

Conception Orientée Objet, Forges

Université Toulouse Paul Sabatier - KEAR9RA1

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Available at

[https://homepages.laas.fr/gsaurel/
conception-orientee-objet-forges.pdf](https://homepages.laas.fr/gsaurel/conception-orientee-objet-forges.pdf)

Under License



<https://creativecommons.org/licenses/by-sa/4.0/>

Source

[https://gitlab.laas.fr/gsaurel/talks :
conception-orientee-objet-forges.md](https://gitlab.laas.fr/gsaurel/talks : conception-orientee-objet-forges.md)

Discussions

<https://matrix.to/#/#conception-orientee-objet:laas.fr>

Introduction

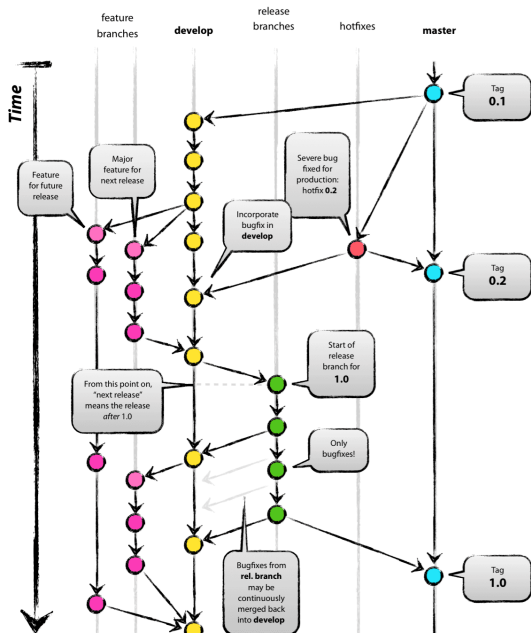
- Software management
 - git repository (web, HTTPS, SSH)
 - authorizations
 - issue tracker

- 1 domain
 - 2 username *OR* group (organization)
 - 3 project
- `https:// gitlab.laas.fr / gsaurel / talks`
 - `https:// github.com / nim65s / talks`

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

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 --recursive \  
    git@gitlab.laas.fr:gsaurel/talks.git  
cd talks  
git remote add gepetto \  
    git@gitlab.laas.fr:gepetto/talks.git
```

```
git clone --recursive \  
    git@gitlab.laas.fr:gsaurel/talks.git  
cd talks  
git remote add gepetto \  
    git@gitlab.laas.fr:gepetto/talks.git  
  
git pull gepetto main  
git push origin main
```

```
git config --global \  
url."git@github.com:".insteadOf \  
"https://github.com/"
```

```
# ~/.ssh/config  
Host gh  
    HostName github.com  
    User git  
  
git clone --recursive gh:nim65s/talks
```

Requests

The screenshot displays the GitLab web interface for a project named 'example-adder'. At the top, a green notification banner states: 'You pushed to devel at Guilhem Saurel / example-adder 7 minutes ago' with a 'Create merge request' button. Below this, the project name 'example-adder' is shown with its ID '165'. The interface includes a sidebar with navigation links such as 'Project information', 'Repository', 'Issues', 'Merge requests', 'CI/CD', 'Security & Compliance', 'Deployments', 'Monitor', 'Infrastructure', 'Packages & Registries', 'Analytics', 'Wiki', 'Snippets', and 'Settings'. The main content area shows project statistics: '14 Commits', '4 Branches', '10 Tags', '1.5 MB Files', and '13 MB Storage'. A commit history table is visible at the bottom with the following data:

Name	Last commit	Last update
release: Update package.xml version to 4.0.2	70b0d164	Guilhem Saurel authored 1 month ago

Figure 2: Merge Request

The screenshot shows a GitHub pull request page for the repository 'nim65s / example-adder'. The page is dark-themed. At the top, there is a search bar and navigation links for 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. The repository name 'nim65s / example-adder' is displayed, along with a 'Public' badge and a 'forked from Gepetto/example-adder' note. Below this, there are buttons for 'Pin', 'Unwatch' (2), 'Fork' (4), and 'Star' (0). A navigation bar includes 'Code', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. The main content area shows a notification that 'devel' had recent pushes 2 minutes ago, with a 'Compare & pull request' button. Below this, there are buttons for 'Go to file', 'Add file', and 'Code'. A message states 'This branch is up to date with Gepetto:master.' and provides 'Contribute' and 'Fetch upstream' options. The pull request itself is titled 'nim65s release: Update package.xml version to 4.0.2' and was created by user '79b0d16' on 8 Dec 2021, with 14 commits. A list of files is shown, including 'cmake @ 84f1ae1', 'include/example-adder', 'python', 'src', 'tests', and '.gitlab-ci.yml', each with a description of the change and a '2 months ago' timestamp. On the right side, there is an 'About' section with a gear icon, stating 'This is an example project, to show how to use Gepetto's tools'. Below this are links for 'Readme', 'BSD-2-Clause License', '0 stars', '2 watching', and '4 forks'. There is also a 'Releases' section with '10 tags' and a 'Create a new release' link, and a 'Packages' section.

Figure 3: Pull Request

CI

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

build:
  script:
    - make

test:
  script:
    - make test
```

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

jobs:
  build:
    name: markdown → PDF
    runs-on: ubuntu-latest
    container: nim65s/talks
    steps:
      - uses: actions/checkout@v3
      - run: make
```

Workflows

Example

