

# the Master Course

{C0DENATION}

# Git Branches and Merging

{CODENATION}

# Git Branches and Merging

- Show all branches: `git branch`

```
● CN0014:for screen shots codenation$ git branch  
* main
```

- Create and move to ("switch to") a new branch: `git switch -c <branchName>` git

```
● CN0014:for screen shots codenation$ git switch -c example_branch  
Switched to a new branch 'example_branch'
```

# Git Branches and Merging

- Show all branches: `git branch`

```
● CN0014:for screen shots codenation$ git branch
* example_branch
  main
```

# Git Branches and Merging

- Once changes have been made, add the changes:  
`git add .`
- Commit changes to be pushed:  
`git commit -m "<commitMessage>"`

```
● CN0014:for screen shots codenation$ git add .  
● CN0014:for screen shots codenation$ git commit -m "add comment"  
[example_branch 46f40d6] add comment  
1 file changed, 1 insertion(+)
```

# Git Branches and Merging

- Push to branch: `git push origin <branchName>`

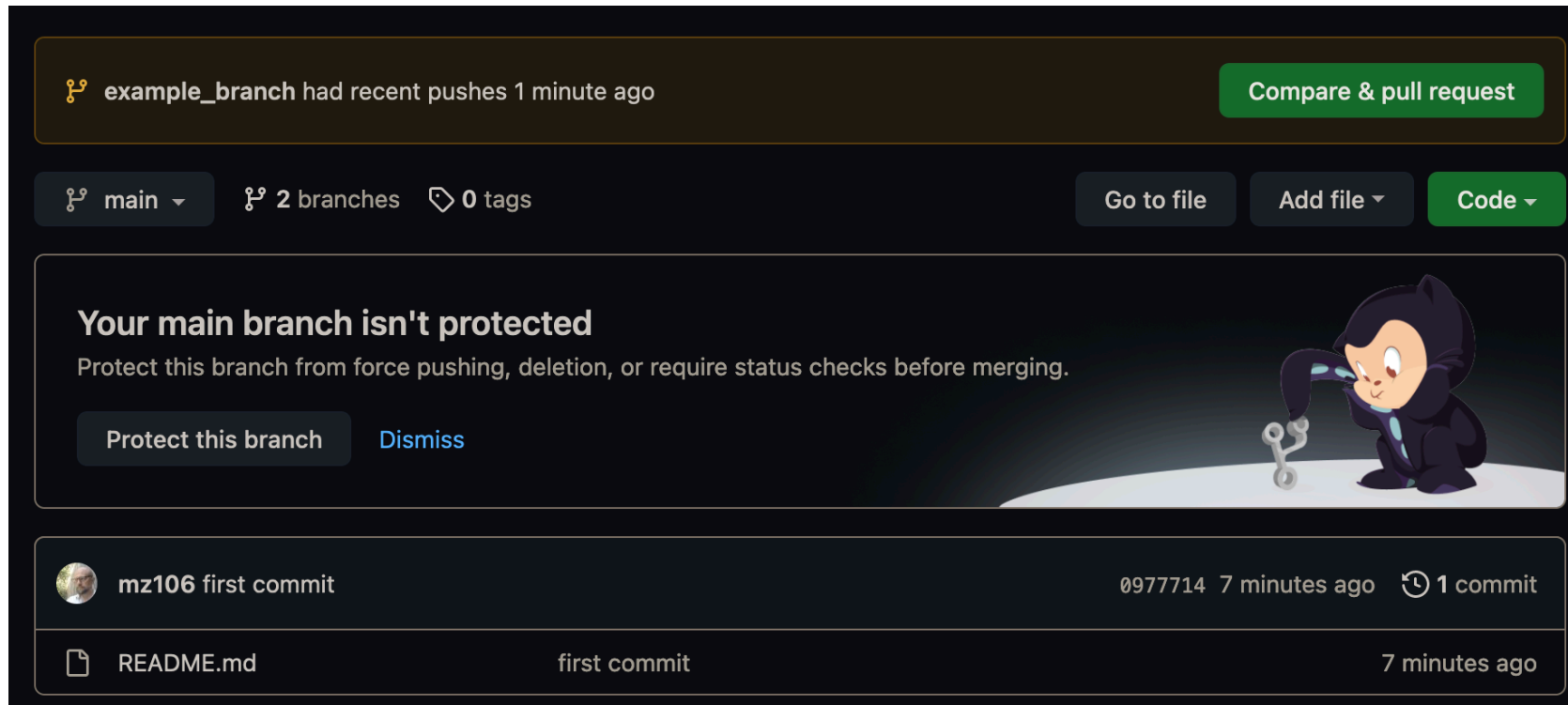
```
● CN0014:for screen shots codenation$ git push origin example_branch
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 334 bytes | 334.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'example_branch' on GitHub by visiting:
remote:   https://github.com/mz106/for-sceen-shots/pull/new/example_branch
remote:
To github.com:mz106/for-sceen-shots.git
 * [new branch]      example_branch -> example_branch
```

# Git Branches and Merging

Now, to GitHub...

# Git Branches and Merging

- Go to the repo and click on the green button marked "Compare and pull request"







# Git Branches and Merging

- Note which branch is merging into which; here it is example\_branch into main
- Click the green button marked "Create pull request"

### Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).






























 base: main < compare: example\_branch ✓ **Able to merge.** These branches can be automatically merged.




added function sayHello index.js

Write


Preview

H B I                             

Leave a comment

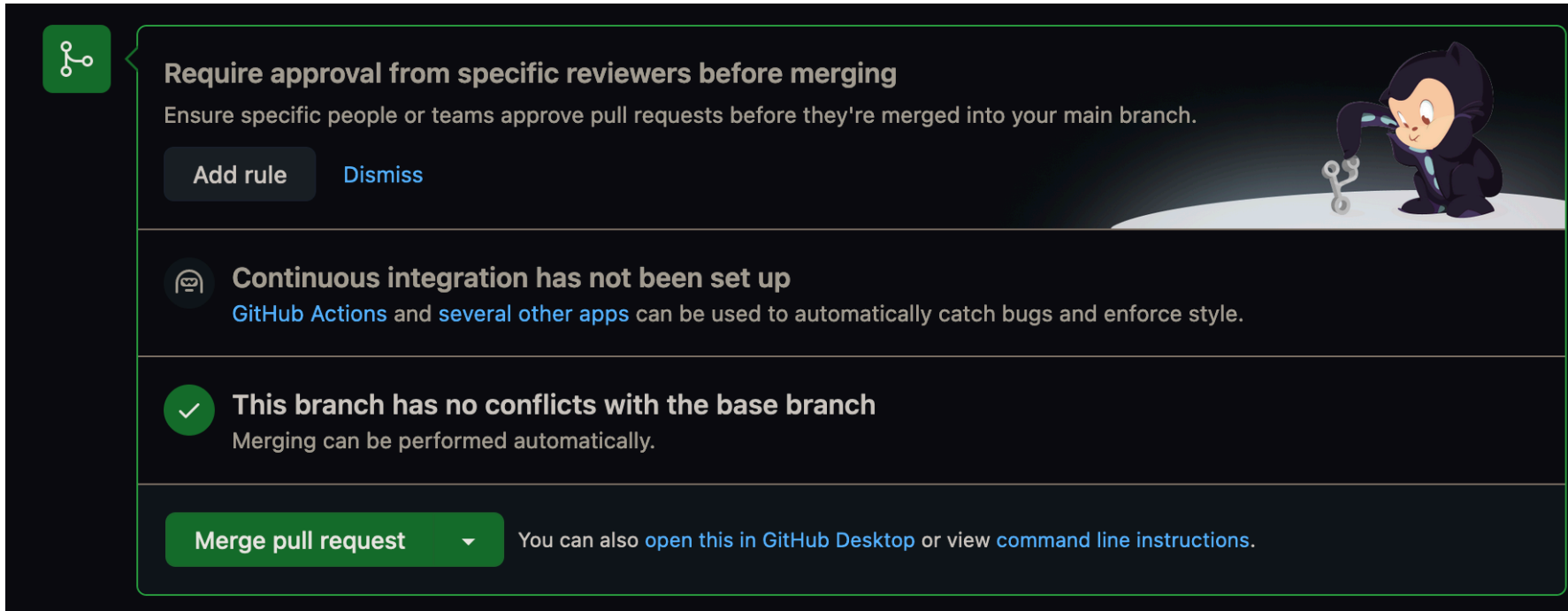
Attach files by dragging & dropping, selecting or pasting them. 

Create pull request

 Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

# Git Branches and Merging

- The code has been checked and there are no merge conflicts
- Click the green button marked "Merge pull request"



The screenshot shows a GitHub pull request interface with a dark theme. On the left, there is a green icon of a branching diagram. The main content area has a dark background with green borders. It contains three sections: 1. A section titled "Require approval from specific reviewers before merging" with a subtext "Ensure specific people or teams approve pull requests before they're merged into your main branch." and two buttons: "Add rule" and "Dismiss". 2. A section titled "Continuous integration has not been set up" with a subtext "GitHub Actions and several other apps can be used to automatically catch bugs and enforce style." 3. A section titled "This branch has no conflicts with the base branch" with a subtext "Merging can be performed automatically." and a green checkmark icon. At the bottom, there is a green button labeled "Merge pull request" with a dropdown arrow, and a link "You can also open this in GitHub Desktop or view command line instructions."

**Require approval from specific reviewers before merging**  
Ensure specific people or teams approve pull requests before they're merged into your main branch.  
[Add rule](#) [Dismiss](#)

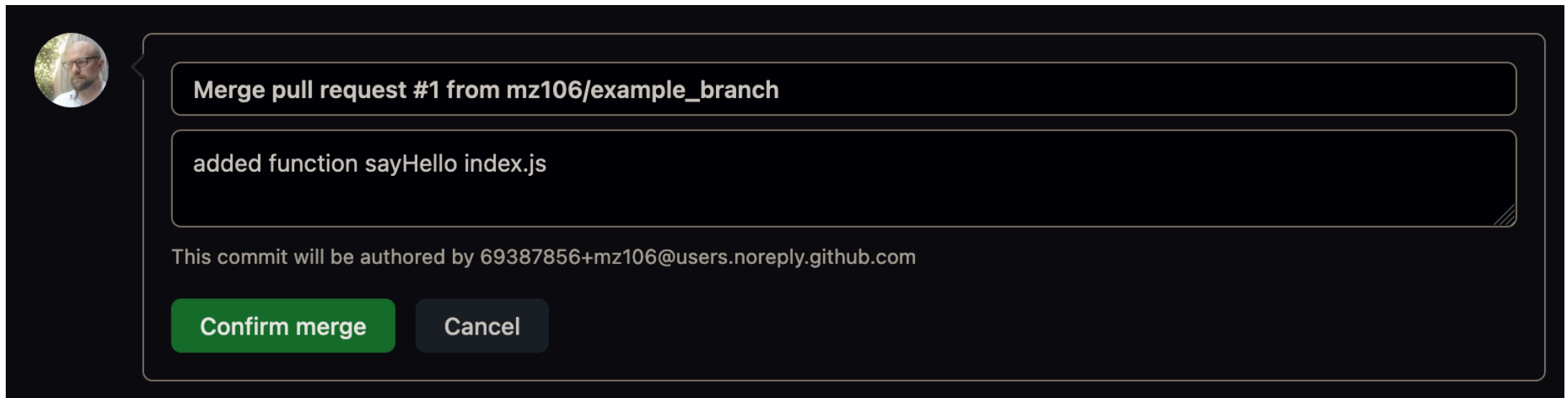
**Continuous integration has not been set up**  
[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.

**This branch has no conflicts with the base branch**  
Merging can be performed automatically.

[Merge pull request](#) You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

# Git Branches and Merging

- Confirm the merge by clicking the button marked "Confirm merge"



# Git Branches and Merging

- Delete the branch on GitHub by clicking “Delete branch”



**Pull request successfully merged and closed**

You're all set—the `example_branch` branch can be safely deleted.

Delete branch

# Git Branches and Merging

- Back in the terminal, move back to main:  
git checkout main

```
● CN0014:for screen shots codenation$ git switch main  
Switched to branch 'main'  
Your branch is up to date with 'origin/main'.
```

- Show all current branches: git branch

```
● CN0014:for screen shots codenation$ git branch  
example_branch  
* main
```

# Git Branches and Merging

- Sync the main branch with the main branch on GitHub: `git pull`

```
● CN0014:for screen shots codenation$ git pull
```

- Delete the branch that is no longer needed:  
`git branch -d <branchName>`

```
● CN0014:for screen shots codenation$ git branch -d example_branch
```

# Git Branches and Merging

- Show all current branches: `git branch`

```
● CN0014:for screen shots codenation$ git branch  
* main
```

**Remember!!!**

**Before creating a new branch  
ALWAYS pull from main first!!!**