



Pagure: A free forge for git

Presented by

Pierre-Yves Chibon (pingou)

Fedora infrastructure

Overview

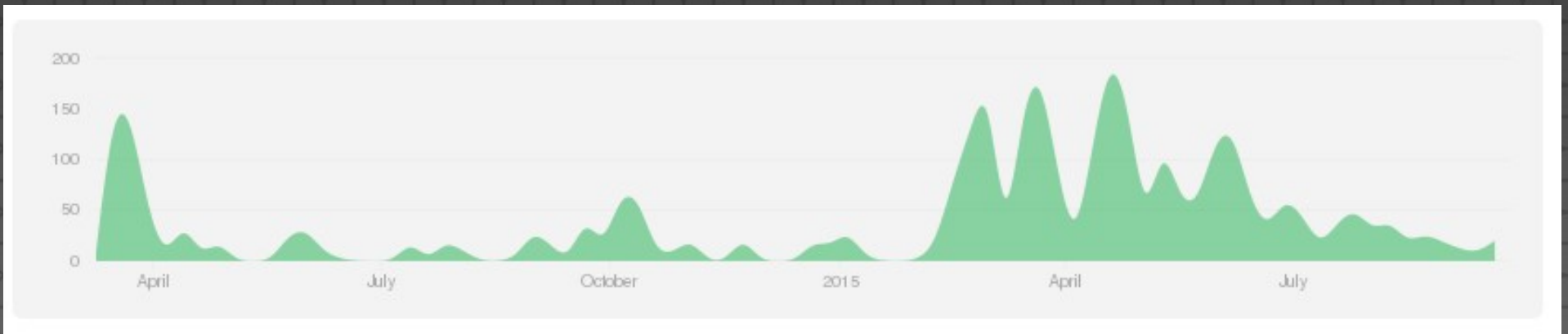
- History
- Goals
- Current State
- Features
- Ideas
- Demo

History

- Python ↔ git interactions
- Quickly: a glorified cgit
 - Browse sources
 - See branches
 - Review history/commits
- Investigate
 - Pull-requests
- Got into a slow dev period
 - Start working on tickets, doc integration...

History

- ~18 months old
- Developed over 2 time periods



History

- Since spring this year
 - The Fedora rel-eng team is working on improving outside contribution
 - Reject github as platform (non-free)
 - Investigate and choose pagure as an alternative, yet collaborative, platform

Goals

- Python
- Relatively easy to maintain (dependencies controlled)
 - Built on the top of gitolite
- Self-hostable
 - Supports FAS but not only
 - Other openid provider or local accounts
 - Templating
- Cool features =)

Current state

- Working
 - Hosting itself: <https://pagure.io/pagure/>
 - Hosting 48 projects
 - 158 users logged in at least once
 - 4 groups created
- Getting ready for 1.0

Features

- FREE as in Freedom
- Python with a reasonable dependency list
 - With one notable exception: pygit2
 - (Hopefully will be replaced at one point)
- Self-service
 - Create your project and manage it yourself
- One place
 - Code, tickets, pull-request and documentation

Features (2)

- Collaborative:
 - Well-know fork && pull-request model
- Integrative:
 - Pull-request can be made from an external git repo
- Open data:
 - 1 projects == 4 git repos:
 - Sources
 - Documentation
 - Tickets
 - Pull-requests

Features (3)

- Ability to sync git repos between pagure instances
 - Push the git repos for tickets to another pagure instance → DB updated
 - Think private ↔ public pagure instances
 - (less tested)
- Reply to a ticket by email
 - Replying to a notification email about a new comment on a ticket will post your email to the web UI

Features (4)

- Live refresh of the page upon changes
 - If someone posts a comment on a ticket you are watching, the comment will be displayed automatically
- Filter tickets per tag
 - All tickets having a tag:
<https://pagure.io/pagure/issues?tags=easyfix>
 - All tickets *not* having a tag:
<https://pagure.io/pagure/issues?tags=!easyfix>

Features (5)

- Different cookie time-out
 - Regular actions → 31 days
 - Admin actions → 20 minutes
- Set git's default branch
 - Git-flow
- API key per project per user
 - Valid 60 days
 - Pick the action the key allows
- Online editing
 - Pick which email to use for the commit

Features (6)

- Options per project
 - Disable tickets
 - Disable pull-requests
 - Disable documentation
 - Require a minimal score (+1; :thumbsup;; -1; :thumbsdown:) to merge a PR
 - Limit merging a PR to the person the PR is assigned to
 - Web-hooks
 - Require signed-off commits in PR

Features (7)

- Git hook:
 - Fedmsg notifications
 - Mail upon commits
 - Pagure:
 - Close tickets with a commit
 - Refer to a ticket withing a commit
 - Pagure tickets
 - Exports/Imports tickets from the git repos for tickets
 - Pagure requests
 - Exports/Imports pull-requests from the git repos for pull-requests

Features coming

- Known:
 - Support for multiple ssh-key
 - “Fork & Edit” button
 - Rework the UI (Ryan Lerch)
- RFEs:
 - Migration script from trac
 - Private git repos
 - History of the PR as front page for the PR

Ideas

- public.pagure.io
 - Not relying on FAS for user accounts
- Front-end for pkgs.fedoraproject.org
 - Allow making pull-requests against packages in Fedora instead of relying on patches on bugzilla

Demo

- Prod:
 - <https://pagure.io>
- Staging
 - <https://stg.pagure.io/>

Questions?



Contact:
pingou@fedoraproject.org