# How To Use Git At Scylla Efficiently





• Implement features



- Implement features
- Make code reviews easier to perform



- Implement features
- Make code reviews easier to perform
- Keep changes understandable in the future



### Clone repository

```
# create a fork on GitHub first
$ git clone git@github.com:ewienik/zpp-git-user1.git
$ git status
$ git log --oneline
```



#### Switch branch

```
$ git switch feature
```

\$ git status



### Create branch

```
$ git switch -c change-docs
$ git status
```



#### Create commits

```
# edit files
$ git status
$ git diff
$ git add .
$ git add -p
$ tig
$ git commit
# repeat as needed
```



## Push changes

```
$ git log --oneline
$ git status
$ tig
# create a new branch
$ git push --set-upstream origin change-docs
# update existing branch
$ git push --force-with-lease
```

#### Rebase with master

```
# two developers working in parallel
$ git fetch origin
$ git fetch --all
$ git rebase origin/feature # not git merge
# resolve conflicts if any
```





divide commits logically



- divide commits logically
- write good commit messages

- divide commits logically
- write good commit messages
- commits should be as a story



## Rearrange, squash or fix commits

```
$ git log --oneline
$ tig
$ git rebase -i origin/feature --keep-base
# rearrange commits in editor
```



### Split commits

```
$ git rebase -i origin/feature --keep-base
# break or edit at some commit to split
$ git log -1
$ git reset --soft HEAD~1
# split staged/not staged changes
$ git commit -m "part 1"
$ git add .
$ git commit -m "part 2"
```



### Update commits

```
$ git rebase -i origin/feature --keep-base
# break or edit at some commit to update
$ git log -1
$ git status # nothing to commit, working tree clean
$ git commit --amend # update description
# add modification
$ git add .
$ git commit --amend # update description and content
$ git log -1
```



## Rebase with stacked branches

```
$ git rebase -i origin/feature --keep-base --update-refs
# move refs to the correct commits
```

https://www.codetinkerer.com/2023/10/01/stacked-branches-with-vanilla-git.html



#### Rework after review



#### Tools

```
https://git-scm.com/
```

https://jonas.github.io/tig/

https://jj-vcs.github.io/

