Lab: (Command Line) Rebasing

Estimated time: 10 minutes

Note: This lab assumes that you are using a command line. If you would prefer to use Sourcetree, there are separate instructions.

In this lab, you will:

- 1. Rebase a topic branch.
- 2. Rebase and resolve a merge conflict.

1: Rebase a topic branch.

- 1. Create a local repository named projectg.
- 2. Create an initial commit that adds an empty fileA.txt file. The commit message should be "add fileA.txt".
- 3. Create a feature1 branch.
- 4. Create a commit on the feature1 branch. Add the string "feature 1 wip" to fileA.txt. The commit message should be "add feature 1 wip".
- 5. Checkout the master branch. Create a commit that adds an empty fileB.txt file. The commit message should be "add fileB.txt".
- 6. View your commit graph and notice that it is no longer linear. Be sure to use the --all option with git log.
- 7. Rebase the commit on the feature1 branch to the tip of the master branch. Do this by first checking out the feature1 branch. Then execute git rebase master.
- 8. View the commit graph. It should now be linear. Verify that you can see fileB.txt in your working tree of feature1.
 - Congratulations, you have rebased a topic branch.

2: Rebase and resolve a merge conflict.

1. Checkout the master branch.

- 2. Create a commit on the master branch. Add the string "feature 2" to fileA.txt. The commit message should be "add feature 2".
- 3. Rebase the feature1 branch onto the tip of the master branch. This will involve resolving a merge conflict, because the master branch and the feature1 branch both modified the same part of fileA.txt in different ways.
 - Checkout the feature1 branch.
 - Execute git rebase master. Notice that there are merge conflicts.
 - Execut git status to view the status of the rebase.
 - Fix the content of fileA.txt so that "feature 1 wip" is before "feature 2".
 - Stage the fixed file.
 - Execute git rebase --continue.
- 4. View your commit graph. Verify that you again have a linear graph.
- 5. You will not use the projectg repository in future labs. You can delete it.

Congratulations, you have performed a rebase involving a merge conflict and have completed this lab.

Copyright © 2018 Atlassian