

**PSI** Center for Scientific Computing,  
Theory and Data

# Introduction to CI/CD

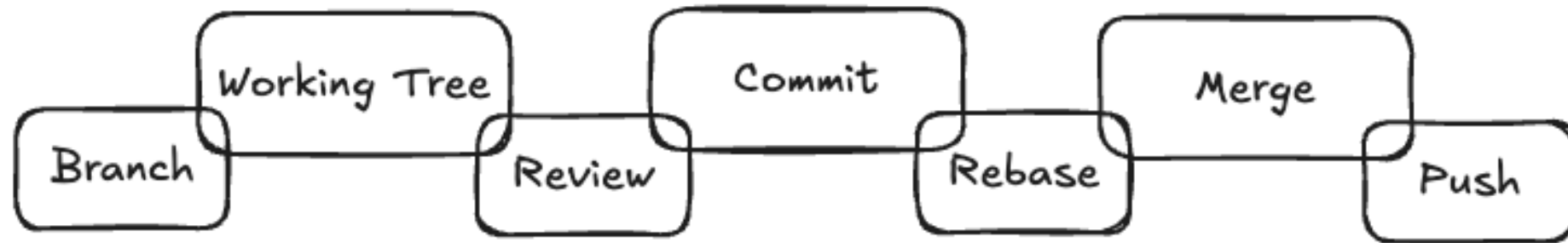
**From a single commit to an automated release**

Basil Bruhn  
09/06/2026

# Agenda



- Looking back in time
- Working on a Git Forge
- Issues and Planning
- Pull Requests and Reviews
- Continuous Integration
- Continuous Delivery
- Releases
- The Complete Workflow



## But what happens after `git push`?

# Collaboration on a Git Forge

## What is a Git Forge?



The screenshot shows a Git Forge repository page for 'RSE / Git-course' (Private). The page includes navigation tabs for Issues, Pull Requests, Milestones, and Explore. The repository statistics show 2 Commits, 1 Branch, and 0 Tags. The main branch is 'main'. A commit by 'gsell' (5f51be552b) is highlighted, showing the file 'README.md' updated 3 months ago. The repository description is 'No description provided'. The README content is titled 'Git Course' and includes an 'Organization' section with the following bullet points:

- hybrid, but we can use our own video conferencing devices (owl?)
- organization for course on gitea.psi.ch
- participants without PSI account should use Github

# Collaboration on a Git Forge

## What is a Git Forge?



The screenshot shows a Git Forge repository page for 'RSE / Git-course' (Private). The navigation bar at the top includes 'Issues', 'Pull Requests', 'Milestones', and 'Explore', which are highlighted with a red box. The repository statistics show 2 Commits, 1 Branch, and 0 Tags. The commit history shows a commit by 'gsell' with hash '5f51be552b' titled 'Update README.md' from 3 months ago. The file 'README.md' is shown with a size of 25 KiB. The repository description is 'No description provided'. The README content includes a section for 'Git Course' and 'Organization' with a bulleted list of details.

PSI Issues Pull Requests Milestones Explore

RSE / Git-course Private

Code Issues Pull Requests Actions Packages Projects Releases Wiki Activity Settings

2 Commits 1 Branch 0 Tags

main

gsell 5f51be552b Update README.md 3 months ago

README.md Update README.md 3 months ago

README.md 25 KiB

### Description

No description provided

Manage Topics

Readme

### Git Course

#### Organization

- hybrid, but we can use our own video conferencing devices (owl?)
- organization for course on gitea.psi.ch
- participants without PSI account should use Github

# Collaboration on a Git Forge

## What is a Git Forge?



The screenshot shows a web interface for a Git Forge repository. At the top, there are navigation tabs for 'Issues', 'Pull Requests', 'Milestones', and 'Explore'. The repository name 'RSE / Git-course' is highlighted with a red box, and it is marked as 'Private'. Below the repository name, there are buttons for 'Code', 'Issues', 'Pull Requests', 'Actions', 'Packages', 'Projects', 'Releases', 'Wiki', 'Activity', and 'Settings'. The repository statistics show '2 Commits', '1 Branch', and '0 Tags'. A search bar is present with the text 'Search code...'. The main content area displays a commit history table with columns for author, commit hash, message, and time. The most recent commit is by 'gsell' with hash '5f51be552b' and message 'Update README.md', dated '3 months ago'. Below the commit history, there is a section for the 'README.md' file, which is currently selected. The README content is titled 'Git Course' and includes an 'Organization' section with a bulleted list of details.

Author	Commit Hash	Message	Time
gsell	5f51be552b	Update README.md	3 months ago
		Update README.md	3 months ago

### Git Course

#### Organization

- hybrid, but we can use our own video conferencing devices (owl?)
- organization for course on gitea.psi.ch
- participants without PSI account should use Github

# Collaboration on a Git Forge

## What is a Git Forge?



The screenshot shows a web interface for a Git Forge repository. At the top, there are navigation tabs: 'Issues', 'Pull Requests', 'Milestones', and 'Explore'. The repository name 'RSE / Git-course' is displayed, along with a 'Private' label and icons for Watch (0), Star (0), and Fork (0). A red box highlights a navigation bar containing: '<> Code', 'Issues', 'Pull Requests', 'Actions', 'Packages', 'Projects', 'Releases', 'Wiki', 'Activity', and 'Settings'. Below this, statistics show '2 Commits', '1 Branch', and '0 Tags'. A search bar is present with the text 'Search code...'. The main content area shows a commit history table with columns for author, commit hash, message, and time. The most recent commit is by 'gsell' with hash '5f51be552b', message 'Update README.md', and time '3 months ago'. Below the table, the 'README.md' file is selected, showing its content. The content includes a title 'Git Course' and a section 'Organization' with a bulleted list: 'hybrid, but we can use our own video conferencing devices (owl?)', 'organization for course on gitea.psi.ch', and 'participants without PSI account should use Github'. On the right side, there is a 'Description' section with 'No description provided', 'Manage Topics', 'Readme', and '25 KiB'.

# Collaboration on a Git Forge

## What is a Git Forge?



The screenshot shows a Git Forge repository page for 'RSE / Git-course' (Private). The repository has 2 commits, 1 branch (main), and 0 tags. A commit by 'gsell' (5f51be552b) is highlighted, showing 'Update README.md' from 3 months ago. The README content is visible, titled 'Git Course', with an 'Organization' section containing a bulleted list of details. The right sidebar shows 'Description' (No description provided), 'Manage Topics', 'Readme', and '25 KiB'.

PSI Issues Pull Requests Milestones Explore

RSE / Git-course Private

Watch 0 Star 0 Fork 0

Code Issues Pull Requests Actions Packages Projects Releases Wiki Activity Settings

2 Commits 1 Branch 0 Tags

main

gsell 5f51be552b Update README.md 3 months ago

README.md Update README.md 3 months ago

README.md

### Git Course

#### Organization

- hybrid, but we can use our own video conferencing devices (owl?)
- organization for course on gitea.psi.ch
- participants without PSI account should use Github

Description: No description provided

Manage Topics

Readme

25 KiB

# Collaboration on a Git Forge

## What is a Git Forge?



The screenshot shows a Git Forge repository page for 'RSE / Git-course' (Private). The page includes navigation tabs for Issues, Pull Requests, Milestones, and Explore. A notification badge shows 10 alerts. The repository statistics show 0 Watch, 0 Star, and 0 Fork. The main content area is highlighted with a red border and contains:

- 2 Commits, 1 Branch, 0 Tags
- main branch selected
- Commit history table:

Author	Commit Hash	Message	Time
gsell	5f51be552b	Update README.md	3 months ago
README.md		Update README.md	3 months ago

- File list: README.md (25 KiB)
- Section: **Git Course**
- Section: **Organization**

- hybrid, but we can use our own video conferencing devices (owl?)
- organization for course on gitea.psi.ch
- participants without PSI account should use Github

On the right side, there is a search bar and a description section:

**Description**  
No description provided

Manage Topics

Readme

25 KiB

# Collaboration on a Git Forge

## What is a Git Forge?



The screenshot shows a Git Forge repository page for 'RSE / Git-course' (Private). The page includes navigation tabs for Issues, Pull Requests, Milestones, and Explore. A notification bell shows 10 notifications. The repository has 0 Watchers, 0 Stars, and 0 Forks. A search bar is present with the text 'Search code...'. The repository statistics show 2 Commits, 1 Branch, and 0 Tags. The main branch is 'main'. A commit by 'gsell' with hash '5f51be552b' is highlighted, showing a commit message 'Update README.md' and a commit icon. Below the commit list, the README.md file is shown with a size of 25 KiB. The repository description is 'No description provided'. The README content includes the title 'Git Course' and the section 'Organization' with the following bullet points:

- hybrid, but we can use our own video conferencing devices (owl?)
- organization for course on gitea.psi.ch
- participants without PSI account should use Github

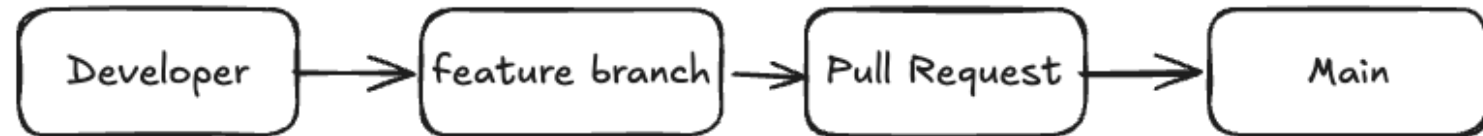
# Collaboration on a Git Forge

## Ways of working

- Direct commit



- Most common

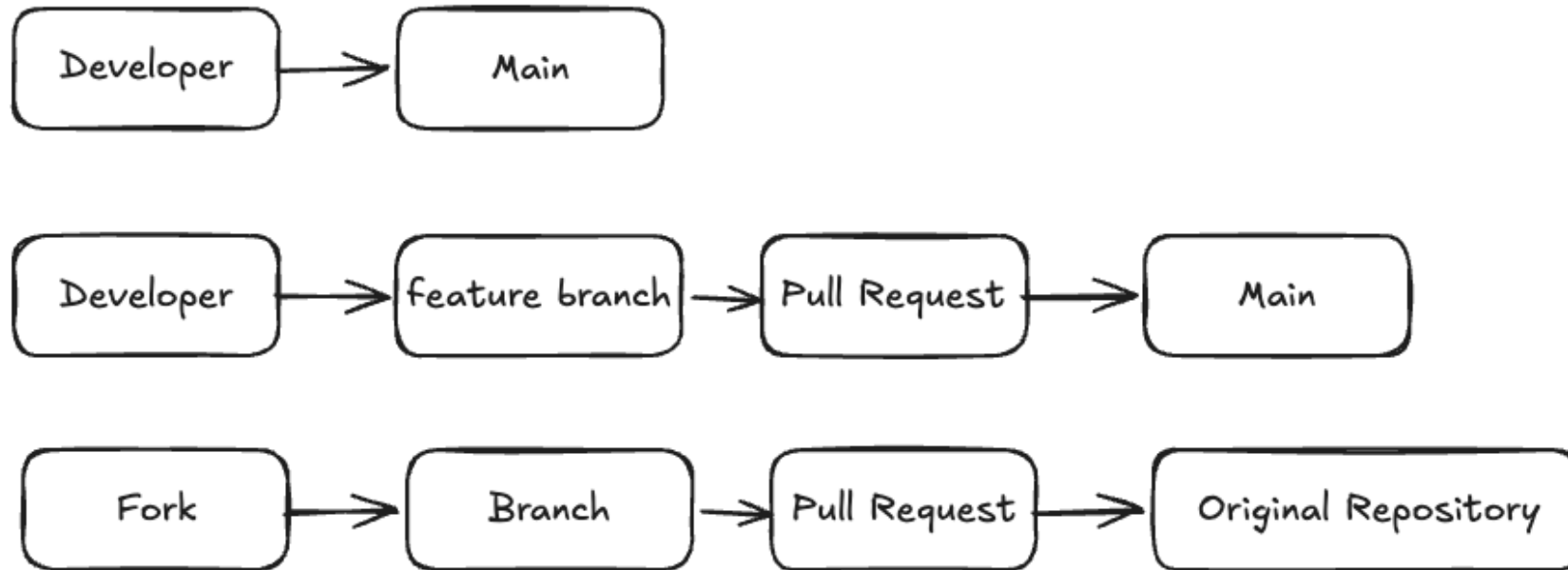


- Fork Workflow



# Collaboration on a Git Forge

## Ways of working





# Issues and Planning

## Linking Work



- Branch naming examples:
  - `issue1-course4-notes`
  - `copilot/fix-issue-1`
  - `release/v1.1`

# Issues and Planning

## Why use issues?



- Without issues:
  - Ideas disappear 😞
- With issues:
  - Ideas become work items!

A proposal to change timeline

# Pull Requests and Reviews

## Anatomy of a Pull Request



WIP: adding slides for course 4 #10

Edit

Draft **bruhn\_b** wants to merge 2 commits from [issue1-gitcourse-adding-pdf](#) into [main](#)

Conversation 0 Commits 2 Files Changed 6

+27

**bruhn\_b** commented 7 minutes ago Member

Signed-off-by: Basil Bruhn [basil.bruhn@psi.ch](mailto:basil.bruhn@psi.ch)

**bruhn\_b** added 1 commit 7 minutes ago

adding slides for course 4

1fdd043067

**bruhn\_b** marked the pull request as work in progress 7 minutes ago

**bruhn\_b** added 1 commit 2 minutes ago

fixing perms and update LFS

9b367b5a1c

**bruhn\_b** requested review from [gsell](#) 1 minute ago

[gsell](#) was assigned by **bruhn\_b** now

All checks were successful Hide all checks

RSE-PSI Website Scheduler / build-and-deploy (pull\_request) Successful in 31s [Details](#)

The merge will not be signed as the base commit is not signed.  
 This pull request can be merged automatically.

This pull request is marked as a work in progress.

Remove WIP: prefix

Create merge commit

View command line instructions

**Reviewers**

[gsell](#)

**Labels**

No labels

**Milestone**

No Milestone

**Projects**

No projects

**Assignees**

[gsell](#) ([gsell](#))

**1 Participants**

**Notifications**

Unsubscribe

**Time Tracker**

Start timer

**Due Date**

No due date set.

09.06.2026

# Pull Requests and Reviews

## Anatomy of a Pull Request



WIP: adding slides for course 4 #10

Edit

Draft [bruhn\\_b](#) wants to merge 2 commits from [issue1-gitcourse-adding-pdf](#) into [main](#)

Conversation **0** Commits **2** Files Changed **6**

+27

- bruhn\_b** commented 7 minutes ago Member
  - Signed-off-by: Basil Bruhn [basil.bruhn@psi.ch](mailto:basil.bruhn@psi.ch)
- bruhn\_b** added 1 commit 7 minutes ago
  - adding slides for course 4 1fdd043067
- bruhn\_b** marked the pull request as work in progress 7 minutes ago
- bruhn\_b** added 1 commit 2 minutes ago
  - fixing perms and update LFS 9b367b5a1c
- bruhn\_b** requested review from [gsell](#) 1 minute ago
- [gsell](#) was assigned by **bruhn\_b** now

All checks were successful Hide all checks

- RSE-PSI Website Scheduler / build-and-deploy (pull\_request) Successful in 31s Details
- The merge will not be signed as the base commit is not signed.
  - This pull request can be merged automatically.
- This pull request is marked as a work in progress. Remove WIP: prefix

[Create merge commit](#)

View command line instructions

**Reviewers**

- [gsell](#)

**Labels**

No labels

**Milestone**

No Milestone

**Projects**

No projects

**Assignees**

- [gsell](#) ([gsell](#))

**1 Participants**

- 

**Notifications**

Unsubscribe

**Time Tracker**

Start timer +

**Due Date**

No due date set.

09.06.2026 +

# Pull Requests and Reviews

## Anatomy of a Pull Request



WIP: adding slides for course 4 #10

Edit

Draft [bruhn\\_b](#) wants to merge 2 commits from [issue1-gitcourse-adding-pdf](#) into [main](#)

Conversation **0** Commits **2** Files Changed **6** +27

- bruhn\_b** commented 7 minutes ago Member 

Signed-off-by: Basil Bruhn [basil.bruhn@psi.ch](mailto:basil.bruhn@psi.ch)
- bruhn\_b** added 1 commit 7 minutes ago
  - adding slides for course 4 ... [1fdd043067](#)
- bruhn\_b** marked the pull request as work in progress 7 minutes ago
- bruhn\_b** added 1 commit 2 minutes ago
  - fixing perms and update LFS ... [9b367b5a1c](#)
- bruhn\_b** requested review from [gsell](#) 1 minute ago
- [gsell](#) was assigned by **bruhn\_b** now

All checks were successful Hide all checks

- RSE-PSI Website Scheduler / build-and-deploy (pull\_request) Successful in 31s [Details](#)
- The merge will not be signed as the base commit is not signed.
  - This pull request can be merged automatically.
- This pull request is marked as a work in progress. [Remove WIP: prefix](#)

**Reviewers**

[gsell](#)

**Labels**

No labels

**Milestone**

No Milestone

**Projects**

No projects

**Assignees**

[gsell](#) ([gsell](#))

**1 Participants**

**Notifications**

Unsubscribe

**Time Tracker**

Start timer +

**Due Date**

No due date set.

[09.06.2026](#) +

Create merge commit

View command line instructions

# Pull Requests and Reviews

## Anatomy of a Pull Request



WIP: adding slides for course 4 #10

Edit

Draft [bruhn\\_b](#) wants to merge 2 commits from [issue1-gitcourse-adding-pdf](#) into [main](#)

Conversation **0** Commits **2** Files Changed **6** +27

- bruhn\_b** commented 7 minutes ago Member   
Signed-off-by: Basil Bruhn [basil.bruhn@psi.ch](mailto:basil.bruhn@psi.ch)
- bruhn\_b** added 1 commit 7 minutes ago
  - adding slides for course 4 ... [1fdd043067](#)
- bruhn\_b** marked the pull request as work in progress 7 minutes ago
- bruhn\_b** added 1 commit 2 minutes ago
  - fixing perms and update LFS ... [9b367b5a1c](#)
- bruhn\_b** requested review from [gsell](#) 1 minute ago
- [gsell](#) was assigned by **bruhn\_b** now

All checks were successful Hide all checks

- RSE-PSI Website Scheduler / build-and-deploy (pull\_request) Successful in 31s [Details](#)
- The merge will not be signed as the base commit is not signed.  
 This pull request can be merged automatically.
- This pull request is marked as a work in progress. [Remove WIP: prefix](#)

[Create merge commit](#)

View command line instructions

**Reviewers**

[gsell](#)

**Labels**

No labels

**Milestone**

No Milestone

**Projects**

No projects

**Assignees**

[gsell](#) ([gsell](#))

**1 Participants**

**Notifications**

[Unsubscribe](#)

**Time Tracker**

[Start timer](#)

**Due Date**

No due date set.

[09.06.2026](#)

# Pull Requests and Reviews

## Anatomy of a Pull Request



**Create merge commit**

- Create merge commit
- Rebase, then fast-forward
- Rebase, then create merge commit
- Create squash commit
- Fast-forward only

WIP: adding slides for course 4 #10 Edit

**Draft** bruhn\_b wants to merge 2 commits from `issue1-gitcourse-adding-pdf` into `main`

Conversation 0 Commits 2 Files Changed 6 +27

**bruhn\_b** commented 7 minutes ago Member

Signed-off-by: Basil Bruhn `basil.bruhn@psi.ch`

**bruhn\_b** added 1 commit 7 minutes ago

- adding slides for course 4 1fdd043067

**bruhn\_b** marked the pull request as work in progress 7 minutes ago

**bruhn\_b** added 1 commit 2 minutes ago

- fixing perms and update LFS 9b367b5a1c

**bruhn\_b** requested review from gsell 1 minute ago

**gsell** was assigned by bruhn\_b now

All checks were successful Hide all checks

- ✓ RSE-PSI Website Scheduler / build-and-deploy (pull\_request) Successful in 31s Details
- 🔒 The merge will not be signed as the base commit is not signed.
- ✓ This pull request can be merged automatically.
- ✗ This pull request is marked as a work in progress. Remove WIP: prefix

**Create merge commit**

▶ View command line instructions

**Reviewers**

- gsell

**Labels**

No labels

**Milestone**

No Milestone

**Projects**

No projects

**Assignees**

- gsell (gsell)

**1 Participants**

- 

**Notifications**

🔊 Unsubscribe

**Time Tracker**

🕒 Start timer +

**Due Date**

No due date set.

09.06.2026 📅 +

# Pull Requests and Reviews

## Code Review



### WIP: adding slides for course 4 #10

Edit

Draft bruhn\_b wants to merge 2 commits from [issue1-gitcourse-adding-pdf](#) into [main](#)

Conversation 0

Commits 2

Files Changed 6

+27

6 changed files with 27 additions and 0 deletions

0 / 6 files viewed

Navigation icons: list, diff, search, refresh, and a Review button.

- docs/events/2026-04-28
  - .gitattributes
  - GIT\_CI\_CD\_4.pdf
  - GIT\_for\_advanced\_3.pdf
  - GIT\_for\_beginners\_2.pdf
  - GIT\_for\_newbies.pdf
  - Git-course.md

diff view for docs/events/2026-04-28/.gitattributes

```
@@ -0,0 +1,4 @@
1 + GIT_for_advanced_3.pdf filter=lfs diff=lfs merge=lfs -text
2 + GIT_for_beginners_2.pdf filter=lfs diff=lfs merge=lfs -text
3 + GIT_for_newbies.pdf filter=lfs diff=lfs merge=lfs -text
4 + GIT_CI_CD_4.pdf filter=lfs diff=lfs merge=lfs -text
```

docs/events/2026-04-28/GIT\_CI\_CD\_4.pdf LFS BIN Viewed

Binary file not shown.

docs/events/2026-04-28/GIT\_for\_advanced\_3.pdf BIN Viewed

Binary file not shown.

docs/events/2026-04-28/GIT\_for\_beginners\_2.pdf BIN Viewed

# Pull Requests and Reviews

## Protected Branches



- Branches can be protected from pushing
  - Can be allowed for certain users
- Can be allowed for force push
  - `git push --force`
  - Replace the remote history with your local
- Set rules for PR approvals
- Set rules for Merging

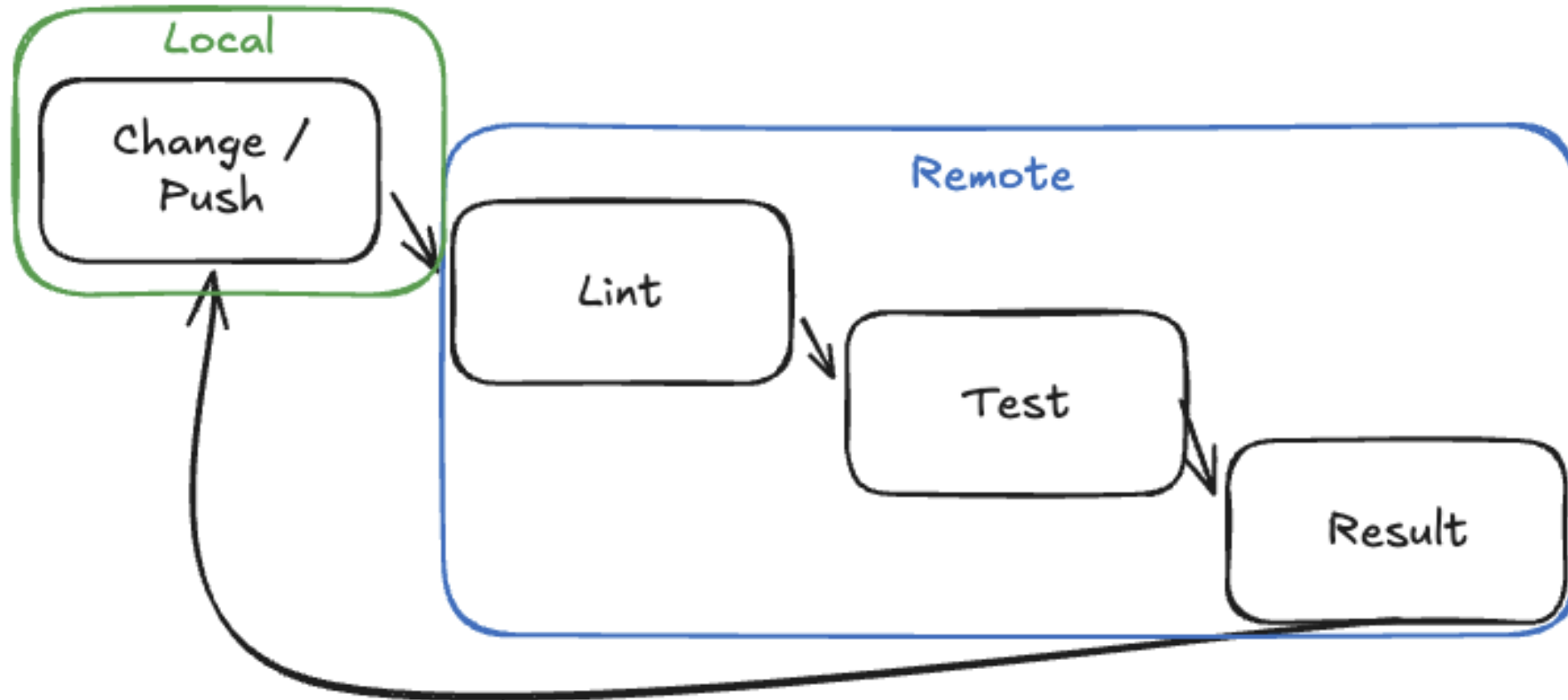
# Continuous Integration

## What is CI?



Every commit automatically triggers a “pipeline” that runs automated tests to ensure the new code doesn’t break existing functionality

# Continuous Integration CI Pipeline



# Continuous Integration

## Nobody Clicked Anything



WIP: adding slides for course 4 #10 Edit

Draft bruhn\_b wants to merge 2 commits from `issues1-gitcourse-adding-pdf` into `main`

Conversation Commits Files Changed +27

**bruhn\_b** commented 7 minutes ago Member

Signed-off-by: Basil Bruhn `basil.bruhn@psi.ch`

**bruhn\_b** added 1 commit 7 minutes ago

- adding slides for course 4 1fd4843867

**bruhn\_b** marked the pull request as work in progress 7 minutes ago

**bruhn\_b** added 1 commit 2 minutes ago

- fixing perms and update LFS 9b367b5a1c

**bruhn\_b** requested review from gsell 1 minute ago

**gsell** was assigned by bruhn\_b now

All checks were successful Hide all checks

- ✓ RSE-PSI Website Scheduler / build-and-deploy (pull\_request) Successful in 37s Details

ⓘ The merge will not be signed as the base commit is not signed.  
✓ This pull request can be merged automatically.

✗ This pull request is marked as a work in progress. Remove WIP: prefix

➔ Create merge commit

▶ View command line instructions

**Reviewers** gsell

**Labels** No labels

**Milestone** No Milestone

**Projects** No projects

**Assignees** gsell (gsell)

**1 Participants** gsell

**Notifications** Unsubscribe

**Time Tracker** Start timer

**Due Date** No due date set. 09.06.2026

Commit -> Push -> Automation

# Continuous Integration

## First Pipeline

[gitea.psi.ch/rse/git-course-notes](https://gitea.psi.ch/rse/git-course-notes)



[rse.pages.psi.ch/git-course-notes](https://rse.pages.psi.ch/git-course-notes)



# Continuous Integration First Pipeline



RSE / git-course-notes

Watch 0 Star 0 Fork 0

[Code](#) [Issues](#) [Pull Requests](#) [Actions](#) [Packages](#) [Projects](#) [Releases](#) [Wiki](#) [Activity](#) [Settings](#)

3 Commits

2 Branches

0 Tags

Search code...

main

Go to file  Add File [Code](#)

bruhn_b	64b87a1557	add lint and test pipeline	2 minutes ago
.gitea/workflows		add lint and test pipeline	2 minutes ago
docs		basic structure for git course page	13 minutes ago
README.md		Initial commit	25 minutes ago
zensical.toml		basic structure for git course page	13 minutes ago

README.md

## git-course-notes

Some notes to share and the PDF's. Also a template for you to copy to get started with CI/CD and Pages!

**Description**  
Some notes to share and the PDF's. Also a template for you to copy to get started with CI/CD and Pages!

Manage Topics

Readme

207 KiB

# Continuous Integration First Pipeline



RSE / git-course-notes

<> Code Issues Pull Requests Actions Packages Projects Releases Wiki Activity

3 Commits 2 Branches 0 Tags

main

Go to file Add File <> Code

bruhn\_b 64b87a1557 ✓ add lint and test pipeline 1 minute ago

.gitea/workflows add lint and test pipeline 1 minute ago

# Continuous Integration First Pipeline



```
.gitea/workflows/lint-pages.yaml
```

```
name: Lint and Test
```

```
on:
```

```
  push:
```

# Continuous Integration

## Linting



RSE / git-course-notes



Watch

0

Star

<> Code

Issues

Pull Requests

**Actions**

Packages

Projects

Releases

Wiki

Activity

### Update .gitea/workflows/lint-test.yaml

lint-test.yaml : Commit 0486378ce1 pushed by bruhn\_b main

Summary

All jobs

lint

6s

Run Details

Workflow file

lint

Failure

> Set up job

> Checkout code

✖ Markdown Lint

1 markdownlint-cli2 v0.22.1 (markdownlint v0.40.0)

2 Finding: README.md docs/\*.md

3 Linting: 6 file(s)

4 Summary: 3 error(s)

5 **Error:** docs/index.md:3 MD012/no-multiple-blanks Multiple consecutive blank lines [Expected: 1; Actual: 2]

<https://github.com/DavidAnson/markdownlint/blob/v0.40.0/doc/md012.md>

6 **Error:** README.md:3:81 MD013/line-length Line length [Expected: 80; Actual: 103]

<https://github.com/DavidAnson/markdownlint/blob/v0.40.0/doc/md013.md>

7 **Error:** README.md:3:103 MD047/single-trailing-newline Files should end with a single newline character

<https://github.com/DavidAnson/markdownlint/blob/v0.40.0/doc/md047.md>

8 **Error:** Failed with exit code: 1

9 Failure - Main Markdown Lint

10 exitcode '1': failure

# Continuous Integration Pipeline Results



RSE / git-course-notes

<> Code

Issues

Pull Requests

Actions 1

Packages

Projects

Releases

## more linting

lint-pages.yaml : Commit dcae90a72b pushed by bruhn\_b main

Summary

All jobs

lint

3s

Run Details

Workflow file

### lint

Success

> Set up job

> Checkout code

Markdown Lint

```
1 markdownlint-cli2 v0.22.1 (markdownlint v0.40.0)
2 Finding: README.md docs/*.md
3 Linting: 6 file(s)
4 Summary: 0 error(s)
```

> Complete job

# Continuous Integration Linting Job



```
name: Lint Markdown
```

```
on:
```

```
  pull_request:
```

```
  push:
```

```
jobs:
```

```
  lint:
```

```
    runs-on: ubuntu-latest
```

# Continuous Integration

## Linting Job



steps:

- name: Checkout code  
uses: actions/checkout@v4
- name: Markdown Lint  
uses: actions/markdownlint-cli2-action@main  
with:
  - globs: |  
README.md  
docs/\*.md

# Continuous Integration



## Why Lint?

- Consistent Style
- Early Feedback
- Fewer Mistakes

# Continuous Integration



## Why Test Automatically?

- Humans forget
- Computers do not

# Continuous Integration

## Test Build



RSE / git-course-notes

[Code](#) [Issues](#) [Pull Requests](#) **[Actions](#)** [Packages](#) [Projects](#) [Releases](#) [Wiki](#) [Activity](#)

### more linting

test-pages.yaml : Commit dcae90a72b pushed by bruhn\_b main

[Summary](#)

All jobs

✓ **docker** 🔄 3s

Run Details

[Workflow file](#)

#### docker

Success

- > ✓ Set up job
- > ✓ Checkout
- ▼ ✓ Build page
  - 1 Build started
  - 2 + /
  - 3 + /course1/
  - 4 + /course3/
  - 5 + /course2/
  - 6 + /course4/
  - 7 Build finished in 0.38s
- > ✓ Complete job

# Continuous Integration Test Action



name: Test Zensical build

on:

pull\_request:

push:

jobs:

docker:

runs-on: ubuntu-latest-intranet

container:

image: gitea.psi.ch/images/alpine-zensical

# Continuous Integration Test Action



steps:

- name: Checkout  
uses: actions/checkout@v4
- name: Build page  
run: /opt/python-env/bin/zensical build

# Continuous Delivery

## What is CD?



Automatically prepare software for release.

# Continuous Delivery Releases



- git tag
  - Lightweight tags
  - Annotated tags
- Release Notes
- Artifacts

# Continuous Delivery



## Tag

→ `git-course-notes git:(main) git tag v1.0`

→ `git-course-notes git:(main) git push origin v1.0`

# Continuous Delivery

## Artifacts



RSE / git-course-notes

[Code](#) [Issues](#) [Pull Requests](#) [Actions](#) [Packages](#) [Projects](#) **[Releases](#)** [Wiki](#) [Activity](#)

0 Releases

1 Tag

v1.0

b5bd2cfc66

Compare

### create first release ✓

 bruhn\_b released this 1 minute ago

Signed-off-by: Basil Bruhn [basil.bruhn@psi.ch](mailto:basil.bruhn@psi.ch)

▼ Downloads

 [Source Code \(ZIP\)](#)

 [Source Code \(TAR.GZ\)](#)

# Continuous Delivery

## Why Git Pages?



- Simple
- Visible
- Immediate Feedback
- Everyone can relate to

# Continuous Delivery

## The Complete Workflow



RSE / git-course-notes

<> Code **Issues 1** Pull Requests 1 Actions Packages Projects Releases Wiki Activity

### [Feature] Add all PDF to course Notes #1

**Open** opened 10 minutes ago by [bruhn\\_b](#) · 0 comments



**bruhn\_b** commented 10 minutes ago

Owner 😊 ⋮

TODO:

- Organise PDF in a new folder
- Link PDF to respective course day

DOD:

- Lint and Test are successful
- PDF show up on Git page

# Continuous Delivery

## The Complete Workflow



[Feature] Add all PDF to course Notes #1 #2

Open bruhn\_b wants to merge 3 commits from feature/Add-PDFs into main

Conversation 0 Commits 3 Files Changed 9

9 changed files with 28 additions and 0 deletions

- docs
  - PDF
    - .gitattributes
    - GIT\_CI\_CD\_4.pdf
    - GIT\_for\_advanced\_3.pdf
    - GIT\_for\_beginners\_2.pdf
    - GIT\_for\_newbies.pdf
  - course1.md
  - course2.md
  - course3.md
  - course4.md

```
docs/PDF/.gitattributes
@@ -0,0 +1,4 @@
1 + GIT_CI_CD_4.pdf filter=lfs diff=lfs merge=lfs -text
2 + GIT_for_advanced_3.pdf filter=lfs diff=lfs merge=lfs -text
3 + GIT_for_beginners_2.pdf filter=lfs diff=lfs merge=lfs -text
4 + GIT_for_newbies.pdf filter=lfs diff=lfs merge=lfs -text

docs/PDF/GIT_CI_CD_4.pdf LFS
Binary file not shown.

docs/PDF/GIT_for_advanced_3.pdf LFS
Binary file not shown.

docs/PDF/GIT_for_beginners_2.pdf LFS
Binary file not shown.

docs/PDF/GIT_for_newbies.pdf LFS
Binary file not shown.

docs/course1.md
@@ -0,0 +1,3 @@
1 + # Git for newbies
2 +
3 + [Download the PDF here](PDF/GIT_for_newbies.pdf)
```

# Continuous Delivery

## The Complete Workflow



RSE / git-course-notes

<> Code Issues 1 Pull Requests 1 Actions Packages Projects Releases Wiki Activity

### [Feature] Add all PDF to course Notes #1 #2

Open bruhn\_b wants to merge 3 commits from feature/Add-PDFs into main

Conversation 0 Commits 3 Files Changed 9

bruhn\_b commented 9 minutes ago  
No description provided.

bruhn\_b added 2 commits 9 minutes ago

- [Feature] Add all PDF to course Notes #1 (4553f42768)
- [Feature] Add all PDF to course Notes #1 (717b17f0bd)

bruhn\_b added 1 commit 6 minutes ago

- fixed some linting (d6902eed5f)

All checks were successful Hide all checks

- ✓ Lint and Test / lint (push) Successful in 4s Details
- ✓ Test Zensical build / docker (push) Successful in 3s Details

# Continuous Delivery

## The Complete Workflow



RSE / git-course-notes

<> Code Issues 1 Pull Requests Actions Packages Projects Releases Wiki Activity

### [Feature] Add all PDF to course Notes #1 #2

Merged bruhn\_b merged 3 commits from feature/Add-PDFs into main now

Conversation 0 Commits 3 Files Changed 9

bruhn\_b commented 11 minutes ago

No description provided.

- bruhn\_b added 2 commits 11 minutes ago
  - [Feature] Add all PDF to course Notes #1
  - [Feature] Add all PDF to course Notes #1

- bruhn\_b added 1 commit 8 minutes ago
  - fixed some linting

bruhn\_b merged commit 6c19ed8570 into main now

Pull request successfully merged and closed

The branch feature/Add-PDFs can now be deleted.

Delete Branch

# Continuous Delivery

## The Complete Workflow



RSE / git-course-notes

<> Code Issues 1 Pull Requests **Actions** Packages Projects Releases Wiki Activity Settings

- All Workflows
- build-pages.yaml
- lint-pages.yaml
- test-pages.yaml

46 workflow runs

	Actor	Status	...
<b>[Feature] Add all PDF to course Notes #1 (#2)</b> test-pages.yaml #46: Commit 6c19ed8570 pushed by bruhn_b	main	📅 1 minute ago 🕒 3s	...
<b>[Feature] Add all PDF to course Notes #1 (#2)</b> lint-pages.yaml #45: Commit 6c19ed8570 pushed by bruhn_b	main	📅 1 minute ago 🕒 4s	...
<b>[Feature] Add all PDF to course Notes #1 (#2)</b> build-pages.yaml #44: Commit 6c19ed8570 pushed by bruhn_b	main	📅 1 minute ago 🕒 3s	...

# Continuous Delivery

## The Complete Workflow



[feature] Add all PDF to course notes #1 (#2)



bruhn\_b commented now

Author

Owner



<https://rse.pages.psi.ch/git-course-notes/course1/>



RSE Git Course Notes

RSE Git Course Notes

### Git for newbies

Git for newbies

Git for beginners

Git for advanced

Introduction to CI/CD

[Download the PDF here](#)

image.png

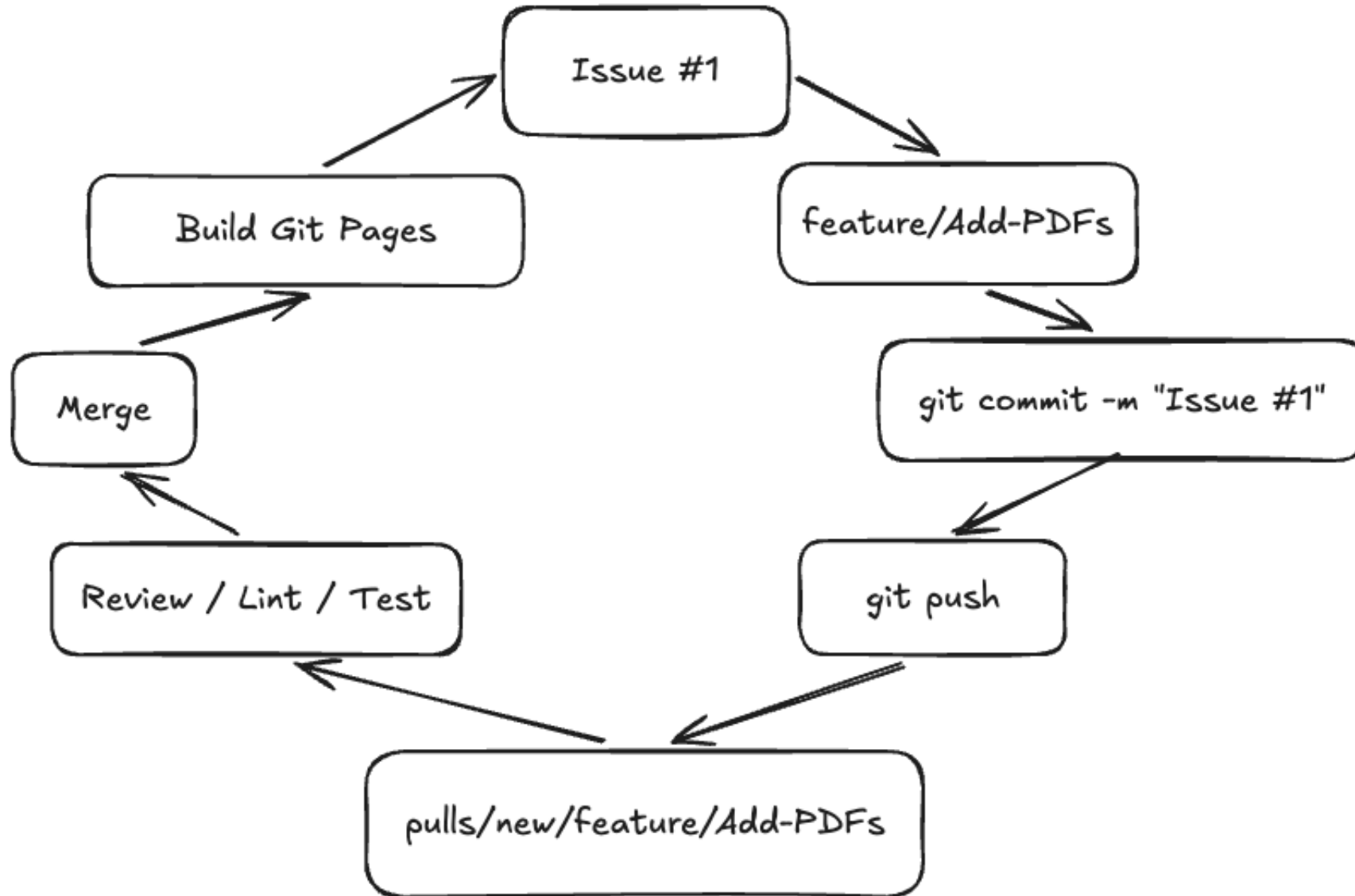
38 KiB



bruhn\_b closed this issue now

# Continuous Delivery

## The Complete Workflow



# Taking a glance into the future



You feel confident to bring in ideas and changes to your research project!

# Questions!

