≡   ⬛(/learn)   ⚙   📋

Merging Step by Step
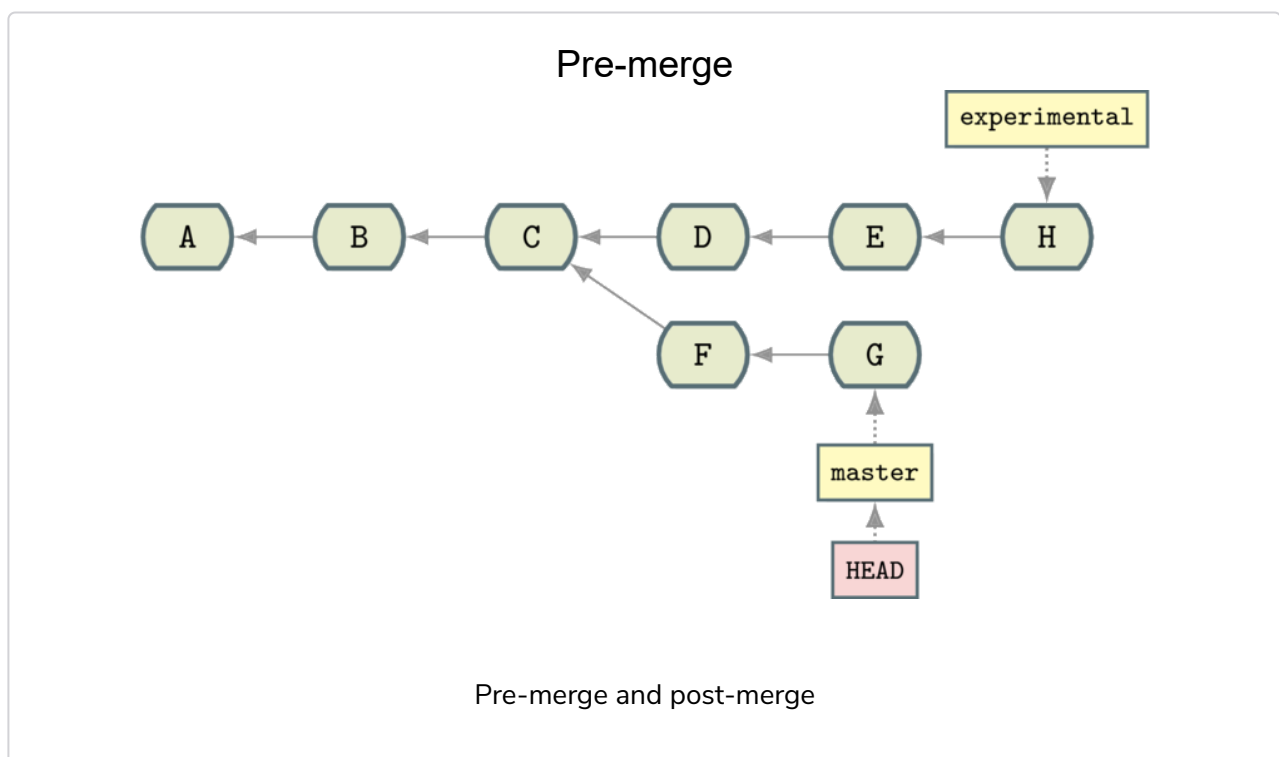
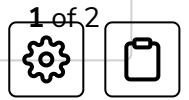Learn how to merge two branches in your git repository.

We'll cover the following   ⌃

- Step 1: Creating a repository, adding some files, and committing them
- Step 2: Creating a branch and checking it out
- Step 3: Checking out master, and making more changes
- Step 4: Attempting to merge the master and experiment branch

Step 1: Creating a repository, adding some files, and committing them

Take a look at the following slides and see how merging takes place:

Pre-merge and post-merge

You can run through the previous scenario step-by-step by following these commands:

```
 1   mkdir -p lgthw_merging
 2   cd lgthw_merging
 3   git init
 4   echo A > file1
 5   git add file1
 6   git commit -am 'A'
 7   echo B >> file1
 8   git commit -am 'B'
 9   echo C >> file1
10   git commit -am 'C'
```
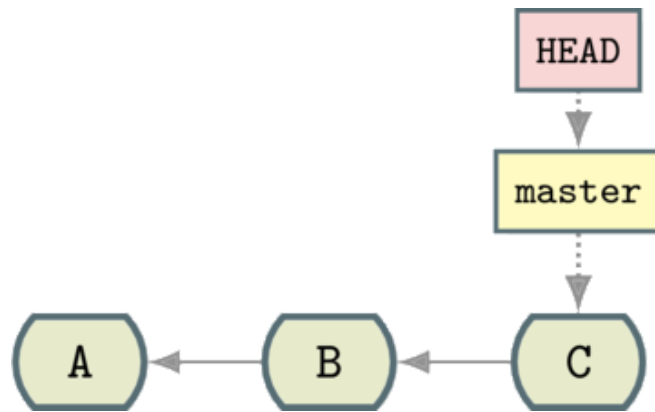
Terminal 1

Terminal

Click to Connect...

Now, you are at this point of the process:

Step-by-step merge, part one

Step 2: Creating a branch and checking it out

Branch to `experimental` and make your changes:

```
11  git branch experimental
12  git checkout experimental
13  git branch
14  echo E >> file1
15  git commit -am 'E'
16  echo H >> file1
17  git commit -am 'H'
```
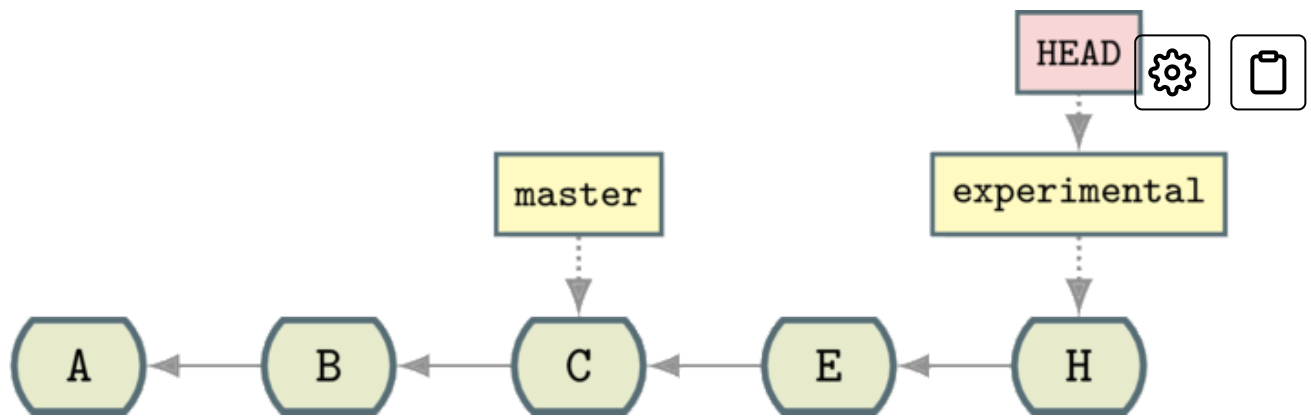
Terminal 1 ⟳

Terminal   ⌃

The repository is in this state:

Step-by-step merge, part two

Step 3: Checking out master, and making more changes

Return to `master`, and make changes `D`, `F` and `G`:

```
17  git checkout master
18  git branch
19  echo D >> file1
20  git commit -am 'D'
21  echo F >> file1
22  git commit -am 'F'
23  echo G >> file1
24  git commit -am 'G'
```
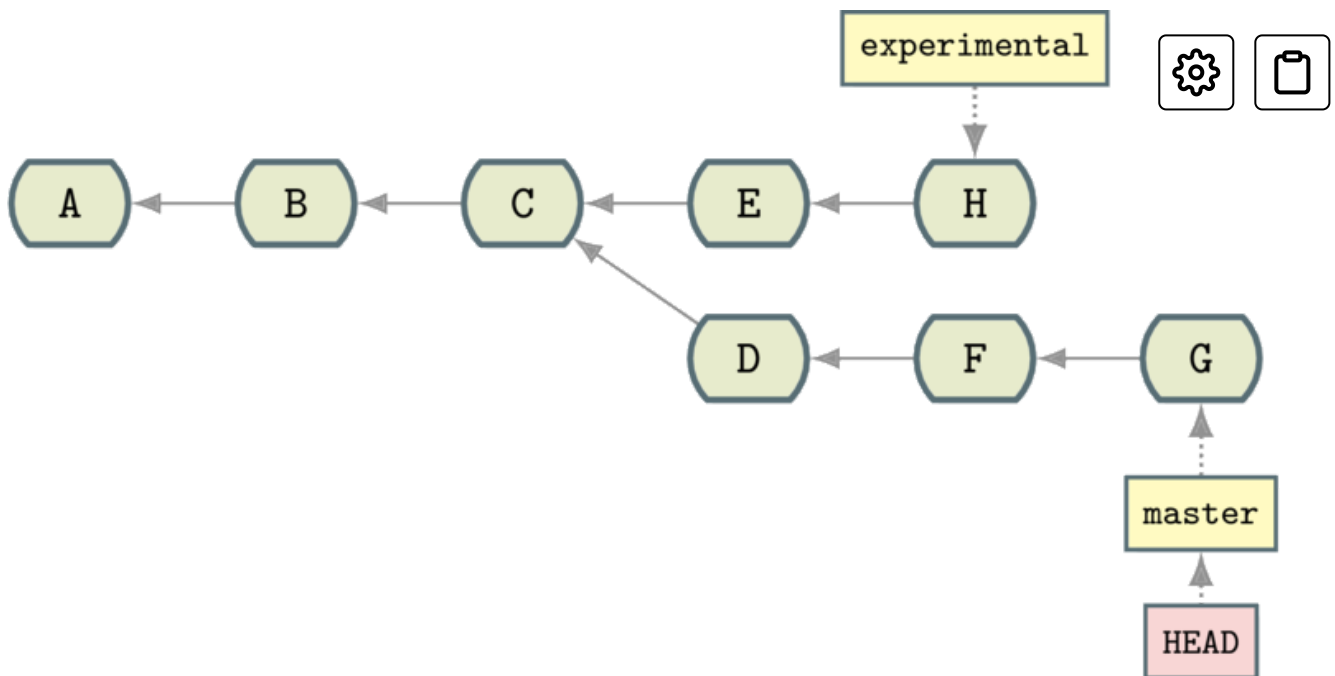
Terminal 1　⟳

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The repository is in this state:

Step-by-step merge, part three

Step 4: Attempting to merge the `master` and `experiment` branch

And you are ready to merge:

```
25  git merge experimental
```

Terminal 1 ⟳

Terminal   ⌃

Oh dear, that does not look good. The merge failed with a `CONFLICT` message.

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A Toy Merging Example   Handling Merge Conflicts

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