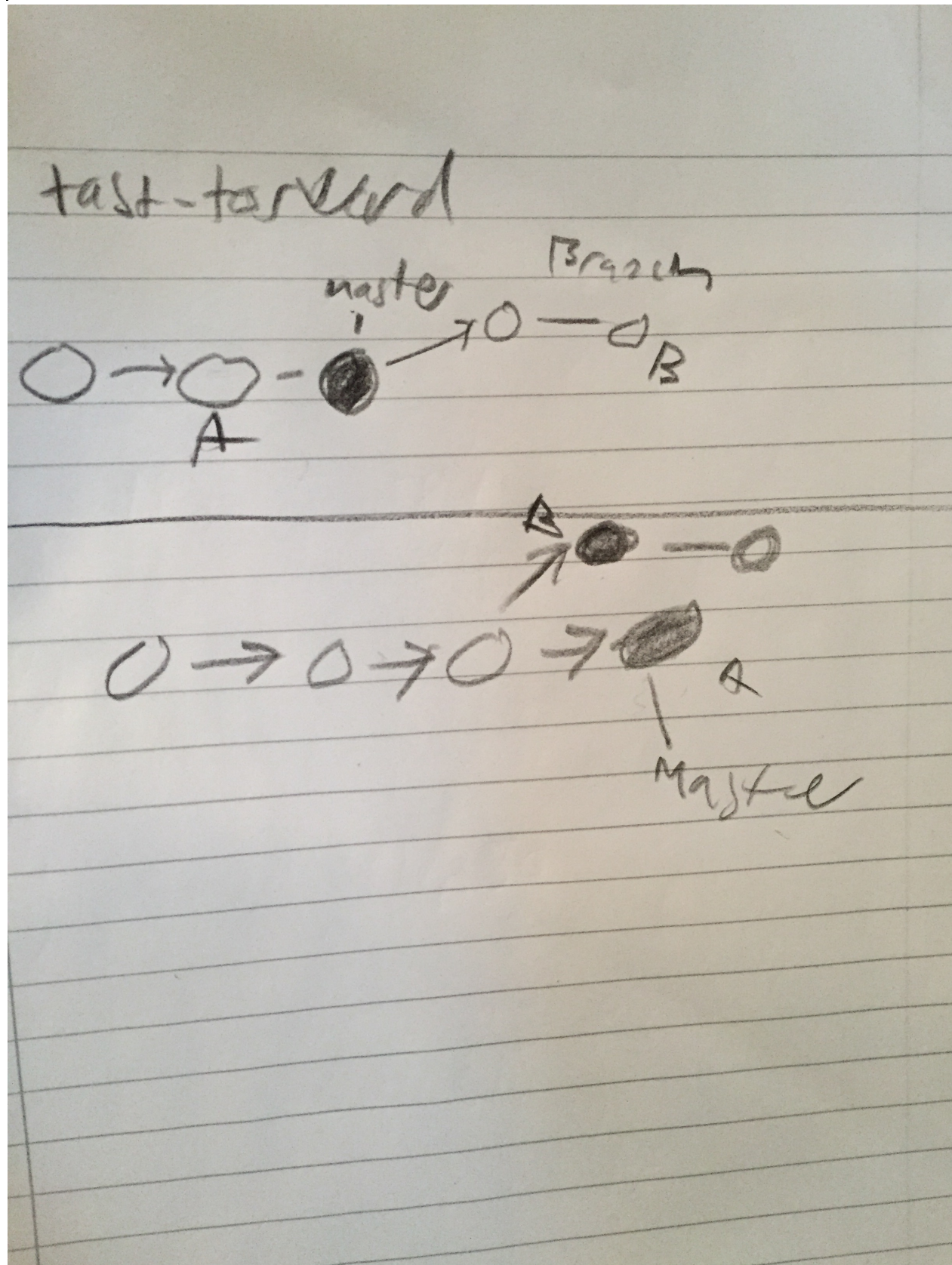


1. What is GIT fast forward?

A merge unifies the work done in two commits. Git Fast forward is something git does when we are merging a ancestor commit into a new commit. When fast-forwarding all the commits goes through to come to the commit we are merging are indifferent. There is no divergent work to merge together in these commits. [1]



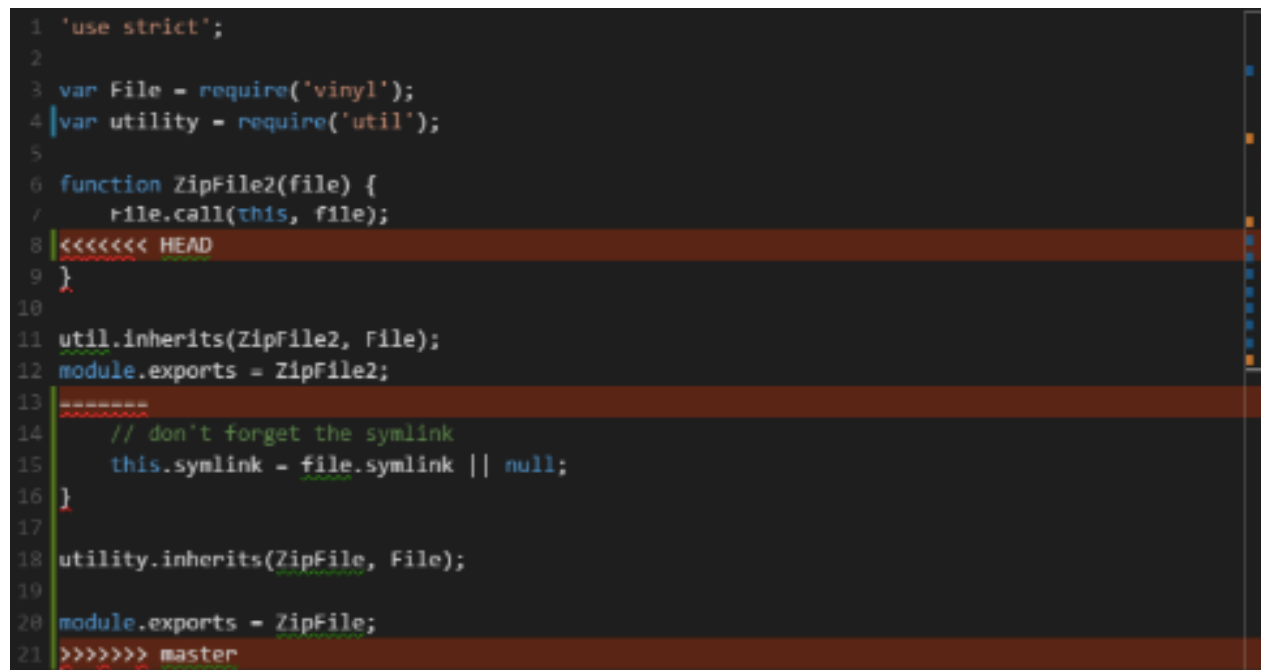
In the example we are merging B into A. B can go all the way to A. In the last example, A cant go to B. Which means git wont fast-forward. It will do a true merge, merging the two commits.

2. Describe the process of a merge conflict.

Merge conflicts happen when two developers try to edit, modify, or delete the the same file.

The process of resolving a merge conflict we have to make changes to the file, and remove the parts we don't want in conflicting lines. Talking to the developer that is causing the conflict with, is a good idea if we are working in teams.

[2]



[3] Example Picture from stackoverflow

When working with conflicts, we will see that git inserted lines where the conflicts happens. The equal signs ===== separate the two conflicts. The arrows tells the name of the branch you are on. So here we are trying to merge a Development branch into the master branch. And we can see that the branch we are pointing at has divergent code from the master branch, making a conflict.

3. How do you see which branch you are on?

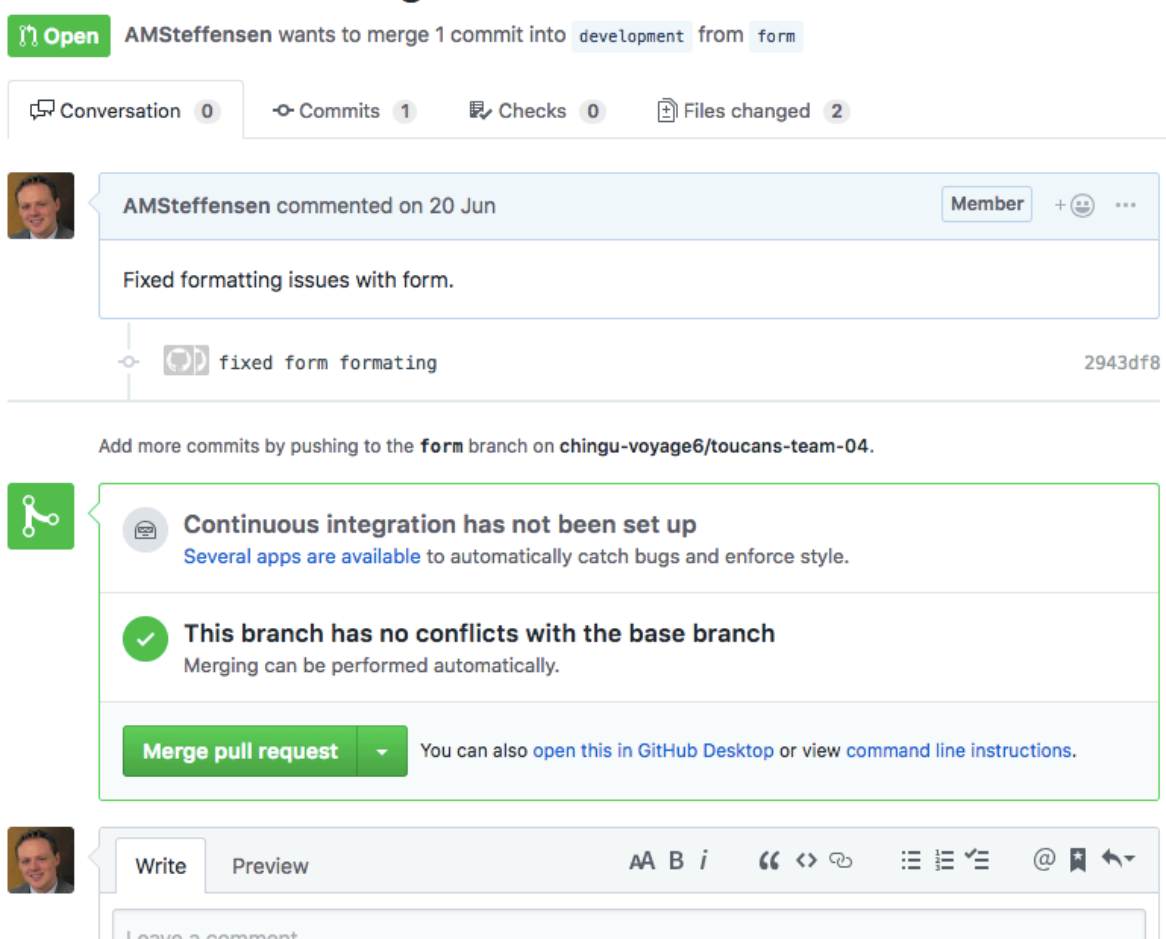
By typing the commands:

```
git status
OR
git branch
```

4. Briefly describe a pull-request.

The pull request let other users on Github know that you want to merge your branch into the master branch of a repository on Github.

fixed form formating #10



Pull requests are done within the github web-pages, and look like the above picture. Here we are making a pull request to the development branch, when we are ready we can discuss with other team-members if we want to merge the commit.

References

[1] <https://git-scm.com/book/en/v2/Git-Branching-Basic-Branching-and-Merging>

[2] <https://help.github.com/articles/resolving-a-merge-conflict-using-the-command-line/>

[3] <https://stackoverflow.com/questions/46494615/resolved-git-merge-conflict-in-vs-code-but-still-says-unresolved>