

Repository auschecken

origin repository

- analog zu svn checkout

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- `git clone <protocoll://url>`

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Repository auschecken

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- `ssh://`

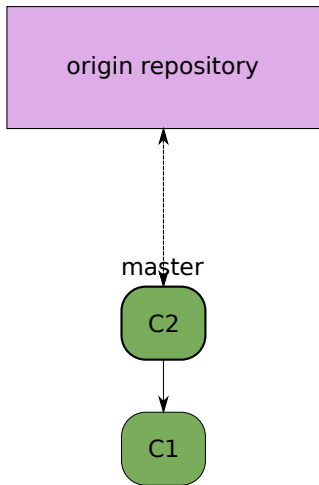
Repository auschecken

origin repository

- analog zu svn checkout
- `git clone <protocoll://url>`
- `http(s)://`
- `ssh://`
- `file://`

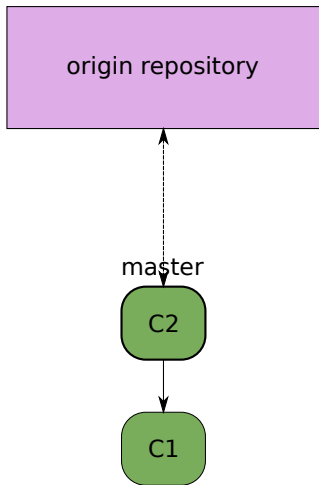
Repository auschecken (Beispiel)

- `git clone https://user@lifewatch/git/ddb-backend.git`

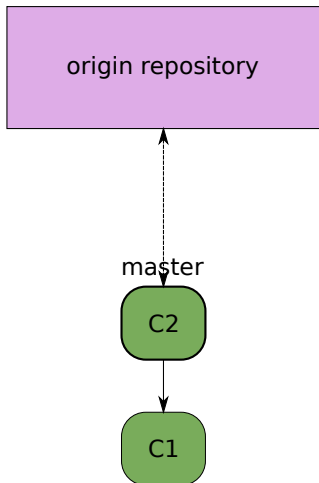


Repository auschecken (Beispiel)

- `git clone https://user@lifewatch/git/ddb-backend.git`
- `git remote show origin`



Repository auschecken (Beispiel)



- `git clone https://user@lifewatch/git/ddb-backend.git`
- `git remote show origin`

Fetch URL: `https://user@lifewatch/git/ddb-backend.git`
Push URL: `https://user@lifewatch/git/ddb-backend.git`
HEAD branch: `master`

Remote branches:

`develop` tracked
`master` tracked

Local branch configured for 'git pull':

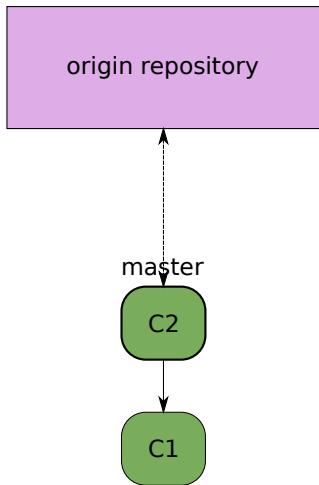
`master` merges with remote `master`

Local ref configured for 'git push':

`master` pushes to `master` (up to date)

Remote Branch auschecken

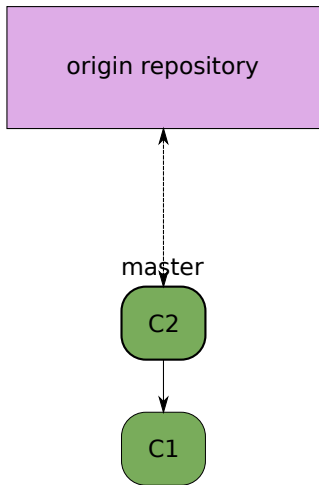
- `git branch -r`



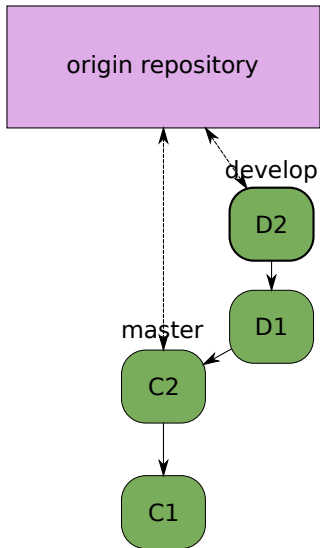
Remote Branch auschecken

- `git branch -r`

```
origin/HEAD -> origin/master  
origin/develop  
origin/master
```



Remote Branch auschecken

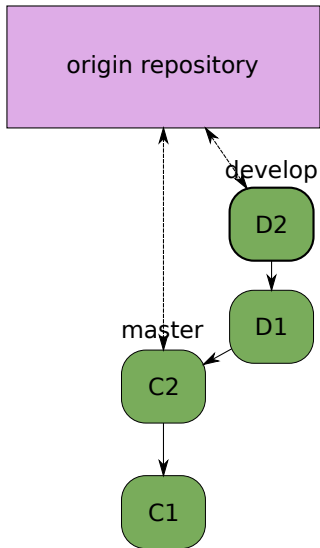


- `git branch -r`

```
origin/HEAD -> origin/master  
origin/develop  
origin/master
```

- `git checkout -b develop origin/develop`

Remote Branch auschecken

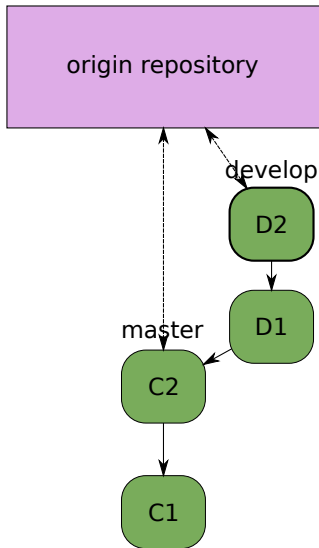


- `git branch -r`

```
origin/HEAD -> origin/master  
origin/develop  
origin/master
```

- `git checkout -b develop origin/develop`
- `git remote show origin`

Remote Branch auschecken



- `git branch -r`

```
origin/HEAD -> origin/master  
origin/develop  
origin/master
```

- `git checkout -b develop origin/develop`
- `git remote show origin`

```
Fetch URL: https://user@lifewatch/git/ddb-backend.git  
Push URL: https://user@lifewatch/git/ddb-backend.git  
HEAD branch: master
```

Remote branches:

```
develop tracked  
master tracked
```

Local branch configured for 'git pull':

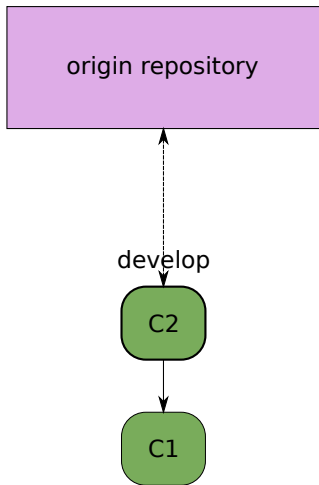
```
develop merges with remote develop  
master merges with remote master
```

Local ref configured for 'git push':

```
develop pushes to develop (up to date)  
master pushes to master (up to date)
```

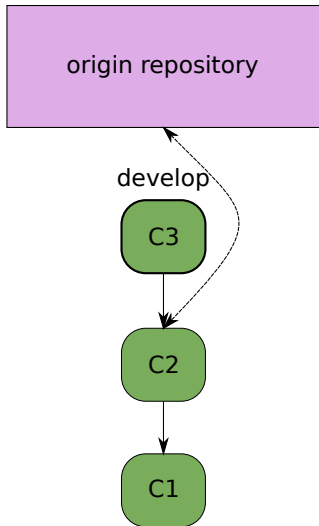
Arbeiten wie mit SVN

- change/add/remove files



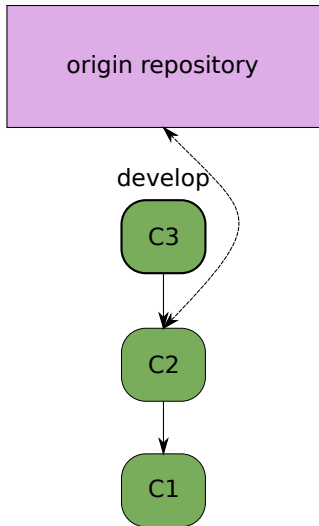
Arbeiten wie mit SVN

- change/add/remove files
- git add <files>
- git commit

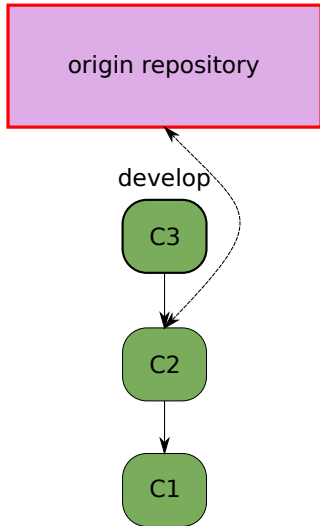


Arbeiten wie mit SVN

- change/add/remove files
- git add <files>
- git commit
- git push

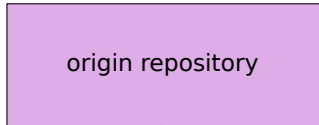


Arbeiten wie mit SVN



- change/add/remove files
- `git add <files>`
- `git commit`
- `git push`
- **Konflikt**

Arbeiten wie mit SVN

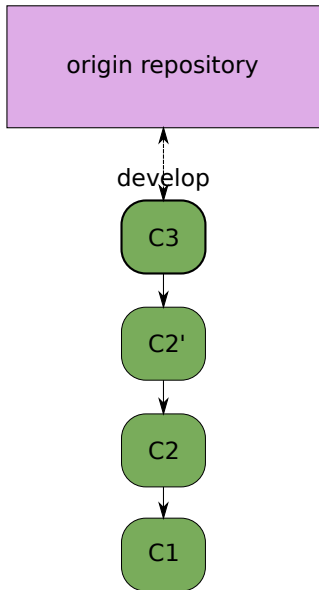


develop



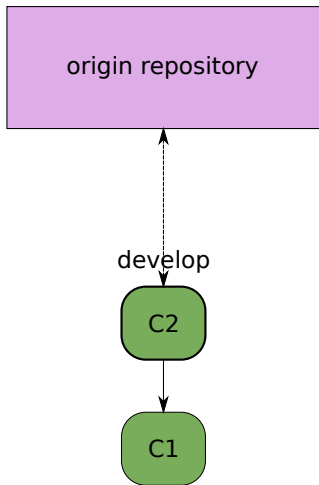
- change/add/remove files
- `git add <files>`
- `git commit`
- `git push`
- **Konflikt**
- `git pull`

Arbeiten wie mit SVN



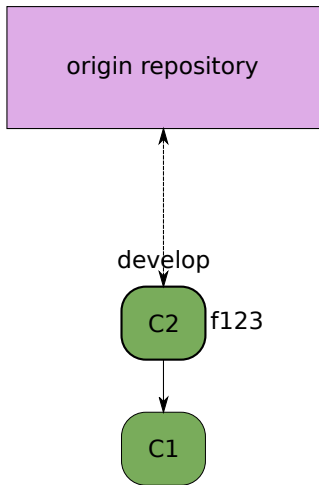
- change/add/remove files
- `git add <files>`
- `git commit`
- `git push`
- **Konflikt**
- `git pull`
- `git push`

Feature Branches



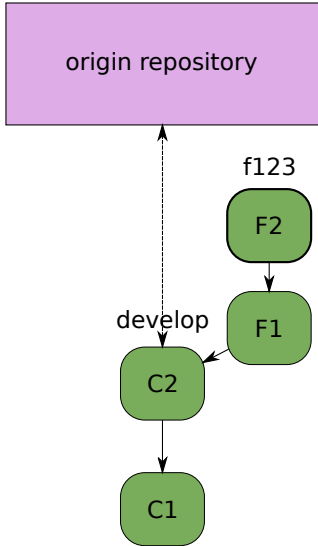
Neuen Branch anlegen

- `git checkout -b f123`



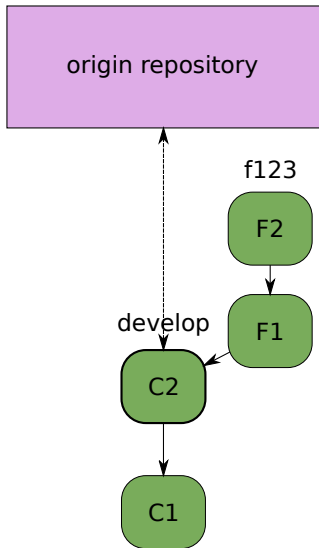
Arbeiten

- `git checkout -b f123`
- work
- `git add`
- `git commit`

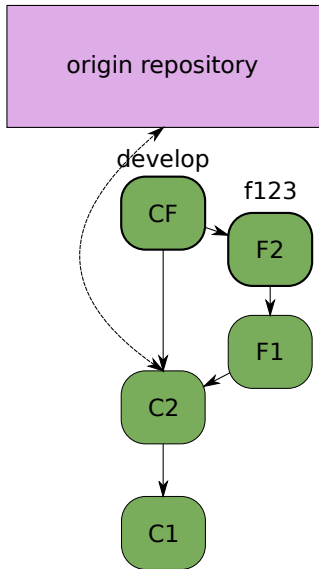


Merge f123 in develop

- `git checkout -b f123`
- `work`
- `git add`
- `git commit`
- `git checkout develop`

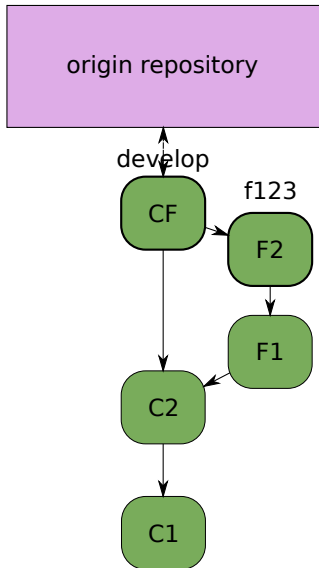


Merge f123 in develop



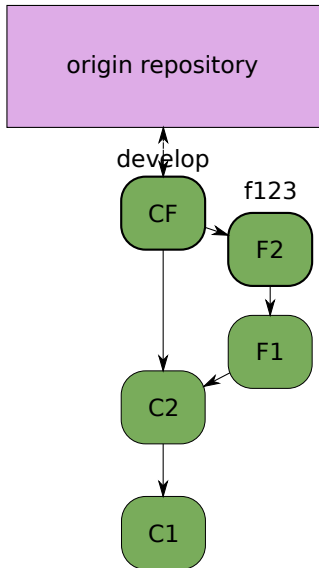
- `git checkout -b f123`
- `work`
- `git add`
- `git commit`
- `git checkout develop`
- `git merge f123`

Änderung in develop pushen



- `git checkout -b f123`
- work
- `git add`
- `git commit`
- `git checkout develop`
- `git merge f123`
- `git push`

f123 branch löschen

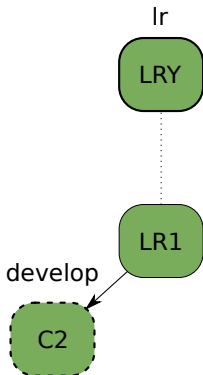


- `git checkout -b f123`
- work
- `git add`
- `git commit`
- `git checkout develop`
- `git merge f123`
- `git push`
- `(git branch -d f123)`

Long Running Branches

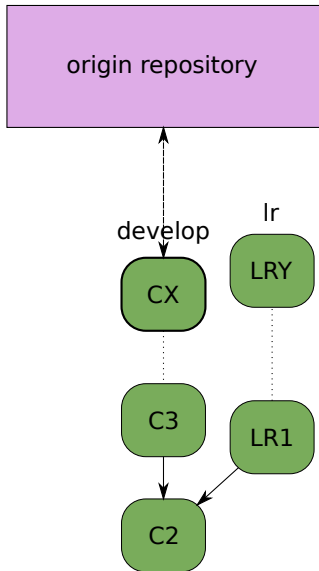
origin repository

- Änderungen in develop Branch die in den Long Running Branch übernommen werden sollen

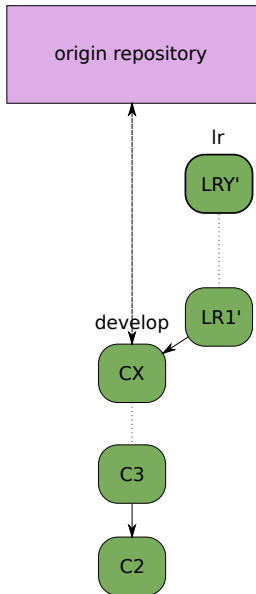


Neuste Änderung holen

- Änderungen in develop Branch die in den Long Running Branch übernommen werden sollen
- git checkout develop
- git pull

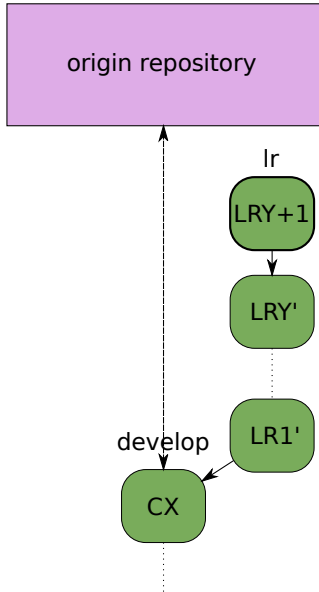


Ir Branch in der Historie verschieben



- Änderungen in develop Branch die in den Long Running Branch übernommen werden sollen
- `git checkout develop`
- `git pull`
- `git checkout Ir`
- `git rebase develop`

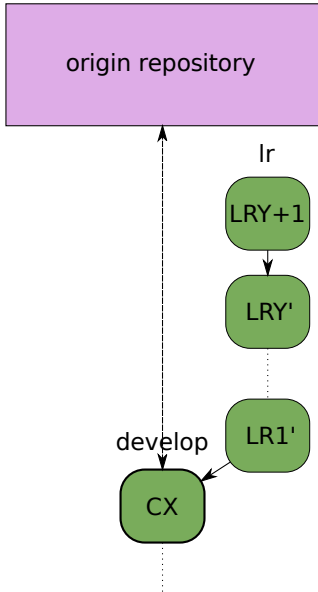
Weiterarbeiten



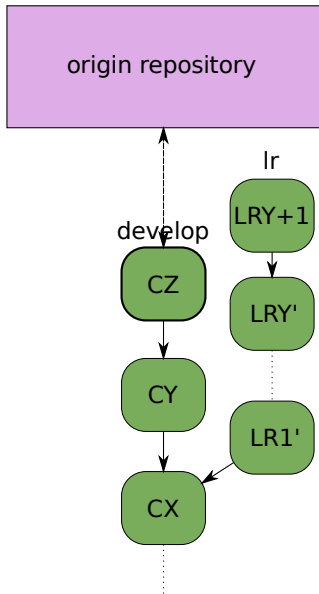
- Änderungen in develop Branch die in den Long Running Branch übernommen werden sollen
- `git checkout develop`
- `git pull`
- `git checkout lr`
- `git rebase develop`
- `work / commit`

Mergen

- Änderungen in develop Branch die in den Long Running Branch übernommen werden sollen
- `git checkout develop`
- `git pull`
- `git checkout lr`
- `git rebase develop`
- `work / commit`
- `git checkout develop`

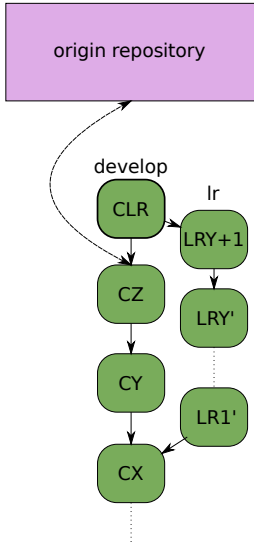


Mergen (neuste Änderungen holen)



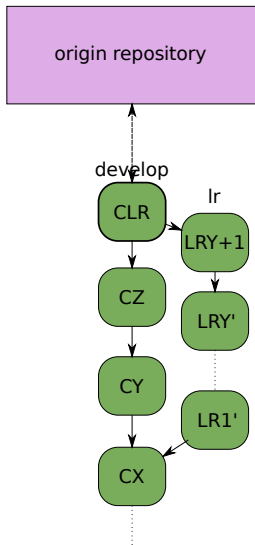
- Änderungen in develop Branch die in den Long Running Branch übernommen werden sollen
- `git checkout develop`
- `git pull`
- `git checkout lr`
- `git rebase develop`
- `work / commit`
- `git checkout develop`
- `git pull`

Mergen



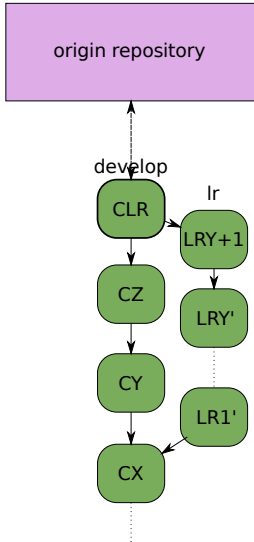
- Änderungen in develop Branch die in den Long Running Branch übernommen werden sollen
- git checkout develop
- git pull
- git checkout Lr
- git rebase develop
- work / commit
- git checkout develop
- git pull
- git merge Lr

Änderungen pushen



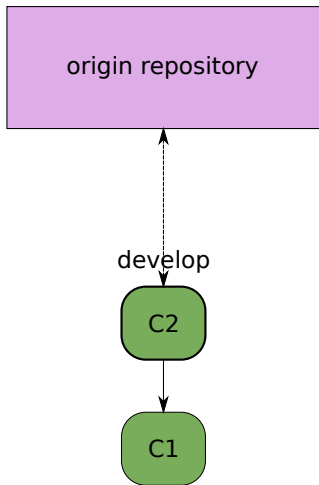
- Änderungen in develop Branch die in den Long Running Branch übernommen werden sollen
- git checkout develop
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- git checkout develop
- git pull
- git merge Lr
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Long Running Branches



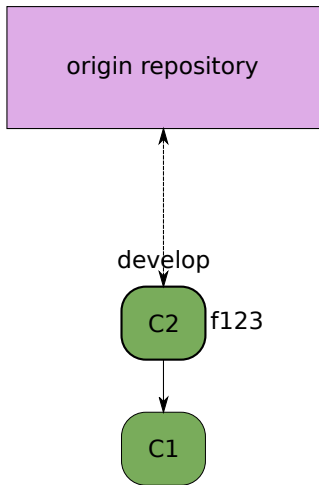
- Änderungen in develop Branch die in den Long Running Branch übernommen werden sollen
- `git checkout develop`
- `git pull`
- `git checkout Lr`
- `git rebase develop`
- `work / commit`
- `git checkout develop`
- `git pull`
- `git merge Lr`
- `git push`
- **Niemals einen Branch Rebasen der schon im Remote-Repository existiert.**

Feature Branches teilen



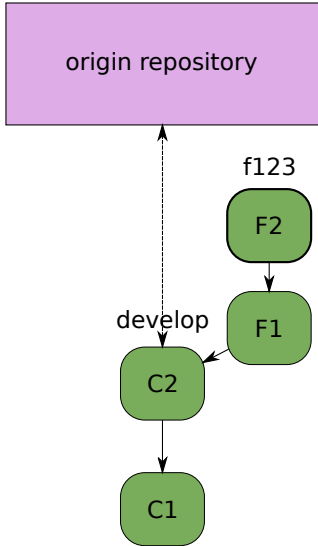
Neuen Branch anlegen

- `git checkout -b f123`



Arbeiten

- `git checkout -b f123`
- work
- `git add`
- `git commit`



Den neuen Branch teilen (pushen)

- `git checkout -b f123`
- work
- `git add`
- `git commit`
- `git push -u origin f123`

