

Conception Orientée Objet, Forges

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Available at

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

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Source

`https://gitlab.laas.fr/gsaurel/talks :
conception-orientee-objet-forges.md`

Discussions

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

Introduction

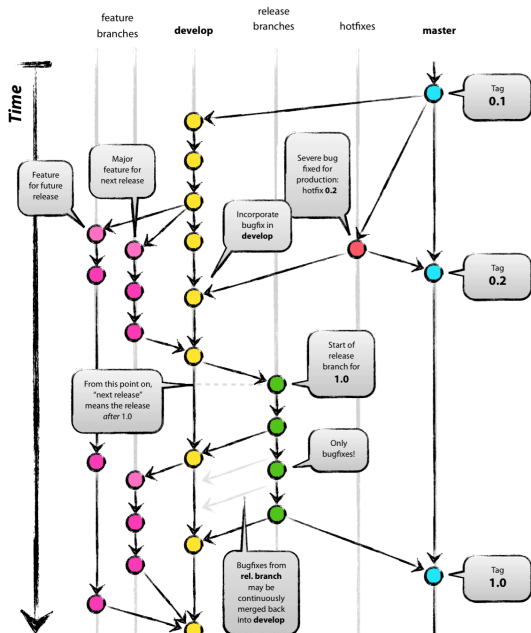
- Software management
 - git repository (web, HTTPS, SSH)
 - authorizations
 - issue tracker

- 1 domain
 - 2 username *OR* group (organization)
 - 3 project
- `https:// gitlab.laas.fr / gsauel / 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'. The left sidebar contains a navigation menu with options: 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 devel at Guilhem Saurel / example-adder 7 minutes ago' with a 'Create merge request' button. Below this, the project details for 'example-adder' are shown, including 'Project ID: 165', '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'. It also mentions 'Forked from Gepetto / example-adder'. A progress bar is visible. The 'master' branch is selected, and the 'example-adder / +' branch is being compared. Action buttons include 'History', 'Find file', 'Web IDE', 'Download', and 'Clone'. A commit by 'Guilhem Saurel' is highlighted with the message 'release: Update package.xml version to 4.0.2' and hash '70b0d164'. At the bottom, there are buttons for 'Upload File', 'README', 'BSD 2-Clause "Simplified" License', 'CI/CD configuration', 'Add CHANGELOG', 'Add CONTRIBUTING', 'Add Kubernetes cluster', and 'Configure Integrations'. A table header is partially visible with columns 'Name', 'Last commit', and 'Last update'.

Figure 2: Merge Request

The screenshot shows the GitHub interface for the repository 'nim65s / example-adder'. At the top, there's a search bar and navigation links for Pull requests, Issues, Marketplace, and Explore. The repository name is 'nim65s / example-adder' with a 'Public' badge. Below the repository name, it says 'forked from Gepetto/example-adder'. The main navigation bar includes links for Code, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. A notification bar indicates '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 status bar shows 'This branch is up to date with Gepetto:master.' and options to 'Contribute' or 'Fetch upstream'. The commit history shows a recent commit by 'nim65s' titled 'release: Update package.xml version to 4.0.2' with 14 commits. A table lists files added in the commit: 'cmake @ 84f1ae1', 'include/example-adder', 'python', 'src', 'tests', and '.gitlab-ci.yml'. On the right, the 'About' section describes the project as an example for using Gepetto's tools, and the 'Releases' section shows 10 tags and a link to 'Create a new release'.

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

