboard.koha-community.org

Home | Wiki | Bugfixes | Jenkins | Sandboxes

Koha Dashboard

Overall bug tracker health status: 1 blockers 2 criticals, 118 majors.

To Do

Needs Signoff

10 Oldest bugs

- 33071 - ReservesControlBranch not taken into account in openreserve.pl
- 29930 - Auth with LDAP: Update tag leads to unwanted updates
- 33032 - Add a message for from, local_hold_group override
- 31148 - Warning when saving holds queue builder
- 33045 - Searching for authority with holdres surrounded by spaces causes error 500 (with ES)
- 34172 - Locale is ignored when saving session name in the database
- 33032 - Search for author not returning right results with OpenAristotleSearch ON
- 33036 - Inventory hold CSV export contains untranslatable strings
- 33036 - Search string for various 7xx linking fields is incorrectly formed
- 33035 - Use template wrapper for tabs: OPAC user summary

Needs QA

10 Oldest bugs

- 33060 - Add ability to generate custom slips for patrons
- 33030 - Modify sentence above the order table in English: page order PDF
- 33471 - Improve performance of hold pickup location verification for most available holds
- 28603 - With SearchMyLibrary First if library isn't set for the record, by its name is by checking branching
- 32740 - Add a new option patron home library to OpenAristotleForm
- 33020 - Independent@branchesTransfer does not prevent holds from creating transfers
- 31541 - Optionally choose for the exclusive values to be used for calculating fund values (report, ordered)
- 23781 - Recall notices and messaging preferences
- 33036 - Send a notification when a request is manually cancelled
- 31381 - Staff-side recalls

Needs Documenting

10 Oldest bugs

- 26262 - Show items issue and items renewals in the holdings table on the detail page in the staff interface
- 30430 - LINMARC XSLT - displaying I448_B_214
- 31903 - Make date tag able to include full-qualified
- 30787 - Terminology: Do not forget that the issue has not been checked in yet
- 27927 - Display the number of non-indexed records
- 26224 - Allow for quick update labels to be editable for printing
- 30444 - Interlibrary loans should have the ability to send notices based on request supplier options
- 27779 - Cashup summary 'refunds' should denote what the refund was received against
- 24230 - Let the IL module set of hold hard due dates
- 23231 - Make it possible to edit requests borrowernumber

Progress

Last Signoffs

10 Most recent signoffs

- 33981 - On review "change currency" is always checked (Michaëla Sieber)
- 27378 - Enable compliance with EU Cookie Legislation via cookie consent (Matt Borkenstep)
- 30700 - Patrons who can log into staff client should be able to change their own password (Sam Lau)
- 31445 - Add hold-include option: If all items are checked out OR the record has at least one hold already (Sam Lau)
- 34223 - Add payment sections and teach operators to item search (Sam Lau)
- 34220 - Add translation context to "Managed by" (Lucas Goss)
- 31427 - Results due date to the minute rather than 23:59 (Sam Lau)
- 34234 - Improve contrast in staff interface main page layered icons (Sam Lau)
- 6795 - Overnight checkouts taking into account opening and closing hours (Sam Lau)
- 31723 - Offer user a dropdown of authorized values instead of a text field in preferences (Sam Lau)

New features

10 Newest features pushed

- 33776 - Add ALLocs in default plugin repositories
- 34062 - MARC21 508 is missing from staff interface and has no label
- 34232 - Bug 33338 follow-up
- 34131 - Plugins page breadcrumbs and side menu not consistent
- 34224 - Improve in-page navigation on table settings page
- 34204 - Improved translations of strings on the about page
- 33029 - Add wrapper method for dt, from, string to KohaDates template local plugin
- 33469 - Add 'test' name param to Koha::Biblio->items local plugin
- 34151 - Limit items types that can be checked out via SIP2
- 34202 - patron-autocomplete.js and patron-search.js search logic should match

Bug activity

2023-07-10: 176 changes
 2023-07-11: 110 changes
 2023-07-12: 71 changes

Bug statuses

- Needs Signoff: 177 251 20
- Signed Off: 10 13 38
- Passed QA: 85 22 39
- Needs Documenting: 12
- Failed QA: 1
- Patch Doesn't Apply: 1
- Needs Additional Work: 1
- In Discussion: 1

Package statuses

22.11: 22, 11, 17, 2 on 2023-06-27
 22.06: 22, 05, 14, 1 on 2023-07-07
 21.11: 21, 11, 21, 2, 1 on 2023-06-10
 21.06: 21, 05, 21, 0, 2, 1 on 2022-12-06

Build statuses

	U16	D10	U20	D11	D16	U22
Master	passed	testing	passed	testing	testing	testing
22.05.x	failed	testing	testing	testing	testing	testing
22.11.x	failed	testing	testing	testing	testing	testing
22.06.x	failed	testing	testing	testing	testing	testing
21.11.x	failed	testing	testing	testing	testing	testing

EDA E57 O51 M08 M50L4

D11: passed failed testing

Package pushed into cycle

Rescues - July

- Karin Fischer - 4
- Jonathan Duart - 3
- Marcel de Rooy - 1
- Matt Borkenstep - 1
- Michaëla Sieber - 1
- Tomás Cohen Arza - 1
- Emily Lamacaus - 1
- Total - 12

Documentations - July

- Caroline Cyr La Rose - 5
- Total - 5

Signoffs - July

- Sam Lau - 21
- Owen Leonard - 5
- Lucas Goss - 4
- Phil Rogstad - 3
- Martin Remozac - 3
- Jonathan Duart - 3
- Alexander Blanchard - 3
- Emily Lamacaus - 3
- Magnus Enger - 1
- Jan Kratoch - 1
- David Neri - 1
- Tomás Cohen Arza - 1
- Pedro Amorim - 1
- Andrew Fuentetaja Henry - 1
- Matt Borkenstep - 1
- Michaëla Sieber - 1
- Total - 53

Passed QA - July

- Karin Fischer - 20
- Jonathan Duart - 9
- Marcel de Rooy - 9
- Phil Rogstad - 8
- Martin Remozac - 7
- Tomás Cohen Arza - 2
- Pedro Amorim - 2
- Kyle M Hall - 2
- Nick Clemens - 1
- Total - 60

Failed QA - July

- Jonathan Duart - 2
- Marcel de Rooy - 7
- Karin Fischer - 2
- Michaëla Sieber - 2
- Sam Lau - 2
- Phil Rogstad - 1
- Tomás Cohen Arza - 1
- Emily Lamacaus - 1
- Total - 23

Rescues - 2023

- Karin Fischer - 35
- Jonathan Duart - 15
- Tomás Cohen Arza - 14
- Nick Clemens - 13
- Martin Remozac - 11
- Marcel de Rooy - 9
- Hannu Avelo - 6
- Kyle M Hall - 5
- David Cook - 4
- Emily Lamacaus - 4
- Lucas Goss - 3
- David Neri - 3
- Matt Borkenstep - 3
- Lucas Goss - 2

Documentations - 2023

- Caroline Cyr La Rose - 116
- Audie Charlton - 9
- Martin Remozac - 5
- Audie Charlton - 3
- Martin Remozac - 2
- Mura Lora Lefebvre - 2
- Caroline Cyr La Rose - 1
- Karin Fischer - 1
- Andrew Fuentetaja Henry - 1
- Total - 140

Signoffs - 2023

- David Neri - 302
- Sam Lau - 102
- Martin Remozac - 59
- Audie Charlton - 45
- Owen Leonard - 42
- Martin Remozac - 70
- Matt Borkenstep - 39
- Andrew Fuentetaja Henry - 35
- Laura Escamilla - 34
- Caroline Cyr La Rose - 32
- Andrew Audi - 32
- Pedro Amorim - 29
- David Cook - 24
- Victor Grosshansberg - 21
- David Cook - 10
- Archie Brooker - 9
- Masson James - 7
- Pedro Amorim - 3
- Enrique Gomez - 3

Passed QA - 2023

- Karin Fischer - 204
- Martin Remozac - 149
- Lucas Goss - 139
- Nick Clemens - 135
- Jonathan Duart - 134
- Karin Fischer - 94
- Tomás Cohen Arza - 61
- Lucas Goss - 54
- Victor Grosshansberg - 51
- David Cook - 10
- Archie Brooker - 9
- Masson James - 7
- Pedro Amorim - 3
- Enrique Gomez - 3

Failed QA - 2023

- Karin Fischer - 76
- Marcel de Rooy - 76
- Jonathan Duart - 51
- Lucas Goss - 18
- David Neri - 17
- Nick Clemens - 17
- Kyle M Hall - 15
- Tomás Cohen Arza - 14
- Sam Lau - 10
- Owen Leonard - 10
- Martin Remozac - 8
- Andrew Fuentetaja Henry - 8
- David Cook - 7
- Enrique Gomez - 7

Koha release date

Random Bug
 33338 Date range search for Publication Year not working in MARC21

Random Quote
 "College is a fountain of knowledge, and the students go there to drink, eh? :)"

- Bugzilla health overview
- Statistics of the month/year
- Status of Jenkins
- Versions of deb packages



Hea

hea.koha-community.org

Koha community statistics Libraries System preferences About

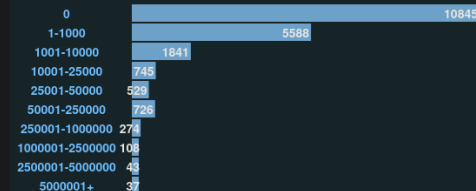
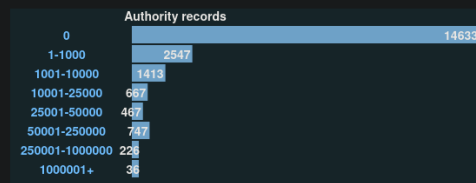
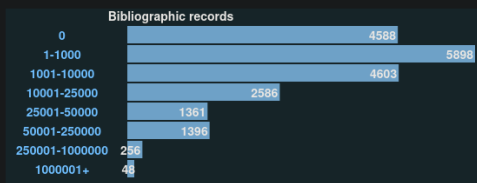
Welcome to Hea

This website displays Koha ILS usage statistics. With permission from the libraries, the following data has been collected from their installed systems. Any information not stored anonymously has been allowed by the library.

[Learn more about Koha »](#)

Some numbers from the libraries sharing data

	Total	Largest	Standard deviation	Average	Median
Libraries	25,556	1,078	-	1	-
Biblios	483,095,862	10,427,822	179,191	23,297	911
Authorities	296,606,305	10,384,524	123,023	14,304	0
Items	549,368,078	7,310,919	133,153	26,493	875
Patrons	64,141,315	1,288,073	19,061	3,093	50
Issues	919,522,239	22,444,537	462,766	44,344	0



- Data collected from Koha installations (opt-in)
- Map of libraries
- Numbers of checkouts, patrons, etc.





Bug splitter

splitter2.koha-community.org

- Mirror bugzilla DB
- Ease patch search

Browse by patterns

sub store

Note: This search returns 100 first results.

Sort by: Alpha

Bug 12133:Guarantor requirements when registering a patron [Needs Signoff]	+37	1
Bug 17499:Koha objects for messaging preferences [Signed Off]	+546	69
Bug 18339:Koha::Patron::Attribute ->opac_editable and ->opac_display should be removed [Failed QA]	+0	28
Bug 20813:Revamp user permissions system [Failed QA]	+57	2
Bug 20930:Validate and cache parsed YAML/JSON type system preferences [Failed QA]	+103	2
Bug 22531:Allow for multiple requests to partners and display partners in audit log [Failed QA]	+84	12
Bug 24609:Add routes for updating checkouts [Failed QA]	+33	0
Bug 25260:Merge 'reserves' and 'old_reserves' into a new 'holds' table [Needs Signoff]	+17	14
Bug 27066:Implement hooks for patrons updates [Failed QA]	+27	0
Bug 27309:Add plugin hooks for capturing raw passwords (NNPDB) [Needs Signoff]	+26	0
Bug 27311:Don't pass borrowernumber to check_password plugin hook [Needs Signoff]	+1	8
Bug 28173:Add plugin hooks object_store_pre and object_store_post [Needs Signoff]	+6	1
Bug 29074:DefaultHoldExpirationdatePeriod blank value interpreted as zero [Needs Signoff]	+2	0
Bug 31856:Improve performance of serials subscriptions search [Needs Signoff]	+6	8
Bug 32034:Library branch transfers should be in the action logs [Failed QA]	+26	0
Bug 32767:Trimming of attribute types by wish (if enabled) [Signed Off]	+10	0
Bug 33075:Add ability to mark an item as floating [Needs Signoff]		
Bug 33608:Allow to get statistics about found/recovered books [Signed Off]		
Bug 33964:Use Email::Sender::Transport::SMTP::Persistent for sending email [Signed Off]		
Bug 34032:Holds expirationdate left blank if waiting status is reverted [Signed Off]		

Browse by files

Filter by: Needs Signoff Signed Off Failed QA Passed QA [Refresh file list](#)

Show entries

Search:

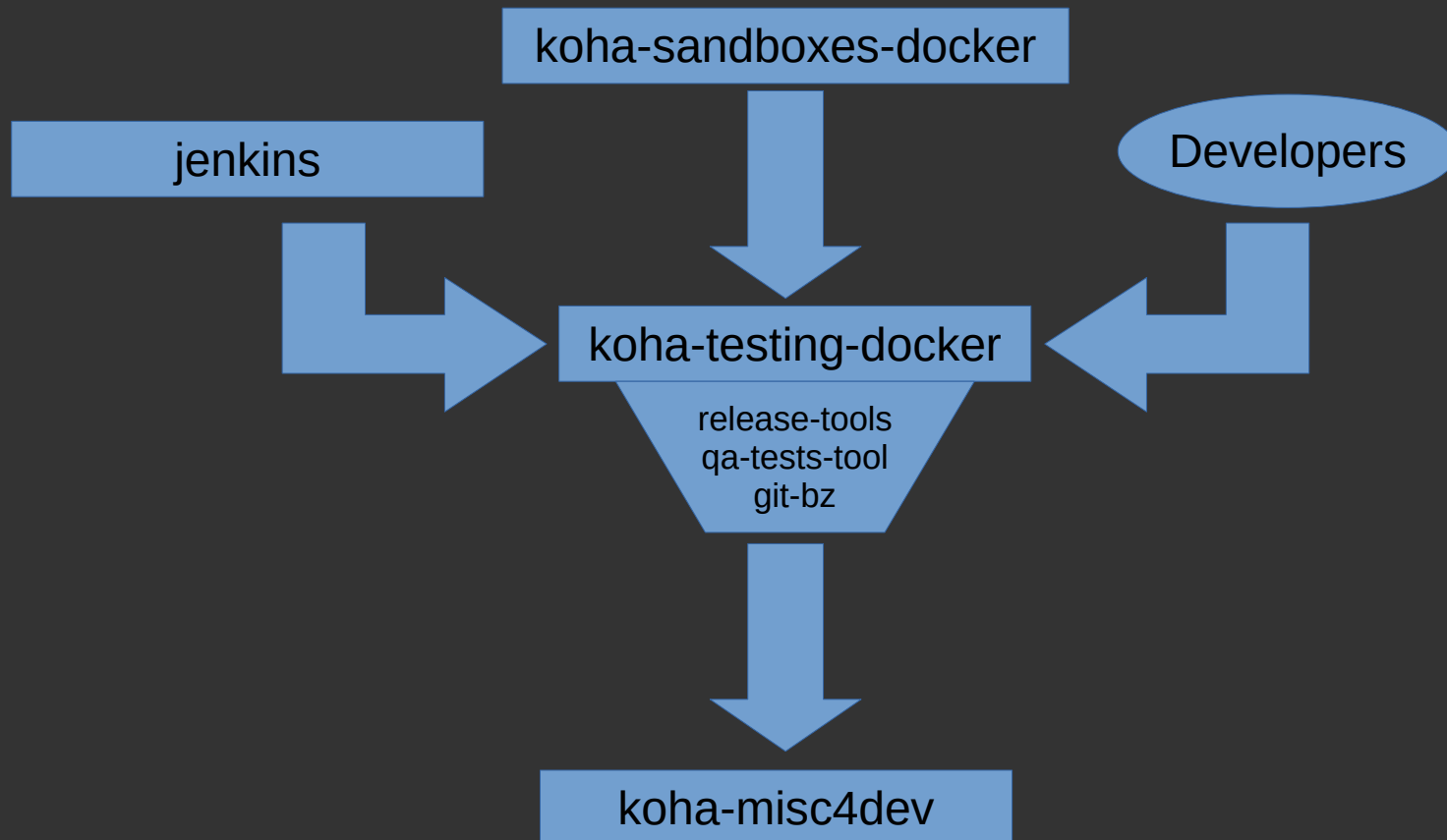
Filepath	#bugs	#patches	+	-
- Koha/Patrons.pm	2	5	157	60
Sort by: <input type="radio"/> Alpha				
Bug 23260:Anonymize (remove) patron data from items_last_borrower [Needs Signoff]	+156	58		
Bug 33837:Objects->filter_by_last_update: Does not allow time comparison [Needs Signoff]	+1	2		
+ Koha/Patrons/Import.pm	2	2	4	8
+ t/db_dependent/Koha/Patrons.t	8	12	319	106

Showing 1 to 3 of 3 entries (filtered from 2,556 total entries)

[First](#) [Previous](#) [1](#) [Next](#) [Last](#)

Latest patch from 2023-07-10 21:32:59

koha-testing-docker





How to install Koha?

Production

wiki.koha-community.org/wiki/Koha_on_Debian

Debian packages

Debian 10, 11, 12

Ubuntu 20.04, 22.04

Add the apt repo

`apt-get install koha-common mariadb-server`

Read the wiki page

Development

koha-testing-docker

gitlab.com/koha-community/koha-testing-docker/-/blob/master/README.md

`git clone https://gitlab.com/koha-community/koha-testing-docker.git koha-testing-docker`

Export some env vars, edit `.env`

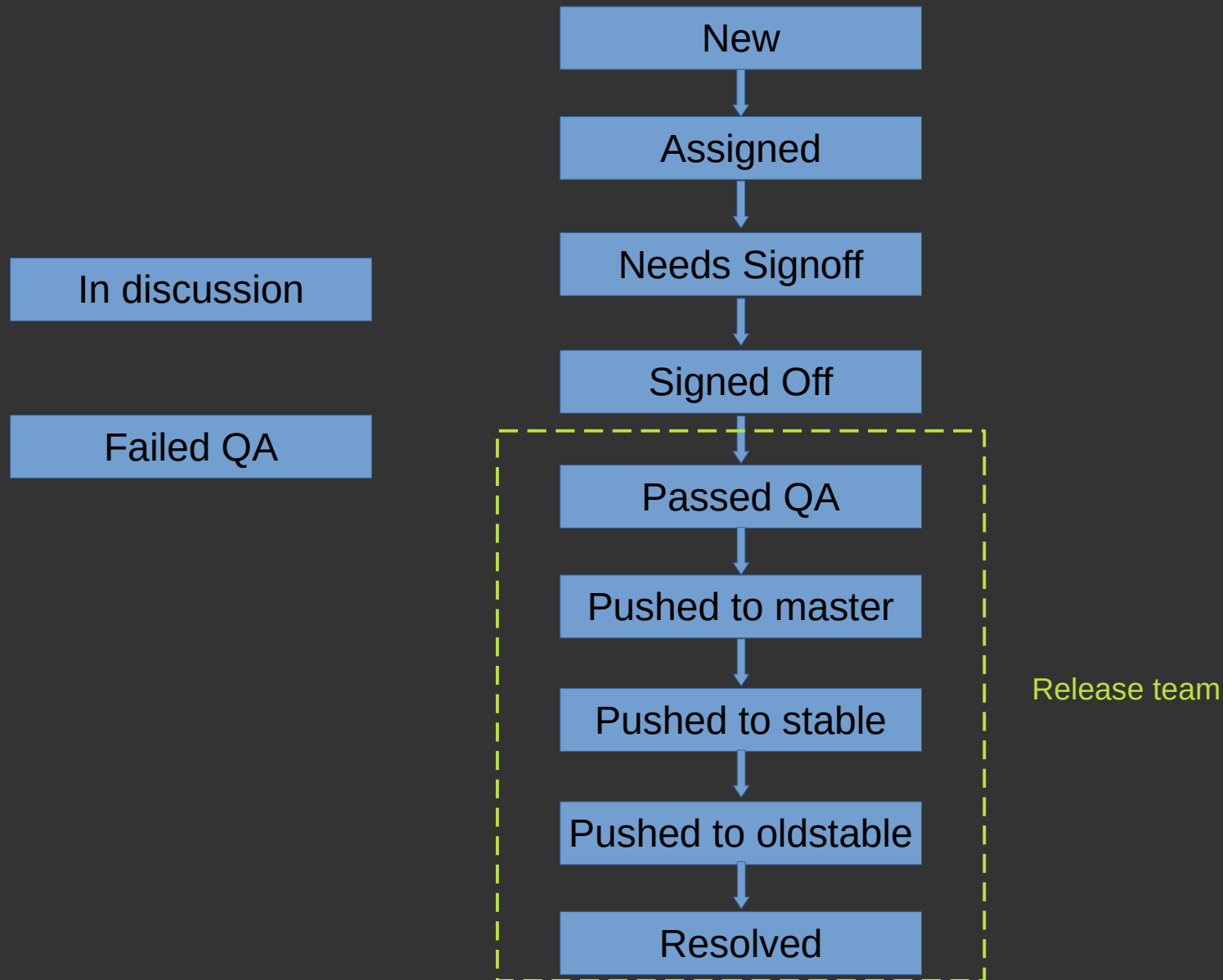
`ktd up`

`localhost:8080 # OPAC`

`localhost:8081 # staff`

Development workflow

wiki.koha-community.org/wiki/Development_workflow





To know before starting

- Legacy code is migrating (C4 to Koha)
- Constant refactoring
- Code is moving fast, but still too slow
- Hard to rebase forks
- Tests are mandatory
- Patch integration can be slow (lacking testers)



Directory structure

- Koha vs C4
- Koha/REST/V1 & api/v1/swagger/
- koha-tmpl/intranet-tmpl/prog/en/modules/
- koha-tmpl/opac-tmpl/bootstrap/en/modules/

- t/db_dependent
- t/db_dependent/api
- t/db_dependent/selenium
- t/cypress
- xt



Koha::Object[s]

- How does it work?
 - Koha::Object (DBIx::Class::Row) and Koha::Objects (DBIx::Class::ResultSet)
 - On top of DBIx::Class: same methods, same return values: find, search, set, update, delete, next, etc. and more.
 - AUTOLOAD (getter and setter)
 - Koha::Object[s]->_new_from_dbic
- Goals
 - Write *Koha::Patrons->new* instead of
Koha::Database->new()->schema()->resultset("Borrower")
 - REST API based on it (to_api_mapping → fix terminology issues)
 - TestBuilder
- Needs a cleanup (Corina?)



Coding guidelines

- Terminology – wiki.koha-community.org/wiki/Terminology

Examples:

	DB table	C4::	Koha::	Do not use
patron	borrowers	C4::Members	Koha::Patron[s]	borrower member user
checkout	issues	C4::Circulation	Koha::Checkout[s]	issue
hold	reserves	C4::Reserves	Koha::Hold[s]	reserve request

- wiki.koha-community.org/wiki/Coding_Guidelines
 - Perltidy
 - Perlcritic
 - Indentation
 - Modern::Perl
 - Etc.



Patch submission

- Crash course accessible within koha-testing-docker localhost:8081/cgi-bin/koha/how-to.pl

- Run the QA script

```
% qa
% qa -c 2 -v 2 --failures -run-tests
```

- Apply patches using git-bz

```
% git bz apply 12345
```

- Signoff on patches

```
% git so 1
% git so 2
```

- Attach patch using git-bz

```
% git bz attach -e 12345 HEAD # Attach the last patch
% git bz attach -e 12345 HEAD~2.. # Attach the last 2 patches
```

Sandboxes

- wiki.koha-community.org/wiki/Sandboxes
 - sandboxes.bibliobre.eu
 - sandbox.bywatersolutions.com
 - sandboxes.ptfs-europe.co.uk

Create a sandbox

Your name

Enter your name (or alias, nick or whatever). This will be used for signing off on patches.

Your email

Enter your email address. This will be used for signing off on patches.

Sandbox name

Enter a simple name for your sandbox, lower case all letters and numbers.

Bug number

Enter a bug number here and it will be applied to your sandbox.

Marc flavour

Select your MARC flavour.

[Advanced options](#)

Description

Enter a basic description, optional.

Notes

Add notes, optional.

Security question

What was the world's first open source ILS?

The answer is in the upper left corner of this page.

The initial staff login will be *koha*, with the password *koha*
The database user will be *koha_sandbox name*, with the password *lEldygeFt7p^Kk3%okp2*

[Submit](#)



What's next?

- Development
 - Still, more refactoring, more REST API endpoints
 - DataTables + REST API
 - Koha as a Mojo app!
 - CGI::Session → Data::Session
 - Remove po files from git repo
- Infrastructure
 - Migrate/update the website
 - Migrate Pootle to Weblate
 - Migrate MailMan to Discourse



Reach us

- Entry point
 - wiki.koha-community.org/wiki/Getting_involved
- Mailing lists
 - lists.koha-community.org
 - lists.katipo.co.nz/pipermail/koha
 - lists.koha-community.org/pipermail/koha-devel
- IRC
 - [#koha Irc.oftc.net:6667](https://irc.oftc.net:6667/#koha)
 - irc.koha-community.org
- IRC meetings
 - wiki.koha-community.org/wiki/Next_IRC_meetings
 - meetings.koha-community.org/
- IRL
 - Hackfest in Marseille, France
 - KohaCon



Thank you!

Question ?