

Collaborative Services

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Your new favorite page:

`https://confluence.desy.de/display/BI/Belle+II+Collaborative+Services+and+Tools`

→ Long list of collaborative tools

Some of the most relevant for beginners:

- Questions: `https://questions.belle2.org/`
 - How to ask a good question:
`https://questions.belle2.org/question/3625/`
- Confluence: `confluence.desy.de`
 - Abbreviations:
`https://confluence.desy.de/display/BI/Main+Glossary`
- Document server: `https://docs.belle2.org/`
- Software docs: `https://software.belle2.org/`
- Chat: `https://chat.belle2.org/`

Good question/issue

- Try to boil down issue to the minimal (non)-working example and its the full code as well as instructions on how to run it (!)
- Try to include all details that are needed to reproduce issue but avoid walls of text
- Include full error messages and logs
- Make use of formatting (for code, logs, ...)
- If you use data, include a path or a small example (!) data file
- Choose appropriate titles and tags

Development tools

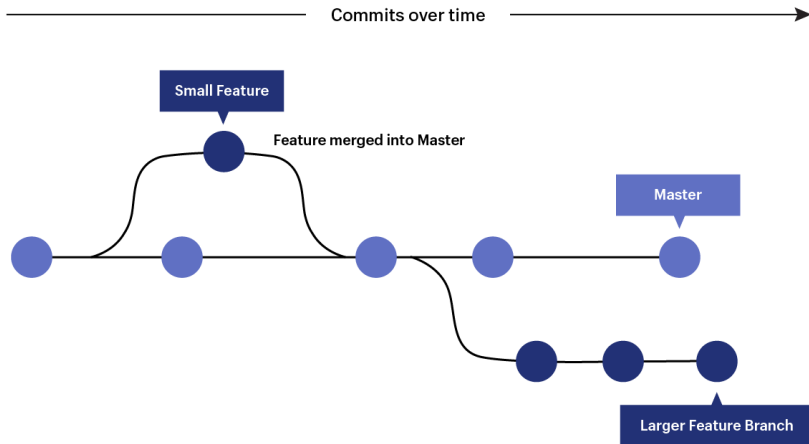
Most importantly:

- **Stash** (software repositories): <http://stash.desy.de>
 - All code lives here in git repositories!
 - Similar to github/gitlab but in blue
- **JIRA** (bug reports): <https://agira.desy.de/>
 - Complaints and requests live here!
- Stash groups repositories in **projects**
 - Belle II Software → Analysis software repositories → Go here to understand what's happening "behind the scenes"
 - Belle II Analyses → End user's analyses → Go here to pirate other people's hard work/get inspired. Missing documentation/usage examples? Search here.
 - Belle II Training → Starterkit repository etc.
 - ...
- Not every repository is in a project (for example your own)!

Git workflow

This happens on stash

Get familiar with branches!



In order to merge your branch into master, you need a **Pull Request (PR)**

Let's look around on stash

Let's go to `http://stash.desy.de`

Tasks:

- What's displayed at dashboard/home screen?
- Find main software repository
- Look at commits
- Look at a diff
- Look at list of branches
- Look at list of tags
- Look at pull requests
- Create a fork

Bringing together JIRA and stash

Basic workflow

- 1 Identify an issue: Feature requests, bug report, . . .
→ (If you don't know if it's a real bug, you can always ask on questions)
- 2 Open an issue on JIRA and assign someone to work on it
 - Can be reassigned, so just guess someone (e.g. the librarian of the package)
 - Can discuss there:
 - Is this really a bug?
 - Do we really need this feature?
- 3 Create a branch that references the issue
→ Ideally include name of JIRA issue in branch name
- 4 Create branch and add some commits to the branch
- 5 Open pull request
 - Add reviewers
 - Add description
- 6 Reviewers look at changes, leave comments on code and in general
- 7 React to reviewers (→ more commits to this branch)
- 8 After all reviewers agree: Merge!

Let's look around on JIRA

`https://agira.desy.de/`

Tasks

- Look at dashboard
- Search for issues
- Create an issue and follow up with PRs

Be bold

You can make a difference!

- **People are nice:** Don't be too afraid to bother them or break stuff (chances are you won't, anyway).
- Comment functionality means that you can **ask for help anywhere:** Just be honest if you don't really know what to do
- **Help us out with documentation:** As a beginner, you know best what's missing!
 - Good practice for collaborative services!
 - *Confluence*: just edit the page (if you're unsure, you can always leave a comment and tag someone who can take a look at it)
 - *Software documentation/sphinx*: create a PR → Typo/documentation PRs are very well received
 - Good questions are also documentation!
- **Bugs do exist**, don't hesitate too much to report them