

## Git Tutorial

A teal banner with the Backlog logo (by nulab) and the Git logo. The text reads: "Backlog lets you manage projects with Git integration". On the right, there is a "Learn more" link with a right-pointing arrow icon. The background features a faint, stylized diagram of a network or code structure with circles and lines.

**backlog** by nulab + **git**

Backlog lets you manage projects with Git integration

Learn more →

## Merge conflicts

During some merge conflicts, the source code will not be able to be merged automatically. You'll need to manually fix the issue as follows.

### 1. Create the initial state

First, we need to reproduce the situation where the conflict occurs. We can make a conflict happen by using the equality operator (==) for one branch of sort.js and the strict equality operator (===) for the other.

Create a repository for testing as in the previous procedure, and push the following source code to the master branch.

```
// sort.js var number = [19, 3, 81, 1, 24, 21];  
console.log(number);
```

### 2. Create branch

Create two branches.

```
$ git checkout -b add-sort-func2 $ git checkout -b  
add-sort-func1
```

### 3. Edit and push source code with add-sort-func1 branch

Edit the source code on the "add-sort-func1" branch.

## Git Tutorial

```
console.log(number);
```

When the modification is completed, commit and push it.

```
$ git add sort.js $ git commit -m "<commit_message>"  
$ git push origin add-sort-func1
```

"A process of sorting an array has been added"

### 4. Make a pull request for the add-sort-func1 branch and merge

Make a pull request and merge.

The screenshot shows the 'Git / pull-request-test2' interface. The 'Pull requests' tab is selected. It shows a pull request from 'add-sort-func1' to 'master'. The title is 'add sort func1'. There is a green 'Add pull request' button. Below the title, it shows the user 'Katrina' who created it on Feb. 14, 2018 at 17:34. There are fields for 'Assignee' and 'Related Issue'. At the bottom right, there are 'Close' and 'Merge' buttons. The 'Merge' button is highlighted with a red box.

### 5. Edit and push source code with add-sort-func2 branch

Switch the branch to "add-sort-func2".

```
$ git checkout add-sort-func2
```

## Git Tutorial

```
0; } return a < b ? -1 : 1; }); }; var number = [19,
3, 81, 1, 24, 21]; sortNumber(number);
console.log(number);
```

When the modification is completed, commit and push it.

```
$ git add sort.js $ git commit -m "<commit_message>"
$ git push origin add-sort-func2
```

"A process of sorting an array has been added"

## 6. Create a pull request for add-sort-func2 branch

Git / pull-request-test2

Files Commits Branches Tags Pull requests Network

master ← add-sort-func2

add sort func2


Add pull request

## 7. A conflict occurs.

Files Commits Branches Tags Pull requests 1 Network

#2 Open master ← add-sort-func2

add sort func2 Edit

 **Katrina**  
Created Feb. 14, 2018 17:37 ★ 0

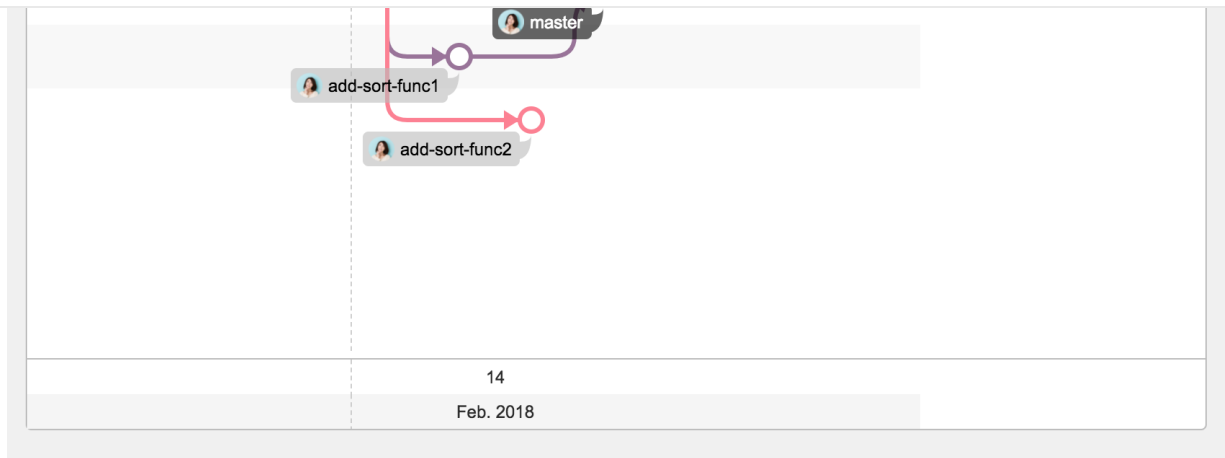
Assignee

Related Issue

! Merge conflict

Close Merge

## Git Tutorial



## Resolving conflicts

When a conflict occurs, you can merge branches manually. Let's merge the branch that you're working on and which is the target branch for the pull request to be pulled (in this case, master branch).

### 1. Pull master branch

```
$ git pull origin master
```

### 2. Resolve the conflict locally

```
// sort.js
var sortNumber = function (number) {
  number.sort(function (a, b) { <<<<<< HEAD if (a ===
  b) { ===== if (a == b) { >>>>>>
  839396c5383737ec06b9c2a842bfccc28f3996ef return 0; }
  return a < b ? -1 : 1; }); }; var number = [19, 3,
  81, 1, 24, 21]; sortNumber(number);
  console.log(number);
```

Above ===== is the local repository, and below is the remote repository. This time, keep the code of the local repository and delete the remote repository because the former will make a better code.

## Git Tutorial

```
console.log(number);
```

### 3. Commit and push the modified source code again

```
$ git add sort.js $ git commit -m "<commit_message>"  
$ git push origin add-sort-func2 "Conflict resolved"
```

### 4. The conflict has been resolved.

There is no longer a conflict and you can now merge.

The screenshot shows a pull request interface in Backlog. At the top, it indicates the pull request is #2, 'Open', and shows the source branch 'add-sort-func2' being merged into the 'master' branch. The title of the pull request is 'add sort func2'. Below the title, the author is 'Katrina', with a profile picture and the text 'Created Feb. 14, 2018 17:37'. There is a star icon with '0' next to it. Below the author information, there are two input fields labeled 'Assignee' and 'Related Issue'. At the bottom right, there are two buttons: 'Close' and 'Merge'. The 'Merge' button is highlighted with a red border.

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