Init, initial commit

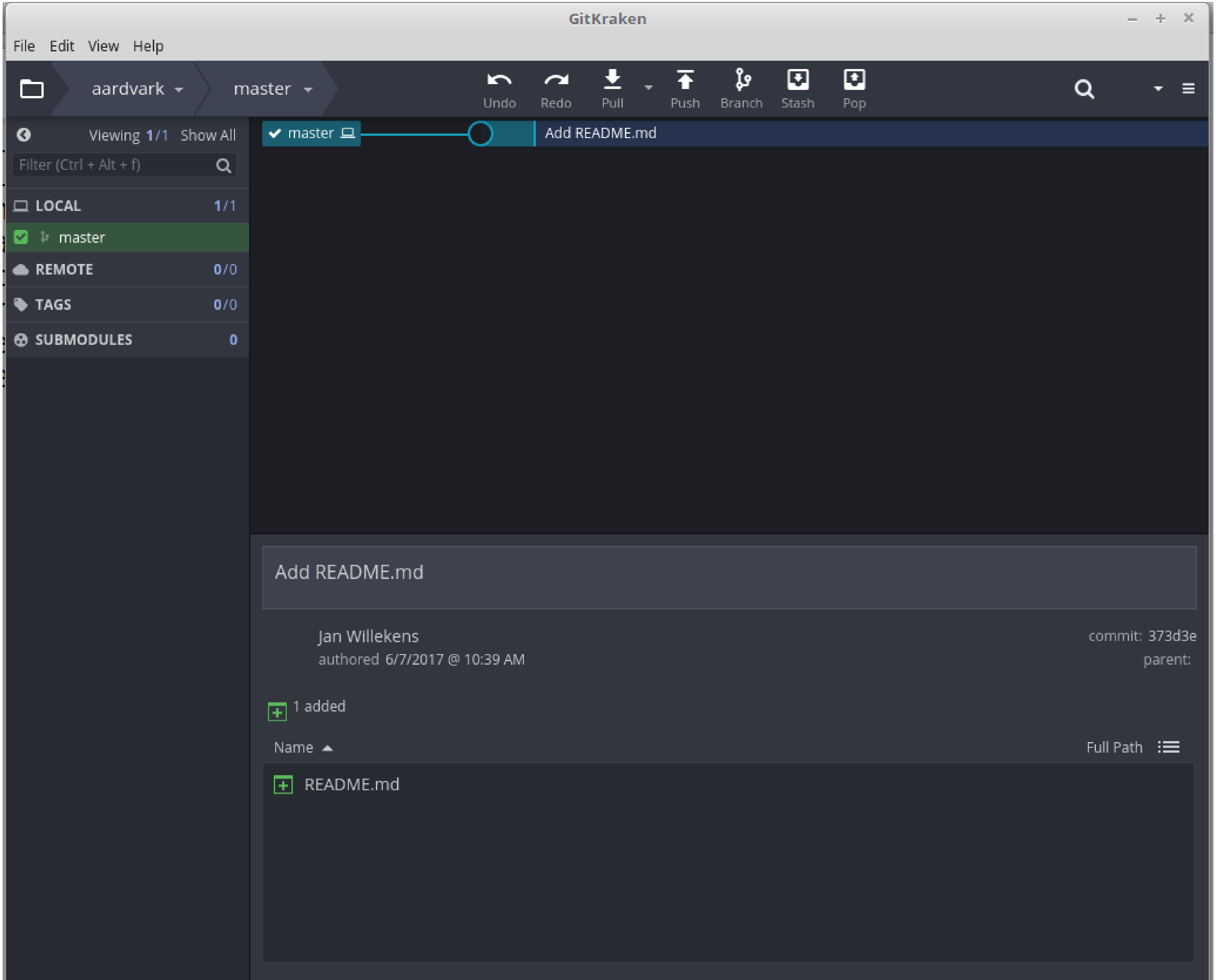
Alle stappen om een project met master-branch aan te maken.

```
$ git init
Initialized empty Git repository in ...

$ git config user.name "tim"

$ git config user.email "tim@email.com"

$ touch README.md
$ git add README.md
$ git commit -m "Add README.md"
[master (root-commit) e23e4e0] Add README.md
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 README.md
```



Add README.md

Add README.md

Jan Willekens
authored 6/7/2017 @ 10:39 AM

commit: 373d3e
parent:

1 added

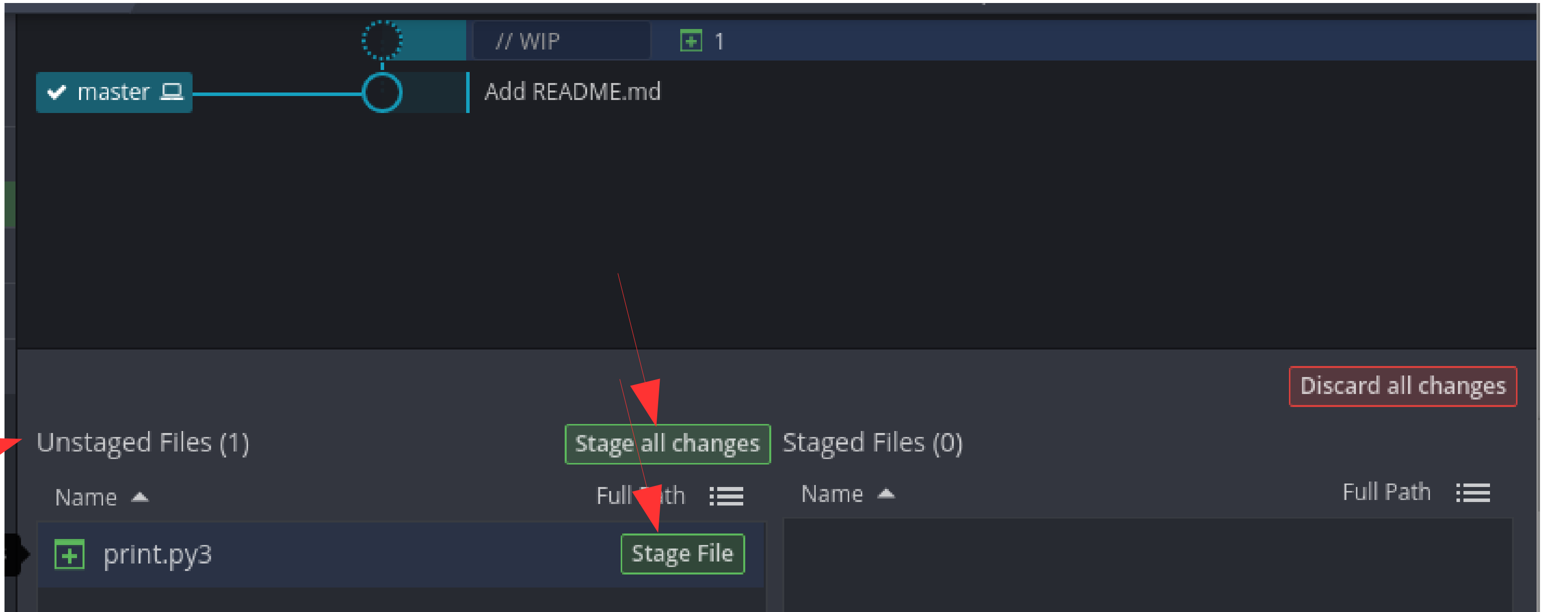
README.md

Unstaged (WIP Work in progress)

```
# maak print.py3 aan
$ vi print.py3
$ cat print.py3
print ("hello word")
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    print.py3

nothing added to commit but untracked files present (use "git add" to track)
```

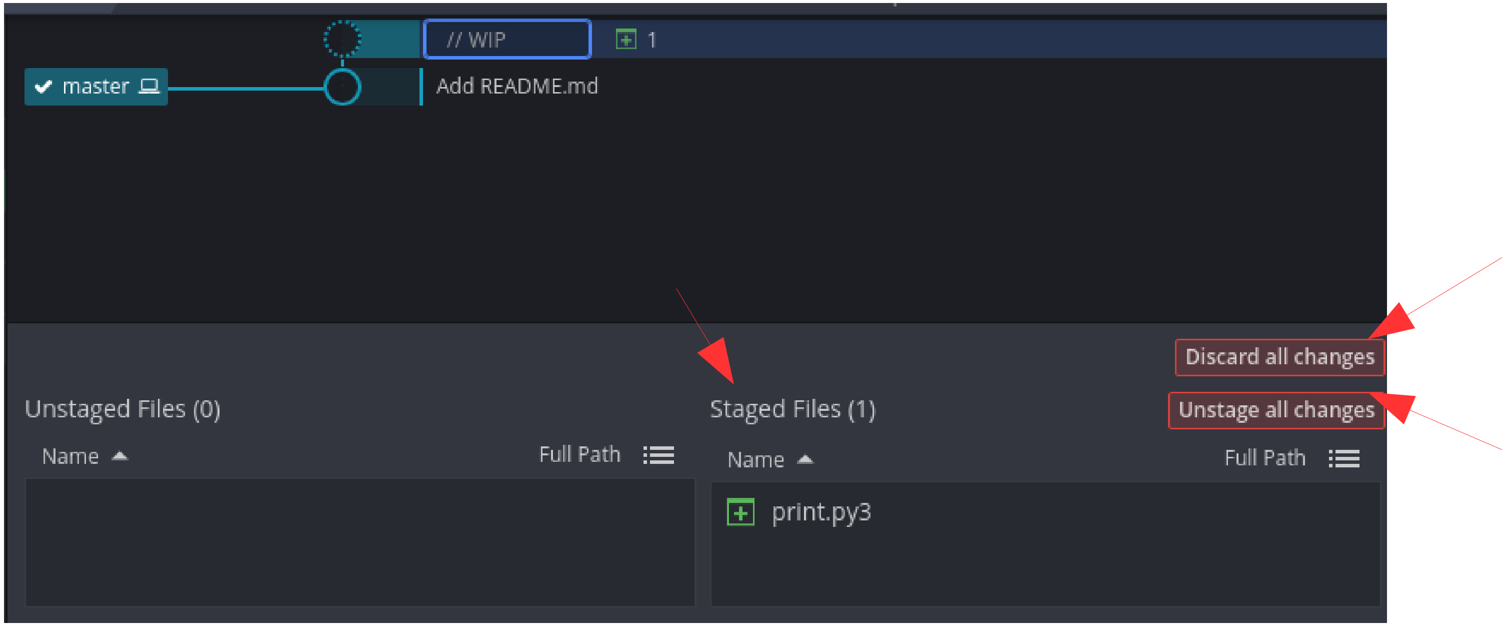


Add: stage

Stage ~ ruimte waar file/dir klaargezet worden voor commit

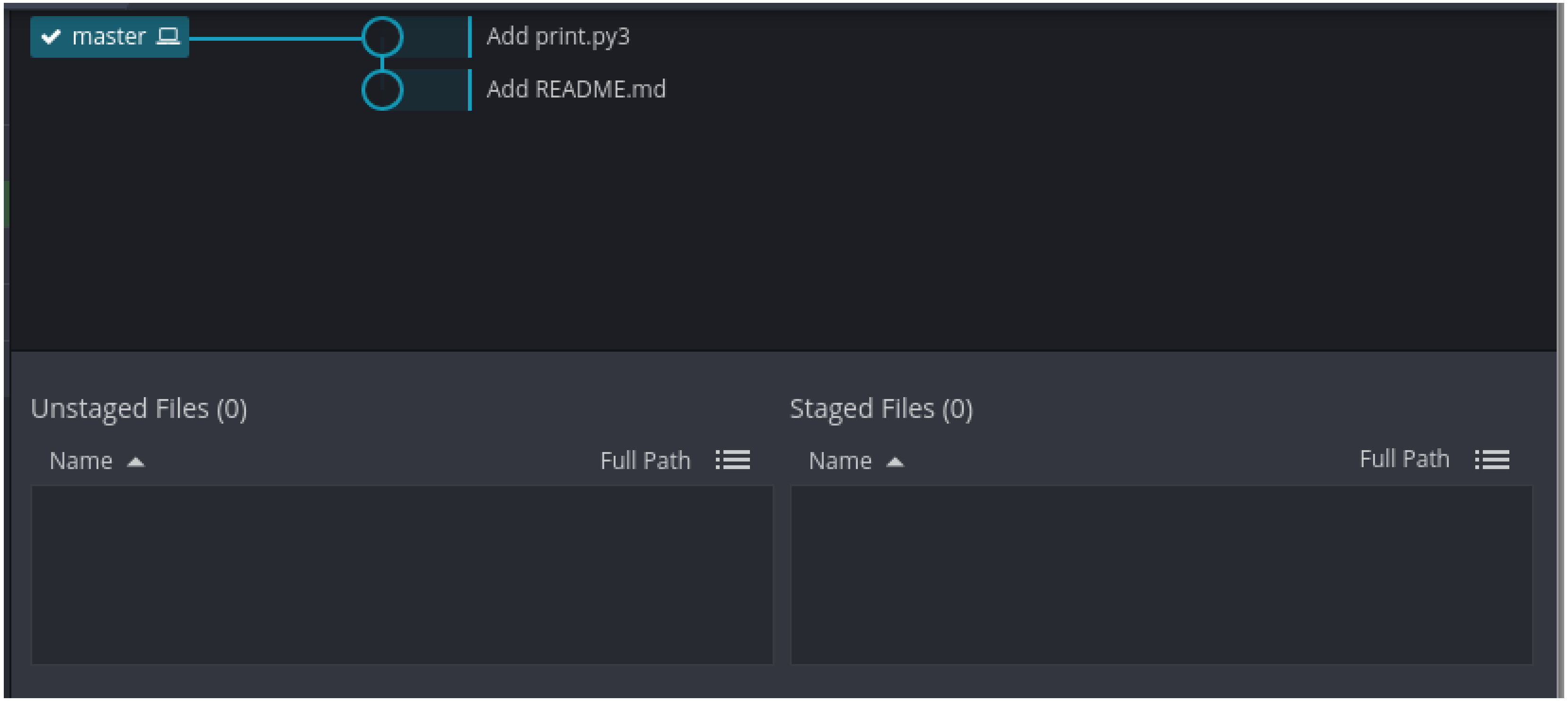
```
$ git add print.py3
$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   print.py3
```



commit

```
$ git commit -m "Add print.py3"
[master 06adffd] Add print.py3
 1 file changed, 1 insertion(+)
 create mode 100644 print.py3
$ git status
On branch master
nothing to commit, working directory clean
```



Add print.py3

Add README.md

Unstaged Files (0)

Staged Files (0)

log

```
$ git log
commit 06adffda771a2058cc62cea7ad161f21f5d78501
Author: Tim
Date:   Thu Jun 8 11:27:13 2017 +0200

    Add print.py3

commit e23e4e03e910939cbb9d60113561df3b9ae3560d
Author: Tim
Date:   Thu Jun 8 11:25:50 2017 +0200

    Add README.md
```

```
$ git log --oneline
9ab387c Updated README.md
aa29753 Updated print.py3
150ffb8 Added print.py3
1037b1d Added README.md
```

File/directory verwijderen

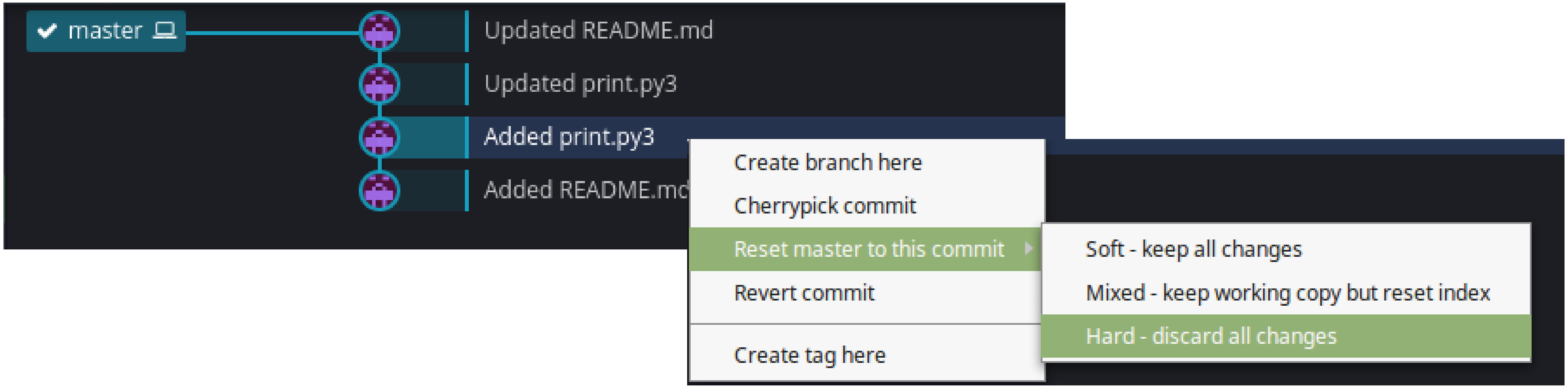
```
$ git rm print.py3
rm 'print.py3'
$ ls
README.md
$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

   deleted:    print.py3
$ git commit -m "Deleted print.py3"
[master ac2181f] delete
 1 file changed, 1 deletion(-)
 delete mode 100644 print.py3


$ git rm -r someDirectory
$ git commit -m "Deleted someDirectory"
```

Wijzigingen ongedaan maken

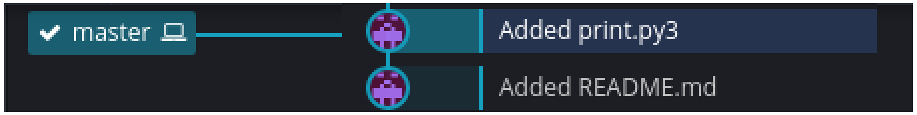
Optie 1: teruggaan in de tijd



Updated README.md
Updated print.py3
Added print.py3
Added README.md

✓ master
Create branch here
Cherrypick commit
Reset master to this commit
Revert commit
Create tag here
Soft - keep all changes
Mixed - keep working copy but reset index
Hard - discard all changes

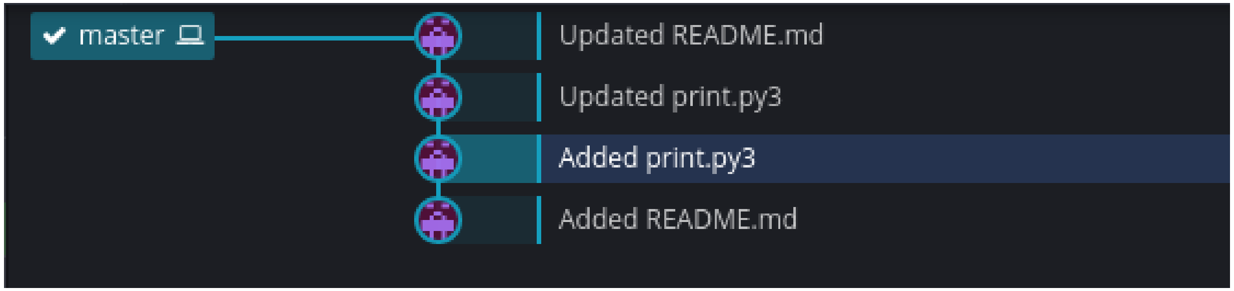
```
$ git log --oneline
9ab387c Updated README.md
aa29753 Updated print.py3
150ffb8 Added print.py3
1037b1d Added README.md
$ git reset --hard 150ffb8
```



Added print.py3
Added README.md

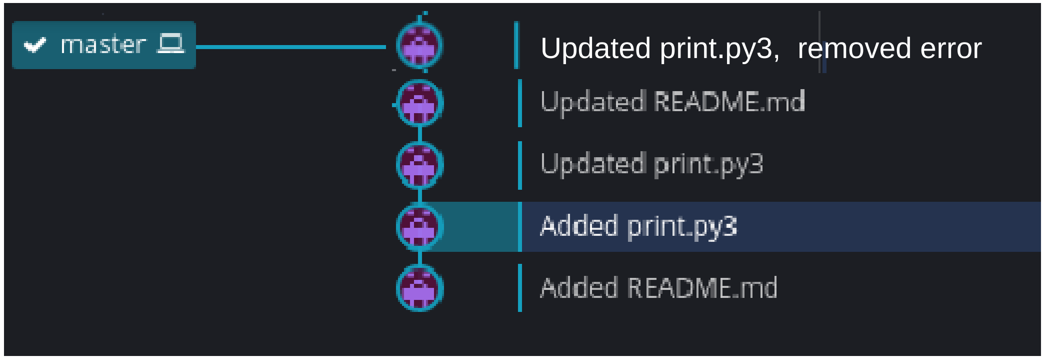
Wijzigingen ongedaan maken

Optie 2: teruggaan naar een oude commit en nieuwe commit met aangebrachte wijzigingen maken



Updated README.md
Updated print.py3
Added print.py3
Added README.md

```
$ git log --oneline
9ab387c Updated README.md
aa29753 Updated print.py3
150ffb8 Added print.py3
1037b1d Added README.md
$ git checkout 150ffb8
# bekijk de oude toestand
$ git checkout 9ab387c
# maak wijzigen, add, commit
$ vi print.py3
$ git add print.py3
$ git commit -m "Updated print.py3, removed error"
```



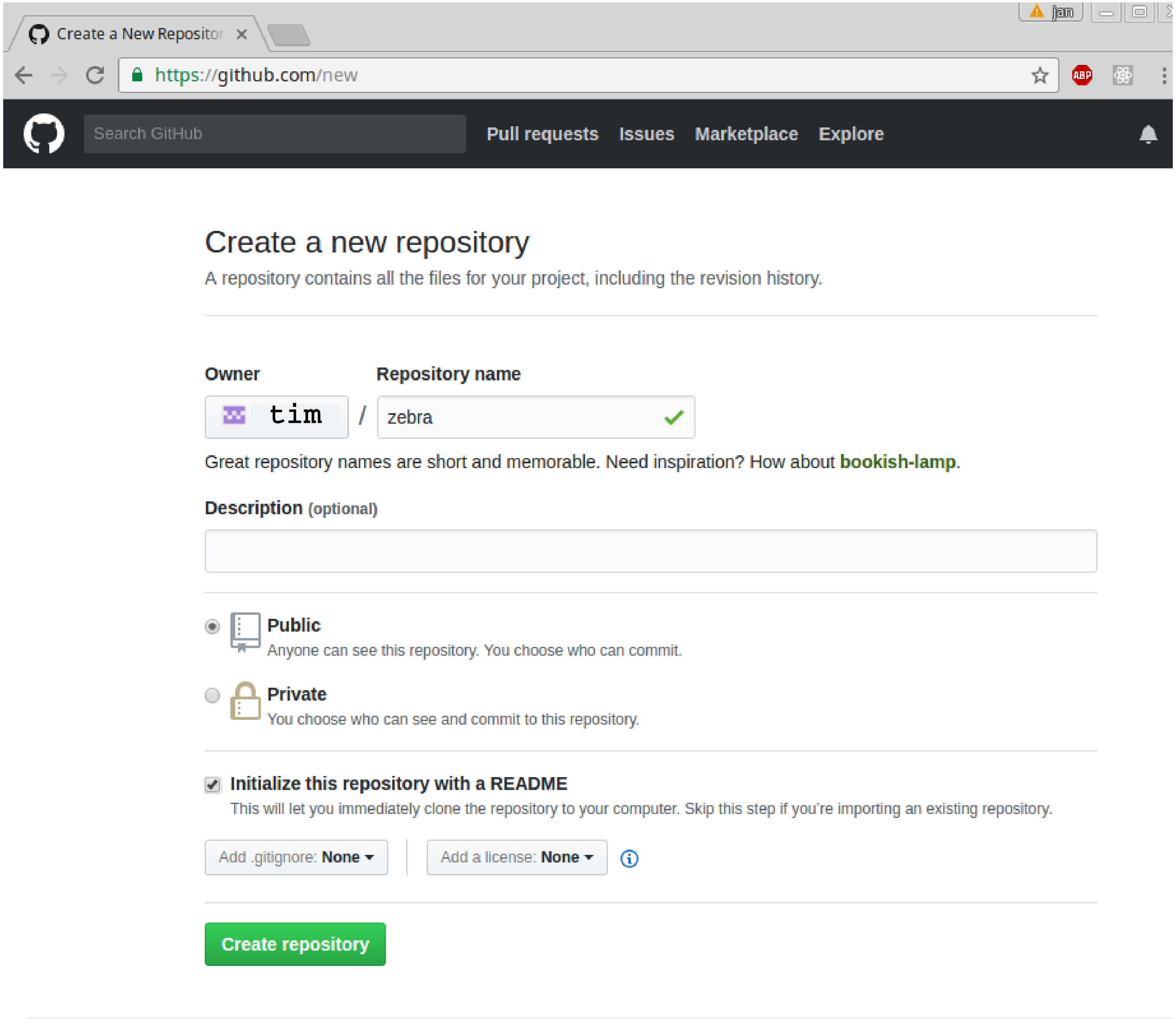
Updated print.py3, removed error
Updated README.md
Updated print.py3
Added print.py3
Added README.md

Wijzigingen ongedaan maken

Optie 3: unstaged changes ongedaan maken

```
$ rm -rf *
# oops :-)
$ git reset --hard HEAD
# eventueel met clean om untracked files / directory te
# verwijderen
$ git clean -f -d
```

Online repository



Create a new repository

A repository contains all the files for your project, including the revision history.

Owner / **Repository name**

tim / zebra ✓

Great repository names are short and memorable. Need inspiration? How about **bookish-lamp**.

Description (optional)

● **Public**
Anyone can see this repository. You choose who can commit.

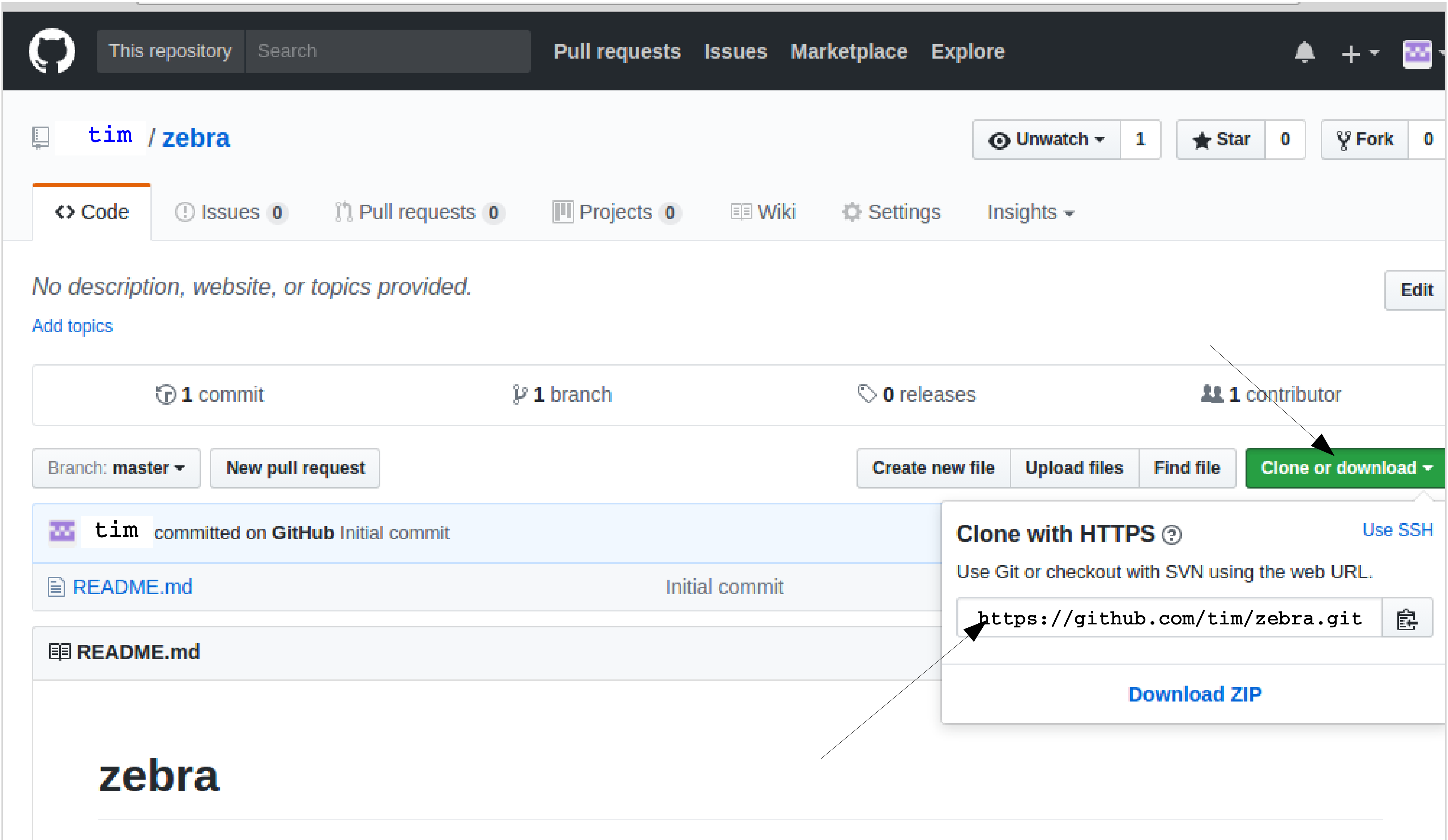
○ **Private**
You choose who can see and commit to this repository.

☑ **Initialize this repository with a README**
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** | Add a license: **None**

Create repository

Online repository



No description, website, or topics provided.

tim committed on GitHub Initial commit

README.md Initial commit

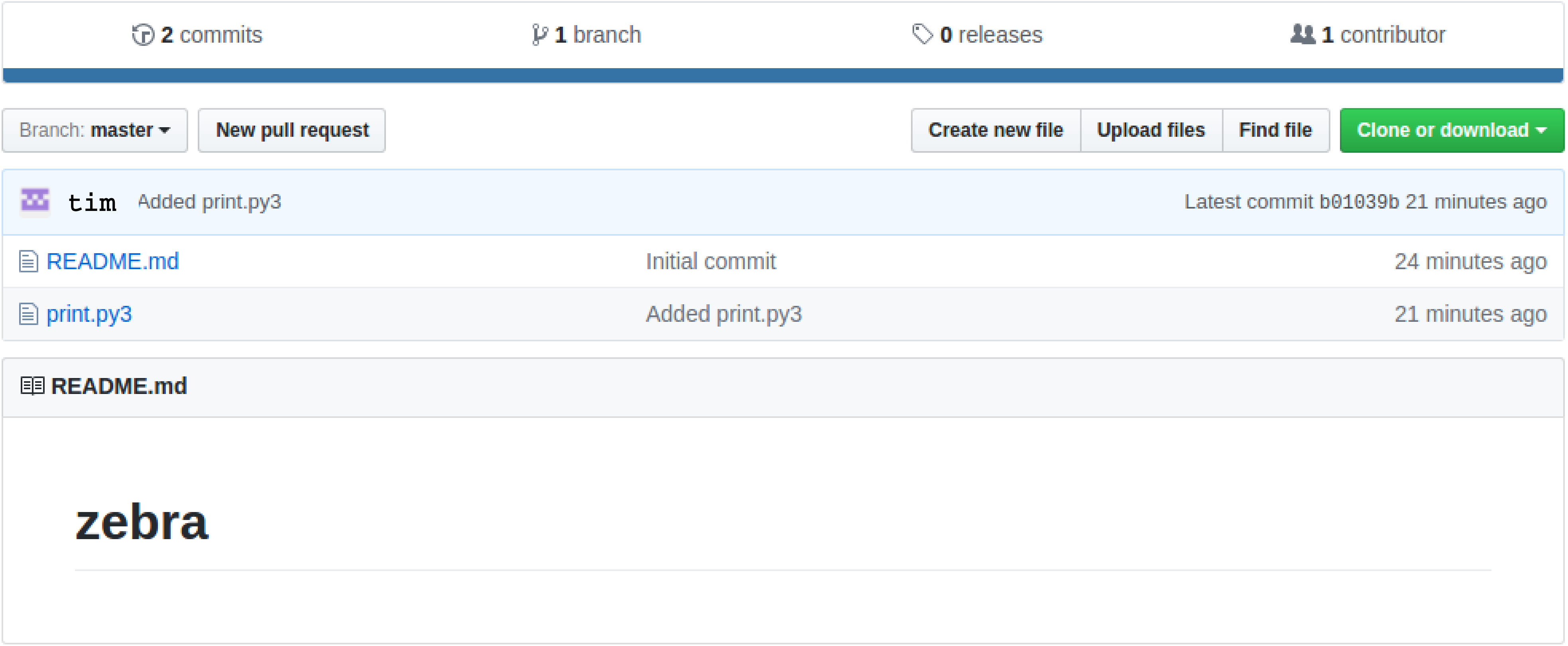
Use Git or checkout with SVN using the web URL.

https://github.com/tim/zebra.git

zebra

```
$ git remote add origin https://github.com/tim/zebra.git
$ git pull origin master
$ ls
README.md
$ vi print.py3
$ git add print.py3
$ git commit -m "Added print.py3"
[master b01039b] Added print.py3
 1 file changed, 1 insertion(+)
 create mode 100644 print.py3
$ git push origin master
Username for 'https://github.com': tim
Password for 'https://tim@github.com':
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 294 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/tim/zebra.git
   a8a3582..b01039b  master -> master
```

Online repository



tim Added print.py3 Latest commit b01039b 21 minutes ago

README.md	Initial commit	24 minutes ago
print.py3	Added print.py3	21 minutes ago

README.md

zebra

Problemen :-)

situatie: na pull wordt er een andere wijziging doorgevoerd in de online repository.
push kan niet automatisch gemerged worden

```
git push origin master
Username for 'https://github.com': tim
Password for 'https://tim@github.com':
To https://github.com/tim/zebra.git
 ! [rejected]        master -> master (fetch first)
error: failed to push some refs to
'https://github.com/tim/zebra.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

Problemen :-)

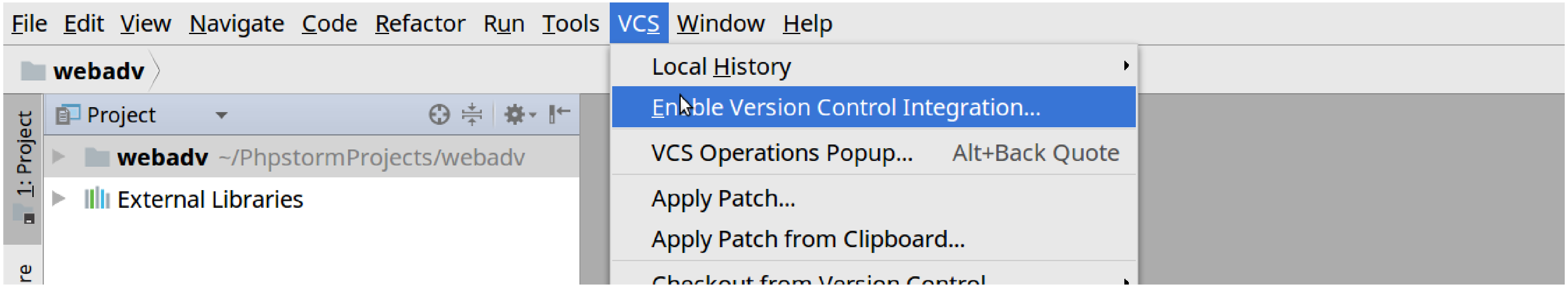
```
git pull origin master
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/willekej/zebra
 * branch            master     -> FETCH_HEAD
   b01039b..a2f40f1  master     -> o/master
Auto-merging print.py3
CONFLICT (content): Merge conflict in print.py3
Automatic merge failed; fix conflicts and then commit the result.
```

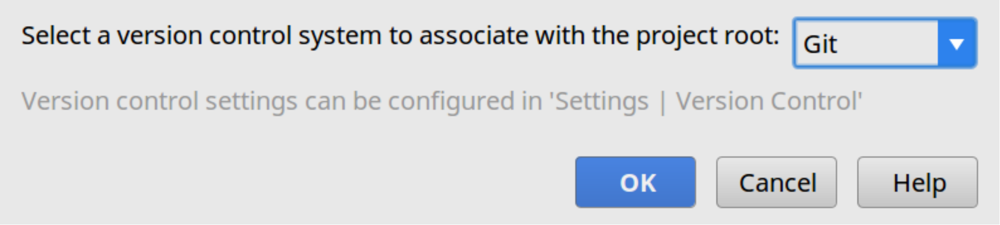
Problemen :-)

```
cat print.py3
<<<<<<< HEAD
print("ok")
=======
print("OK")
>>>>>>> a2f40f14af51b9167b37bdffc4bc49d02a59d195
```

Edititeer print.py3
Commit
Push

PHPStorm

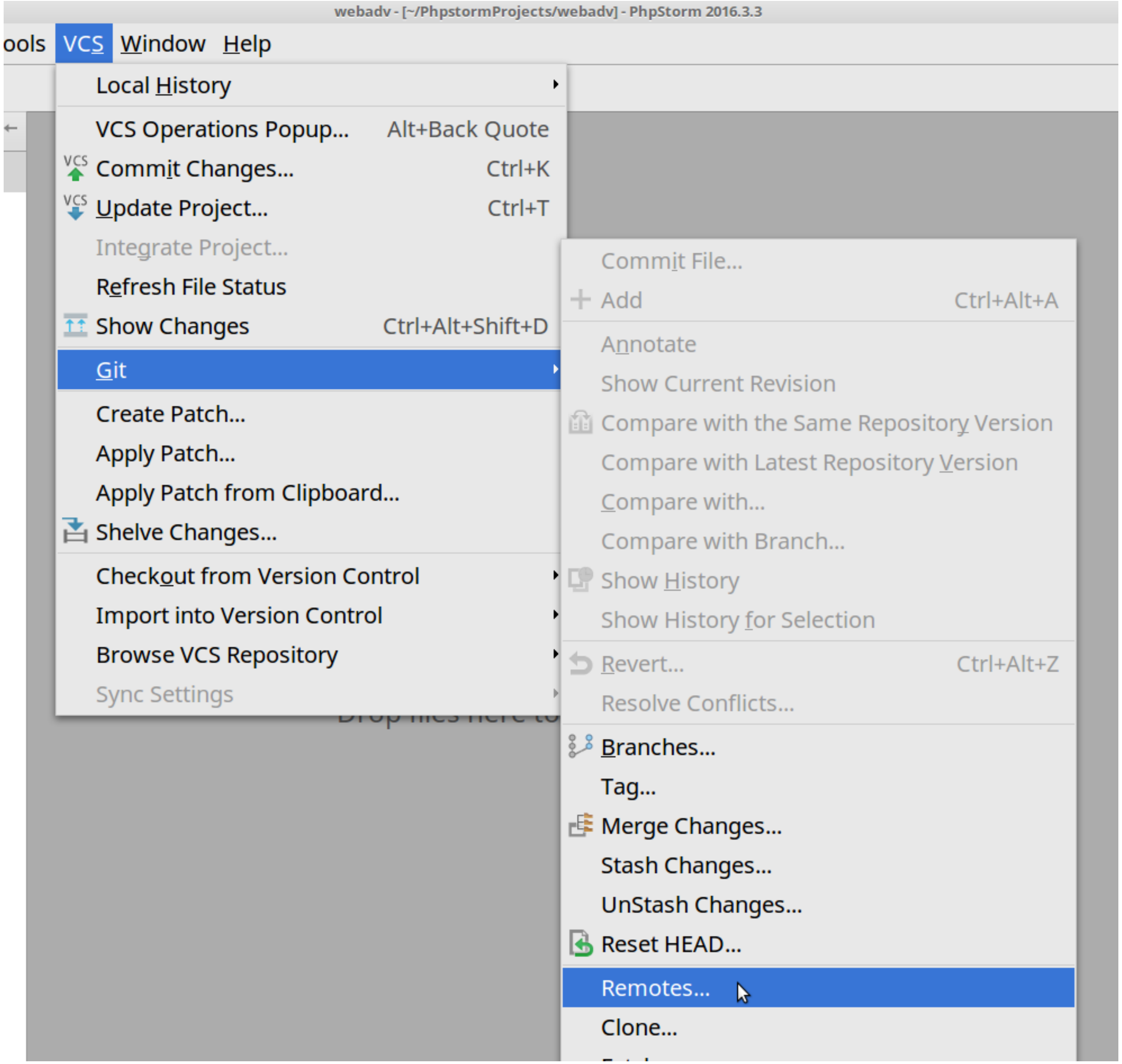

File
Edit
View
Navigate
Code
Refactor
Run
Tools
VCS
Window
Help
webadv
1: Project
Project
webadv ~/PhpstormProjects/webadv
External Libraries
Local History
Enable Version Control Integration...
VCS Operations Popup... Alt+Back Quote
Apply Patch...
Apply Patch from Clipboard...
Checkout from Version Control


Select a version control system to associate with the project root: Git

Version control settings can be configured in 'Settings | Version Control'

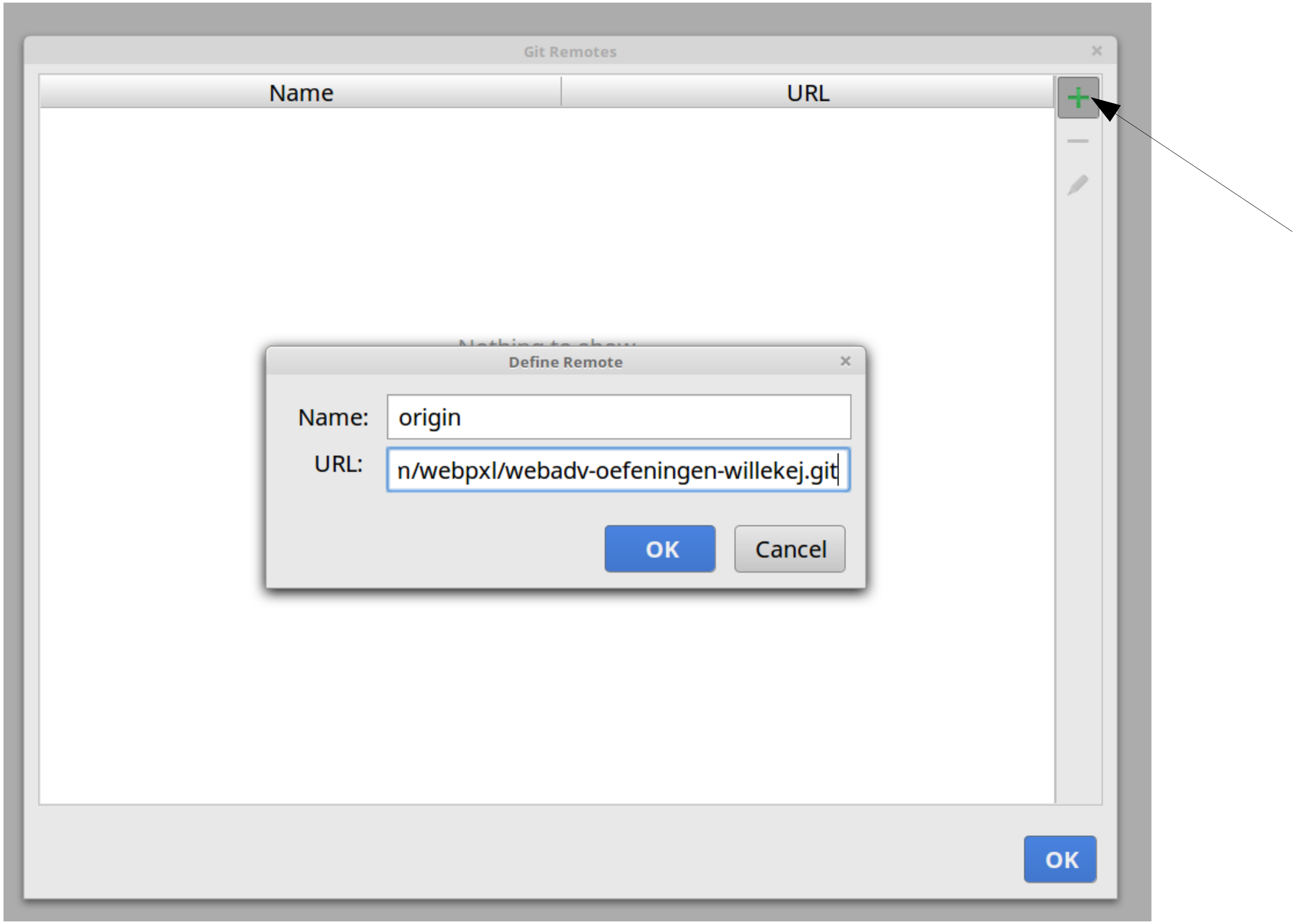
https://www.jetbrains.com/help/phpstorm/set-up-a-git-repository.html

PHPStorm



https://www.jetbrains.com/help/phpstorm/set-up-a-git-repository.html

PHPStorm

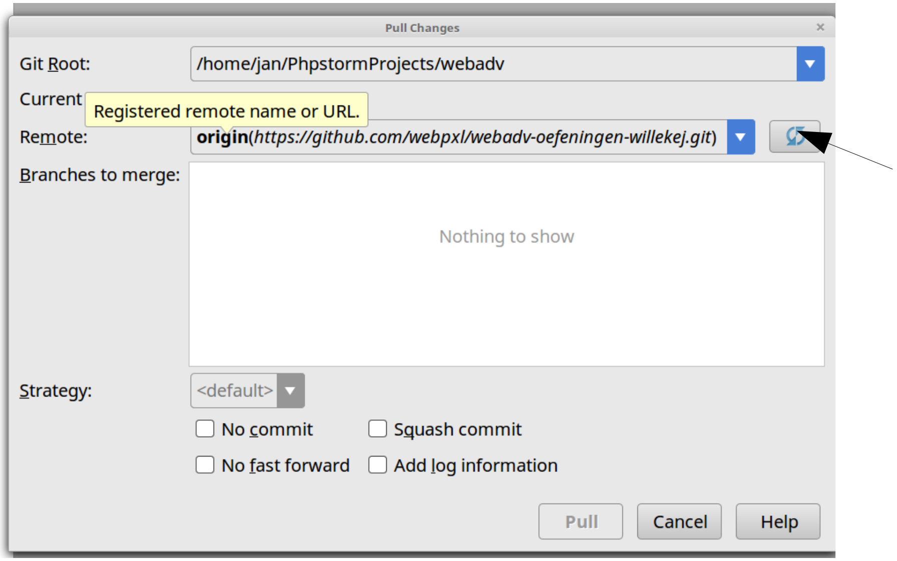


Name: origin

URL: n/webpxl/webadv-oefeningen-willekej.git

https://www.jetbrains.com/help/phpstorm/set-up-a-git-repository.html

PHPStorm



Pull Changes

Git Root: /home/jan/PhpstormProjects/webadv

Current

Registered remote name or URL.

Remote: **origin**(*https://github.com/webpxl/webadv-oefeningen-willekej.git*)

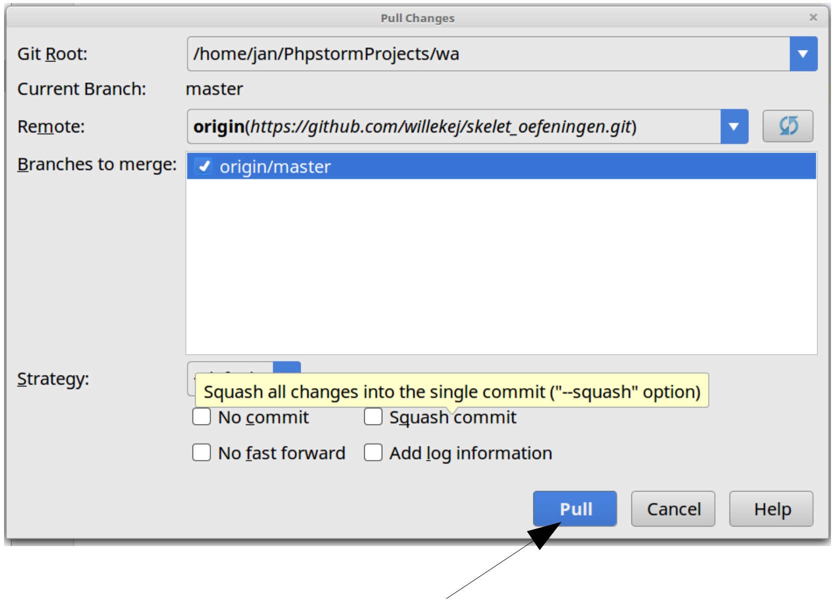
Branches to merge:

Nothing to show

Strategy: <default>

□ No commit □ Squash commit

□ No fast forward □ Add log information



Pull Changes

Git Root: /home/jan/PhpstormProjects/wa

Current Branch: master

Remote: **origin**(*https://github.com/willekej/skelet_oefeningen.git*)

Branches to merge: ☑ origin/master

Strategy:

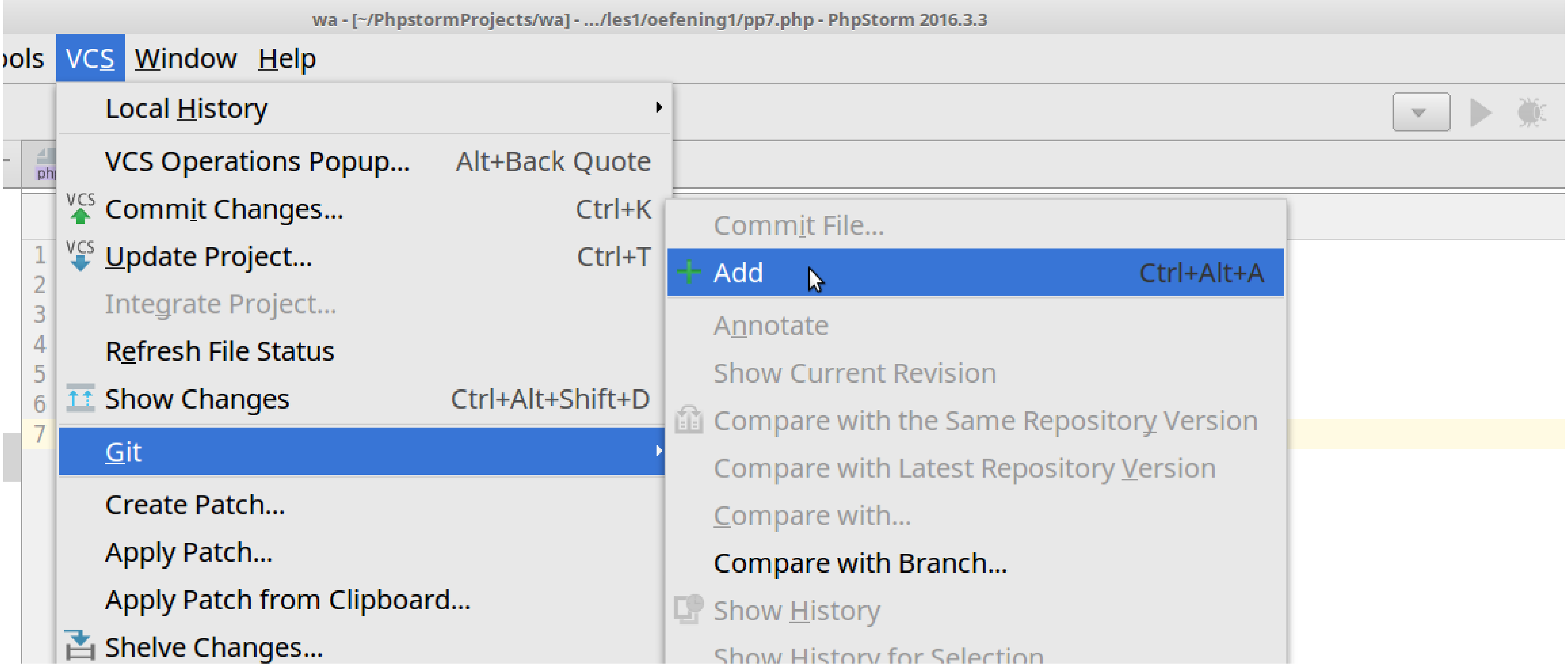
Squash all changes into the single commit ("--squash" option)

□ No commit □ Squash commit

□ No fast forward □ Add log information

https://www.jetbrains.com/help/phpstorm/set-up-a-git-repository.html

PHPStorm


wa - [~/PhpstormProjects/wa] - .../les1/oefening1/pp7.php - PhpStorm 2016.3.3
ols
VCS
Window
Help
Local History
VCS Operations Popup... Alt+Back Quote
Commit Changes... Ctrl+K
Update Project... Ctrl+T
Integrate Project...
Refresh File Status
Show Changes Ctrl+Alt+Shift+D
Git
Create Patch...
Apply Patch...
Apply Patch from Clipboard...
Shelve Changes...
Commit File...
Add Ctrl+Alt+A
Annotate
Show Current Revision
Compare with the Same Repository Version
Compare with Latest Repository Version
Compare with...
Compare with Branch...
Show History
Show History for Selection

https://www.jetbrains.com/help/phpstorm/set-up-a-git-repository.html