Git

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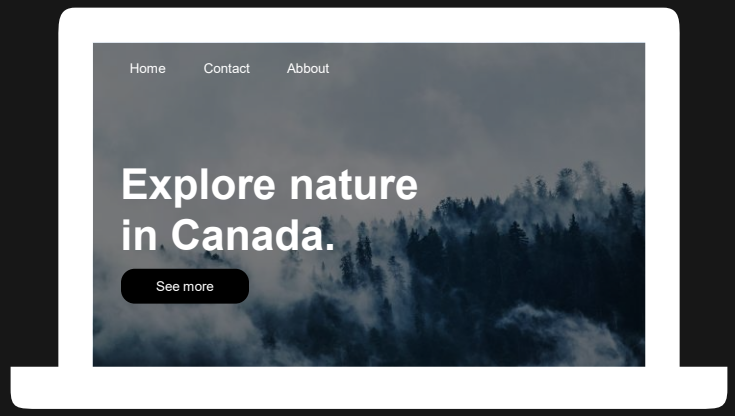

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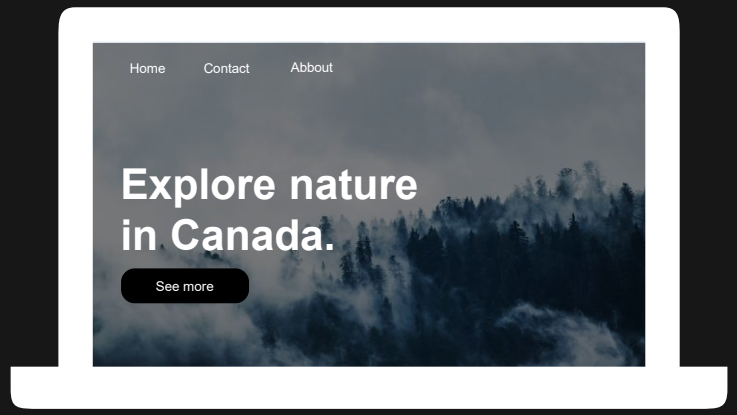

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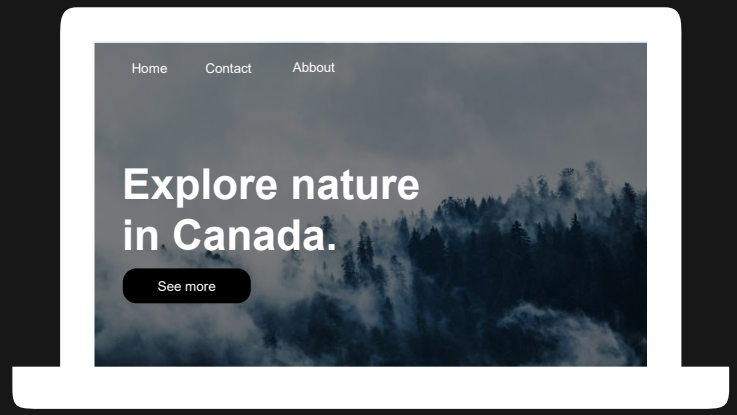

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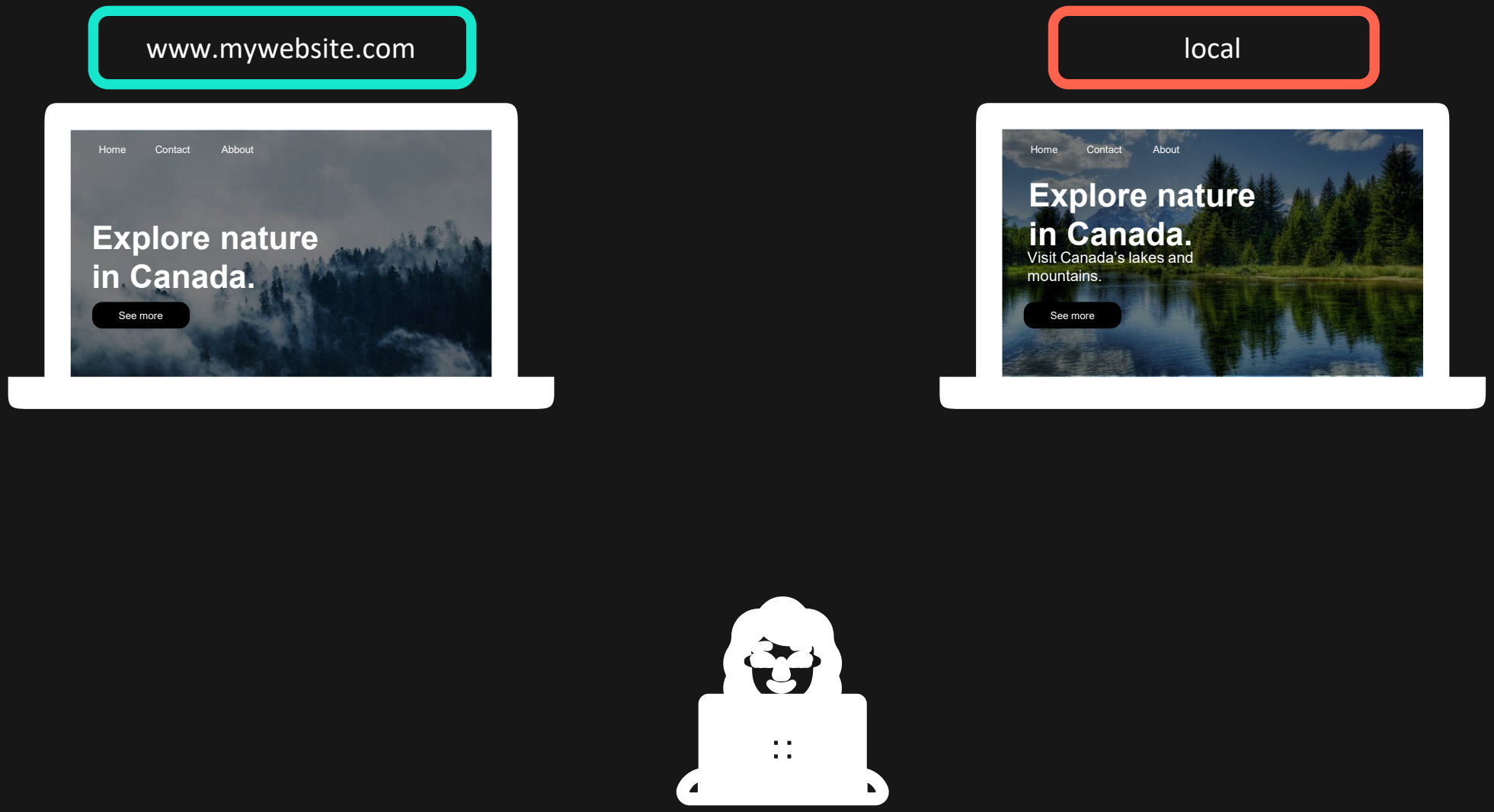

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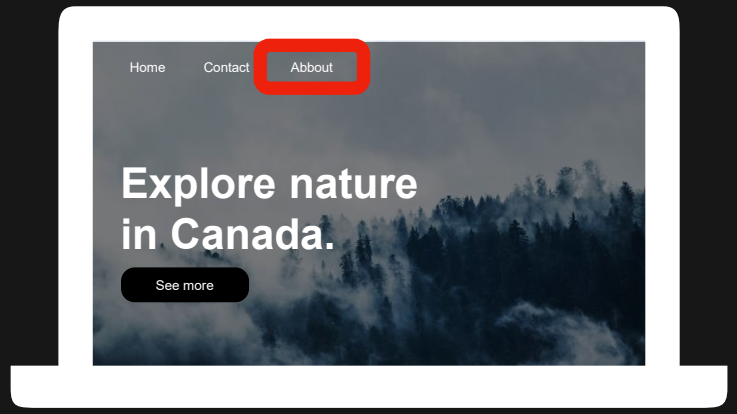

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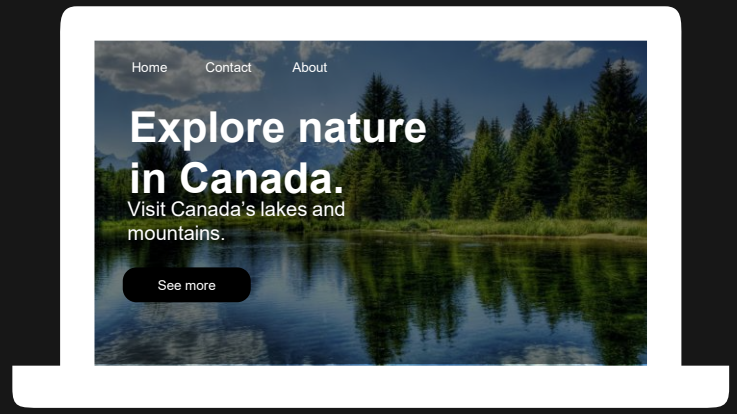

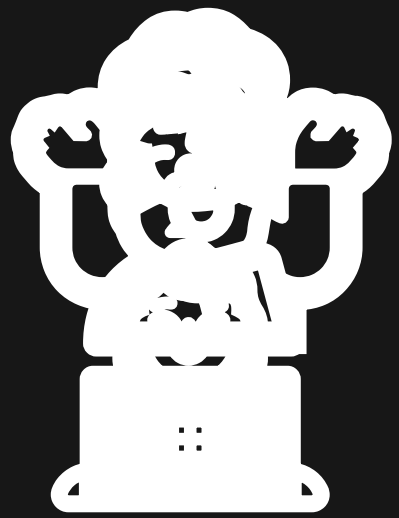

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Content tracker

Distributed Version Control System

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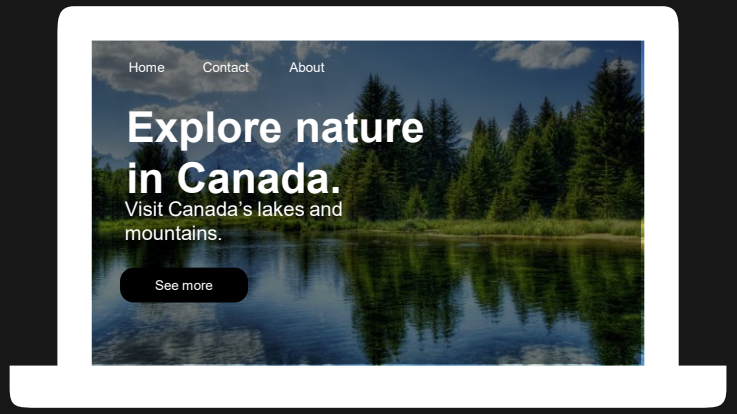

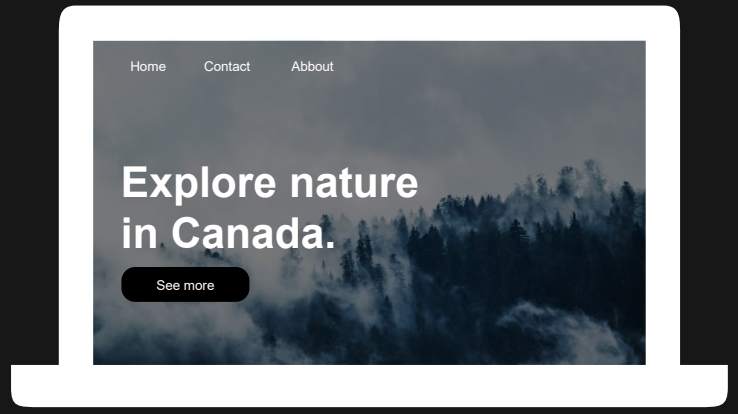

New state of your website with the local changes

Hosted state of your website

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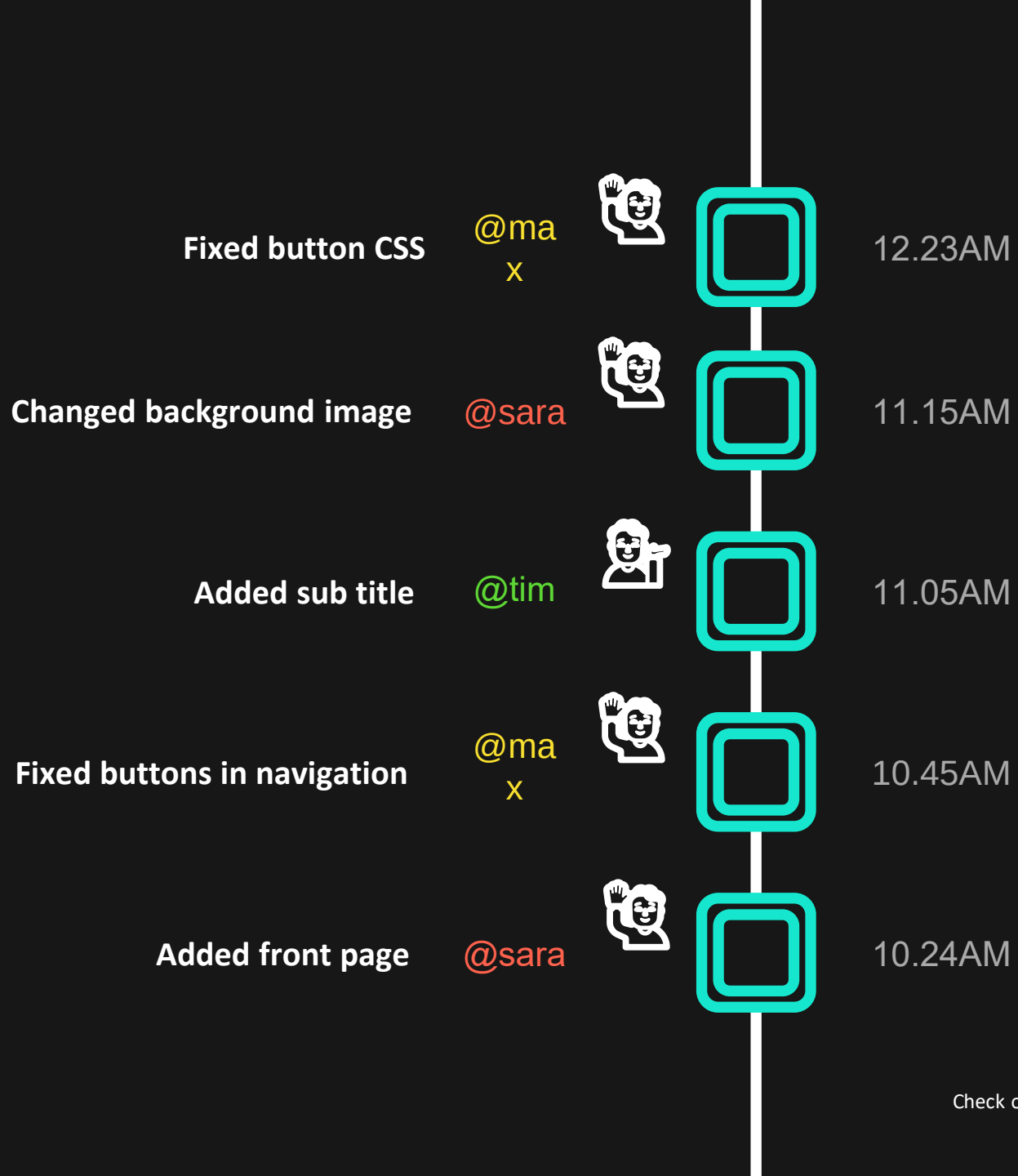

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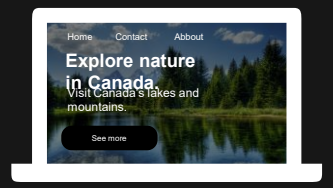

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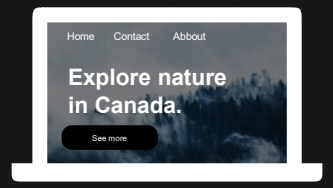

Added front page

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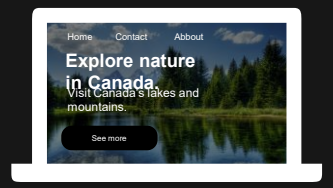

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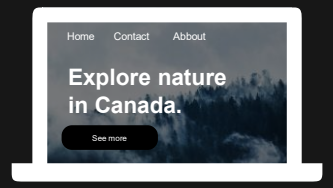

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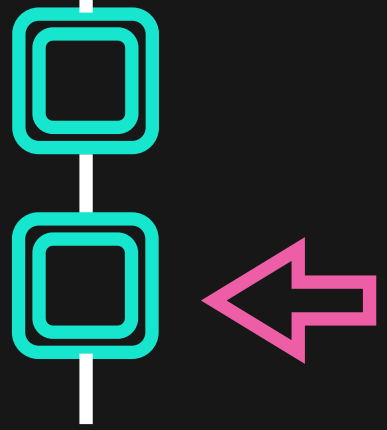

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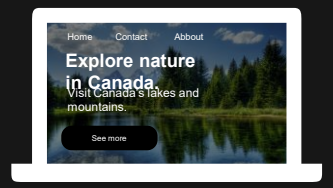

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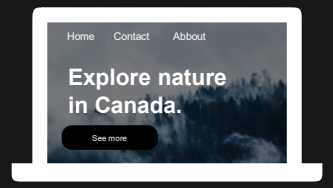

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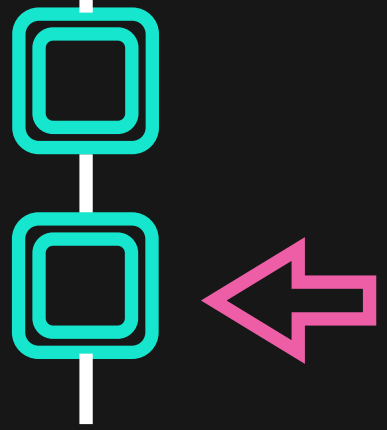

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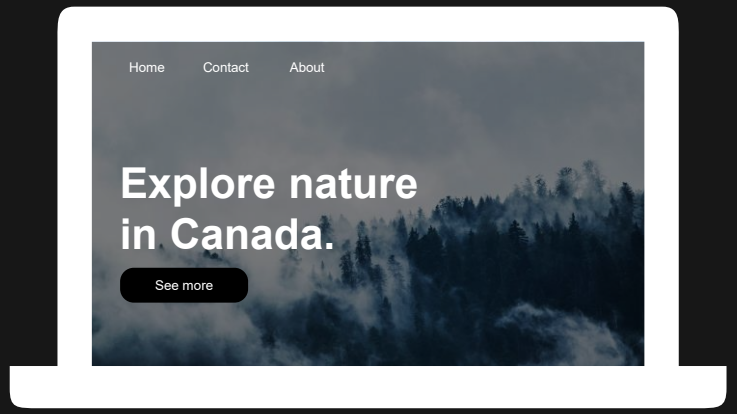

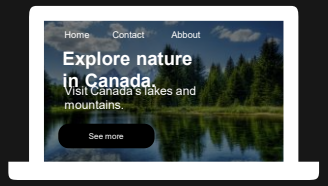

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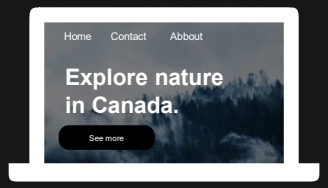

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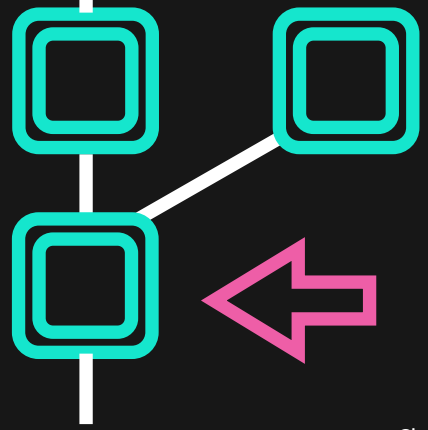

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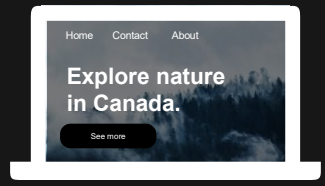

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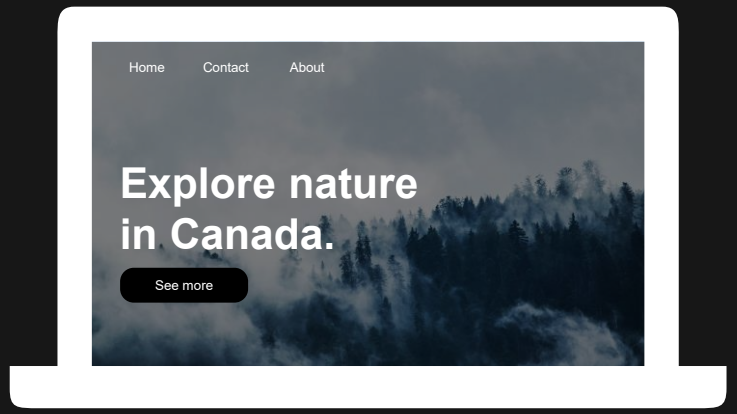

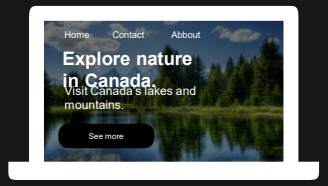

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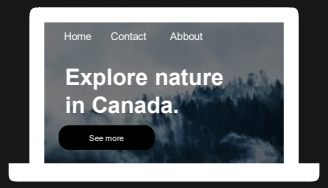

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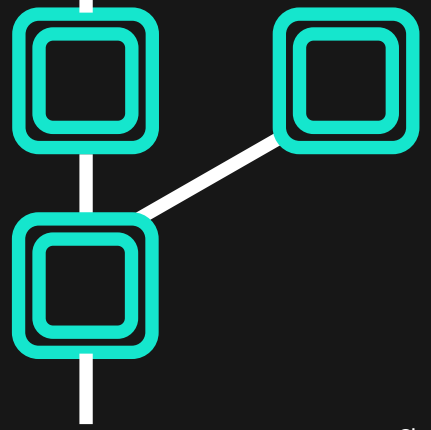

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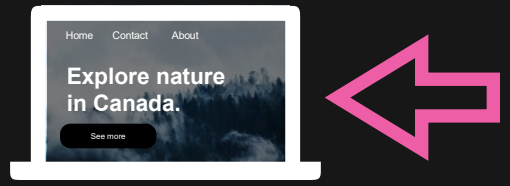

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Remote Repository

Local Repository

```
<html>
  <body>
    <h1>My Website!</h1>
  </body>
</html>
```

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Local Repository

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Local Repository

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  </body>
</html>
```

Local Repository

```
<html>
  <body>
    <h1>My Website!</h1>
  </body>
</html>
```

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Local Repository

```
<html>
  <body>
    <h1>My Website!</h1>
    <p>This is some more text!</p>
  </body>
</html>
```

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Remote Repository

```
<html>
  <body>
    <h1>My Website!</h1>
  </body>
</html>
```

Local Repository

```
<html>
  <body>
    <h1>My Website!</h1>
  </body>
</html>
```

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Local Repository

```
<html>
  <body>
    <h1>My Website!</h1>
    <p>This is some more text!</p>
  </body>
</html>
```

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Remote Repository

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Local Repository

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Local Repository

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</html>
```

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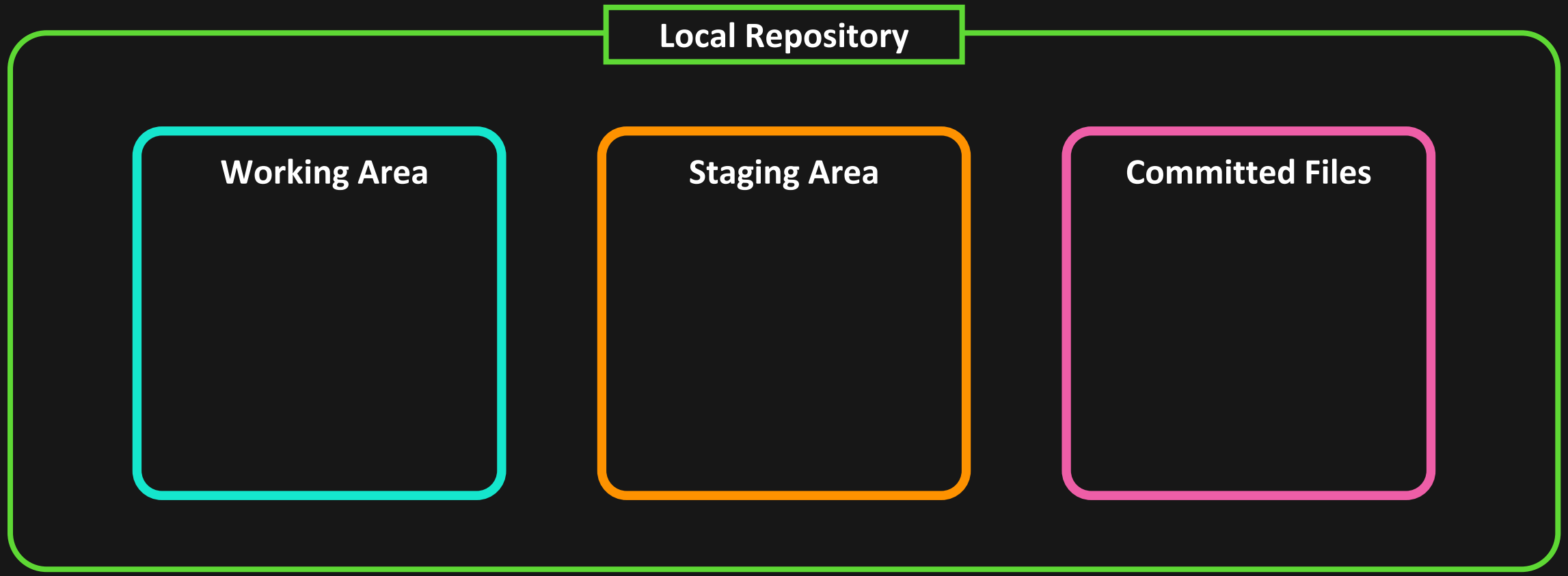

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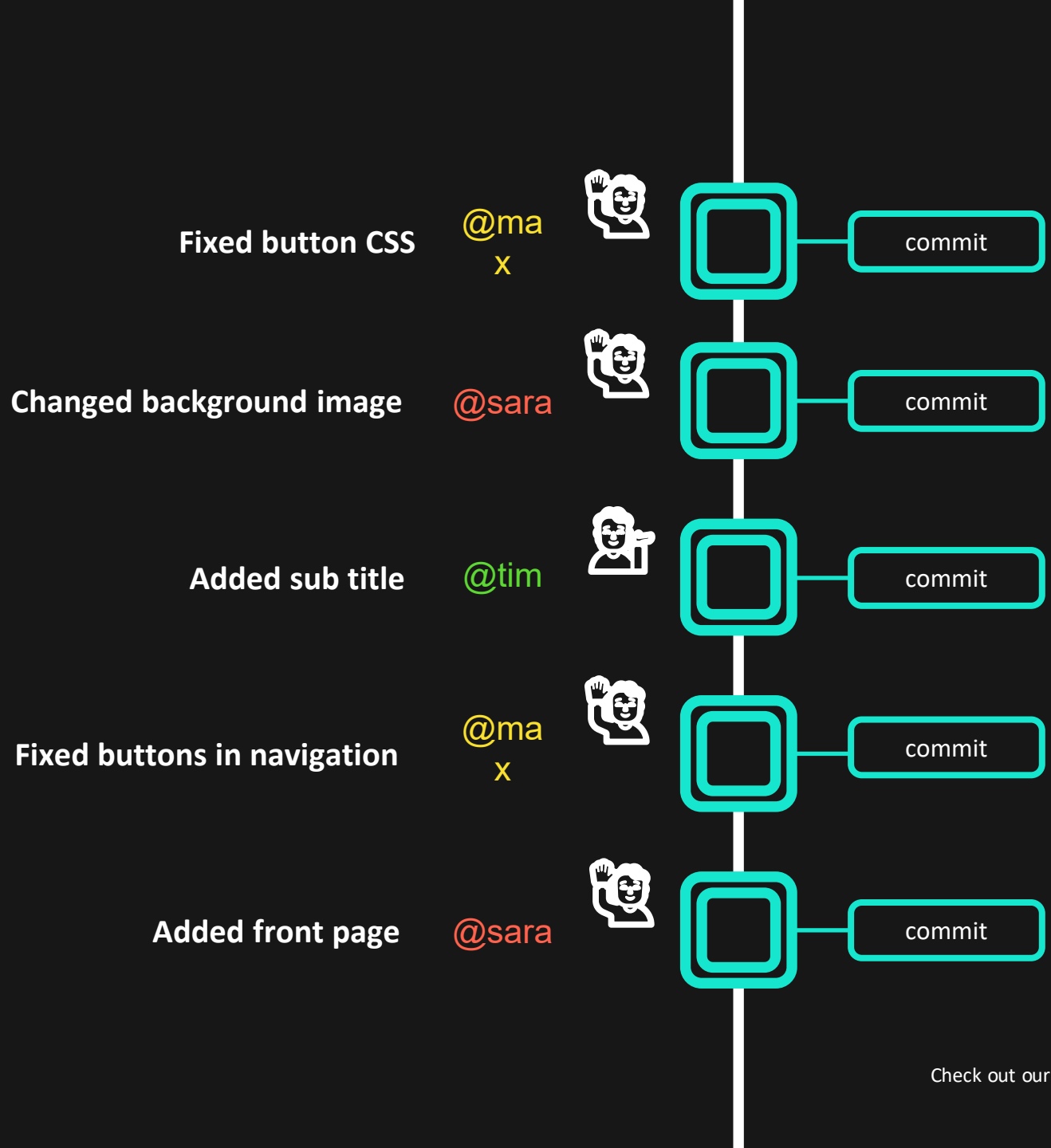

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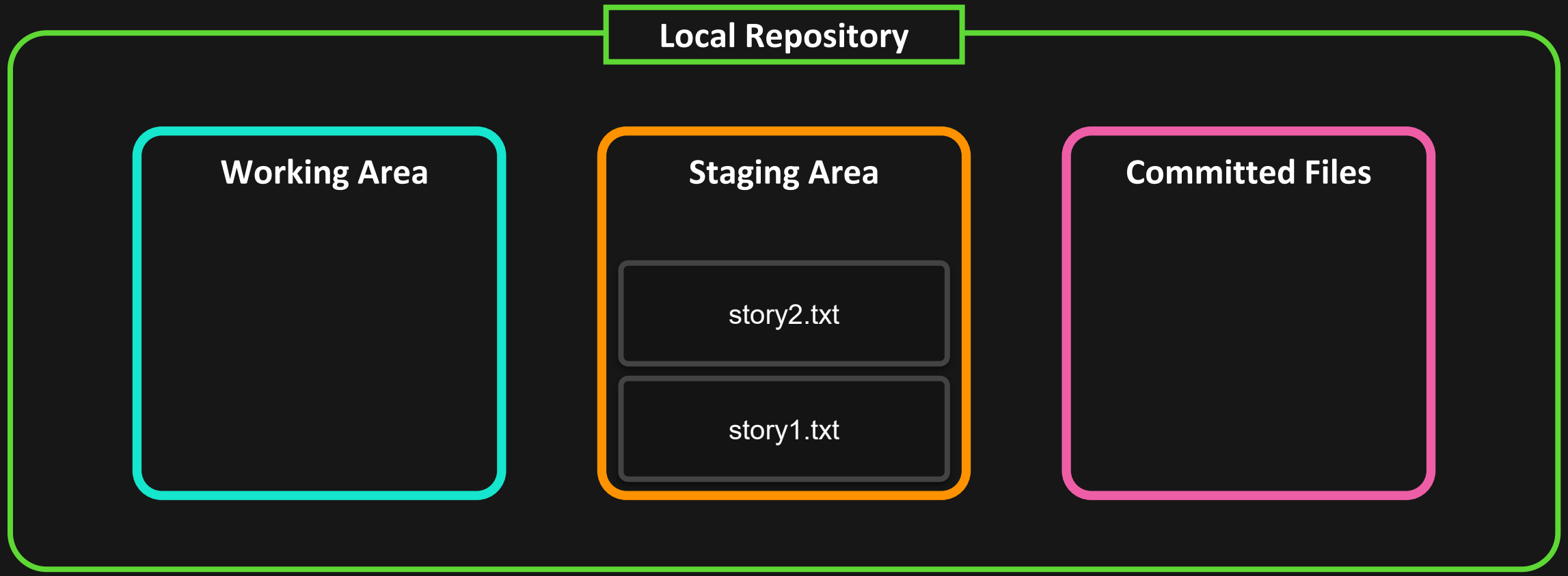

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Initialize Git Repo

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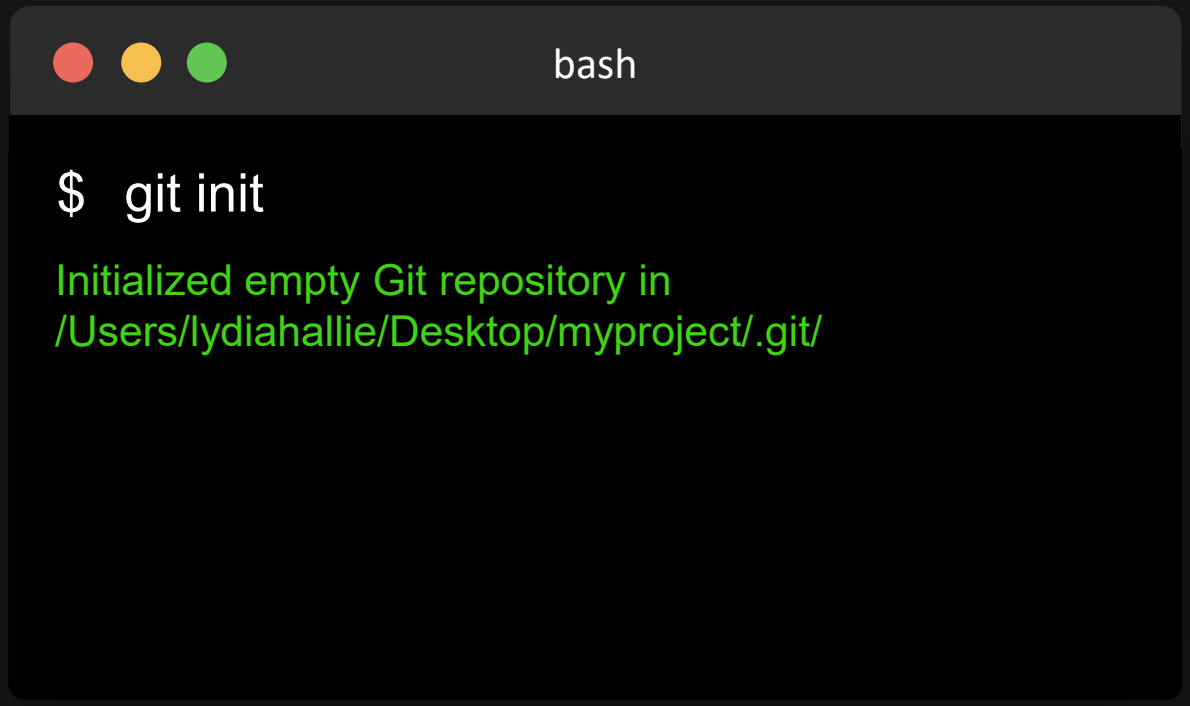

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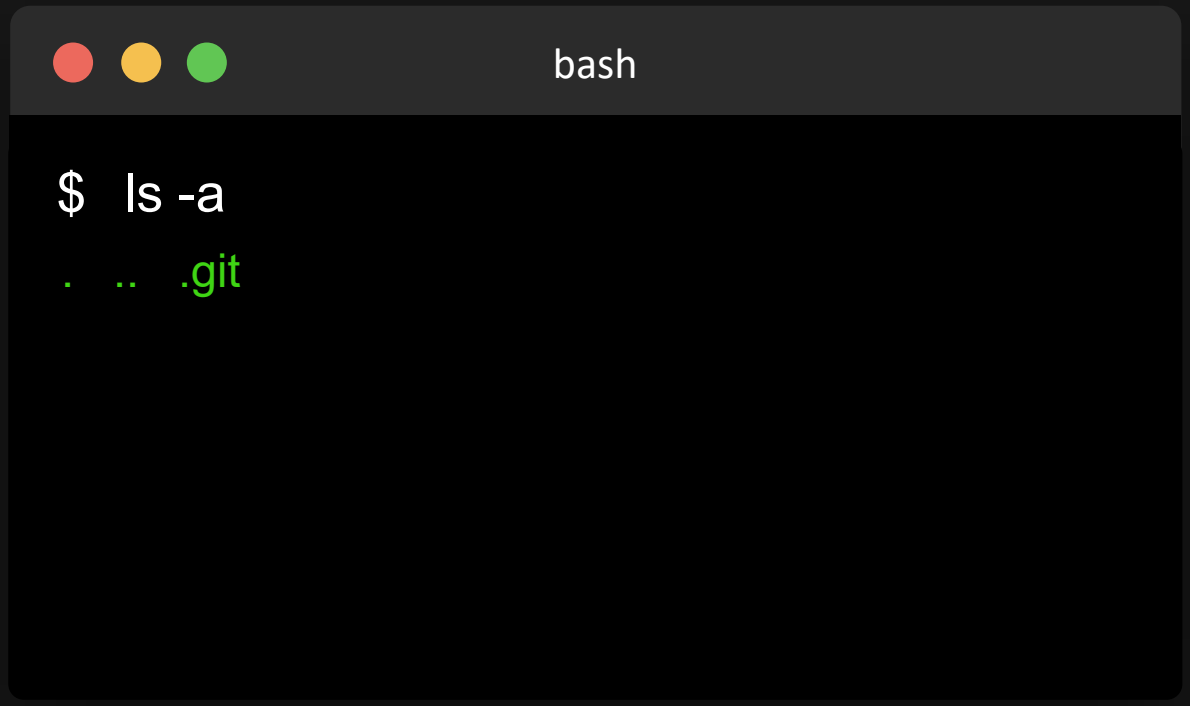

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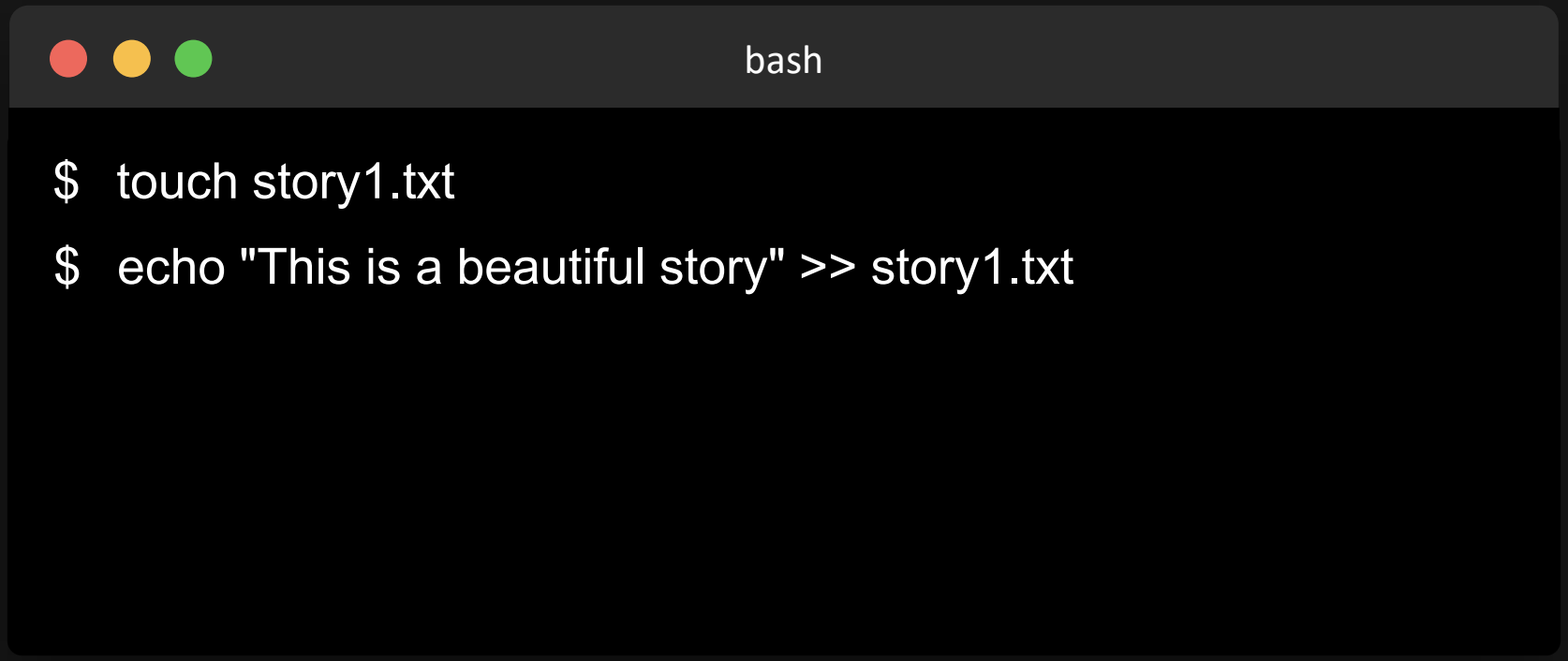

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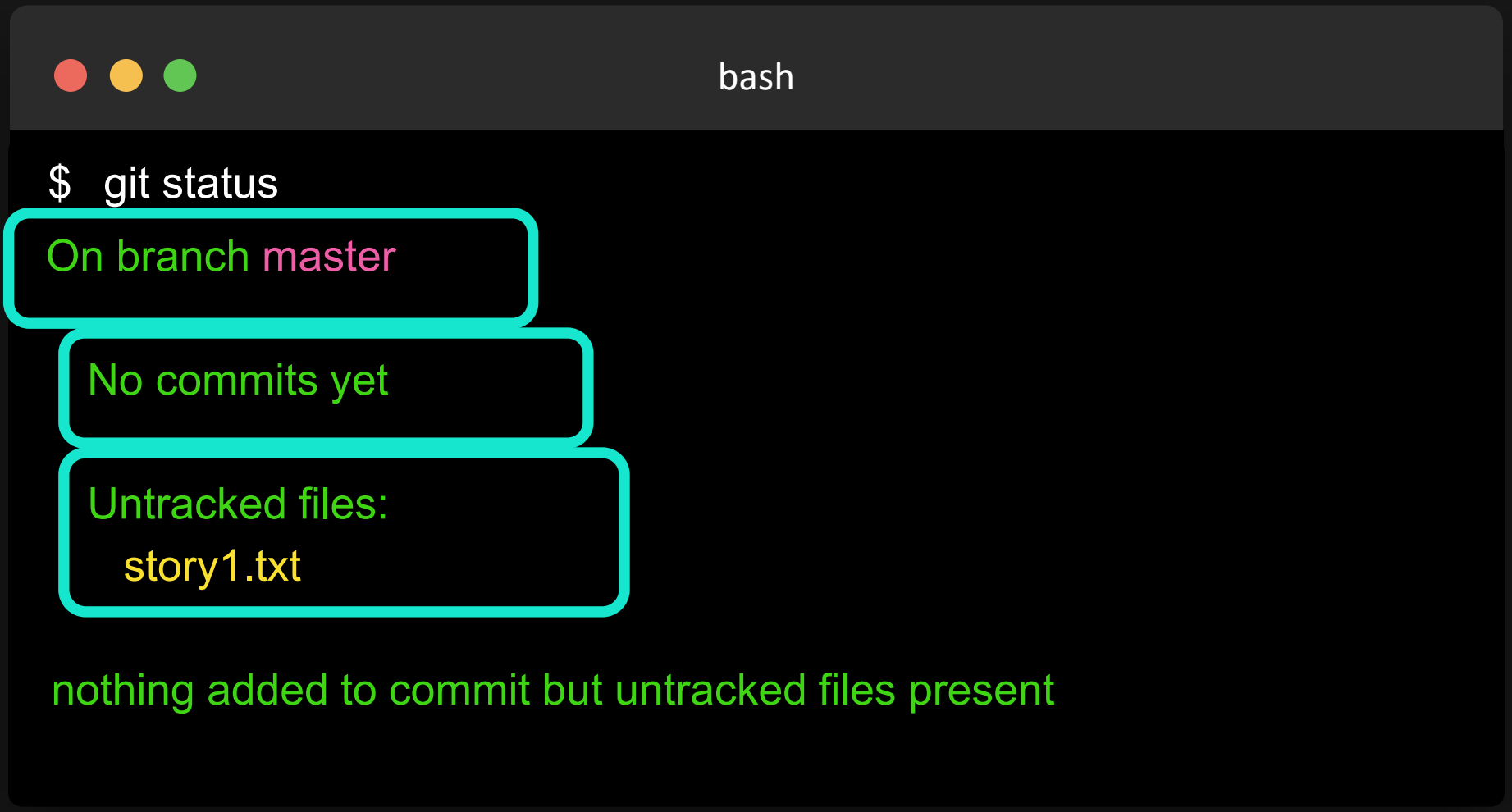

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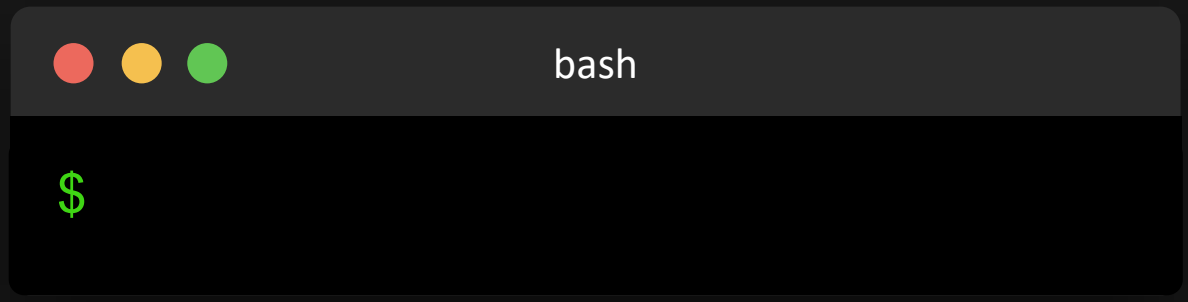

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bash

```
$ git add story1.txt
```

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bash

```
$ git commit -m "Added first story"
```

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Added first story @ me

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Git log

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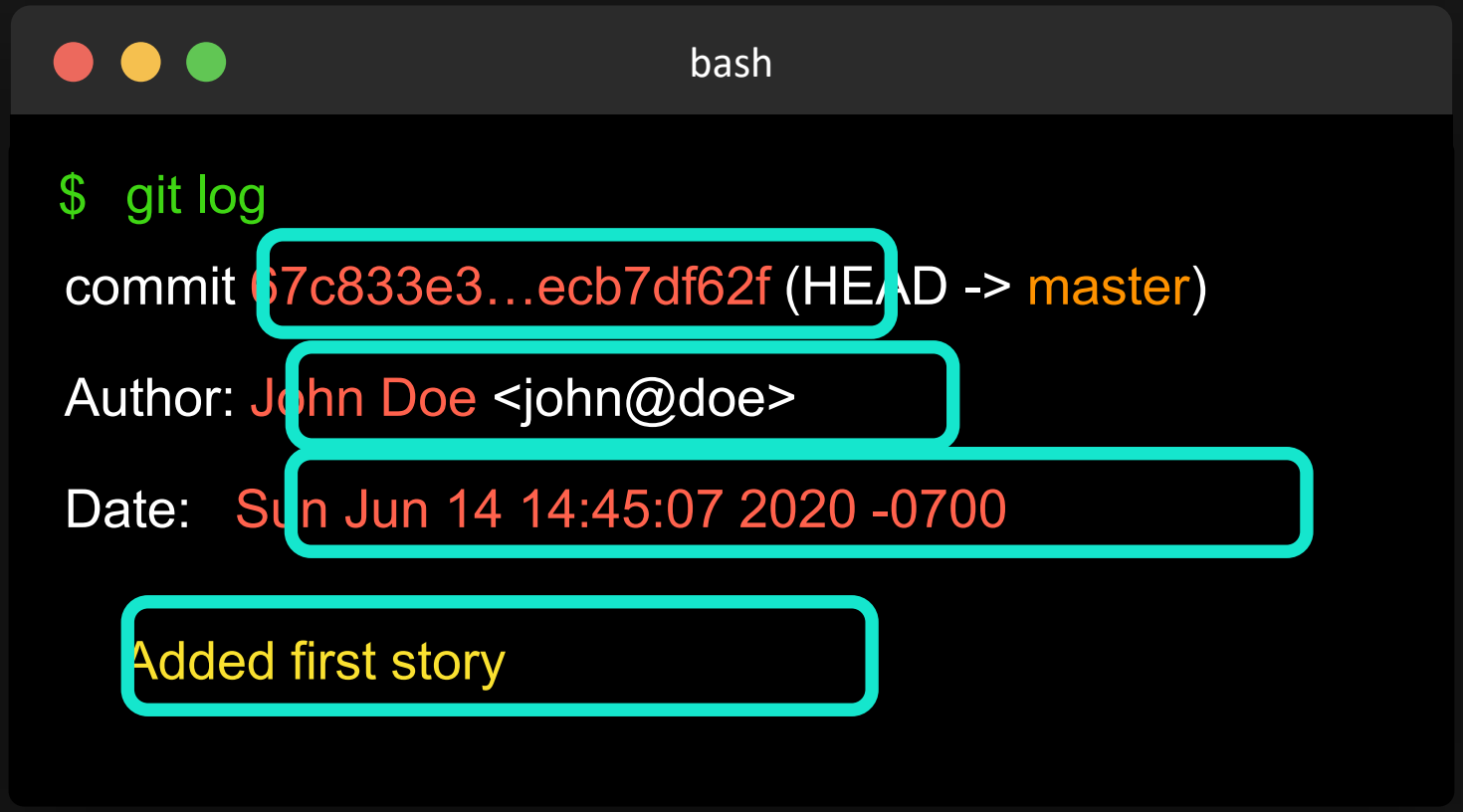

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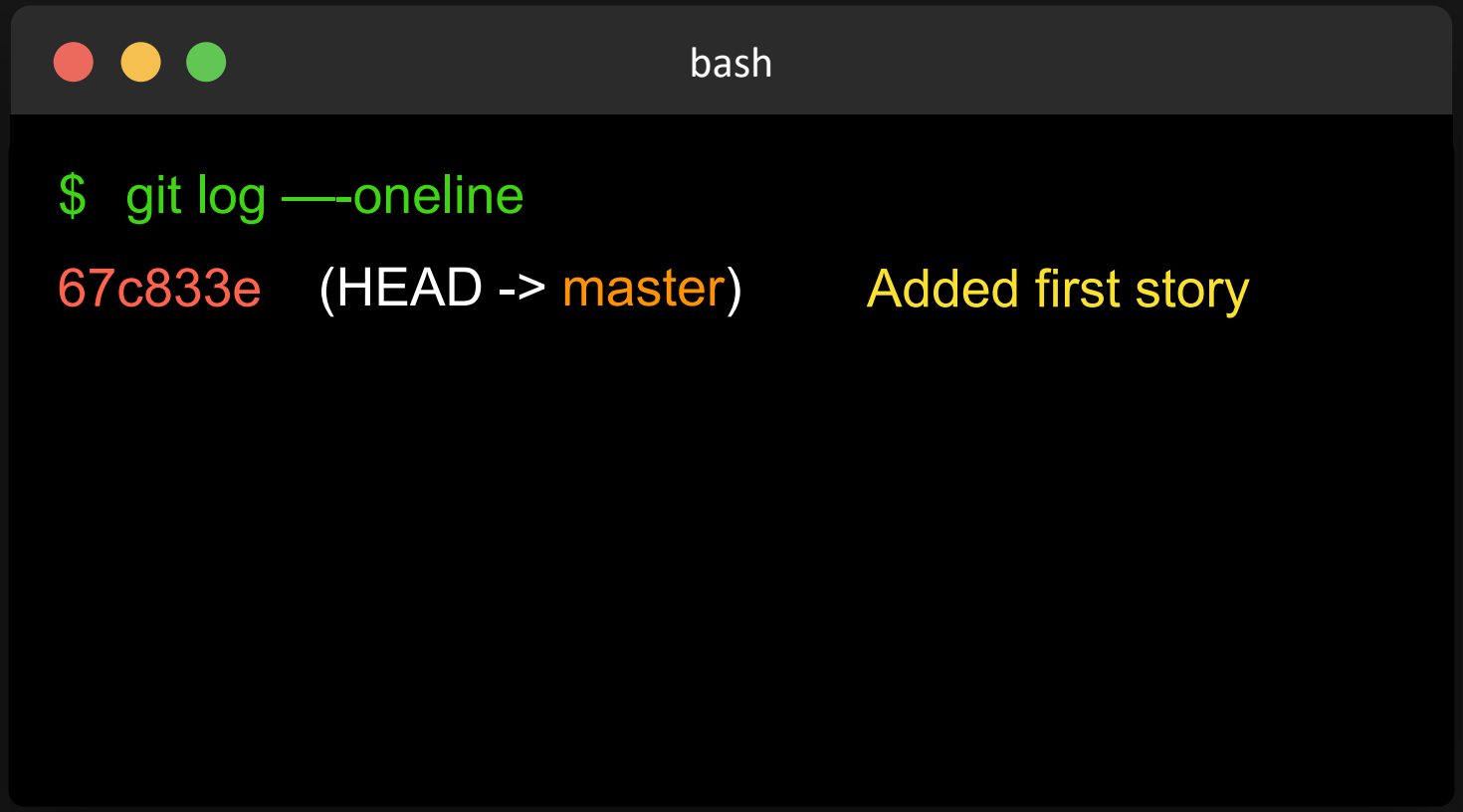

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Branches

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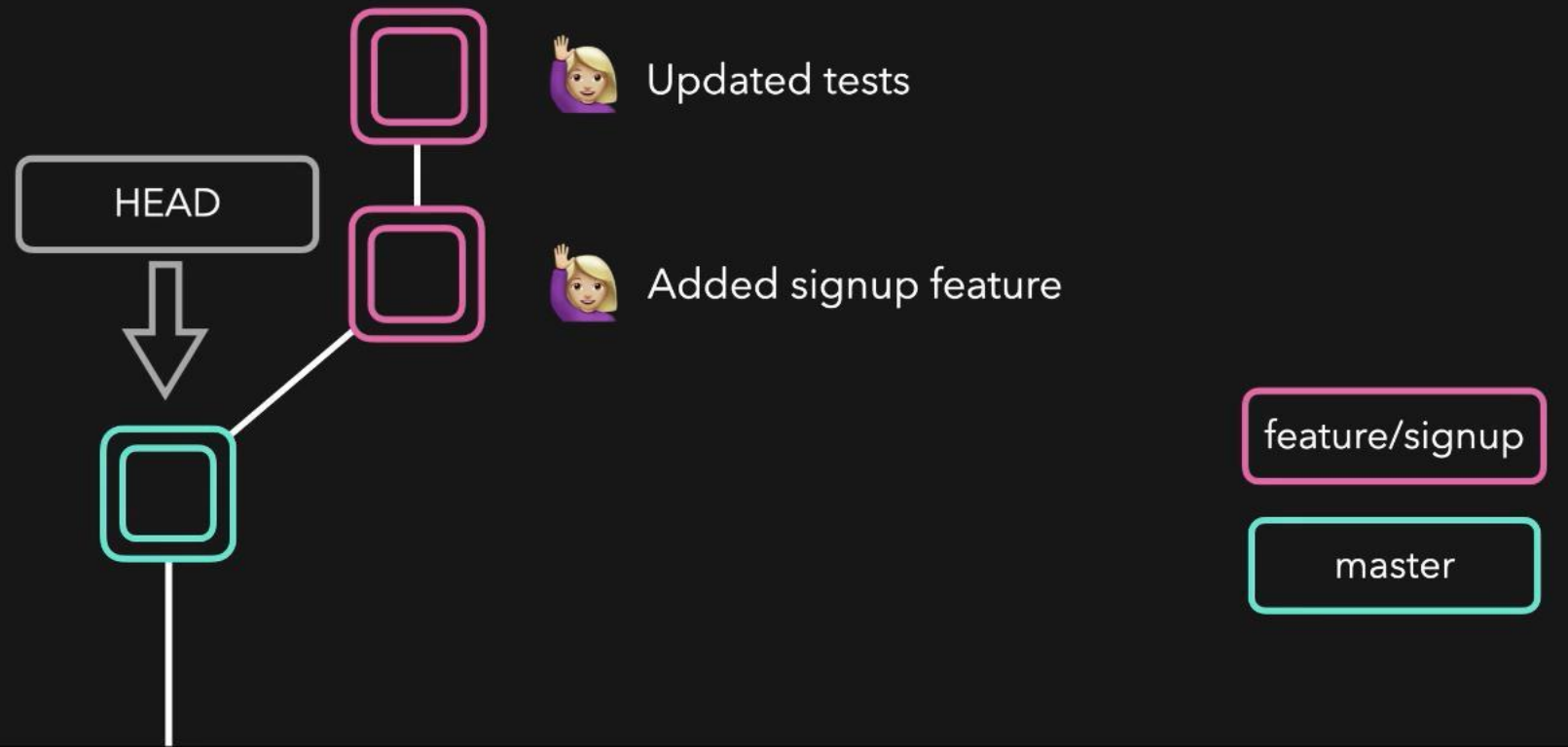
```
# Create a new branch
$ git branch sarah
# Switch to an existing branch
$ git checkout sarah

# Create a new branch and Switch to it
$ git checkout -b max

# Delete a branch
$ git branch -d max

# List all branches
$ git branch
```

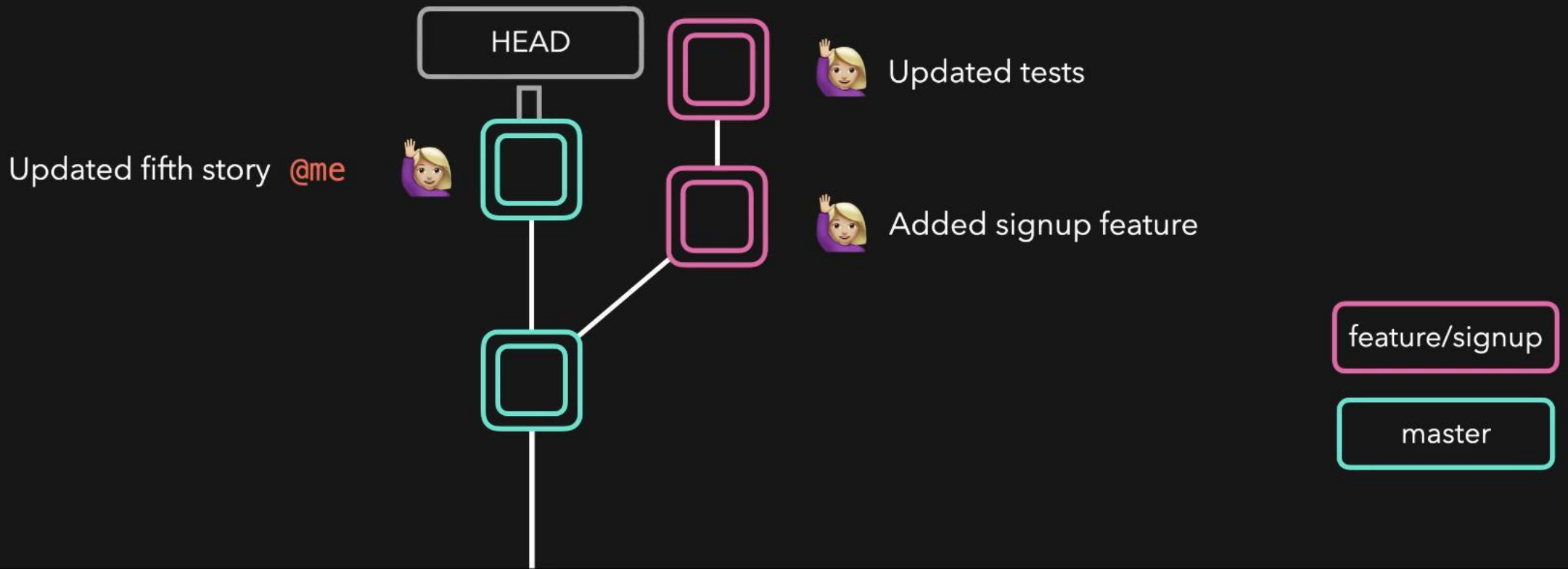
bash

```
$ git checkout master
```



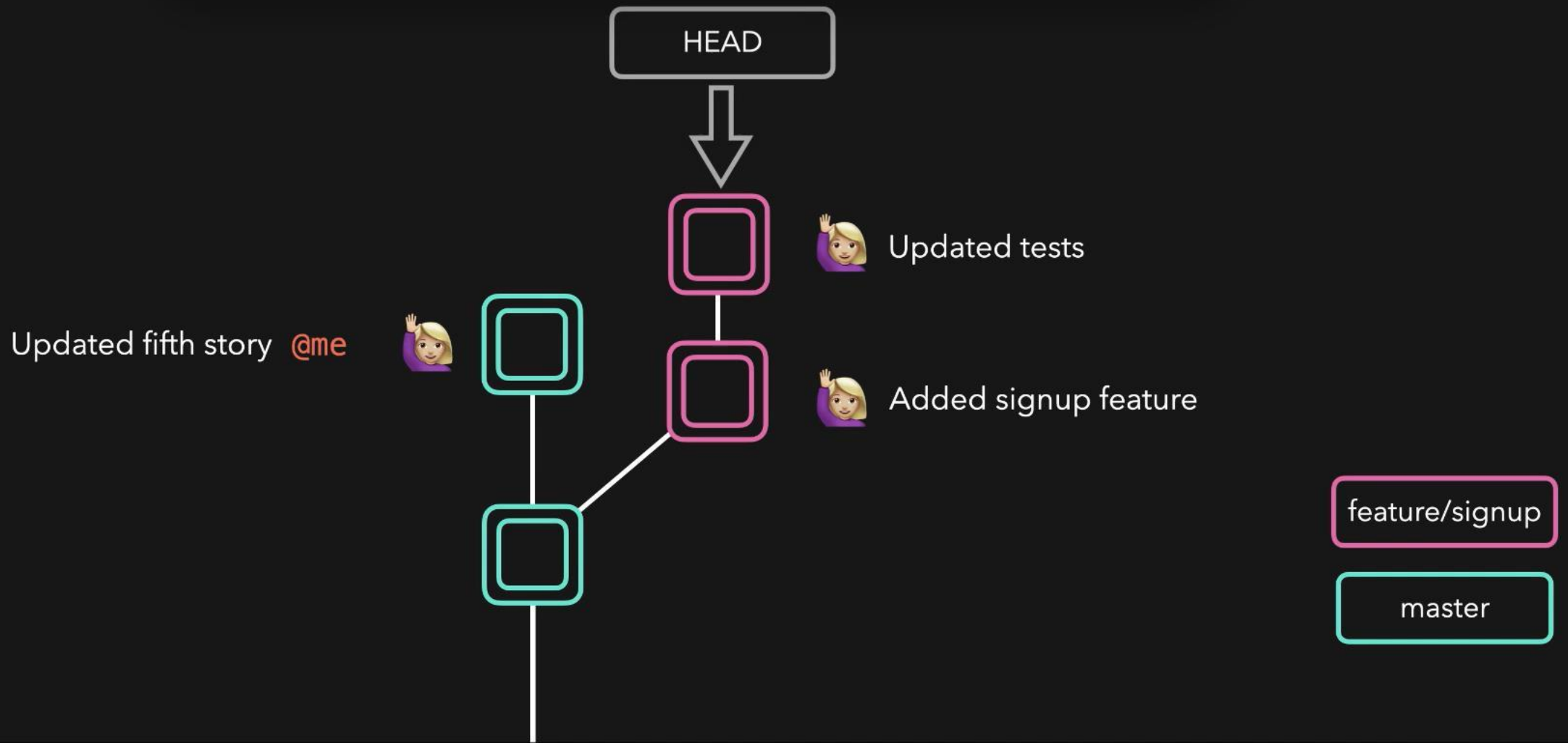
bash

```
$ git commit -am “Updated fifth story”
```



bash

```
$ git checkout feature/signup
```



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Merging

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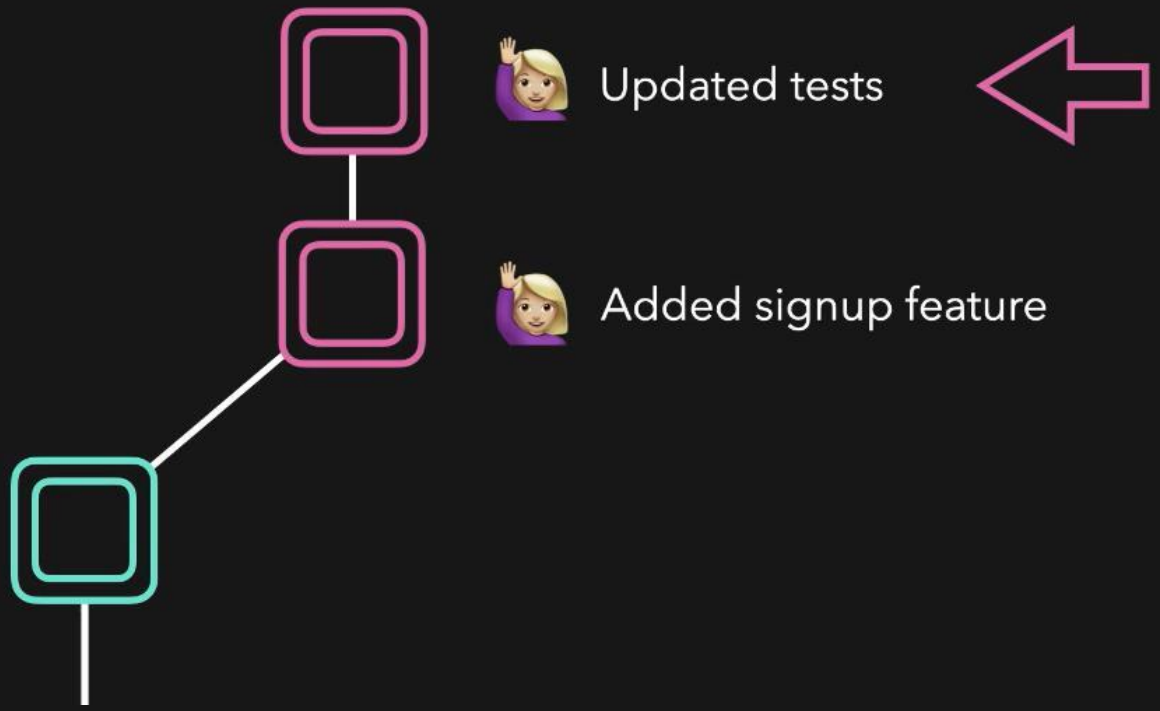
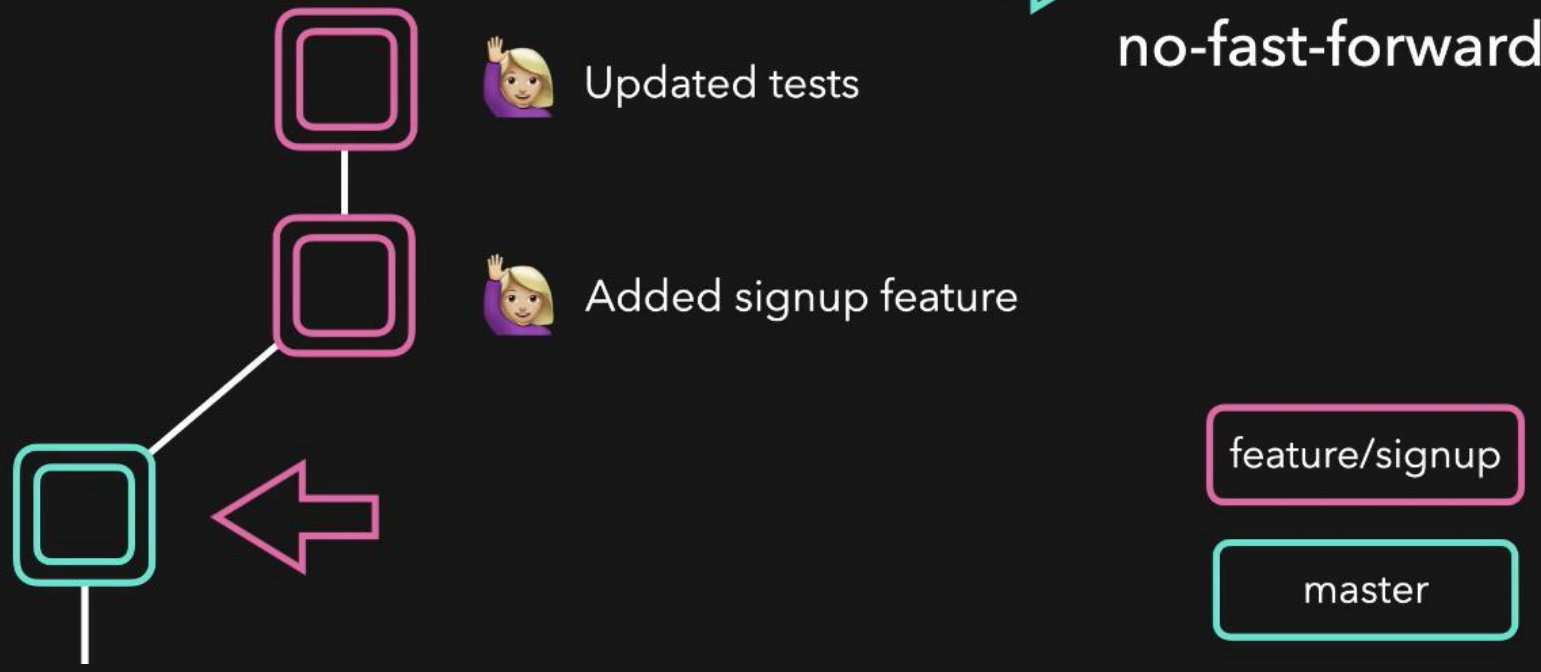

Updated tests
Added signup feature
feature/signup
master

bash

```
(feature/signup)$ git checkout master
(master)$ git merge feature/signup
```



bash

```
(feature/signup)$ git checkout master
(master)$ git merge feature/signup
```

fast-forward
no-fast-forward

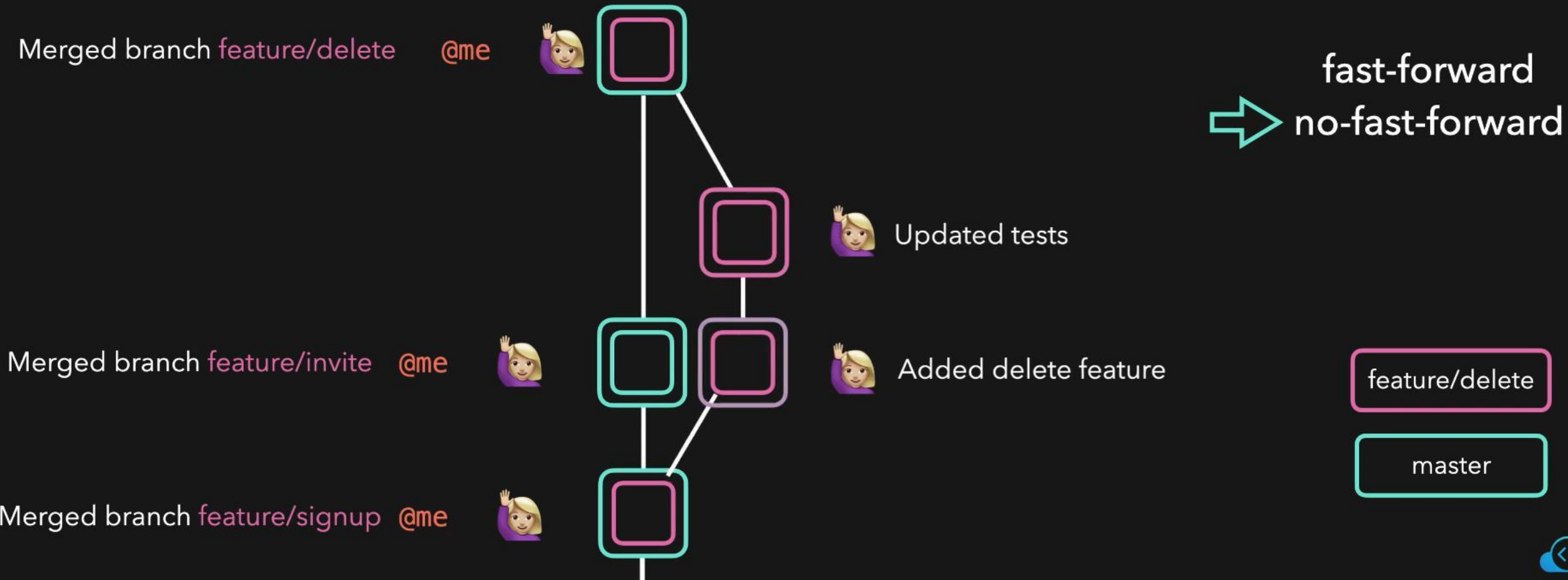
Merged branch feature/signup @me

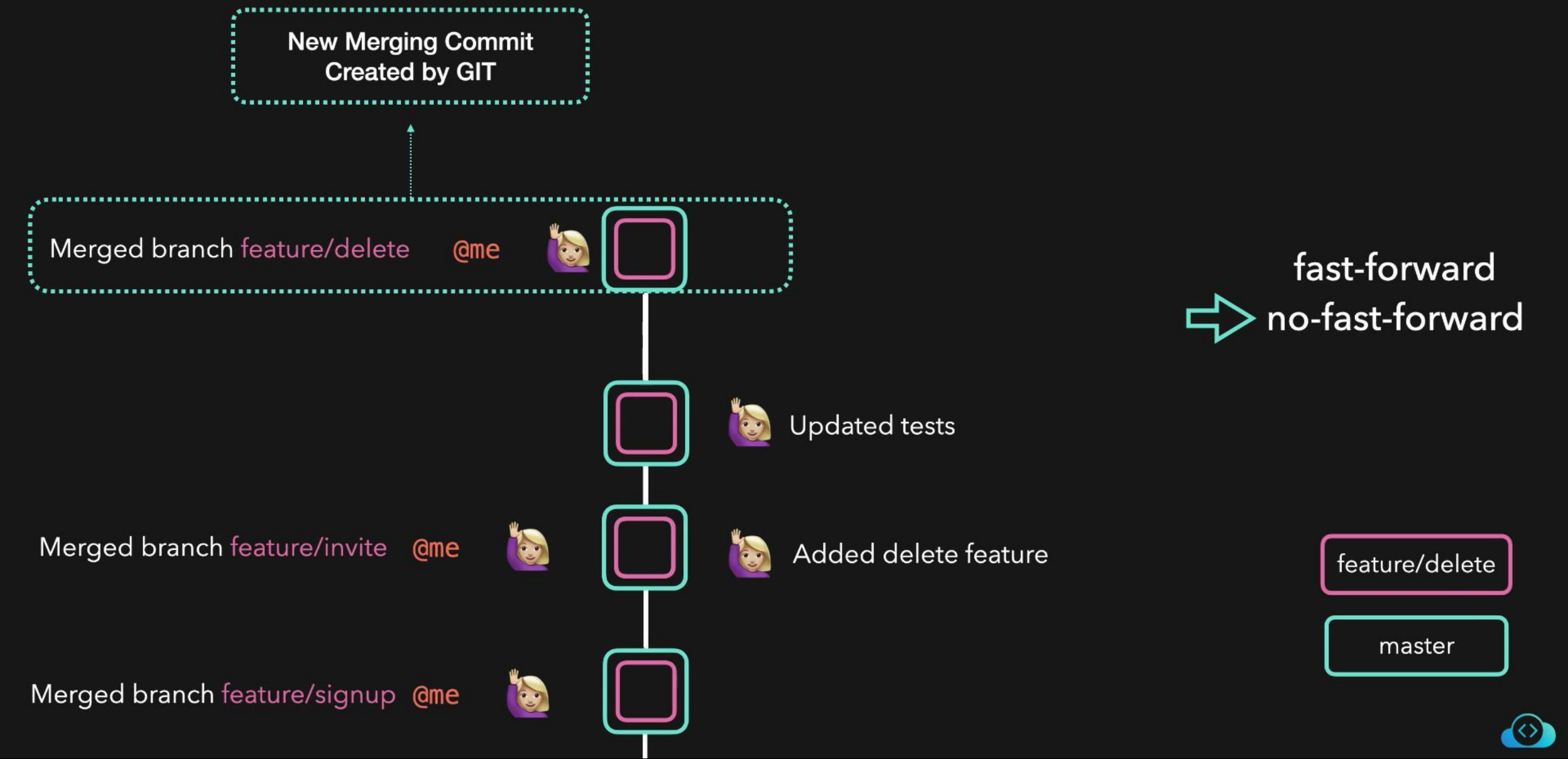
Updated tests

Added signup feature

feature/signup

master


Merged branch feature/delete @me
Updated tests
Merged branch feature/invite @me
Added delete feature
Merged branch feature/signup @me
fast-forward
no-fast-forward
feature/delete
master


New Merging Commit
Created by GIT
Merged branch feature/delete @me
Updated tests
Merged branch feature/invite @me
Added delete feature
Merged branch feature/signup @me
fast-forward
no-fast-forward
feature/delete
master

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Initializing a remote repo

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GitHub

GitLab

Bitbucket

Connection String

https://.../.../*[name]*.git

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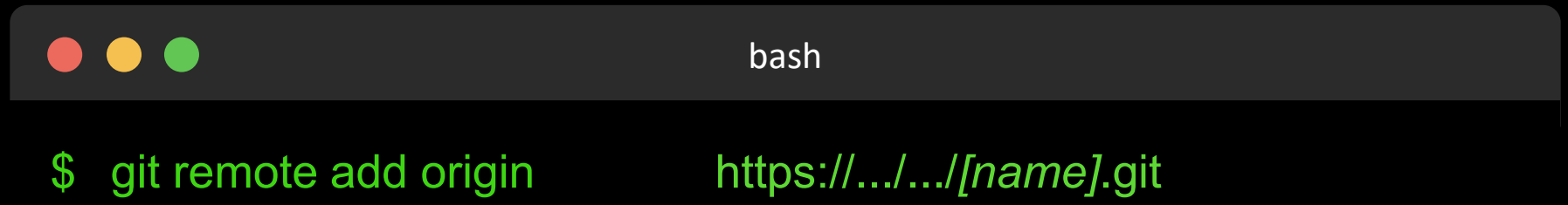

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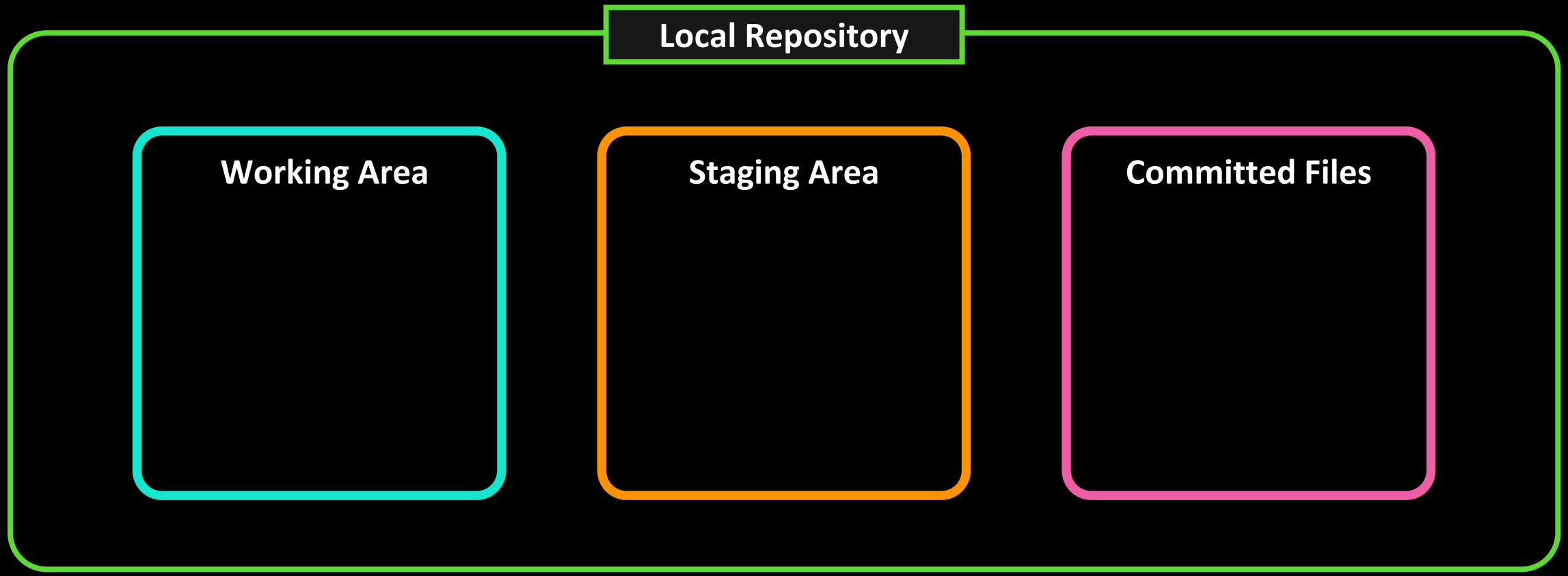

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Remote Repository

https://.../.../*[name]*.git

Local Repository

Working Area

Staging Area

Committed Files

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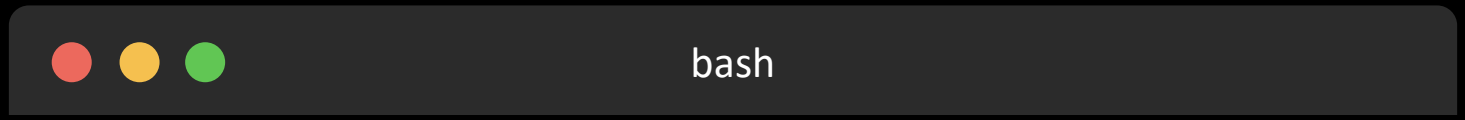

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Pushing

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Remote Repository

Local Repository

```
<html>
  <body>
    <h1>My Website!</h1>
  </body>
</html>
```

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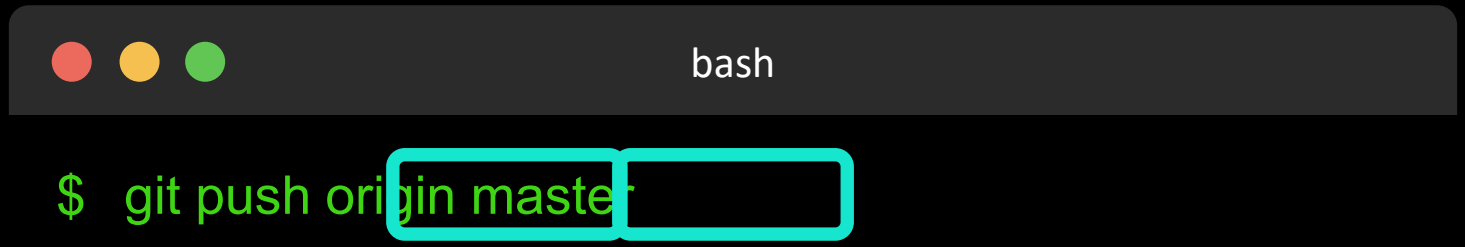

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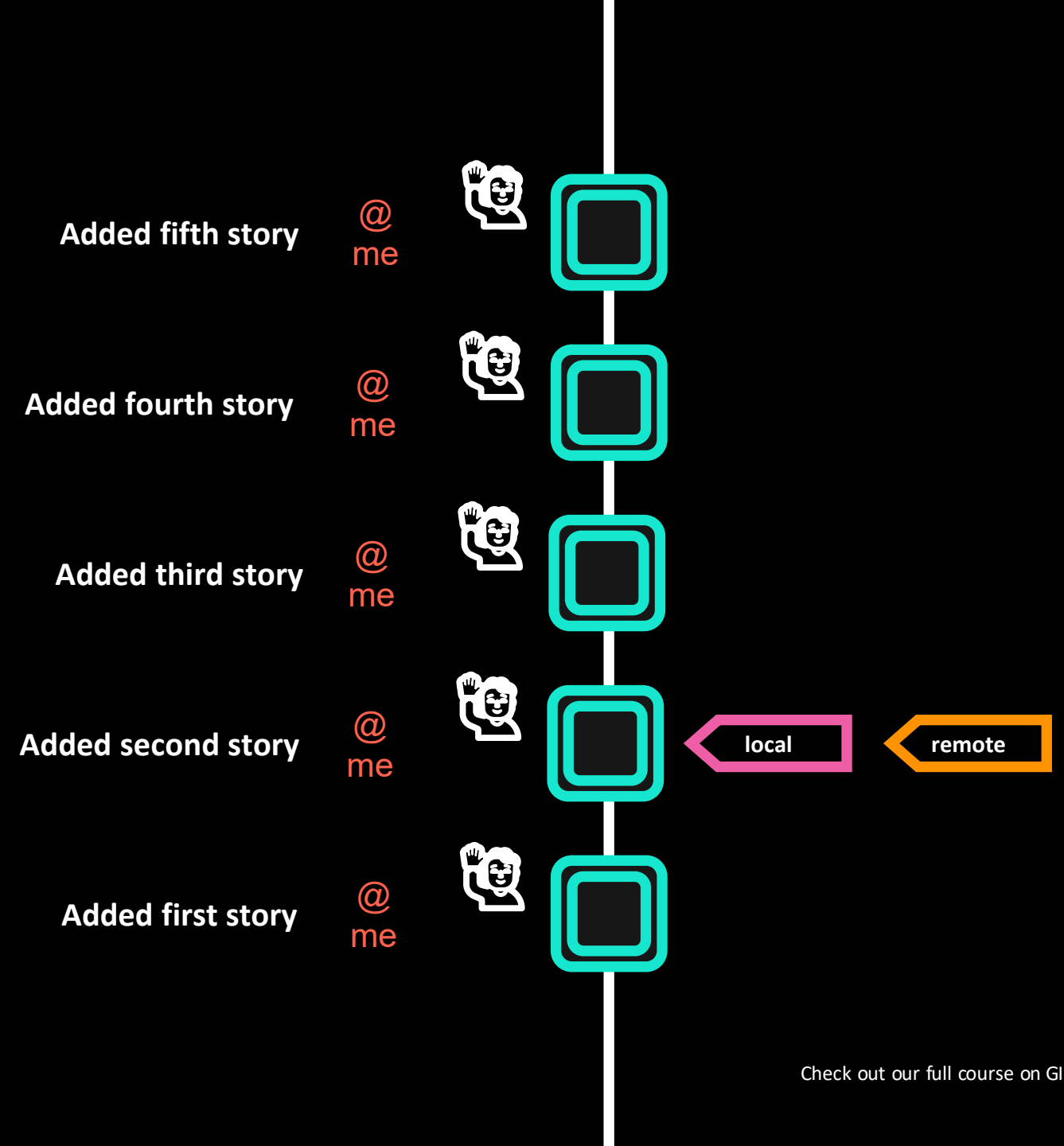

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Cloning

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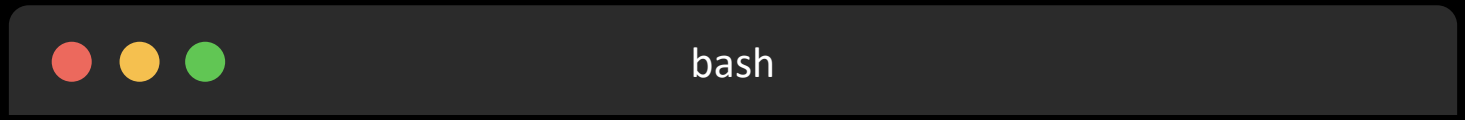

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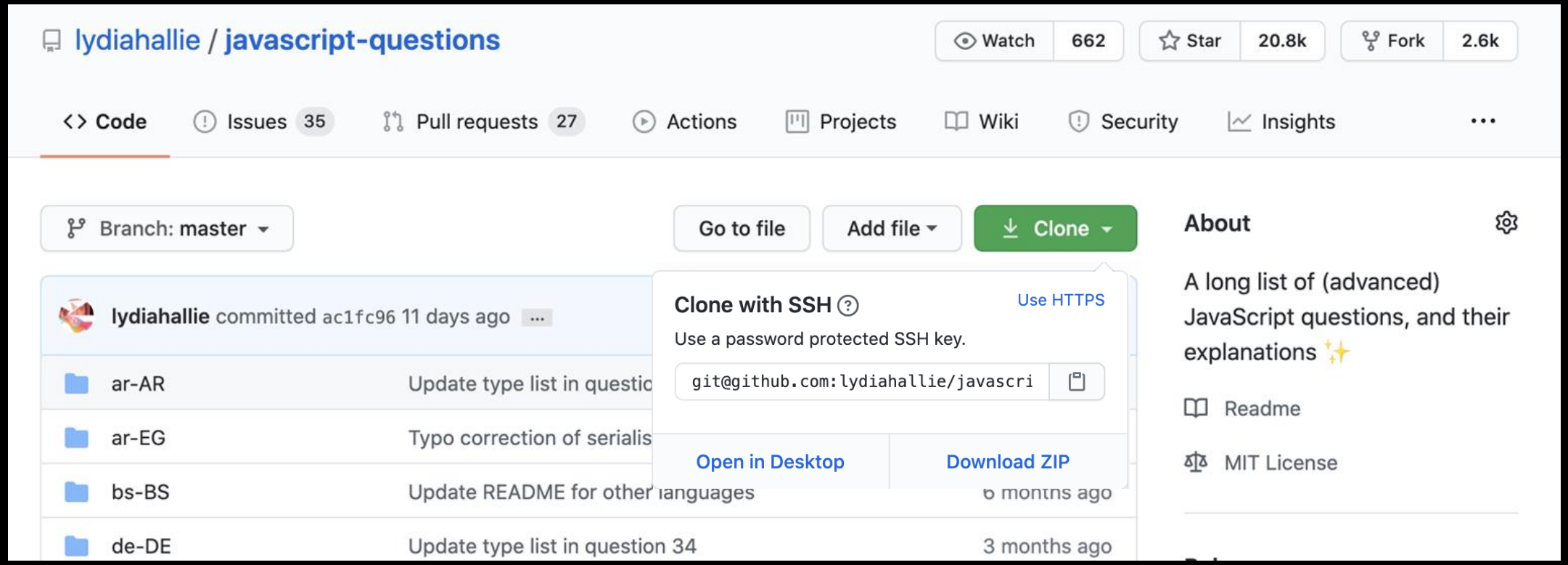

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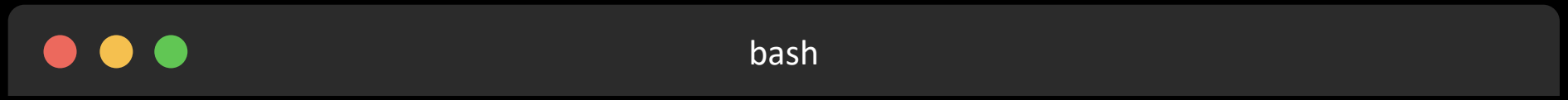

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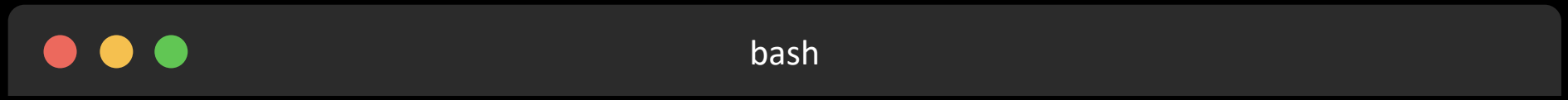


```
$ cd remote-repo
$ git log
commit 67c833e3…ecb7df62f (HEAD -> origin/master)
Author: John Doe <john@doe>
Date:   Sun Jun 14 14:45:07 2020 -0700

    Added first story
```

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Pull Request

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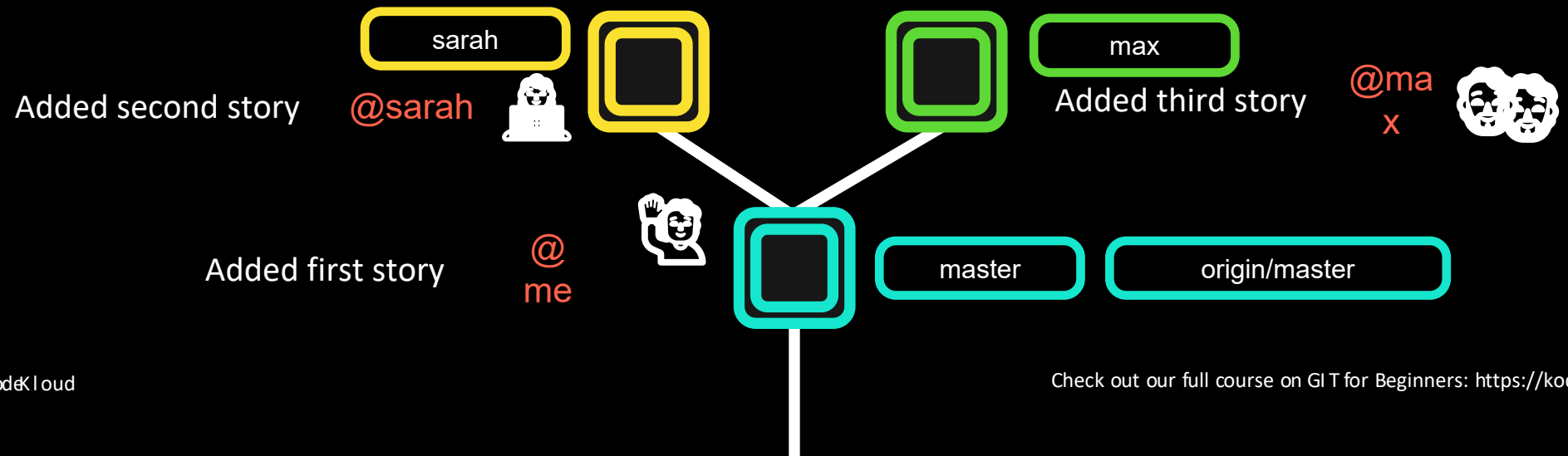

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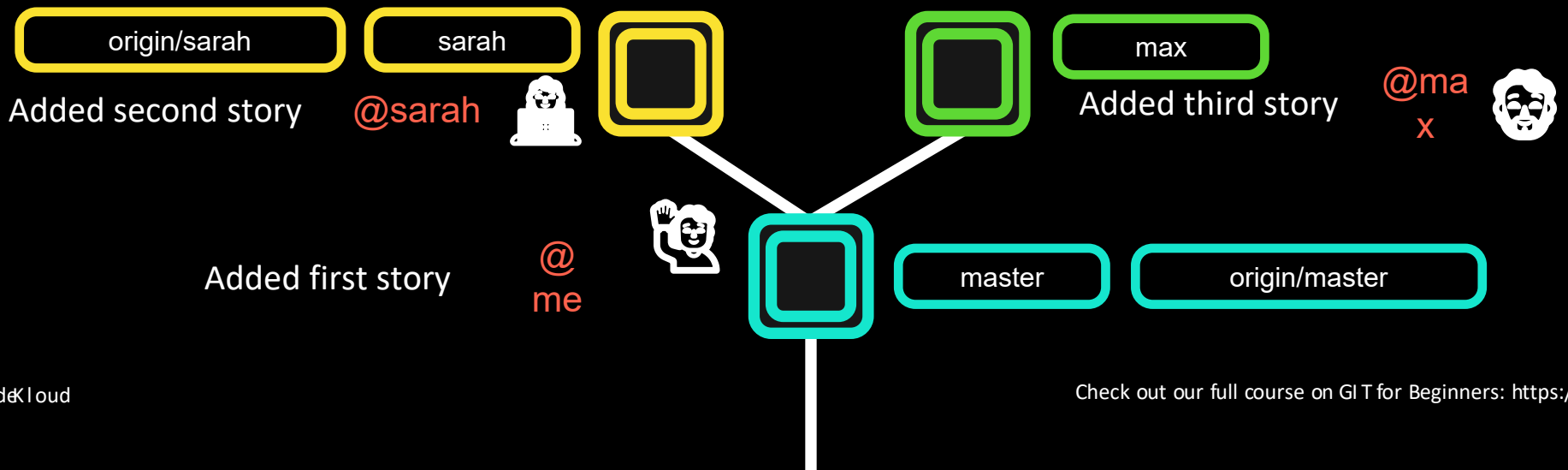
bash

```
$ git push origin sarah
```



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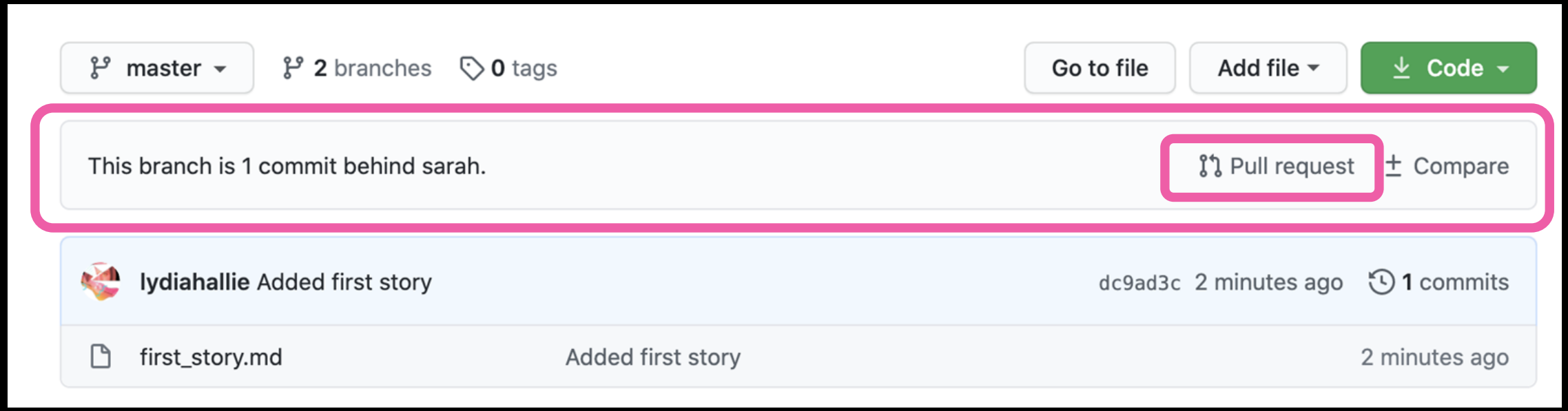

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Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also compare across forks.

base: master ← compare: sarah ✓ Able to merge. These branches can be automatically merged.

Create pull request Discuss and review the changes in this comparison with others.

1 commit | 1 file changed | 0 commit comments | 1 contributor

Commits on Jul 11, 2020

lydiahallie Added second story fb9f191

Showing 1 changed file with 1 addition and 0 deletions. Unified Split

1 second_story.md

```
@@ -0,0 +1 @@
+ ## Second Story
```

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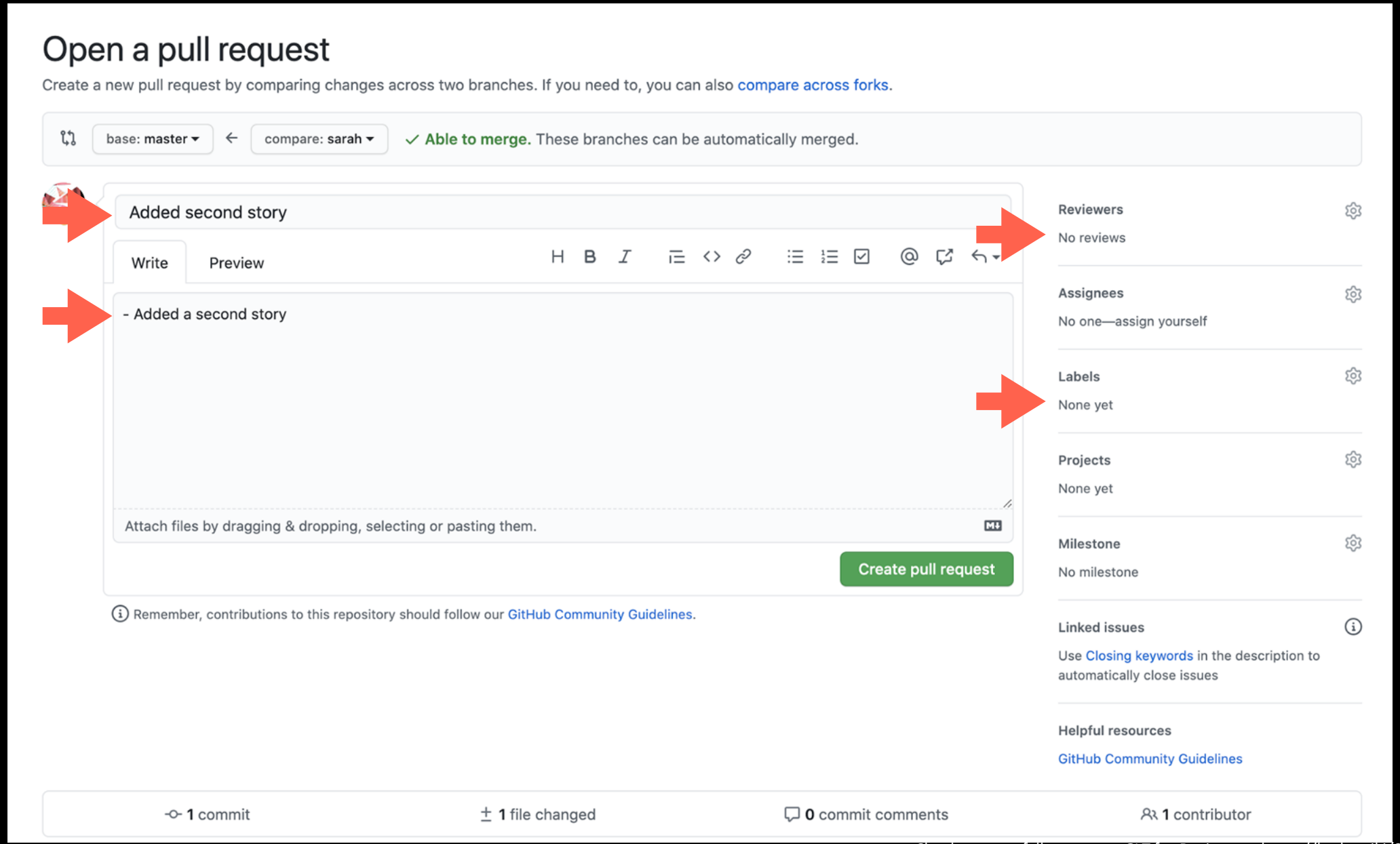

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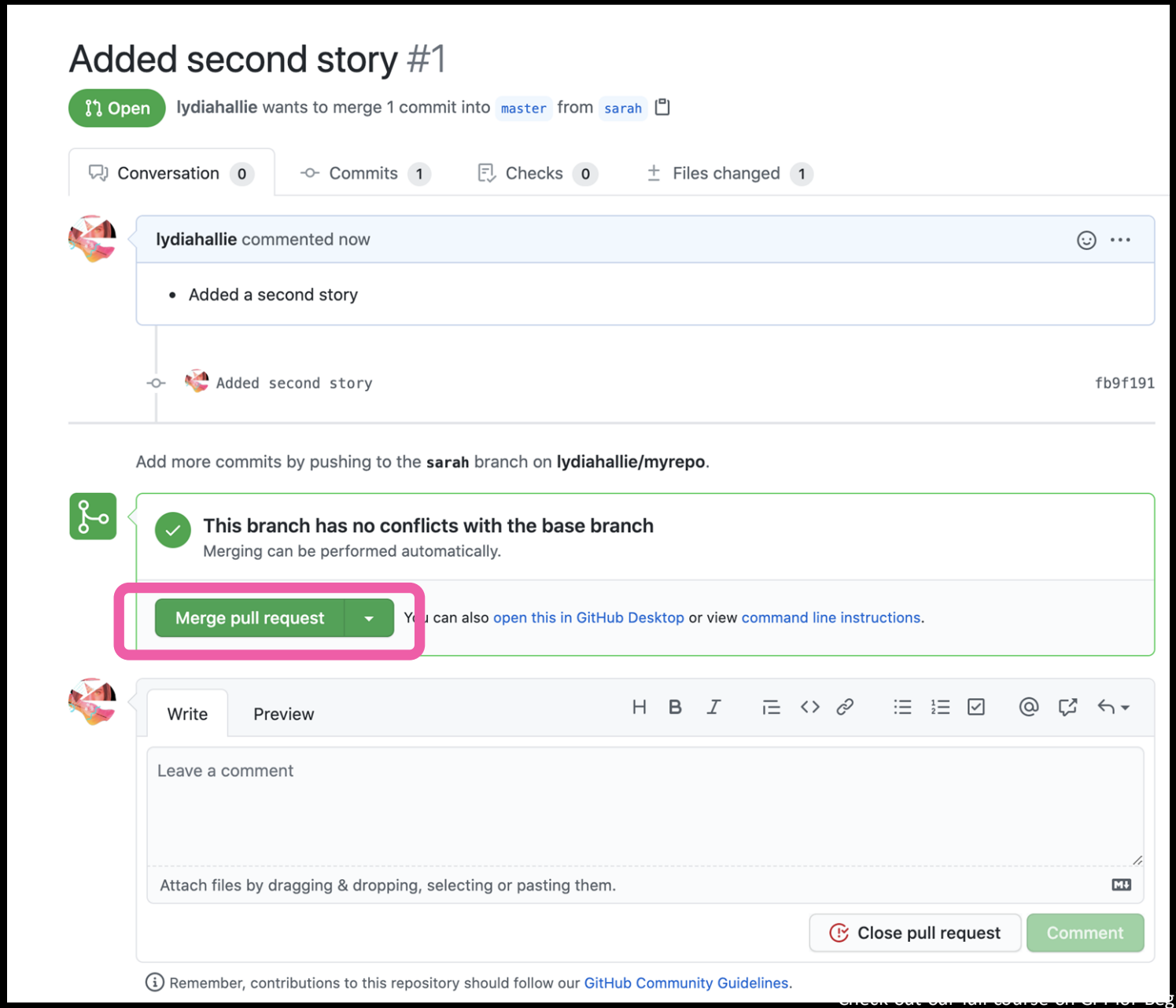

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Added second story #1

Merged **lydiahallie** merged 1 commit into `master` from `sarah` now

Conversation 0 | Commits 1 | Checks 0 | Files changed 1

lydiahallie commented 21 seconds ago

- Added a second story

Added second story fb9f191

lydiahallie merged commit **2c8f09e** into `master` now Revert

Write | Preview

Leave a comment

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

Comment

Remember, contributions to this repository should follow our GitHub Community Guidelines.

ProTip! Add .patch or .diff to the end of URLs for Git's plaintext views.

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Fetching and Pulling

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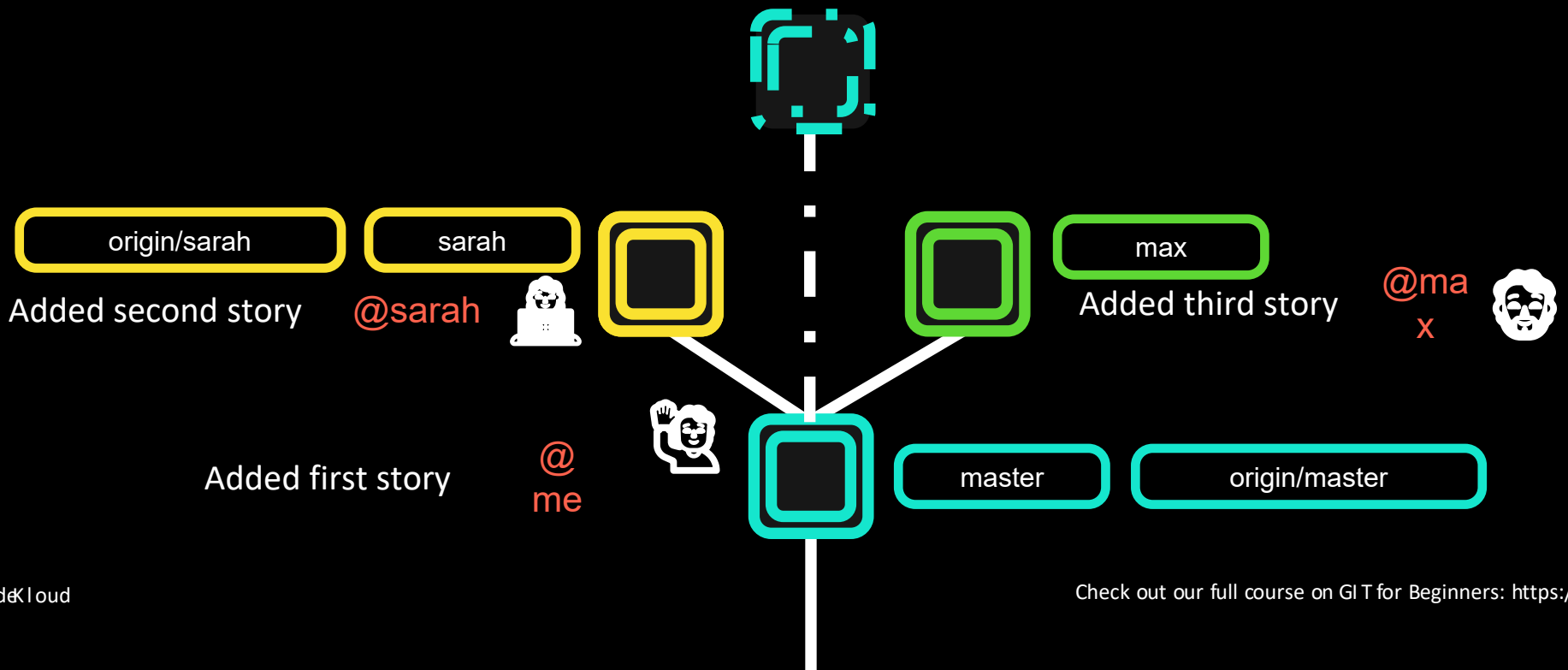
bash

```
$ git fetch origin master
```



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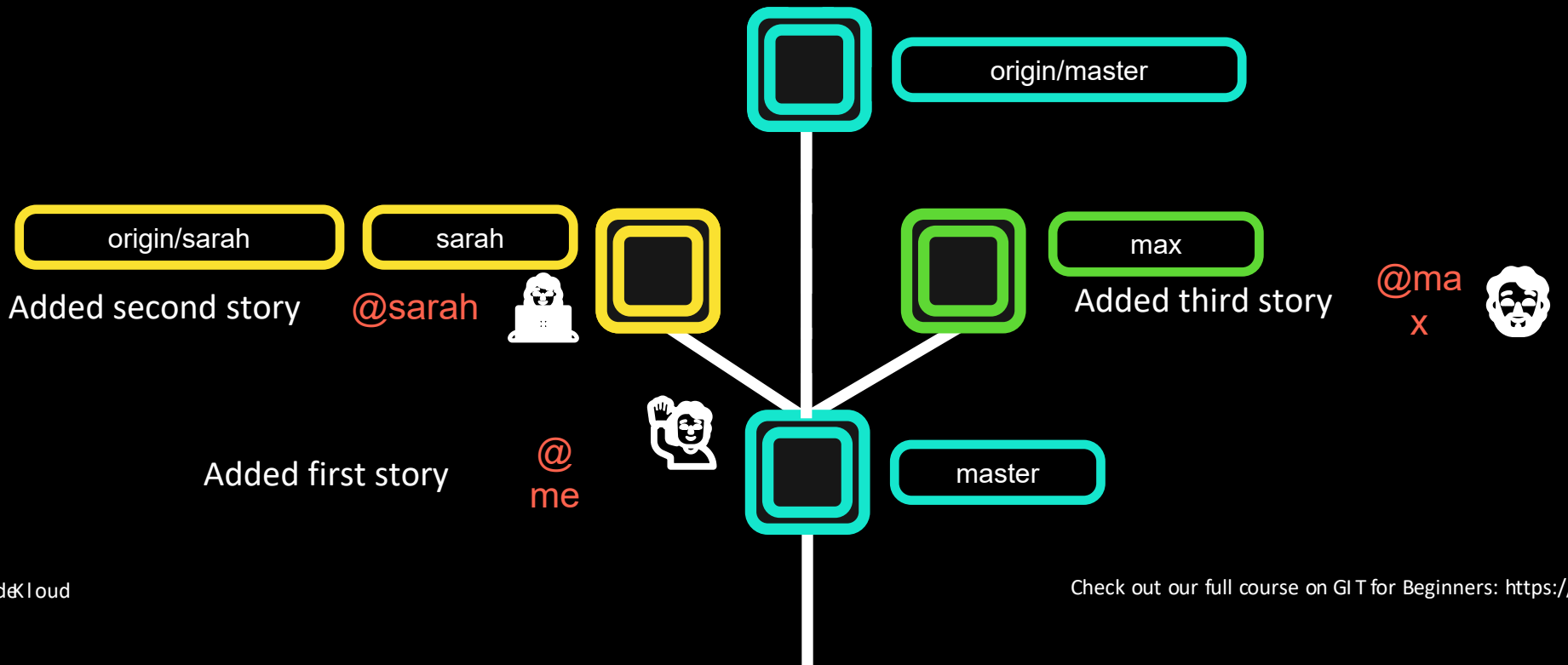
bash

```
$ git merge origin/master
```



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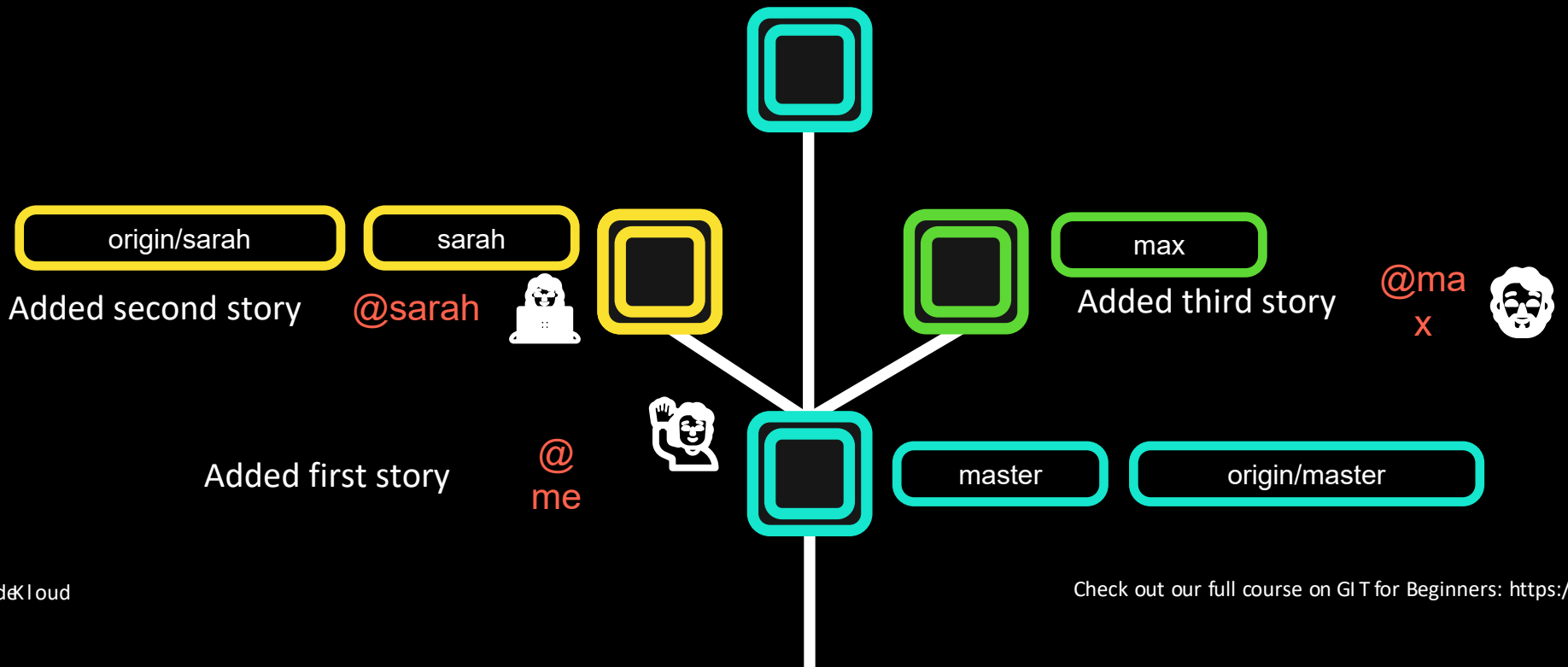
bash

```
$ git pull origin master
```



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Merge Conflicts

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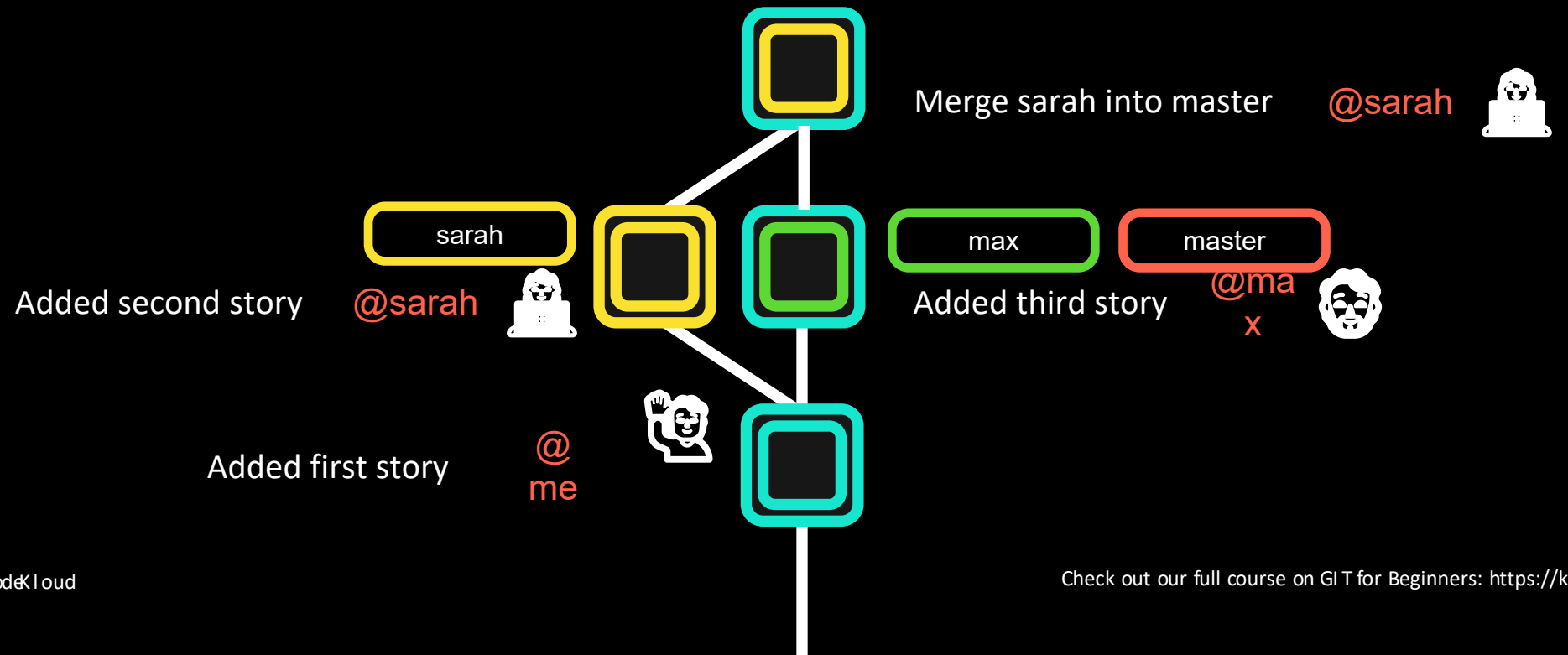

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fourth_story.md

Fourth Story

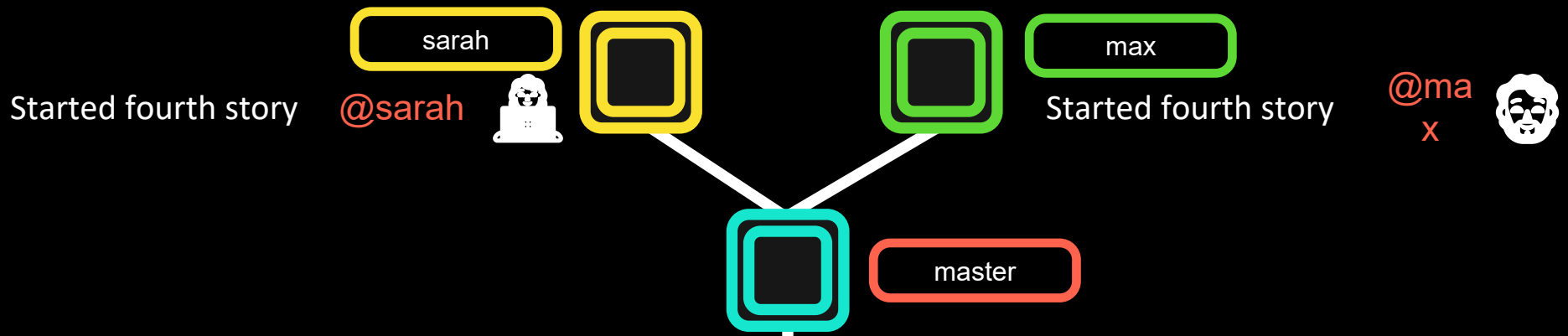
This is Sarah's version of the fourth story!

Some extra stuff Sarah added

fourth_story.md

Fourth Story

This is Max's version of the fourth story!



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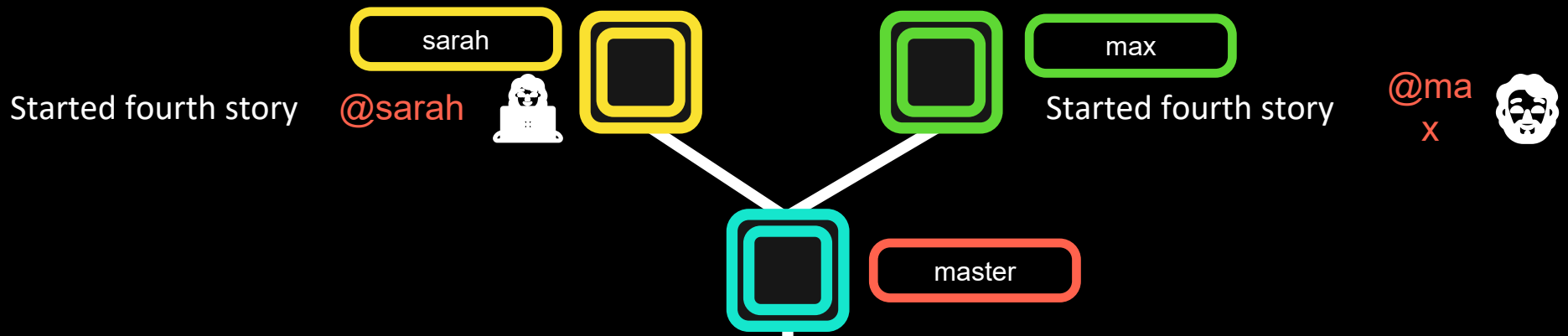

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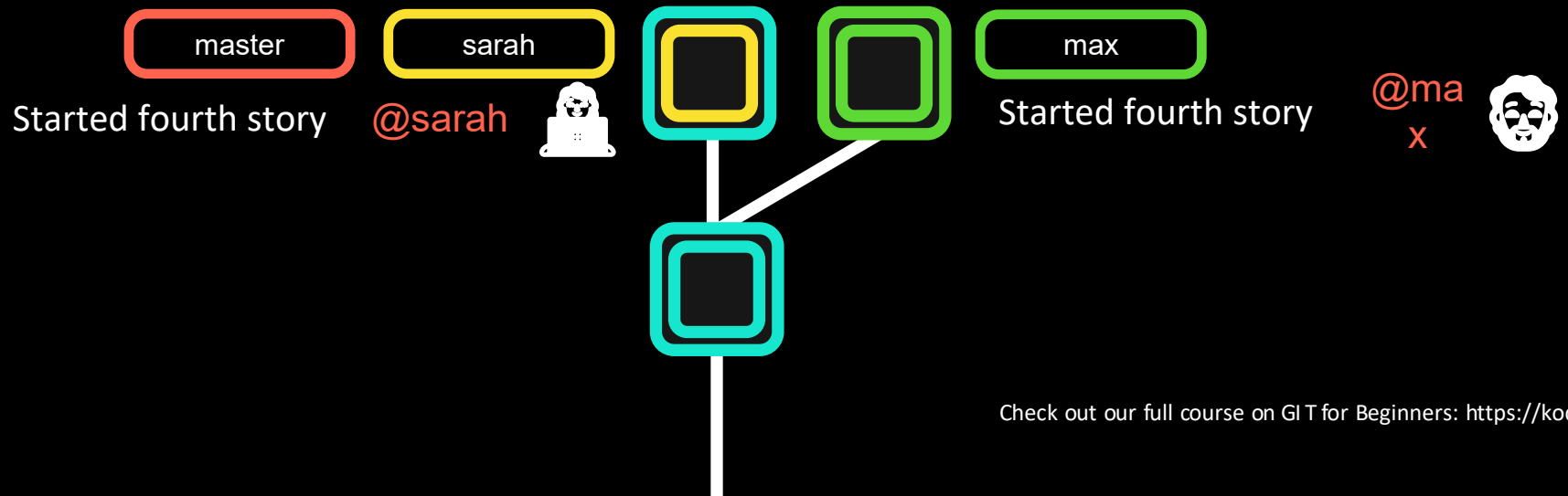

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fourth_story.md

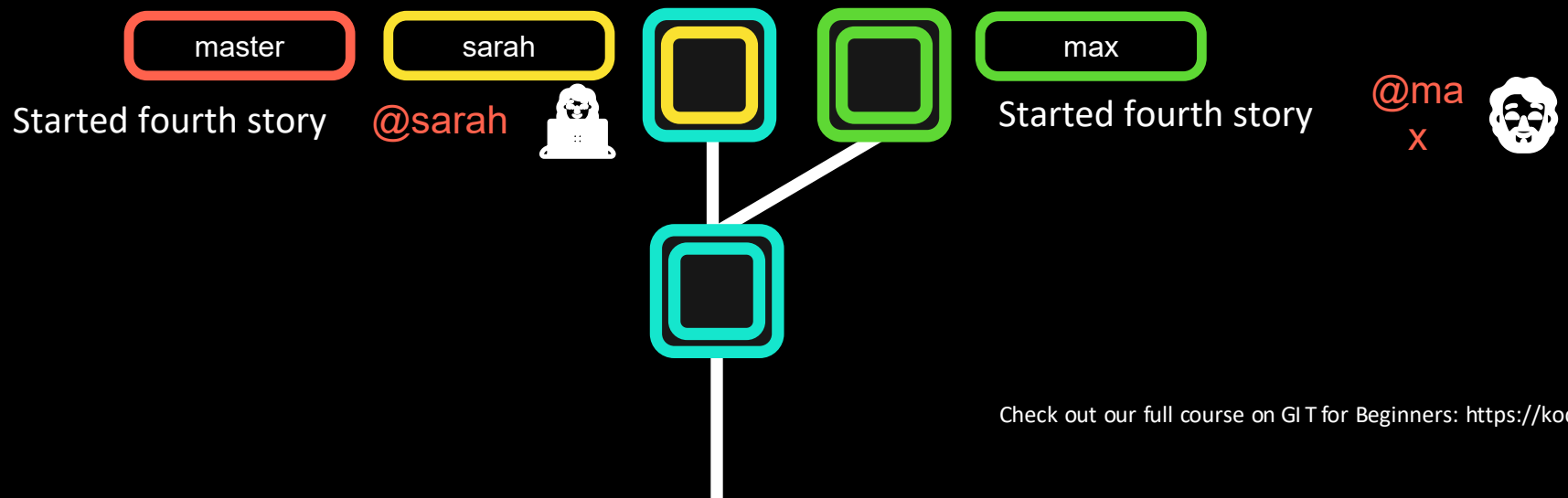
Fourth Story

This is Sarah's version
of the fourth story!

fourth_story.md

Fourth Story

This is Max's version
of the fourth story!



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fourth_story.md

Fourth Story

<<<<<<<< HEAD
This is Sarah's version
=======
This is Max's version
>>>>>>> max
of the fourth story!

Some extra stuff Sarah added

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fourth_story.md

Fourth Story

This is Max's version

of the fourth story!

Some extra stuff Sarah added

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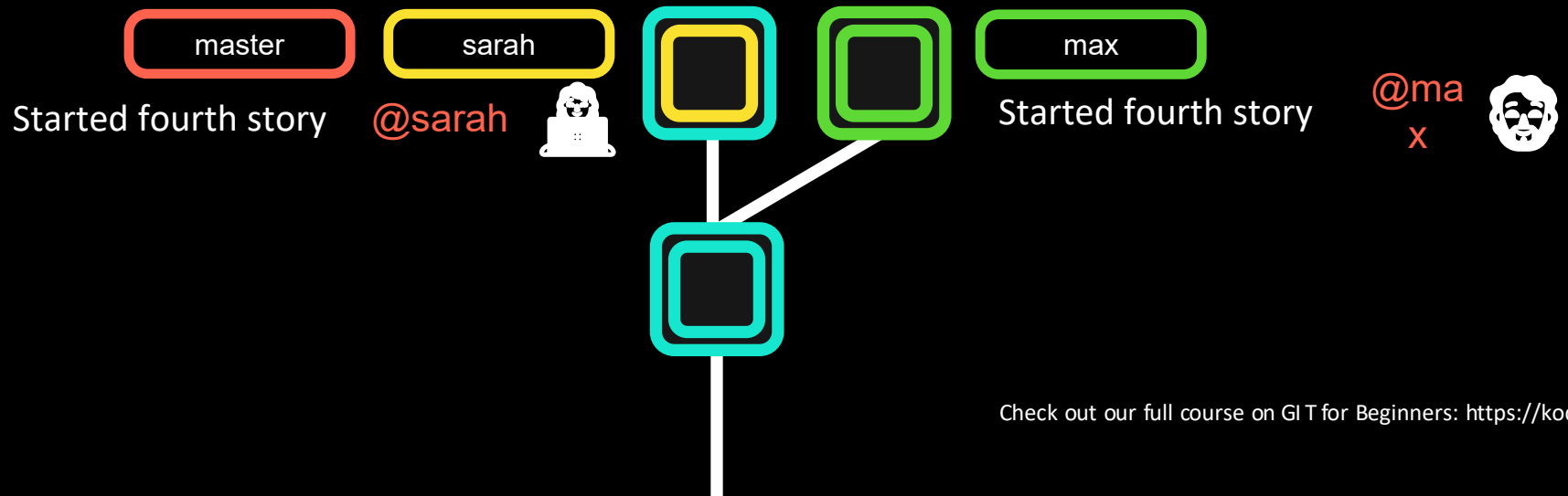
bash

```
$ git add fourth_story.txt
$ git merge
```



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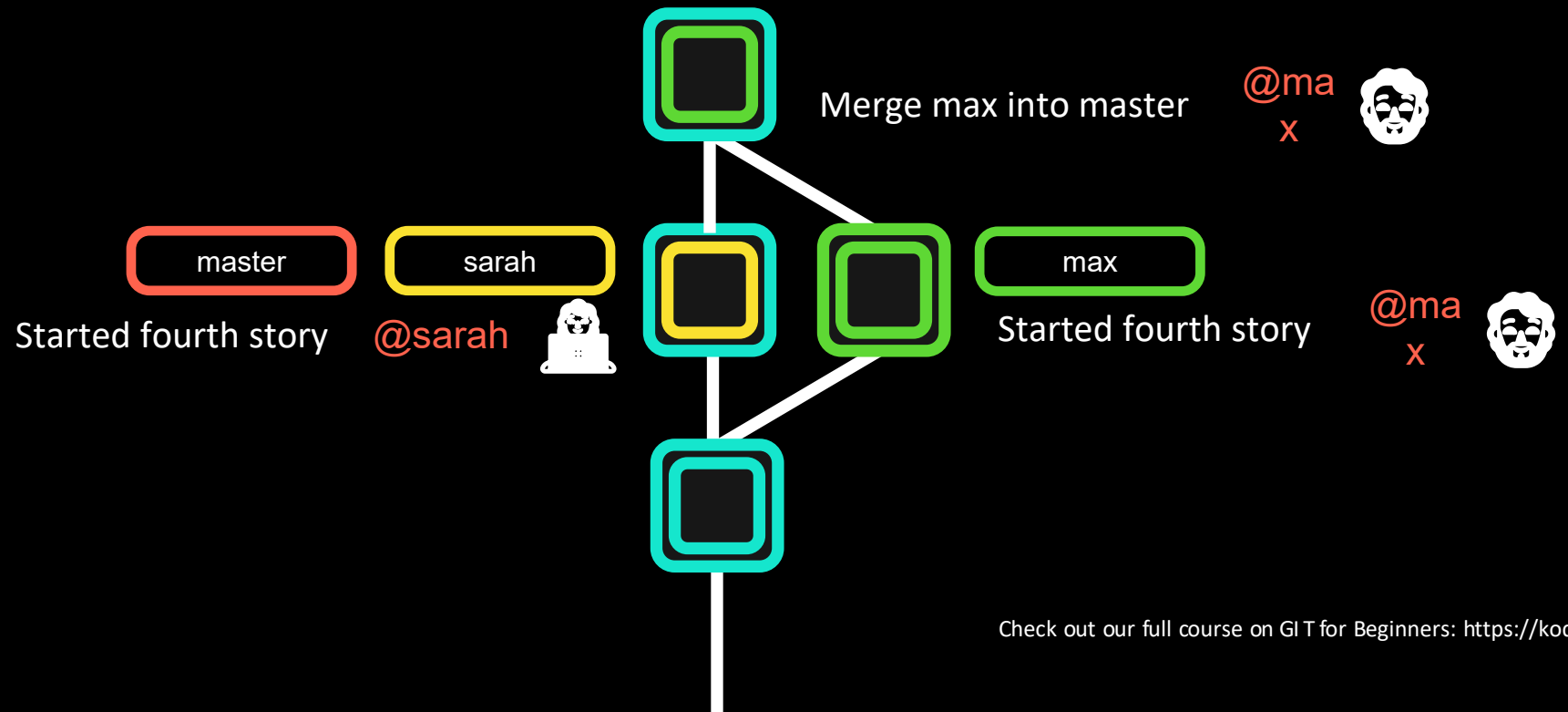
bash

```
$ git add fourth_story.txt
$ git merge
```



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Fork

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other scheduling strategies, provides workflow to choreograph jobs to resolve dependencies, supports distributed computing of tasks, simple to use, powerful, well-documented, welcome you to access to use!

Java ☆ 1,693 ⑂ 204 Built by ☆ 1,113 stars this month

PaddlePaddle / PaddleOCR

☆ Star

Awesome OCR toolkits based on PaddlePaddle （8.6M ultra-lightweight pre-trained model, support training and deployment among server, mobile, embeded and IoT devices)

C++ ☆ 2,532 ⑂ 456 Built by ☆ 1,779 stars this month

iluwatar / java-design-patterns

☆ Star

Design patterns implemented in Java

Java ☆ 59,796 ⑂ 19,133 Built by ☆ 1,321 stars this month

taosdata / TDengine

☆ Star

An open-source big data platform designed and optimized for the Internet of Things (IoT).

C ☆ 12,622 ⑂ 3,268 Built by ☆ 924 stars this month

openai / gpt-2

☆ Star

Code for the paper "Language Models are Unsupervised Multitask Learners"

Python ☆ 12,838 ⑂ 3,168 Built by ☆ 605 stars this month

lyswhut / lx-music-desktop

☆ Star

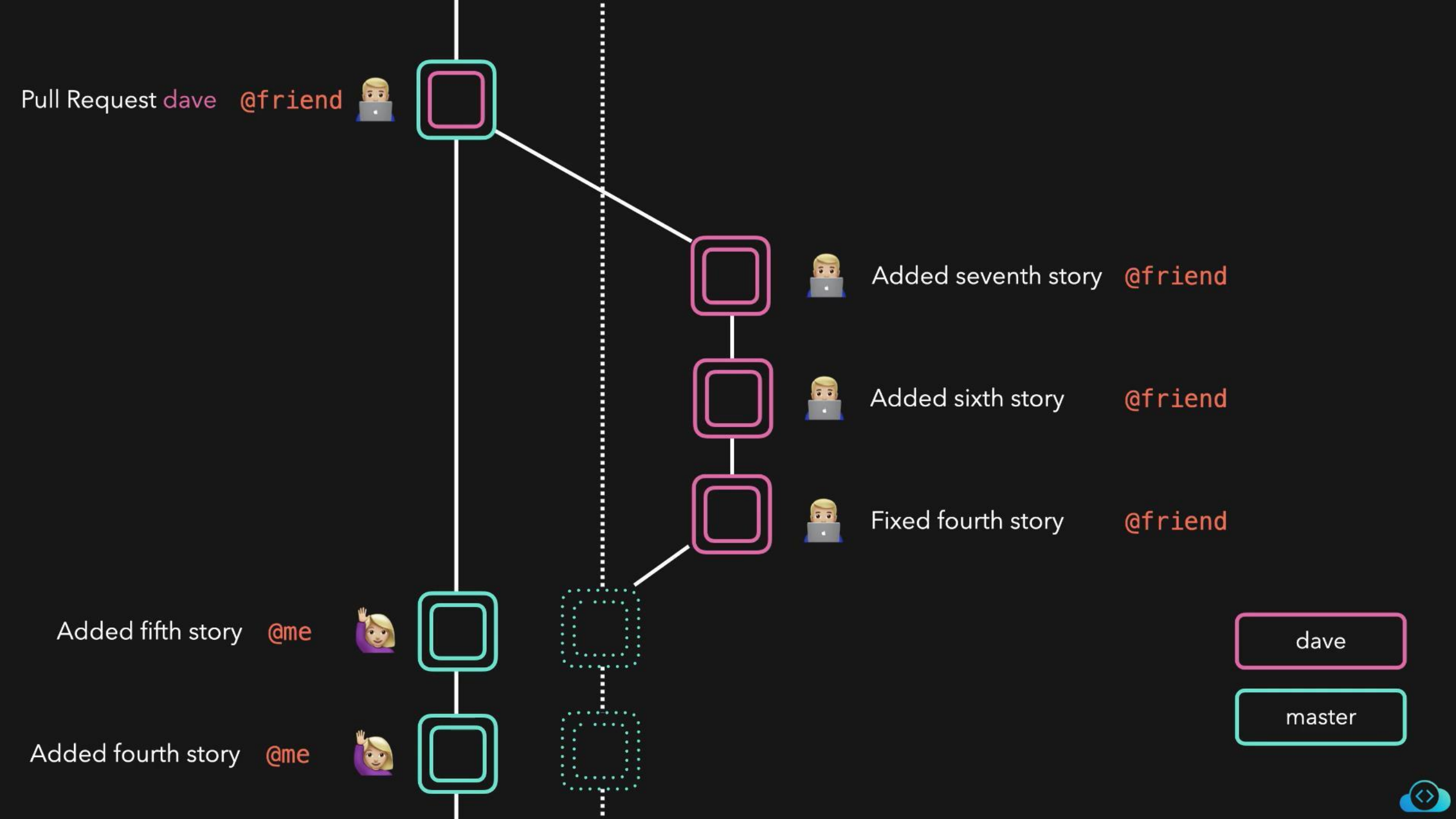
一个基于 electron 的音乐软件

Vue ☆ 7,551 ⑂ 1,299 Built by ☆ 1,129 stars this month

TeamNewPipe / NewPipe

☆ Star

A libre lightweight streaming front-end for Android.


Pull Request dave @friend
Added seventh story @friend
Added sixth story @friend
Fixed fourth story @friend
Added fifth story @me
Added fourth story @me
dave
master

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