

Contributing to NDN Open Codebase

NDN Tutorial – ACM ICN 2016

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Davide Pesavento

Pierre and Marie Curie University, Paris, France

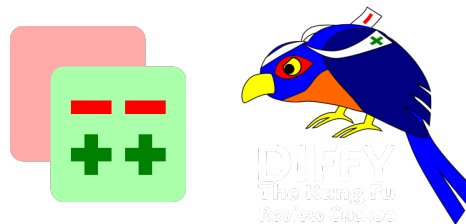
<https://named-data.net/icn2016-tutorial>

Main collaboration tools

- **Redmine** – issue tracking, wiki

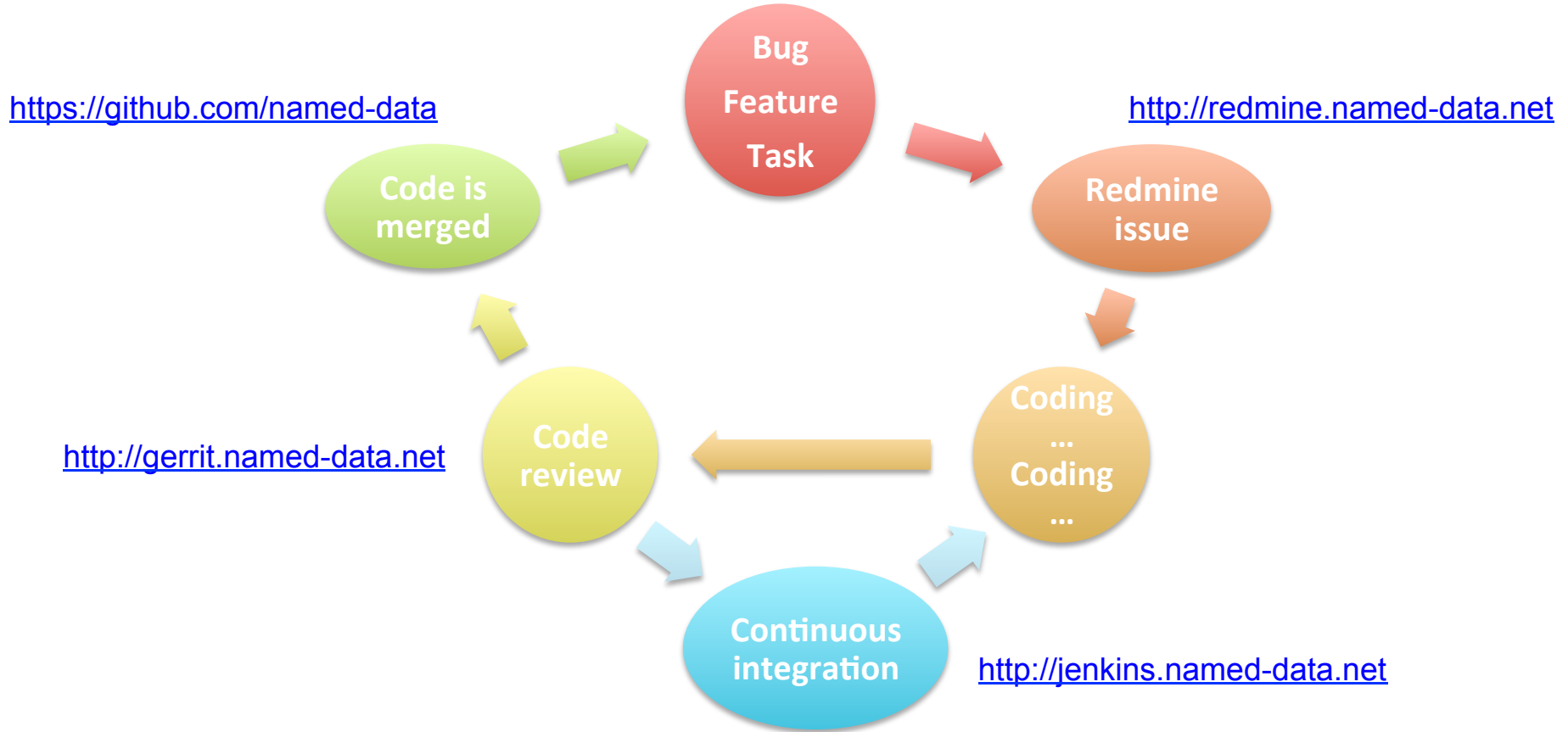


- **Gerrit** – code review



- **Mailing lists** – wider discussions, announcements

Development Model



Starting Point: <http://named-data.net/> ➔ Codebase

The screenshot shows a web browser window with the URL <https://named-data.net>. The page features a navigation bar with tabs: Project, Architecture, Codebase (selected), Testbed, Publications, and Discussion. A dropdown menu is open under the Codebase tab, listing various components: Libraries/NDN Platform, NFD: Forwarding Daemon, NLSR: Link-state routing protocol, Mini-NDN, ndnSIM: NDN simulator, Tools and Applications, Documentation, and Github Source. The main content area includes a logo for 'NAMED DATA NETWORKING', a photo of a hackathon, a 'TUTORIAL VIDEOS' section with a diagram titled 'Major Pieces', and an FAQ section with a 'Read More' link.

NAMED DATA NETWORKING

Project Architecture **Codebase** Testbed Publications Discussion

Libraries/NDN Platform ndn-cxx: C++ library

NFD: Forwarding Daemon NDN-CCL: Common Client Libraries

NLSR: Link-state routing protocol ChronoSync

Mini-NDN ndnrtc: Real Time Conferencing

ndnSIM: NDN simulator Consumer/Producer API

Tools and Applications a Questions about NDN answered on video by faculty, students, staff researchers, and colleagues.

Documentation europe. [Read More](#)

Github Source

NDN RETREAT 2016 / HACKATHON

See presentation slides and the project results from the 6th NDN Retreat and 2nd NDN Hackathon

TUTORIAL VIDEOS

Watch tutorial videos about the NDN project and NDN technologies.

FAQ

[Read More](#)

<https://named-data.net/codebase/platform/>

Issue Tracking: NDN Redmine

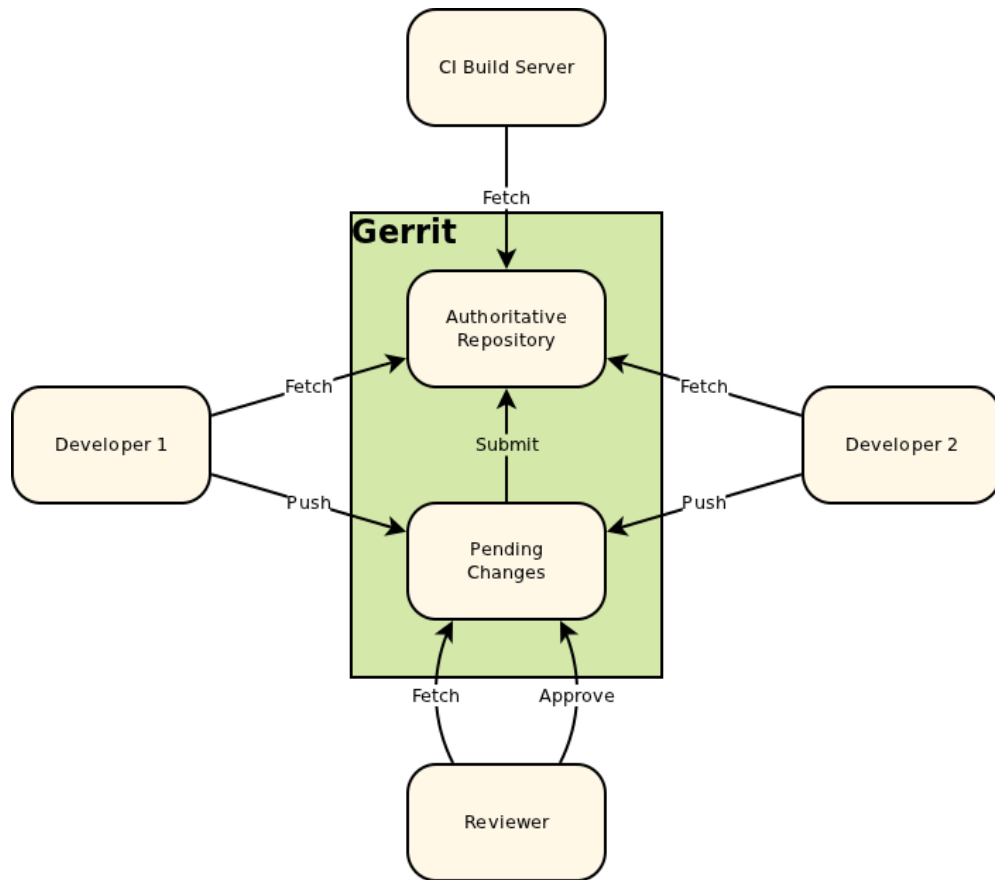
The screenshot shows the NDN Redmine web interface. The browser address bar displays <https://redmine.named-data.net/projects/nfd/issues>. The page header includes the NFD logo, a search bar with the text "NFD", and a navigation menu with items: Overview, Activity, Roadmap, **Issues**, New issue, Gantt, Calendar, News, Documents, Wiki, Files, and Repository.

The main content area is titled "Issues" and includes a "Filters" section with a checked "Status" filter set to "open". Below the filters are "Options" and action buttons: "Apply", "Clear", and "Save".

	#	Tracker	Status	Priority	Subject	Assignee
<input type="checkbox"/>	3618	Bug	In Progress	High	Memory bloating in RIB	Weih Liu
<input type="checkbox"/>	3521	Feature	New	High	NIC-associated permanent faces	
<input type="checkbox"/>	3353	Feature	Feedback	High	NetworkMonitor: emit fine-grained signals when the state of a network interface changes	

On the right side, there are sections for "Issues" (with links for View all issues, Summary, Calendar, Gantt), "My custom queries" (with links for All issues (NFD + ndn-cxx), All NFD issues, Just NFD tests, just NFD without tests, My tasks, version 3 plan), and "Custom queries" (with links for Task Assignments, Unassigned target version).

Code review: NDN Gerrit



- Create and work on a branch
- Commit
- Push to Gerrit
- Amend commit
- Rebase

Do You Know git? Sure?

<http://learngitbranching.js.org/index.html>

The screenshot displays the 'Learn Git Branching' website. A terminal window on the left shows the following commands and output:

```
$ level advanced2
$ hint
Use `git branch bugWork` with
commit to create the missing
reference.
$ delay 2000
$ show goal
```

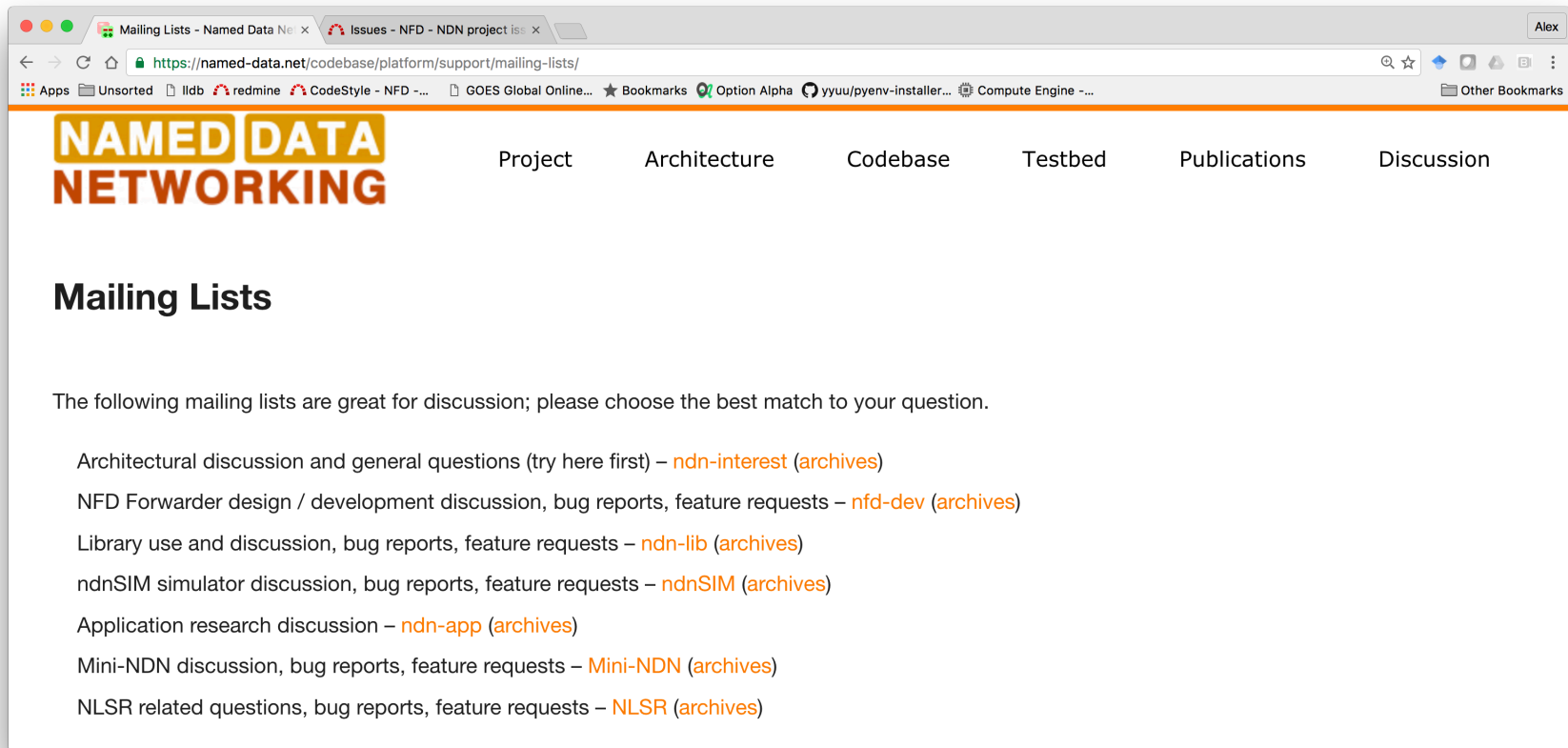
A central 'Git Demonstration' window features a commit tree diagram on a blue background. The tree starts with a root commit C0. From C0, two branches emerge: one leading to a vertical sequence of commits C1, C2, C6, and C7; the other leading to a vertical sequence of commits C3, C4, and C5. A pink box labeled 'master*' with an arrow points to commit C7. Below the diagram are two navigation arrows: a red arrow pointing left and a green arrow pointing right.

A text box in the demonstration window contains the following commands:

```
git checkout HEAD~; git checkout HEAD^2;
git checkout HEAD~2
```

The background of the website shows a dark blue interface with a 'Fork me on GitHub' banner in the top right corner.

Mailing Lists



The screenshot shows a web browser window with two tabs: "Mailing Lists - Named Data Net" and "Issues - NFD - NDN project iss". The address bar shows the URL <https://named-data.net/codebase/platform/support/mailling-lists/>. The browser's bookmark bar contains several items, including "Apps", "Unsorted", "lldb", "redmine", "CodeStyle - NFD - ...", "GOES Global Online...", "Bookmarks", "Option Alpha", "yyuu/pyenv-installer...", "Compute Engine - ...", and "Other Bookmarks".

The page content features the **NAMED DATA NETWORKING** logo on the left. To the right of the logo is a navigation menu with the following items: [Project](#), [Architecture](#), [Codebase](#), [Testbed](#), [Publications](#), and [Discussion](#).

Mailing Lists

The following mailing lists are great for discussion; please choose the best match to your question.

- Architectural discussion and general questions (try here first) – [ndn-interest](#) ([archives](#))
- NFD Forwarder design / development discussion, bug reports, feature requests – [nfd-dev](#) ([archives](#))
- Library use and discussion, bug reports, feature requests – [ndn-lib](#) ([archives](#))
- ndnSIM simulator discussion, bug reports, feature requests – [ndnSIM](#) ([archives](#))
- Application research discussion – [ndn-app](#) ([archives](#))
- Mini-NDN discussion, bug reports, feature requests – [Mini-NDN](#) ([archives](#))
- NLSR related questions, bug reports, feature requests – [NLSR](#) ([archives](#))