

Issues, Branches, Forks, Requests, CI, and Workflows

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Available at

[https://homepages.laas.fr/gsaurel/talks/
23-git-forges.pdf](https://homepages.laas.fr/gsaurel/talks/23-git-forges.pdf)

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Source

`https://gitlab.laas.fr/gsaurel/talks :`
`23-git-forges.md`

Discussions

`https://im.laas.fr/#/room/#git-forges:laas.fr`

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Introduction

- Software management
 - git repository (web, HTTPS, SSH)
 - authorizations
 - issue tracker

- Software management
 - git repository (web, HTTPS, SSH)
 - authorizations
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- Project management
 - milestones
 - assignees
 - boards

- 1 domain
 - 2 username *OR* group (organization)
 - 3 project
- `https:// gitlab.laas.fr / gsaurel / talks`
 - `https:// github.com / gepetto /
example-adder`

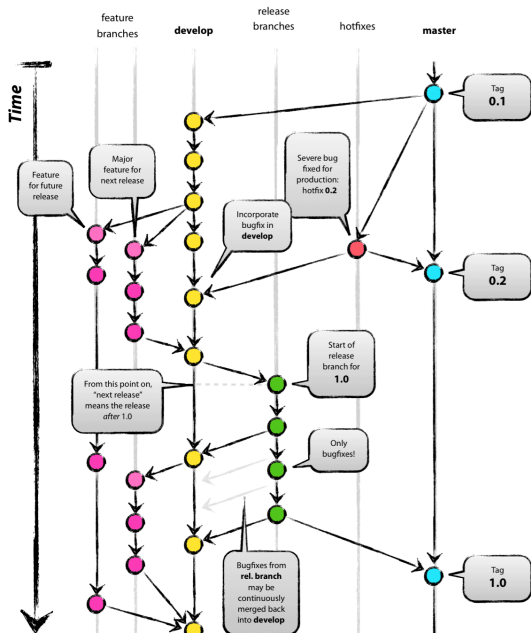
- bug fix / feature request
- Github / Gitlab: #4
- referencable from git:
 - `git commit -m "add user input test, ref #4"`
 - `git commit -m "sanitize user input, fix #4"`

- labels
- discussions
- boards (or table / roadmap)

- labels
- discussions
- boards (or table / roadmap)
- open / close

Branches

Goal



- default: master or main
- devel, stable
- issue/5
- topic/something

Forks

- scission (software development)
 - document motivations
 - rename
 - change logo / website etc.
 - ensure compatibility
- collaboration (git forges)
 - try to keep synchronized

- scission (software development)
 - document motivations
 - rename
 - change logo / website etc.
 - ensure compatibility
- **collaboration (git forges)**
 - try to keep synchronized

```
git clone git@github.com:gsaurel/project.git  
cd project  
git remote add team \  
    git@github.com:team/project.git
```

```
git clone git@github.com:gsaurel/project.git
cd project
git remote add team \
    git@github.com:team/project.git

git pull team main
git push origin main
```

```
# ~/.ssh/config
Host gl
    HostName gitlab.laas.fr
    User git
Host gh
    HostName github.com
    User git

git clone gl:gsaurel/project
git remote add team gh:team/project
```

Requests

The screenshot displays the GitLab web interface for a project named 'example-adder'. The left sidebar contains navigation links: Project information, Repository, Issues (0), Merge requests (0), CI/CD, Security & Compliance, Deployments, Monitor, Infrastructure, Packages & Registries, Analytics, Wiki, Snippets, and Settings.

The main content area shows a notification at the top: 'You pushed to **dev** at Guilhem Saurel / example-adder 7 minutes ago' with a 'Create merge request' button. Below this, the project header includes the name 'example-adder', Project ID: 165, and statistics: 14 Commits, 4 Branches, 10 Tags, 1.5 MB Files, and 13 MB Storage. A description states: 'This is an example project, to show how to use Gepetto's tools' and 'Forked from Gepetto / example-adder'.

A progress bar indicates the merge status. Below the bar, the current branch is 'master' and the target branch is 'example-adder / +'. Action buttons include 'History', 'Find file', 'Web IDE', 'Download', and 'Clone'.

The commit history shows a recent commit by Guilhem Saurel: 'release: Update package.xml version to 4.0.2', authored 1 month ago, with commit hash 70b0d164. Below the commit list are buttons for 'Upload File', 'README', 'BSD 2-Clause "Simplified" License', 'CI/CD configuration', 'Add CHANGELOG', 'Add CONTRIBUTING', 'Add Kubernetes cluster', and 'Configure Integrations'.

At the bottom, a table header shows 'Name', 'Last commit', and 'Last update'.

Figure 2: Merge Request

```
git push -o merge_request.create \  
        -o merge_request.target=devel \  
        origin topic/something
```

The screenshot shows a GitHub pull request interface. At the top, the repository is identified as 'nim65s / example-adder' (Public), which is a fork of 'Gepetto/example-adder'. Navigation tabs include Code, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. A notification bar indicates that the 'devel' branch had recent pushes 2 minutes ago, with a 'Compare & pull request' button. Below this, it shows the 'master' branch is up to date with 'Gepetto:master'. A table of recent commits is displayed, including a release update and several additions to the project structure. On the right, the 'About' section describes the project as an example for using Gepetto's tools, and the 'Releases' section shows 10 tags.

Search or jump to...

Pull requests Issues Marketplace Explore

nim65s / example-adder Public

forked from Gepetto/example-adder

Code Pull requests Actions Projects Wiki Security Insights Settings

devel had recent pushes 2 minutes ago Compare & pull request

master 8 branches 10 tags Go to file Add file Code

This branch is up to date with Gepetto:master. Contribute Fetch upstream

nim65s release: Update package.xml version to 4.0.2 70b0d16 on 8 Dec 2021 14 commits

cmake @ 84f1ae1	[Cmake] Add Submodule	2 months ago
include/example-adder	[Bindings] Add Python bindings	2 months ago
python	[Bindings] Add Python bindings	2 months ago
src	[bin] Add gepetto-example-adder executable	2 months ago
tests	[Tests] Check main executable	2 months ago
.gitlab-ci.yml	[CI] Add gitlab-ci.yml	2 months ago

About

This is an example project, to show how to use Gepetto's tools

Readme

BSD-2-Clause License

0 stars

2 watching

4 forks

Releases

10 tags

Create a new release

Packages

Figure 3: Pull Request

Required: <https://cli.github.com/>

```
gh pr create
```

CI

```
# .gitlab-ci.yml
image: gitlab.laas.fr:4567/gsaurel/talks

build:
  script:
    - make

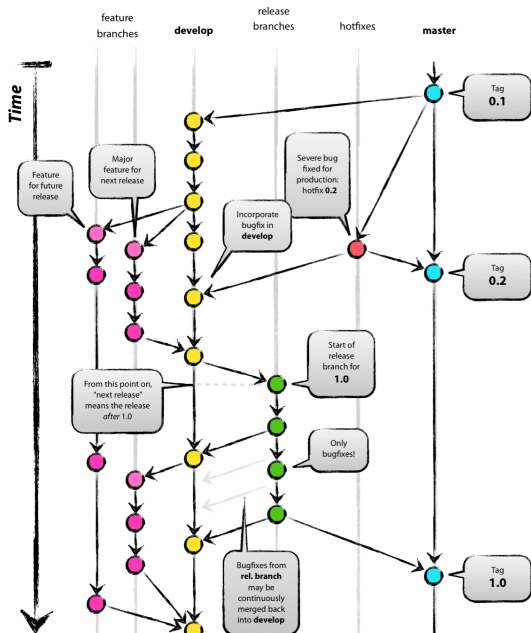
test:
  script:
    - make test
```

```
# .github/workflows/build.yml
name: Build
on: [push,pull_request]

jobs:
  build:
    name: Transpile markdown sources into PDF
    runs-on: nim65s/talks
    steps:
      - uses: actions/checkout@v4
      - run: make
```

Workflows

Example



End notes

<https://learngitbranching.js.org/>

<https://nvie.com/posts/a-successful-git-branching-model/>

<https://docs.github.com/fr/get-started/quickstart/github-flow>