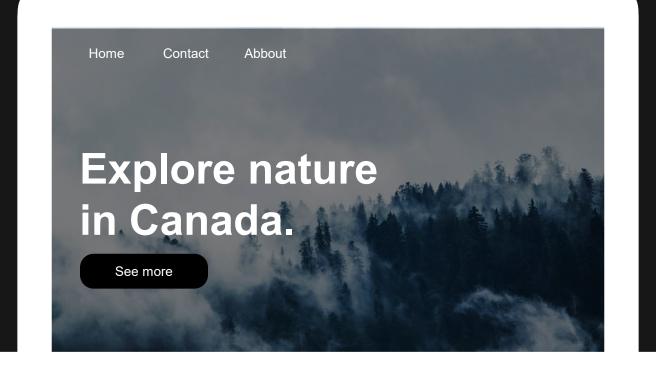


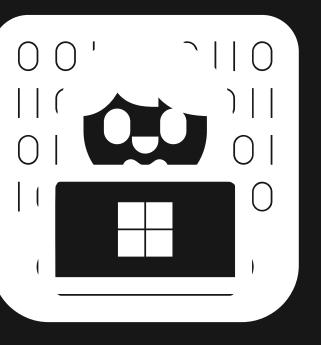
KODEKLOUD







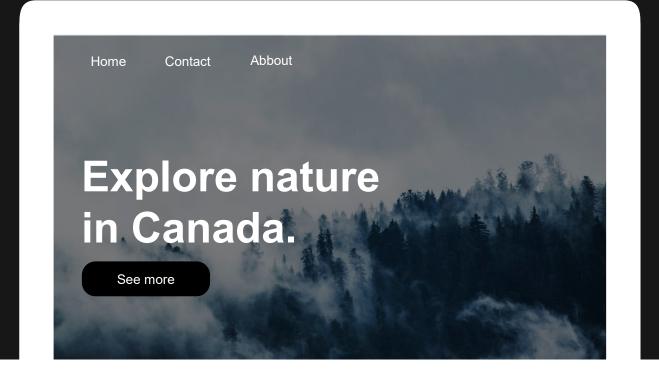


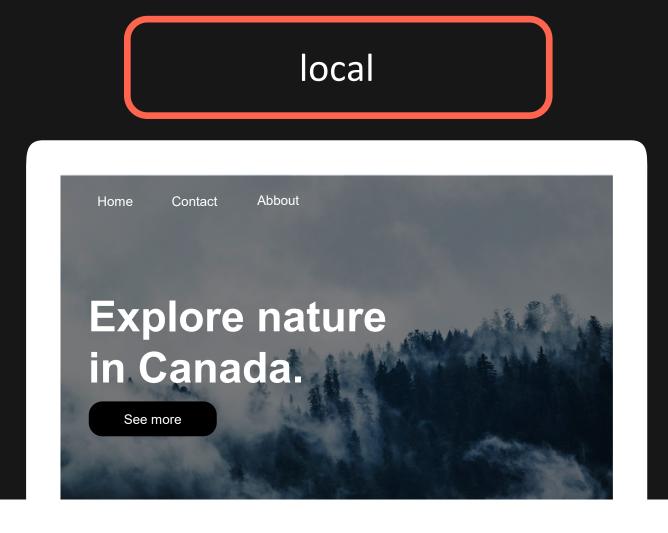


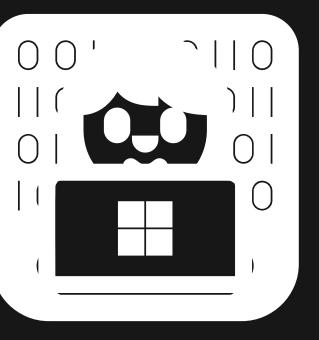




www.mywebsite.com



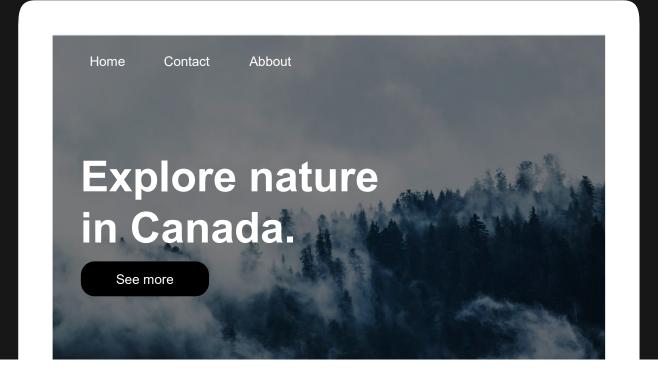


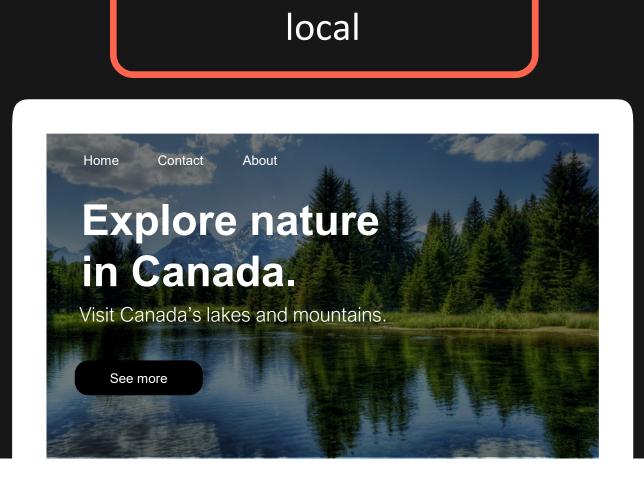


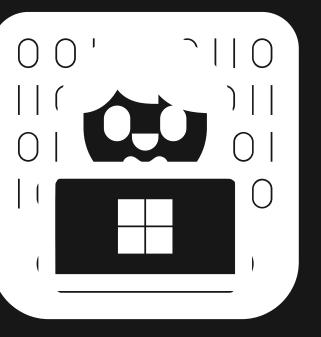




www.mywebsite.com



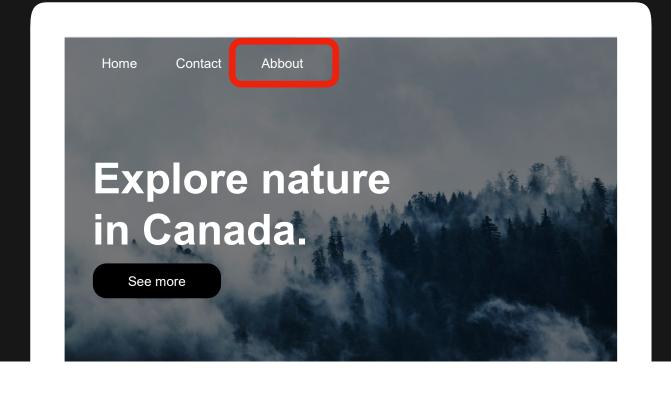






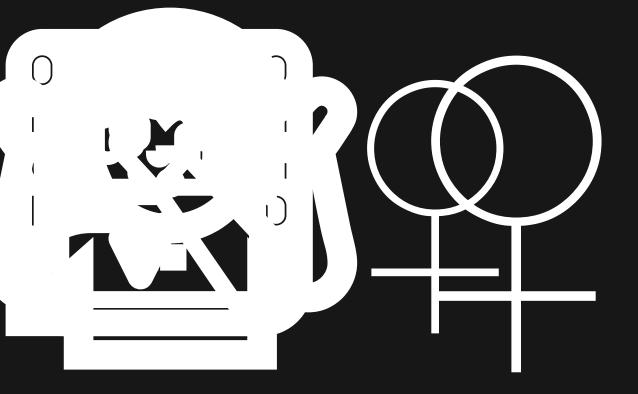
























KODEKLOUD



Git

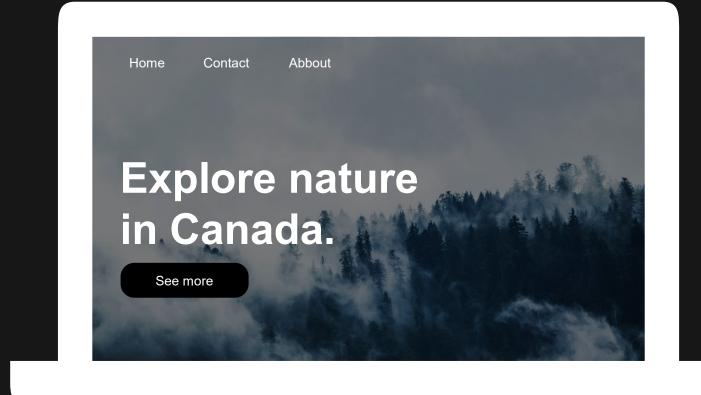
Content tracker

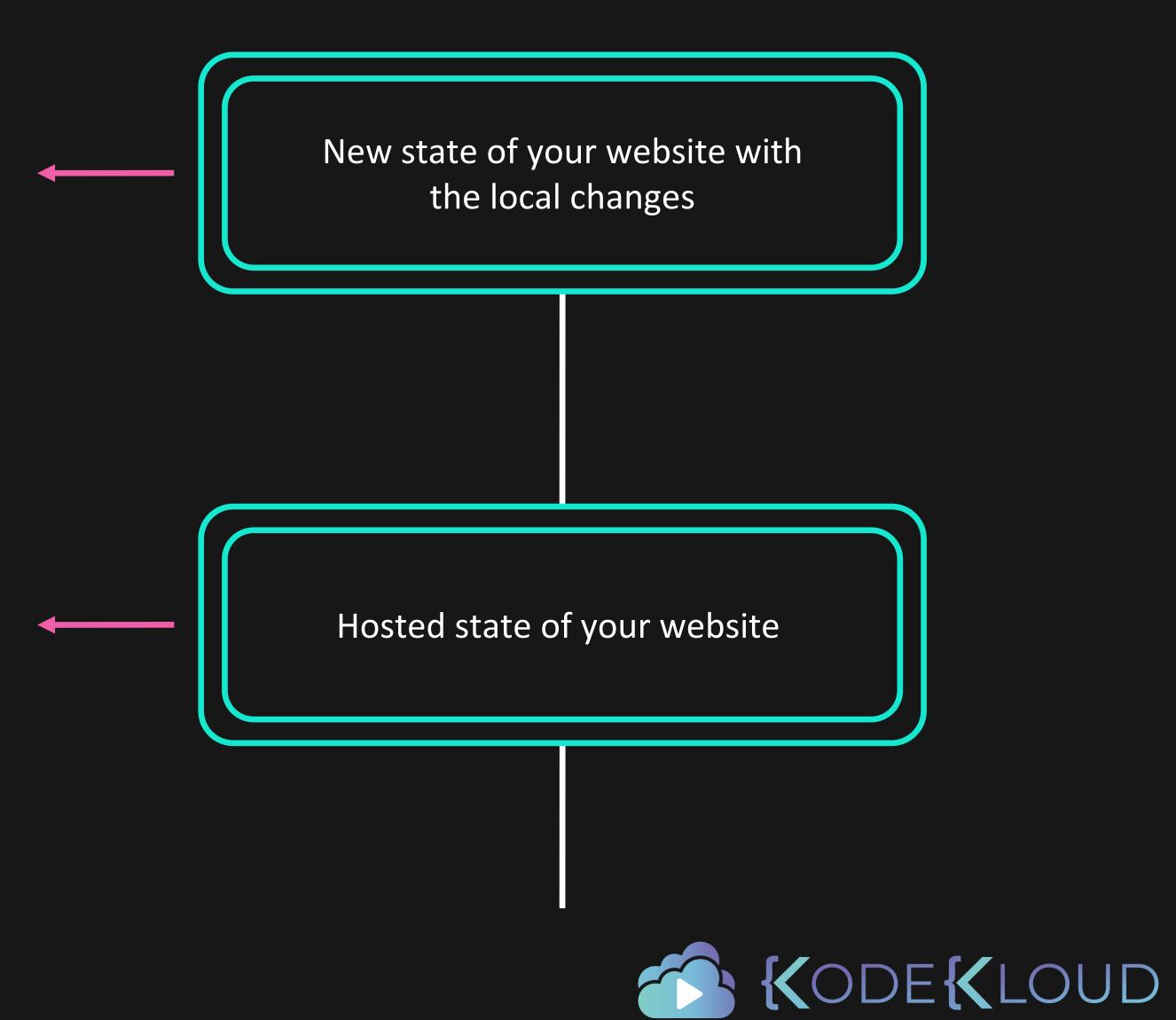
Distributed Version Control System



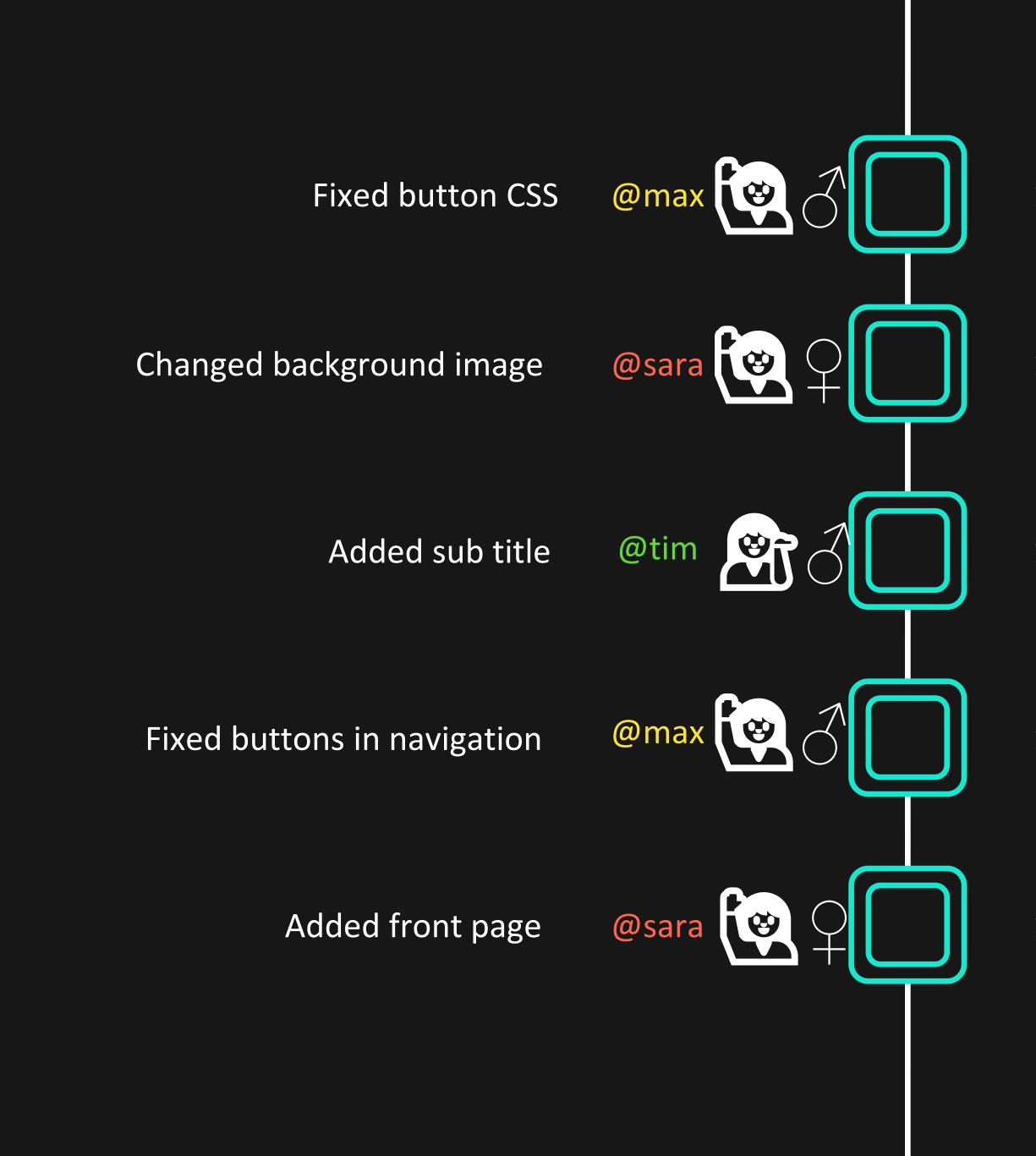












12.23AM

11.15AM

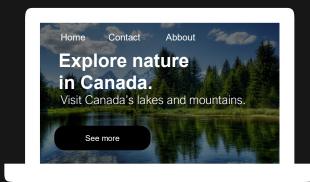
11.05AM

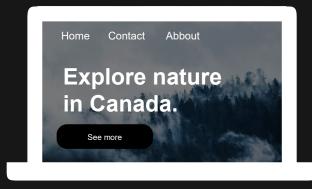
10.45AM

10.24AM





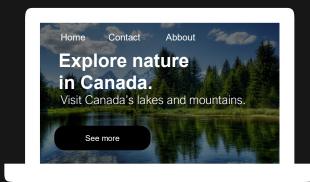


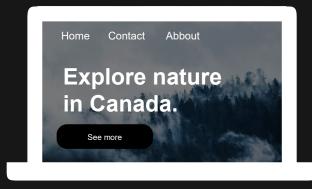


Added front page

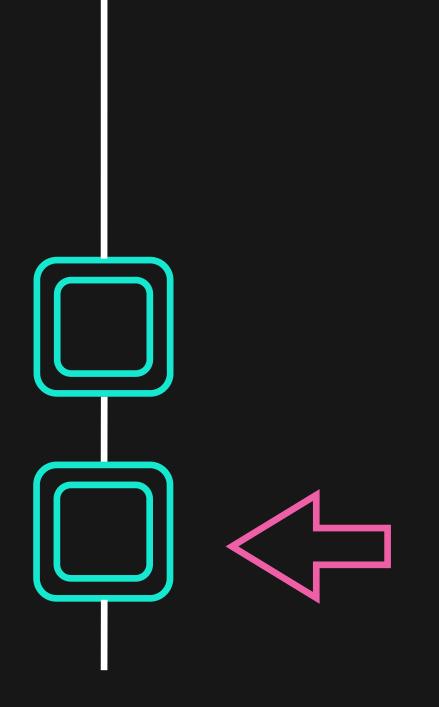






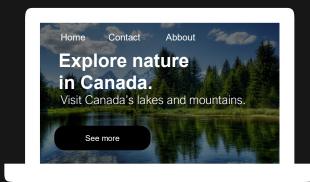


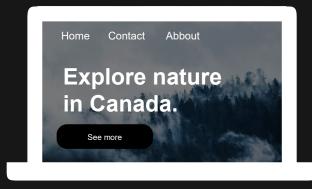
Added front page



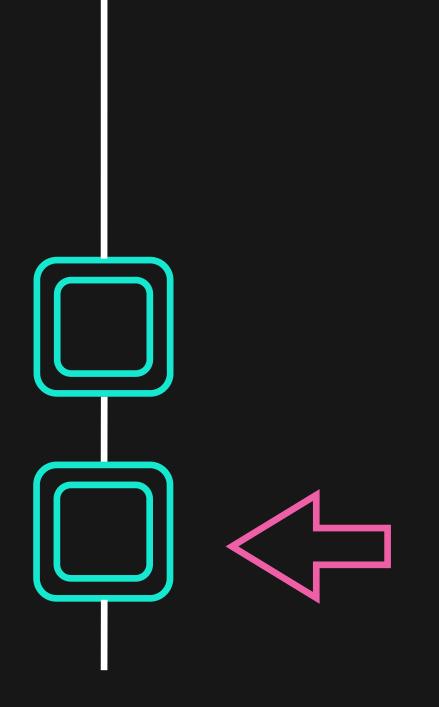






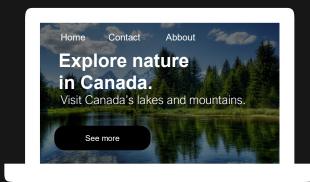


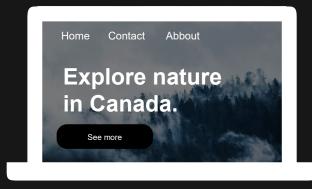
Added front page





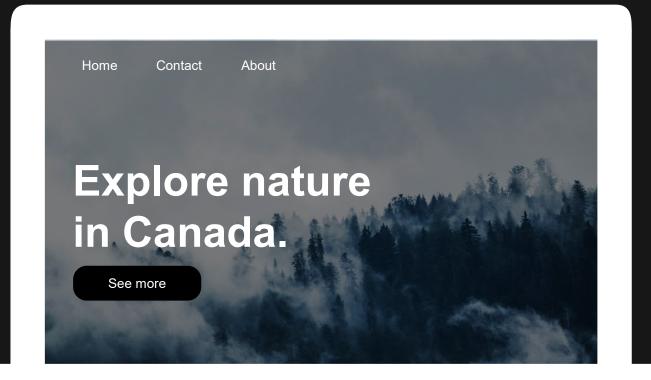




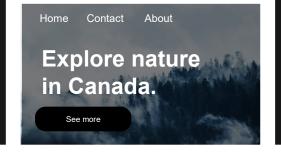


Added front page

www.mywebsite.com

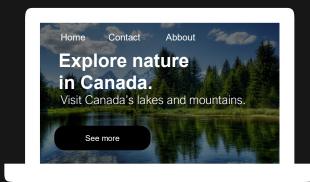


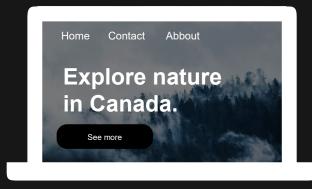
Fixed button typo





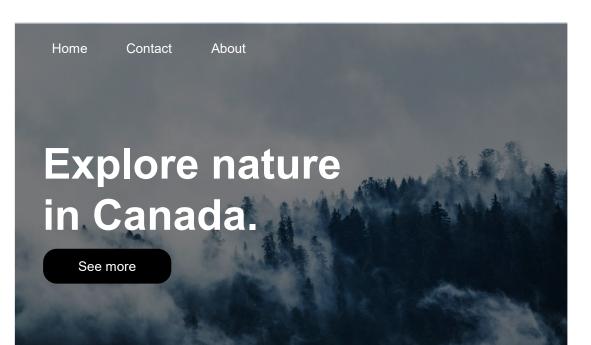






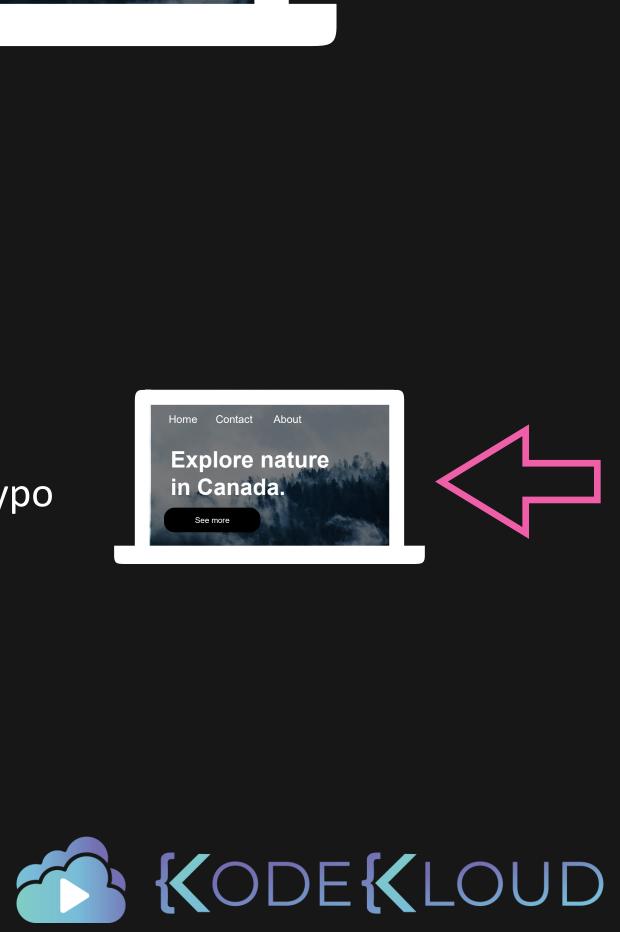
Added front page

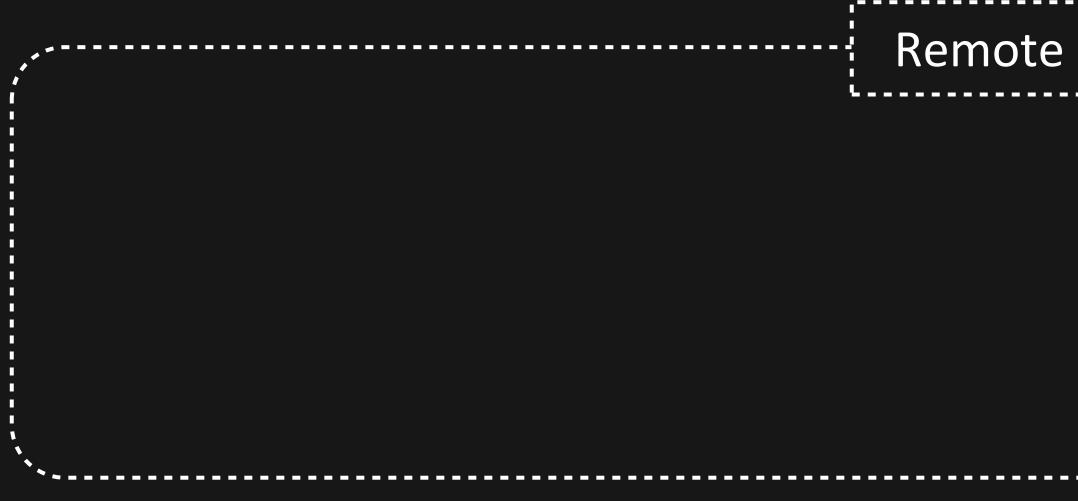
www.mywebsite.com



Fixed button typo







<html>

<body>

<h1>My Website!</h1>

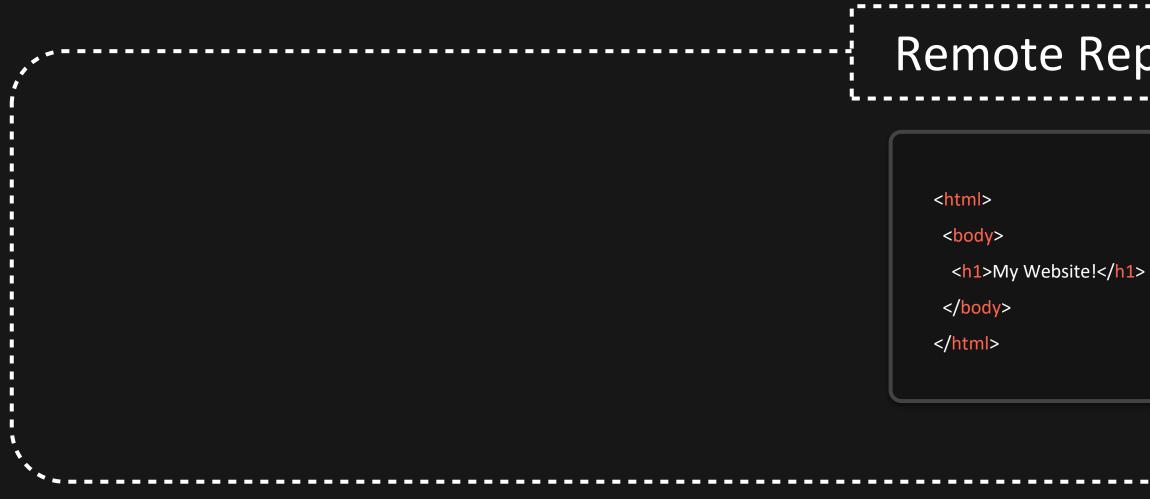
</body>

</html>

Remote Repository







<html>

<body>

<h1>My Website!</h1>

</body>

</html>



Remote Repository



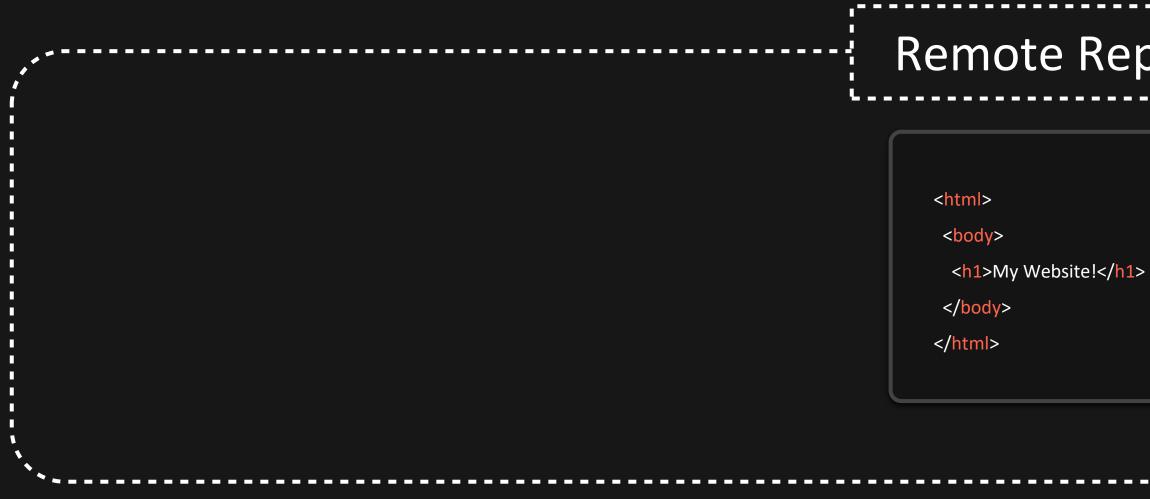
Local Repository











<html>

<body>

<h1>My Website!</h1>

</body>

</html>



Remote Repository



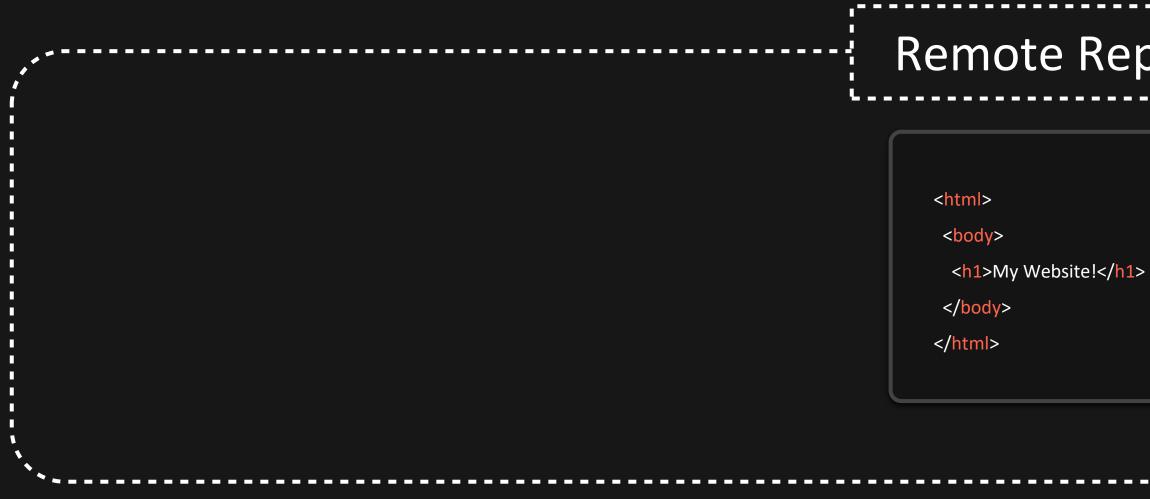
Local Repository











<html>

<body>

<h1>My Website!</h1>

</body>

</html>



Remote Repository



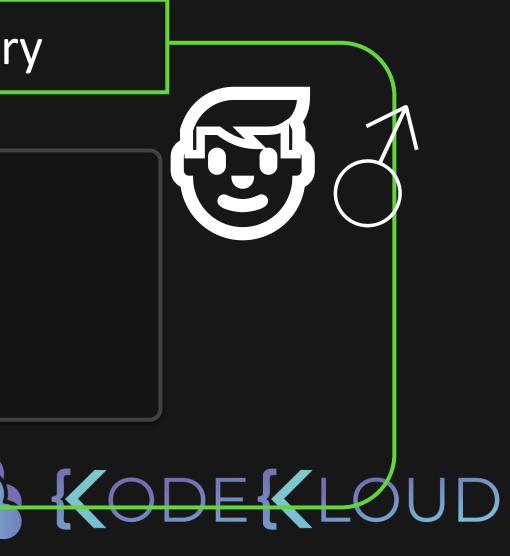
Local Repository

<html>

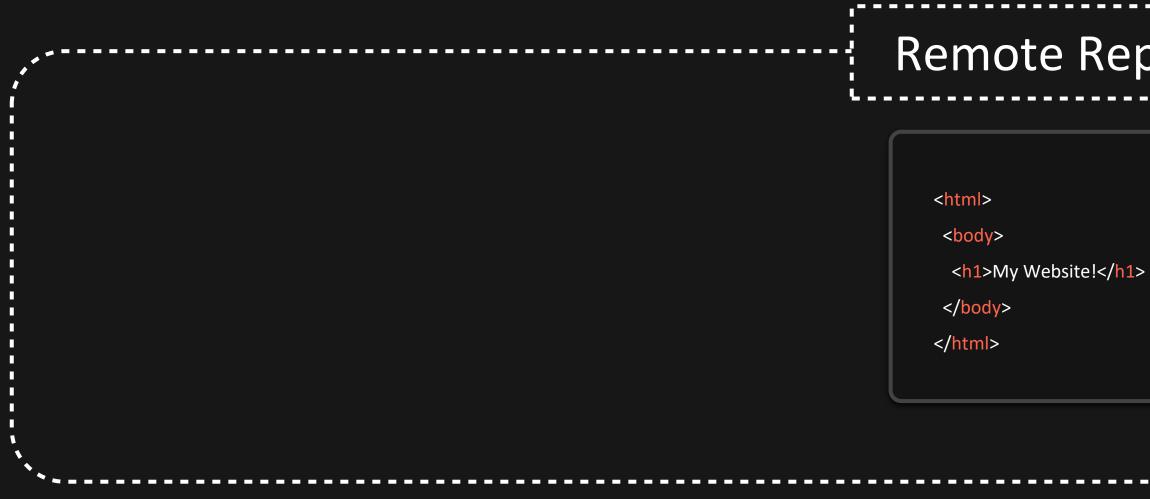
<body>

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









<html>

<body>

<h1>My Website!</h1>

</body>

</html>



Remote Repository



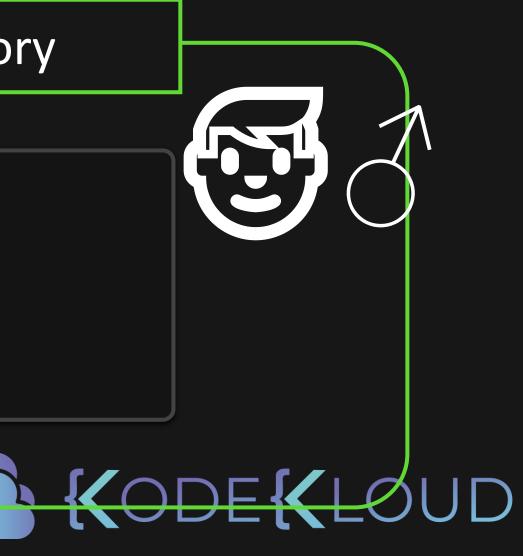
Local Repository

<html>

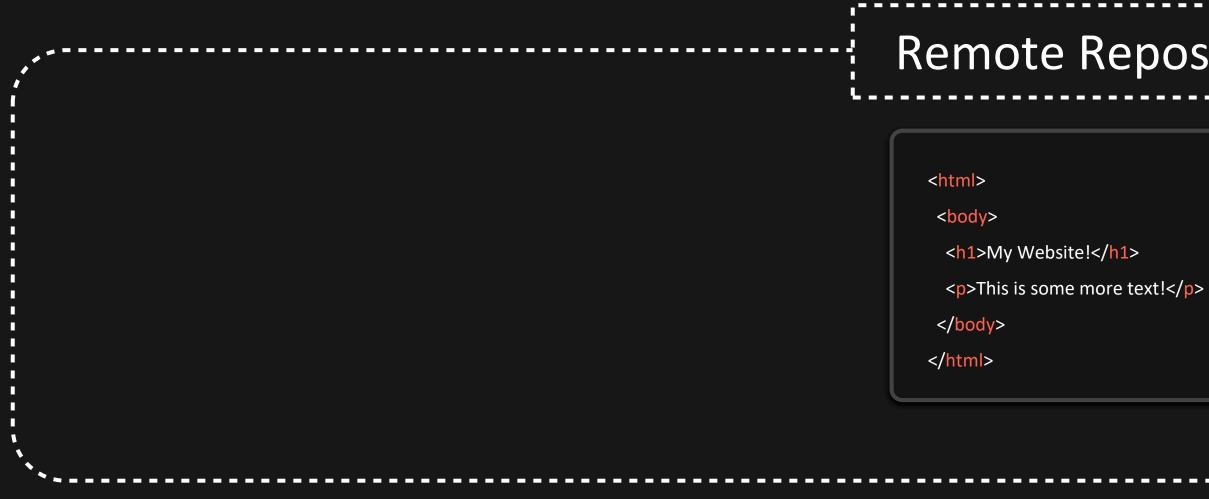
<body>

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









<html>

<body>

<h1>My Website!</h1>

</body>

</html>



Remote Repository



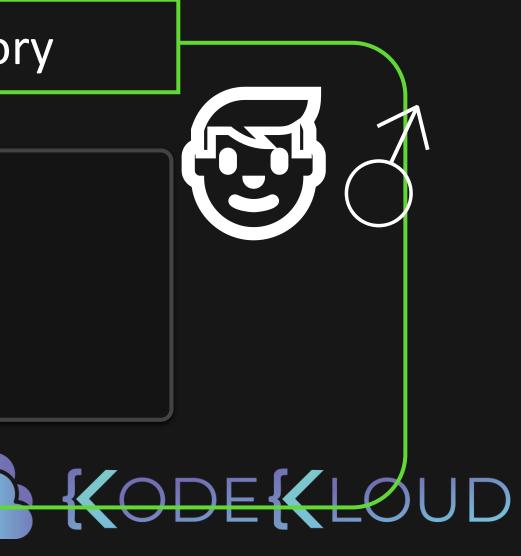
Local Repository

<html>

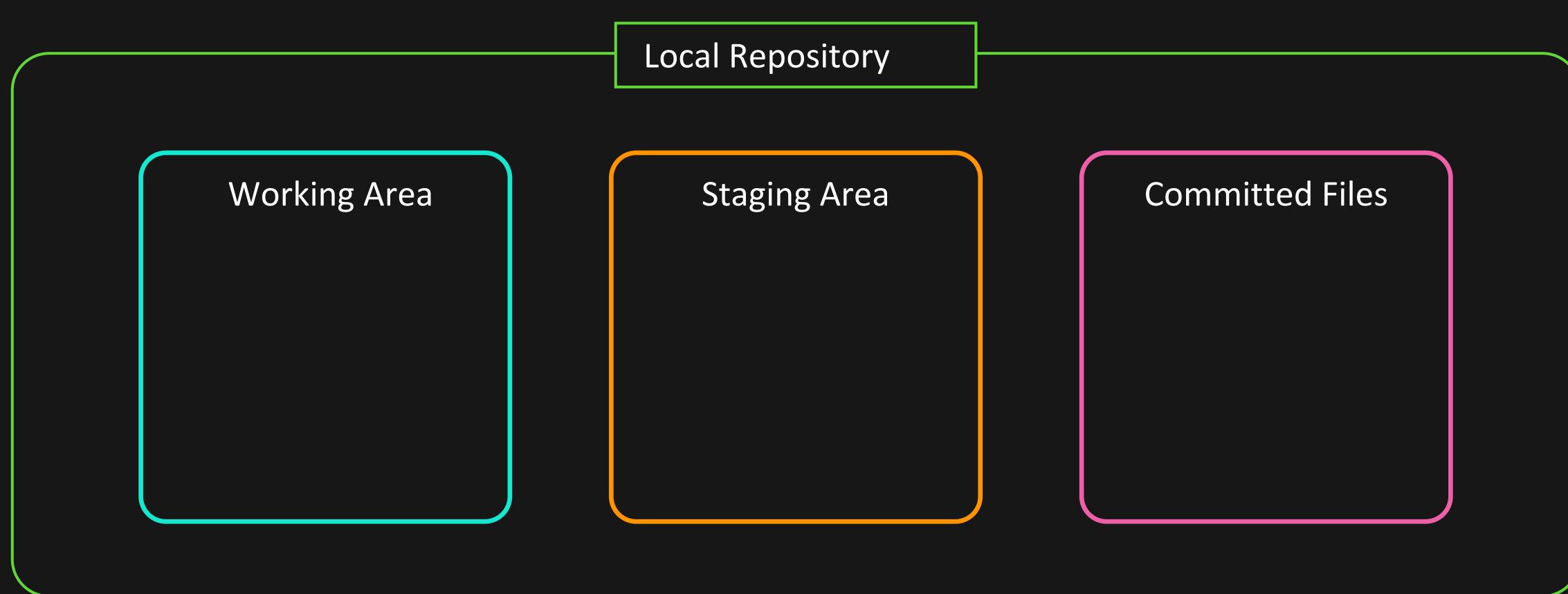
<body>

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



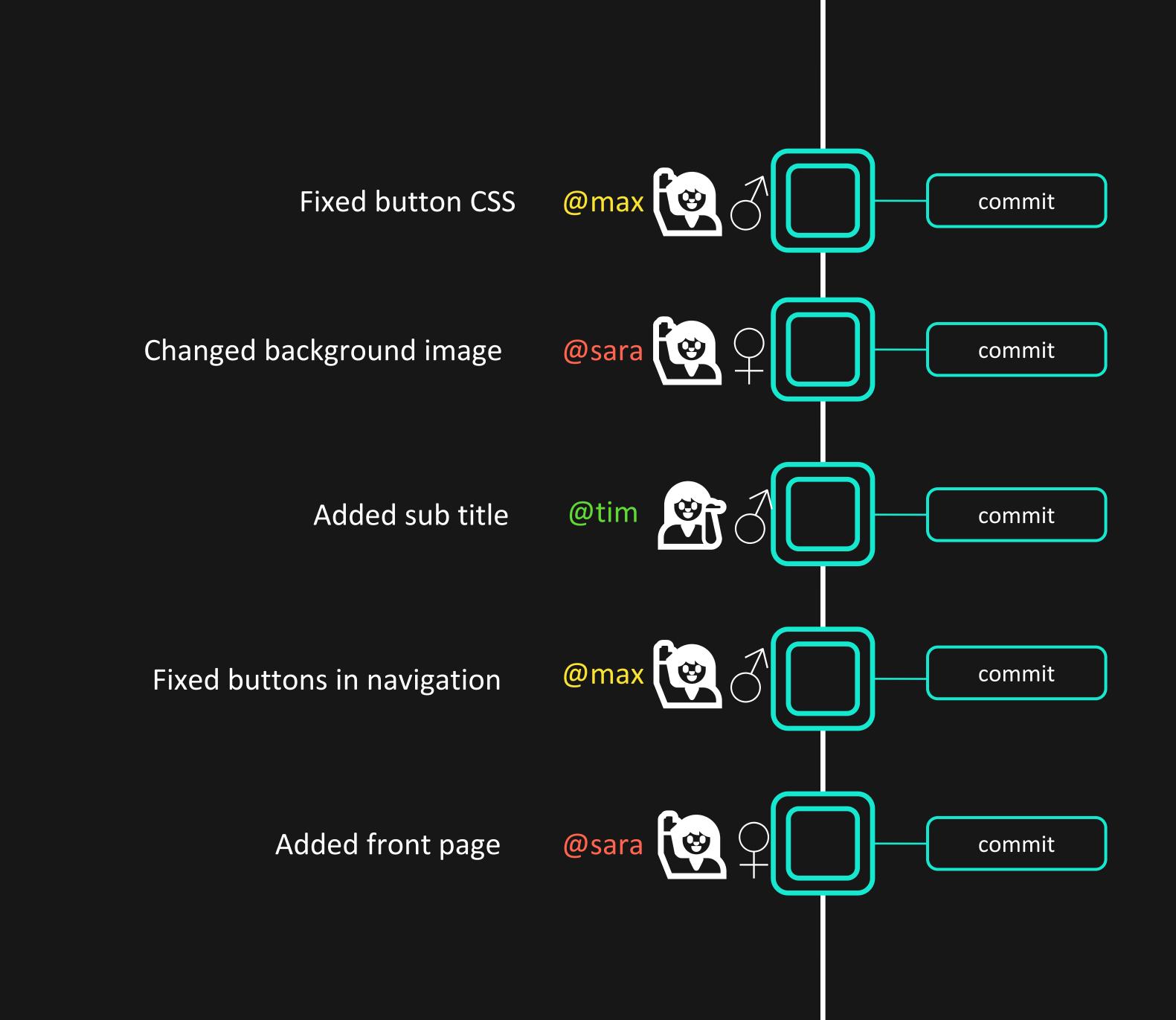






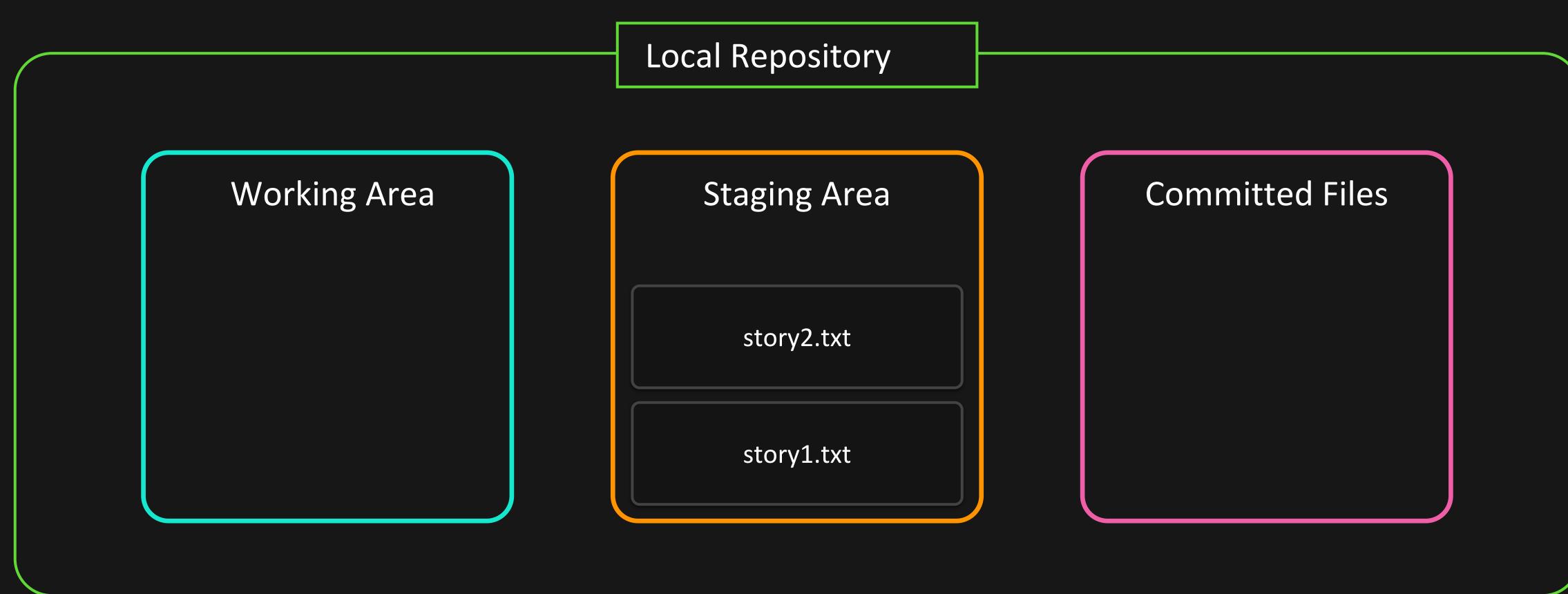


















KODEKLOUD

Initialize Git Repo





\$ git init

Initialized empty Git repository in /Users/lydiahallie/Desktop/myproject/.git/













- \$ touch story1.txt
- \$ echo "This is a beautiful story" >> story1.txt







\$ git status

On branch master

No commits yet

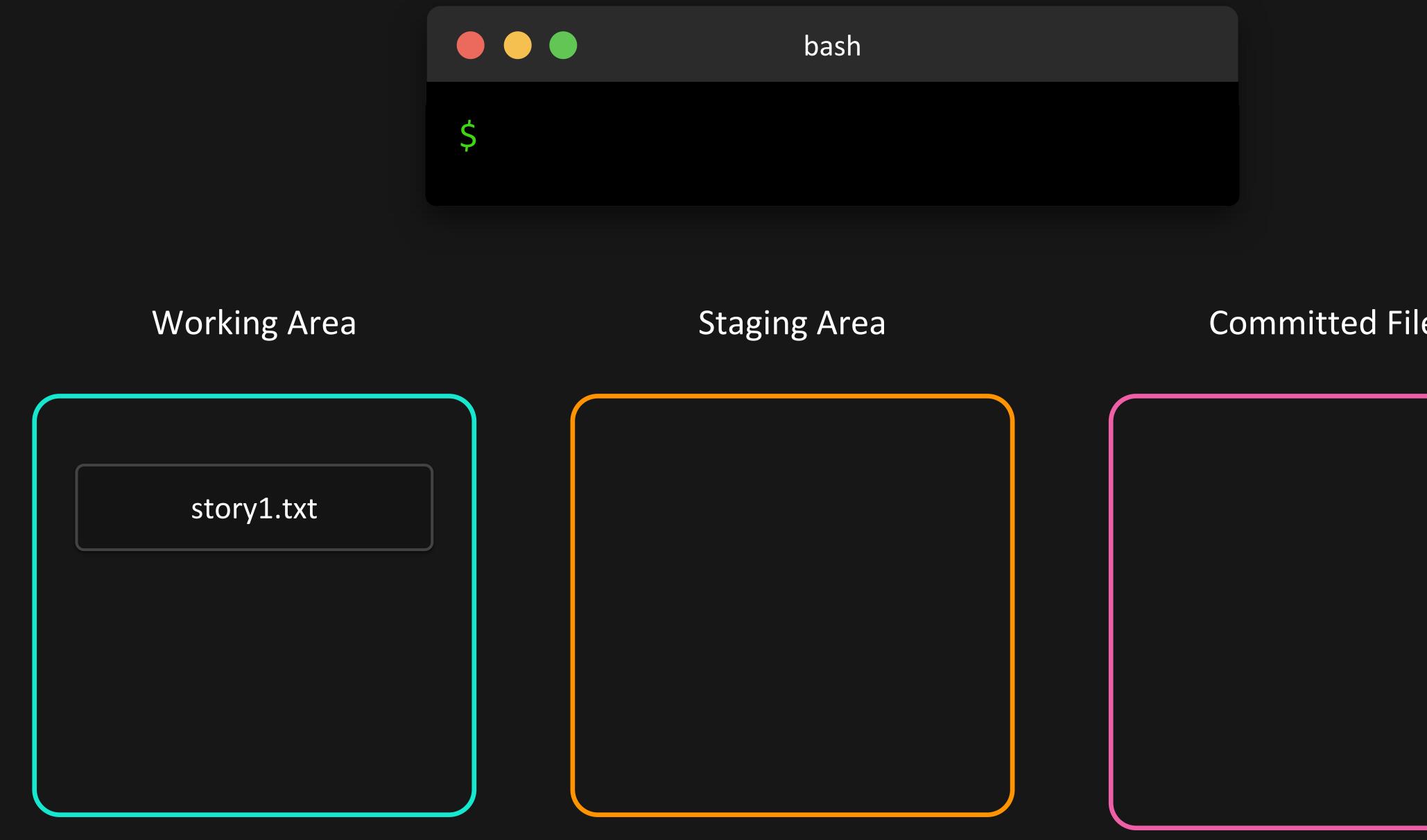
Untracked files:

story1.txt

nothing added to commit but untracked files present



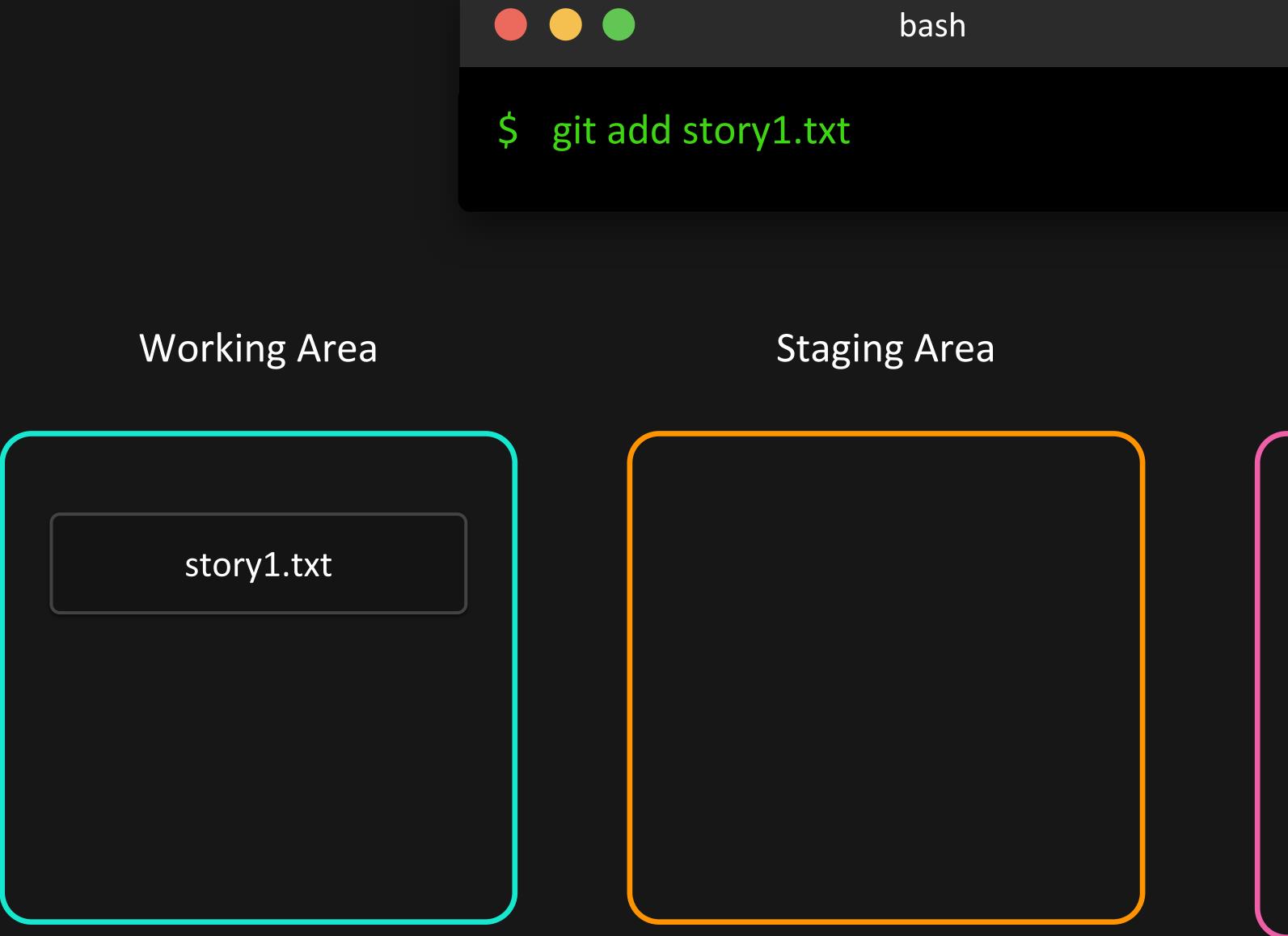




Committed Files





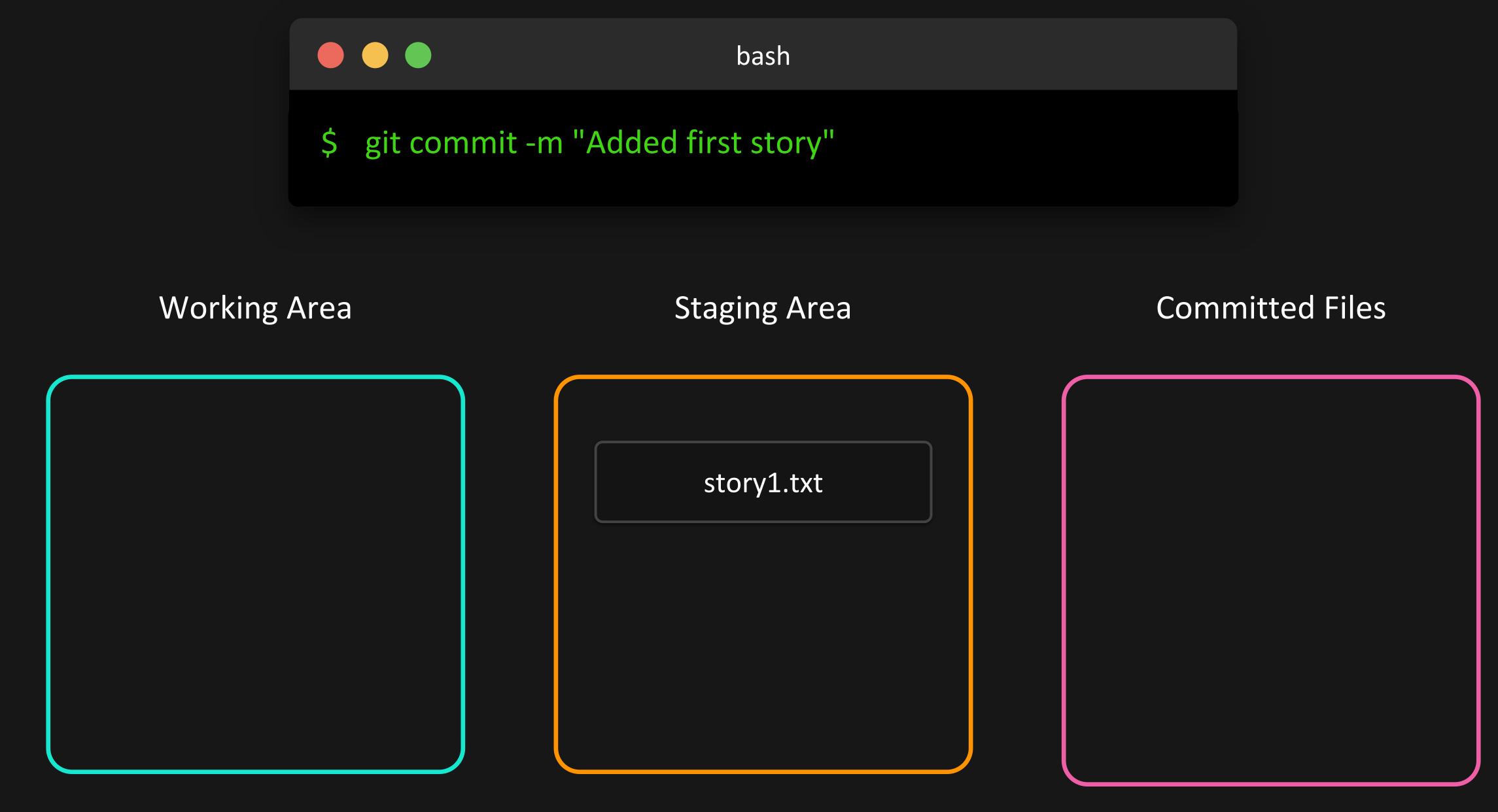


bash

Committed Files





















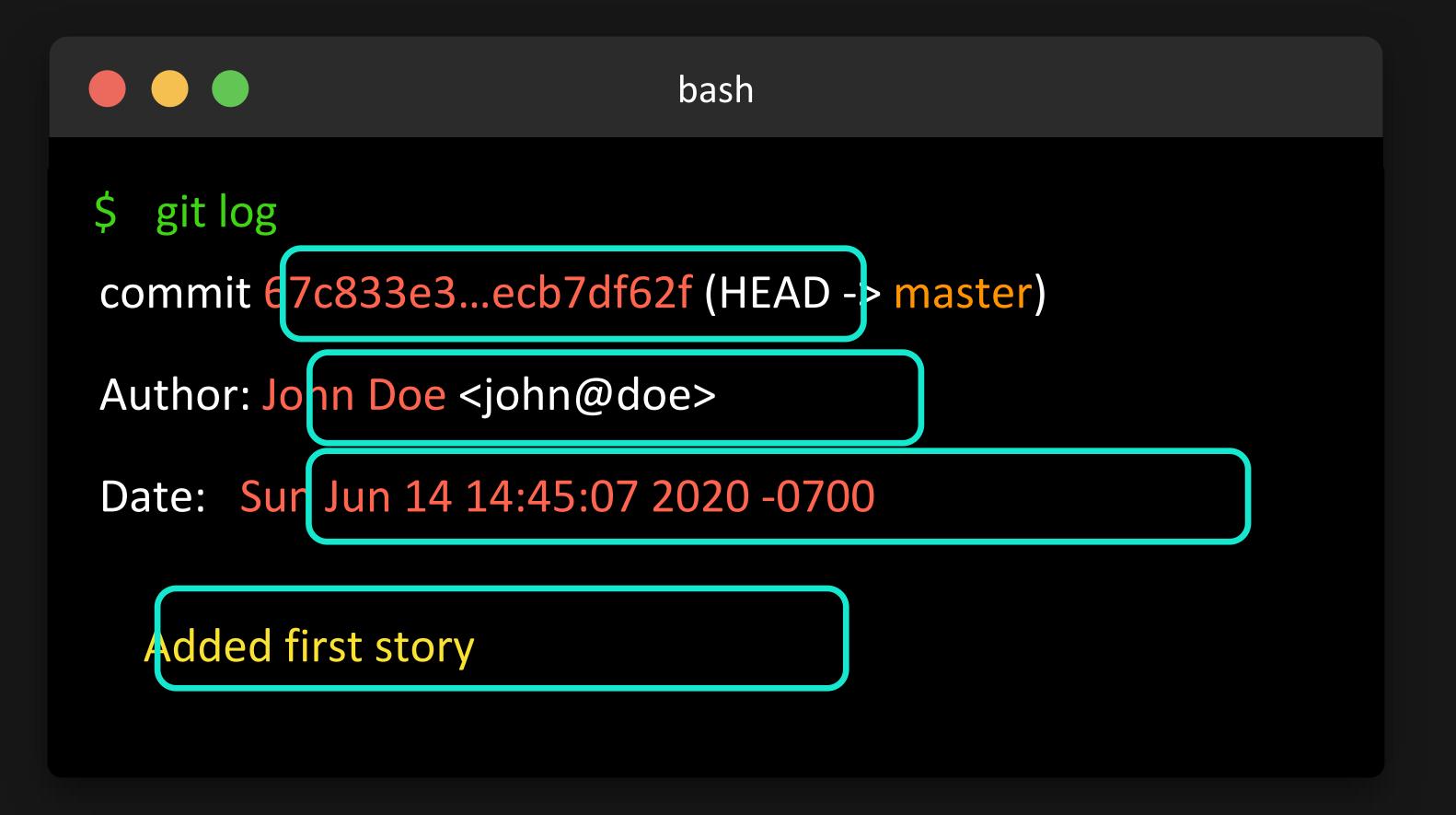
KODEKLOUD



Git log



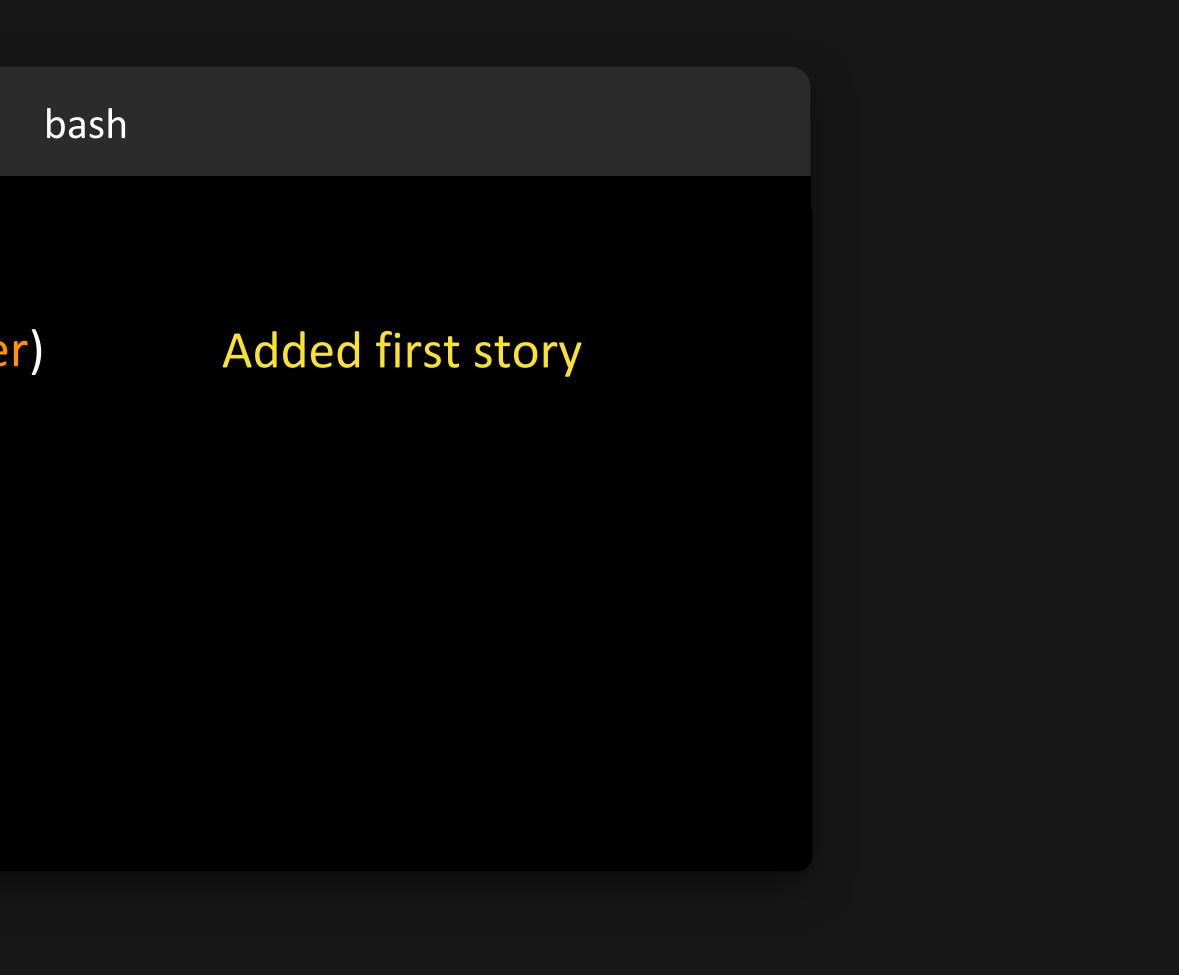








\$ git log --oneline 67c833e (HEAD -> master)









Initializing a remote repo









GitHub

Bitbucket









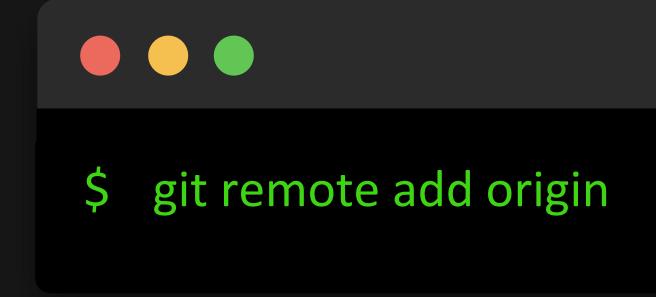
Bitbucket

Connection String

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





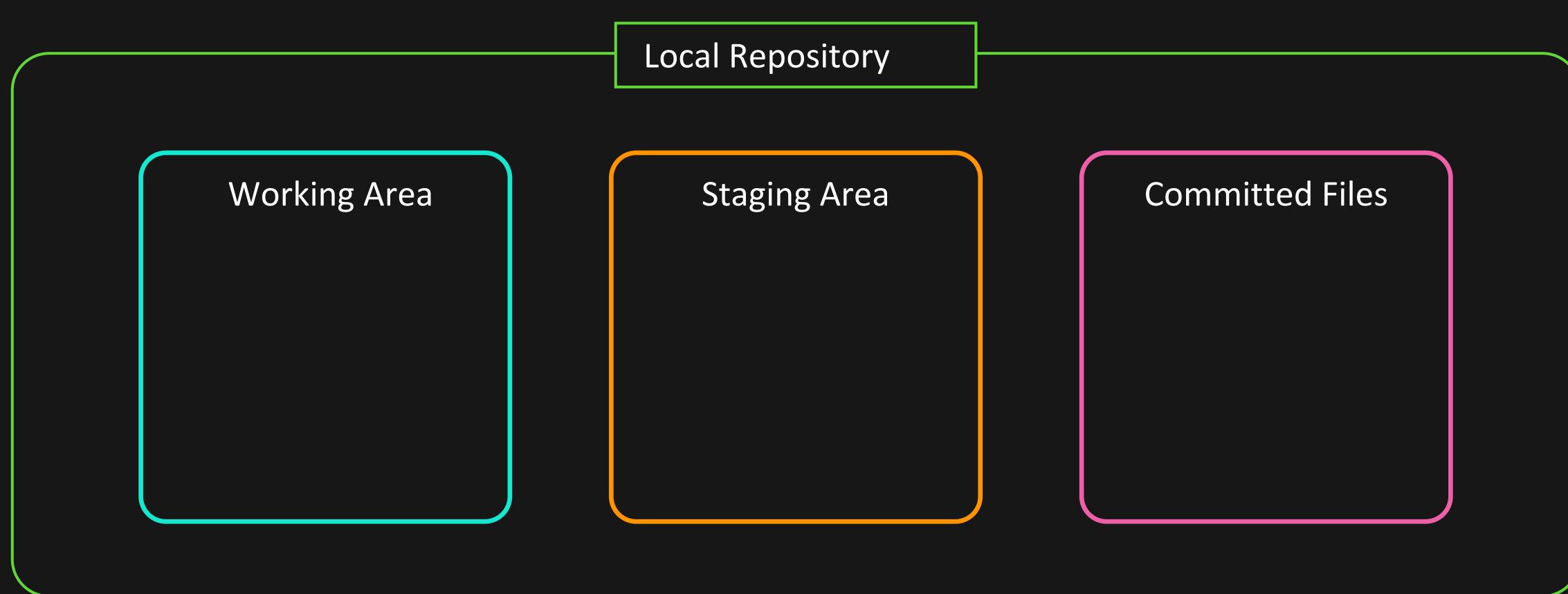


bash

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

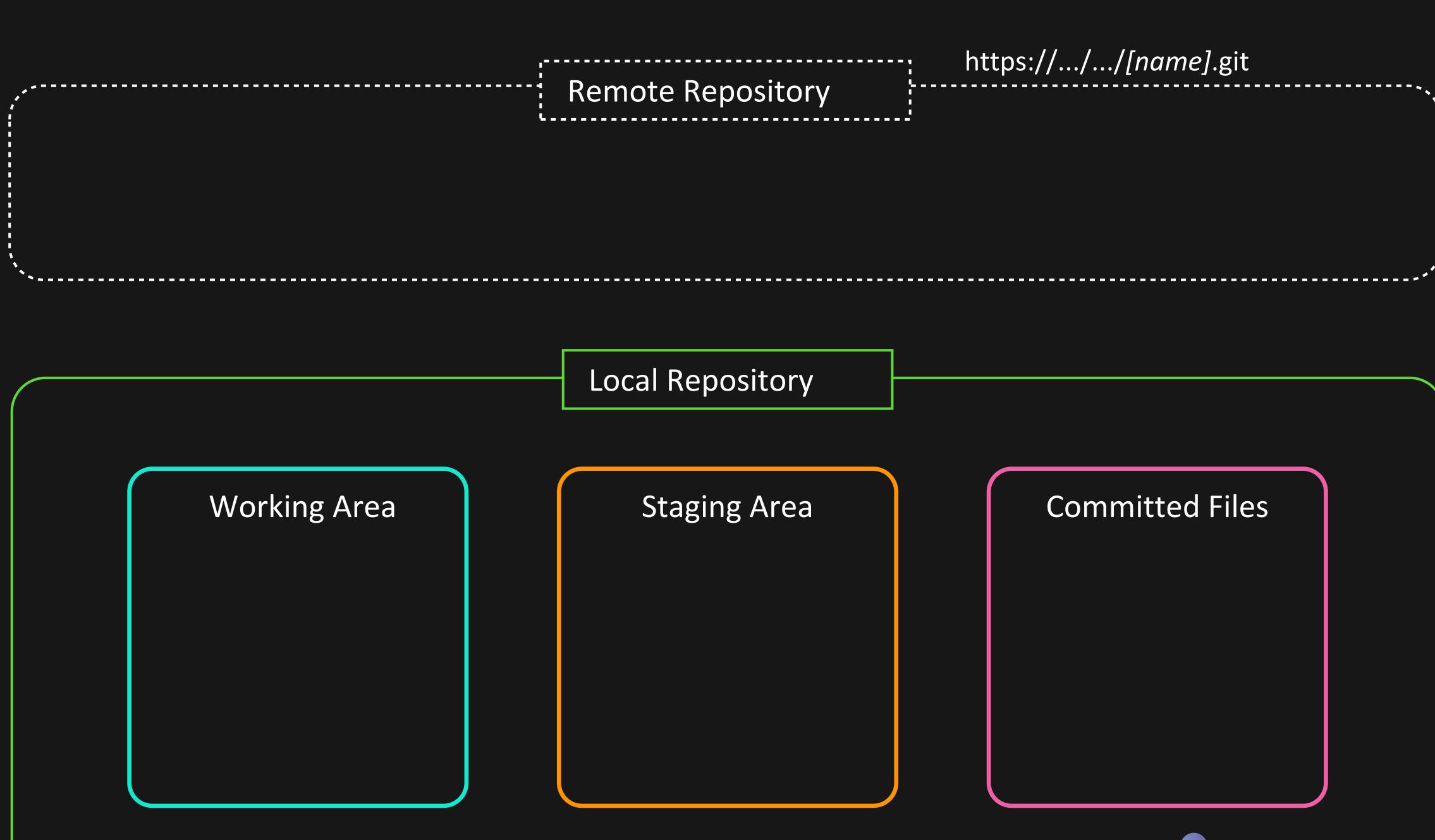
















\$ git remote -v origin https://.../[name].git (fetch) origin https://.../[name].git (push)



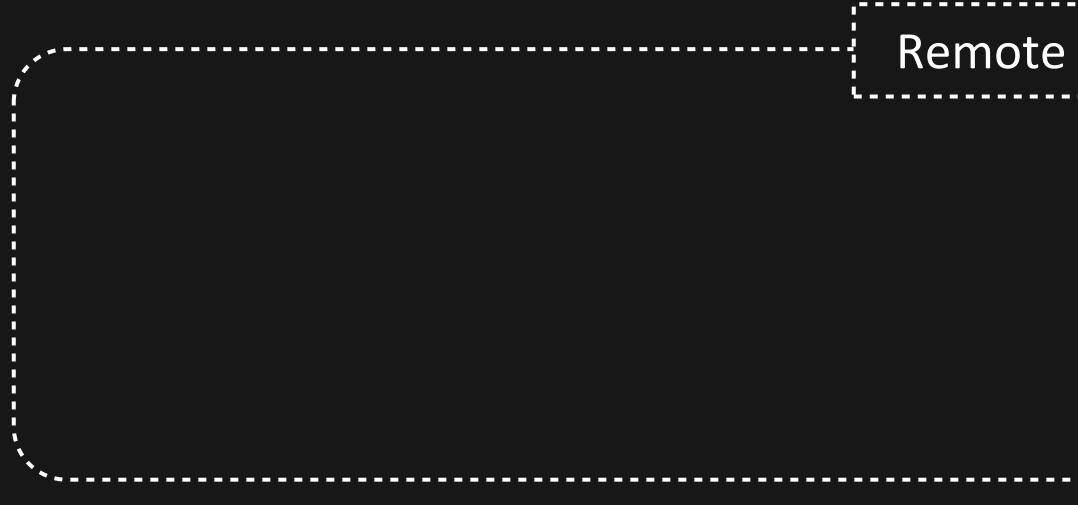












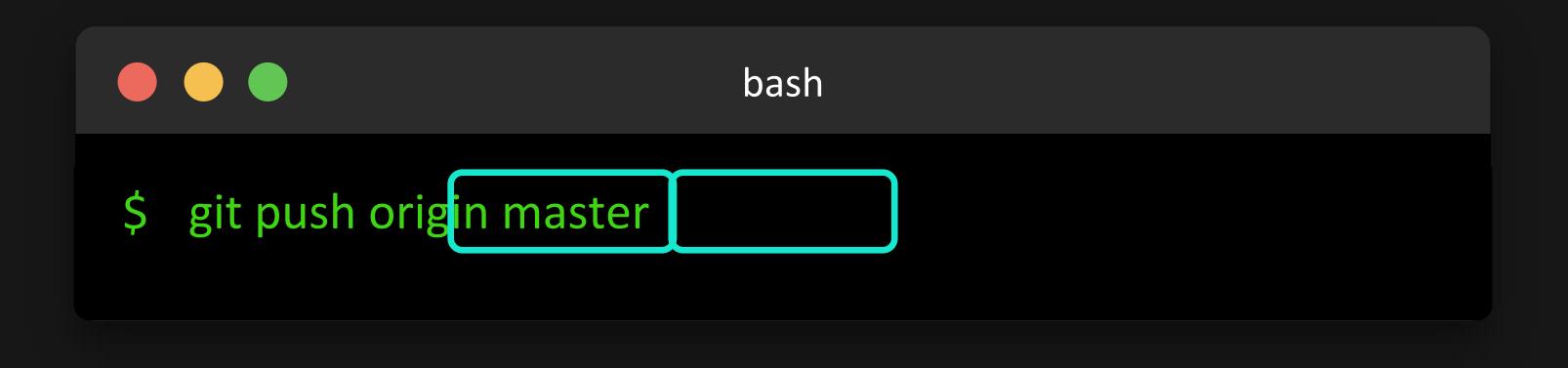


Remote Repository

Local Repository





















E





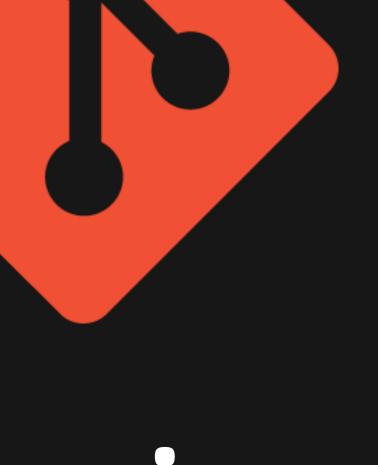
Added first story @me

local remote	





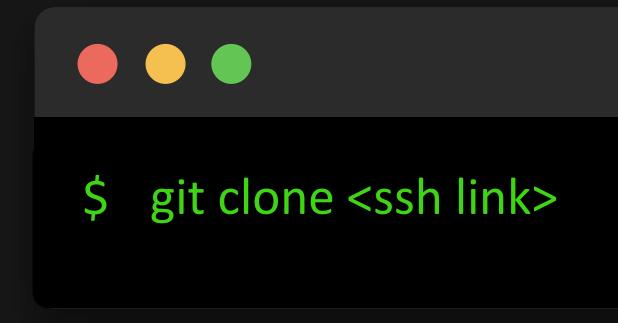










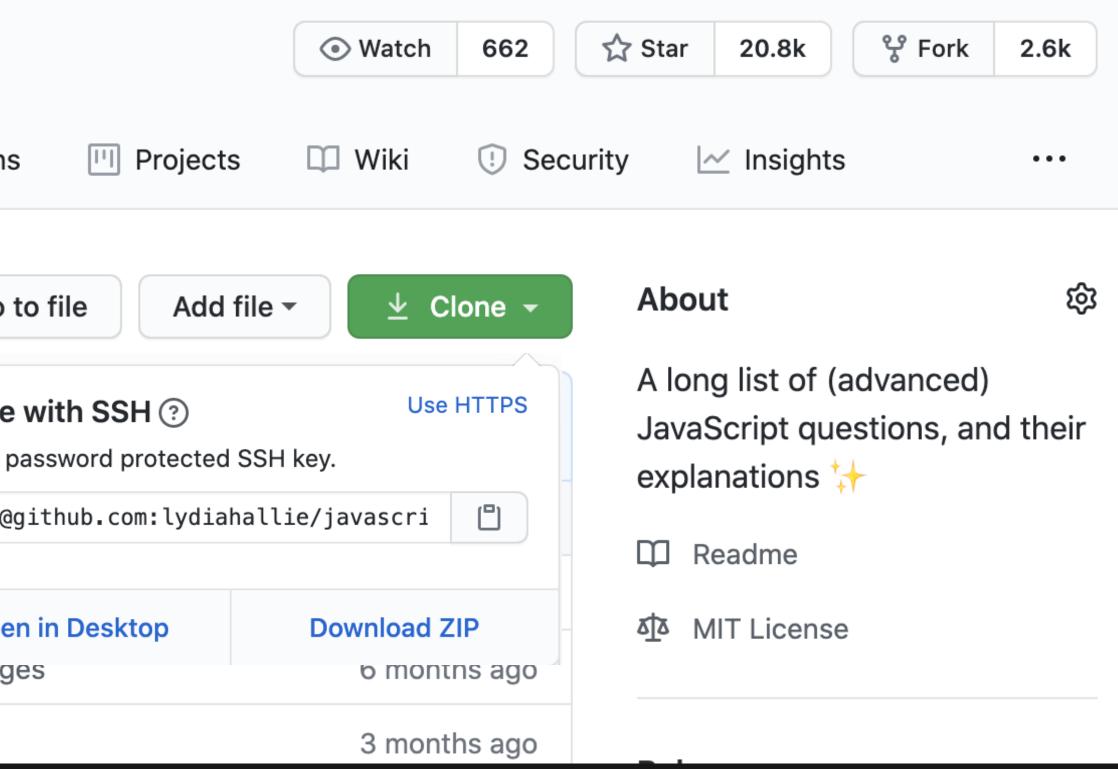






☐ Iydiahallie / javascript-questions

<> Code	! Issues 35	11 Pull requests 27	Actions
ះ Branch:	master 👻		Go
🔮 lydiaha	Ilie committed ac11	fc96 11 days ago 🛛 …	Clone Use a p
ar-AR		Update type list in questic	git@
ar-EG		Typo correction of serialis	0.0
bs-BS		Update README for other 1	Ope anguag
de-DE		Update type list in question	า 34







\$ git clone git@github.com:.....git

Cloning into 'remote-repo'...

remote: Enumerating objects: 59, done.

remote: Counting objects: 100% (59/59), done.

remote: Compressing objects: 100% (43/43), done.

remote: Total 2948 (delta 28), reused 18 (delta 6) Receiving objects: 100% (2948/2948), 1.93 MiB | 2.53 MiB/s, done.

Resolving deltas: 100% (1526/1526), done.







\$ 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



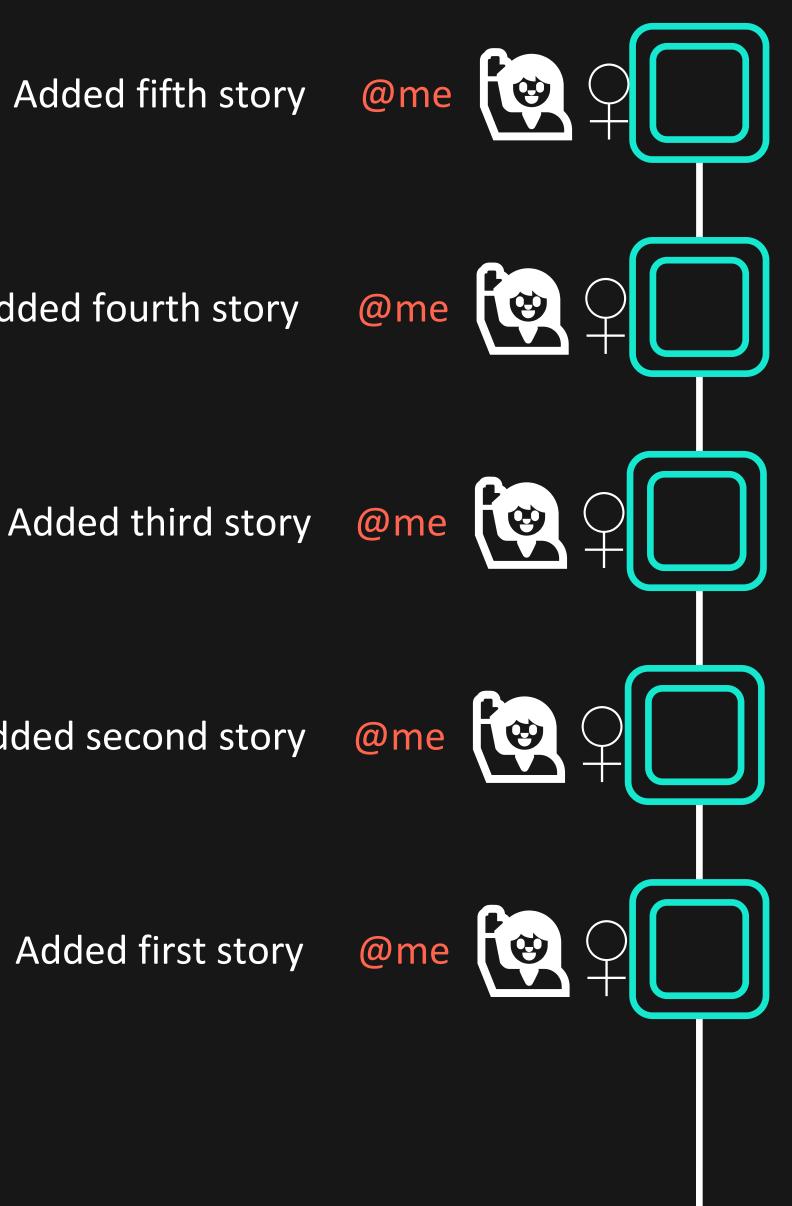








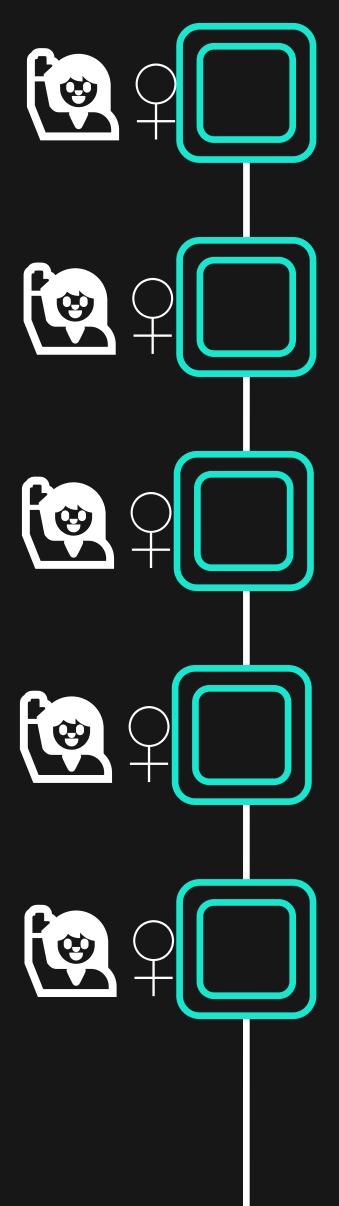


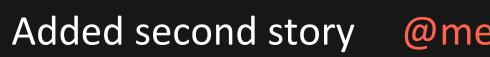


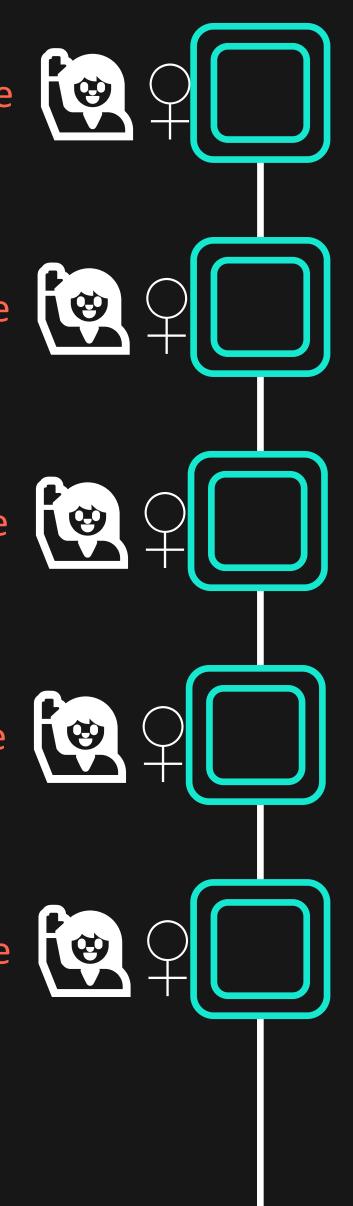






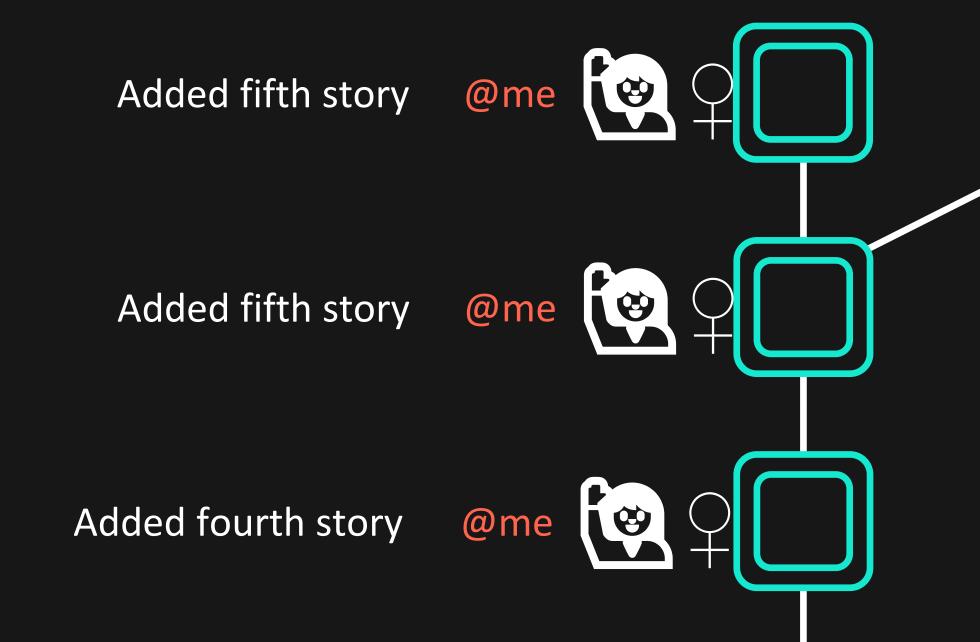








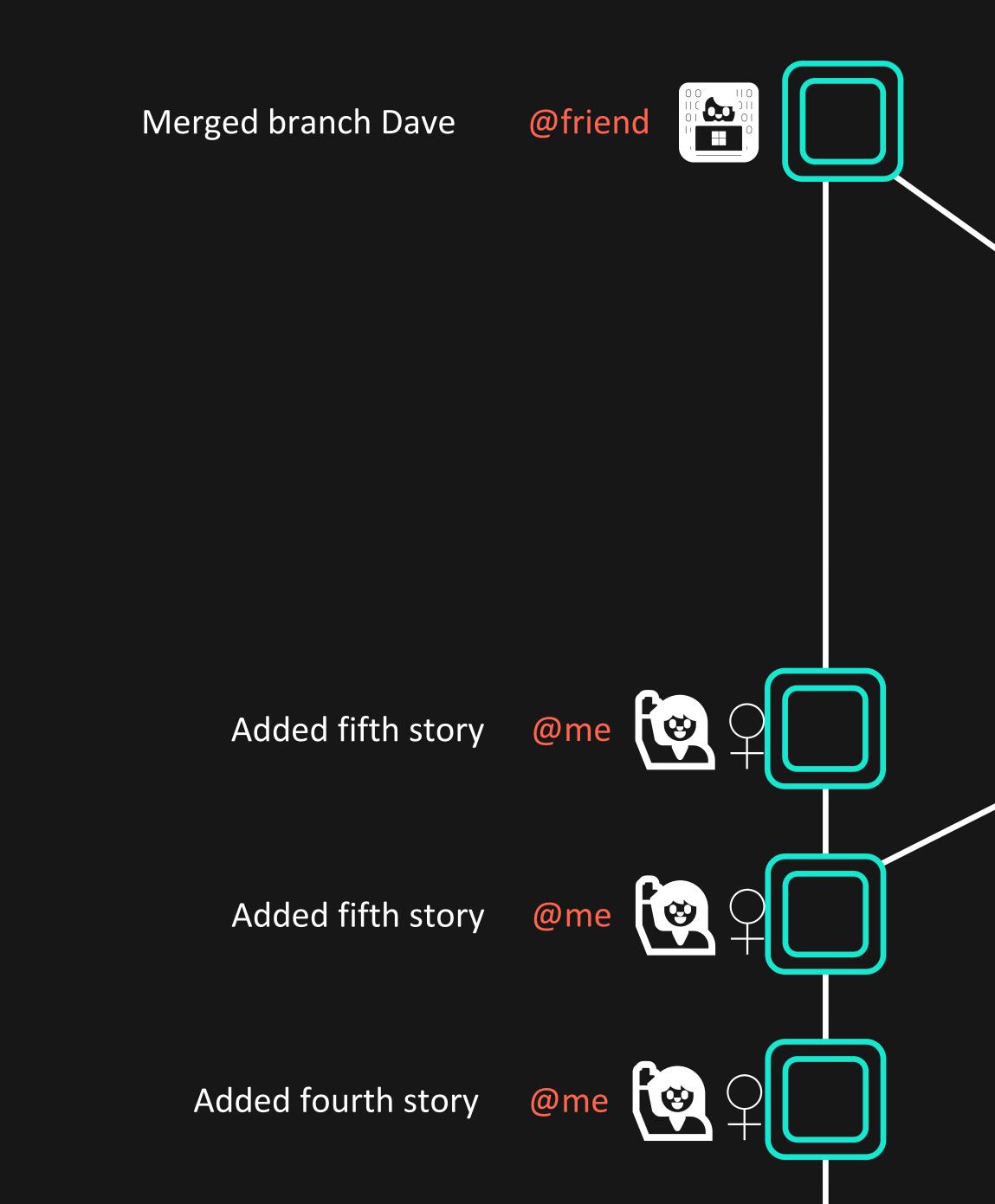








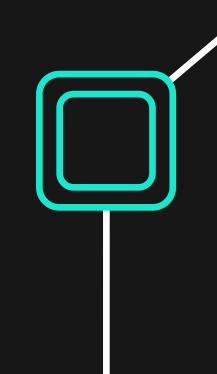


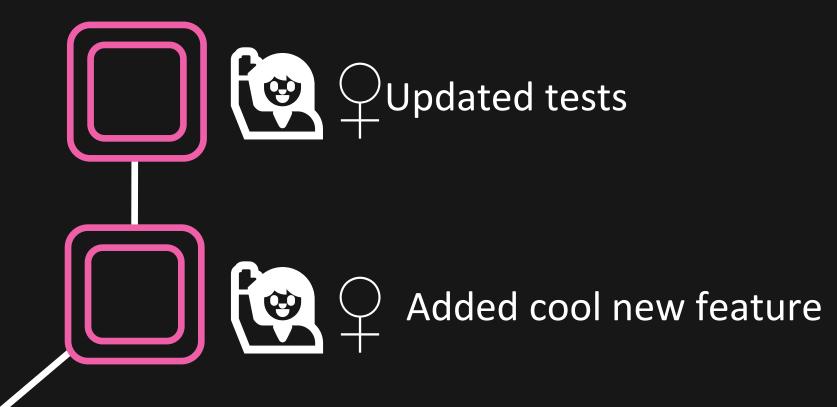






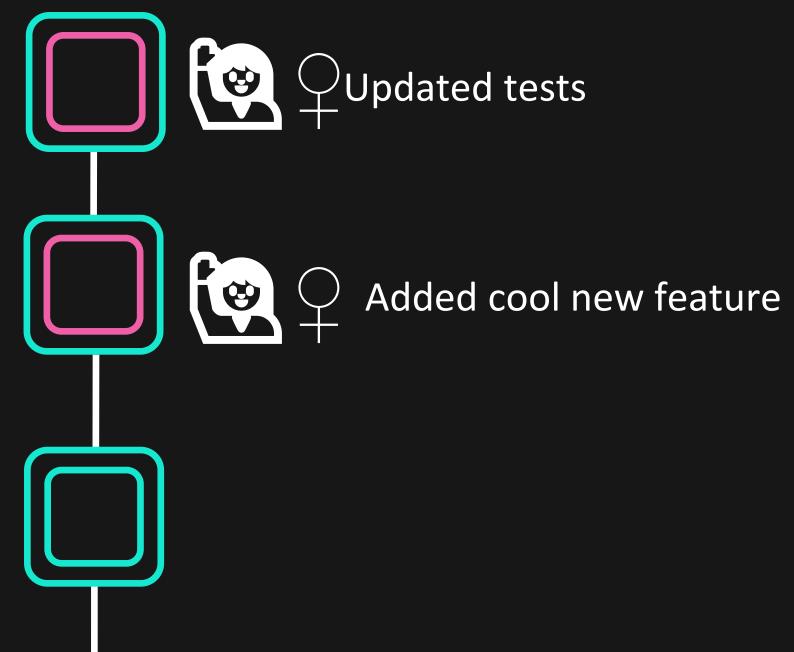


















\$ git checkout -b sarah
Switched to a new branch 'sarah'

\$ git branch

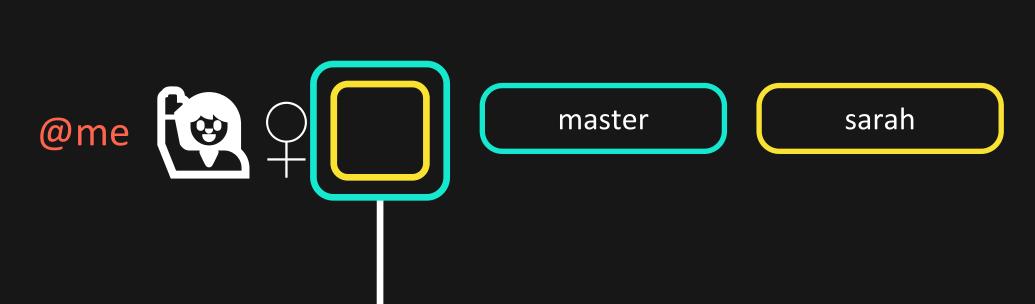
master

* sarah





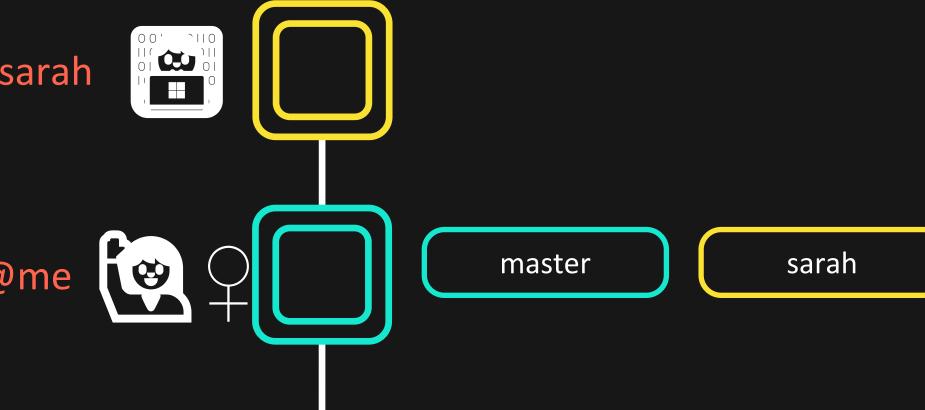
Added first story







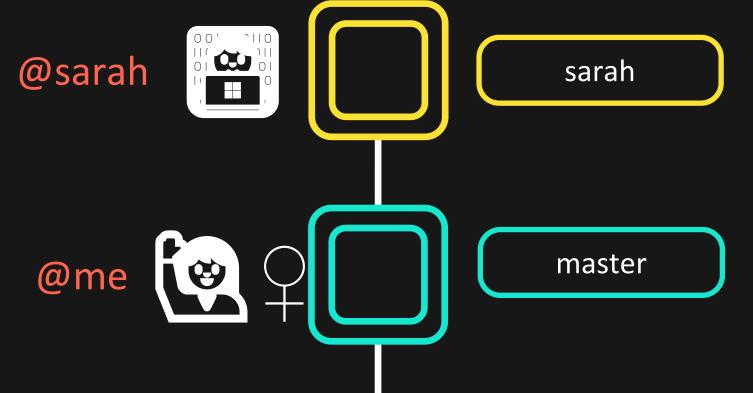








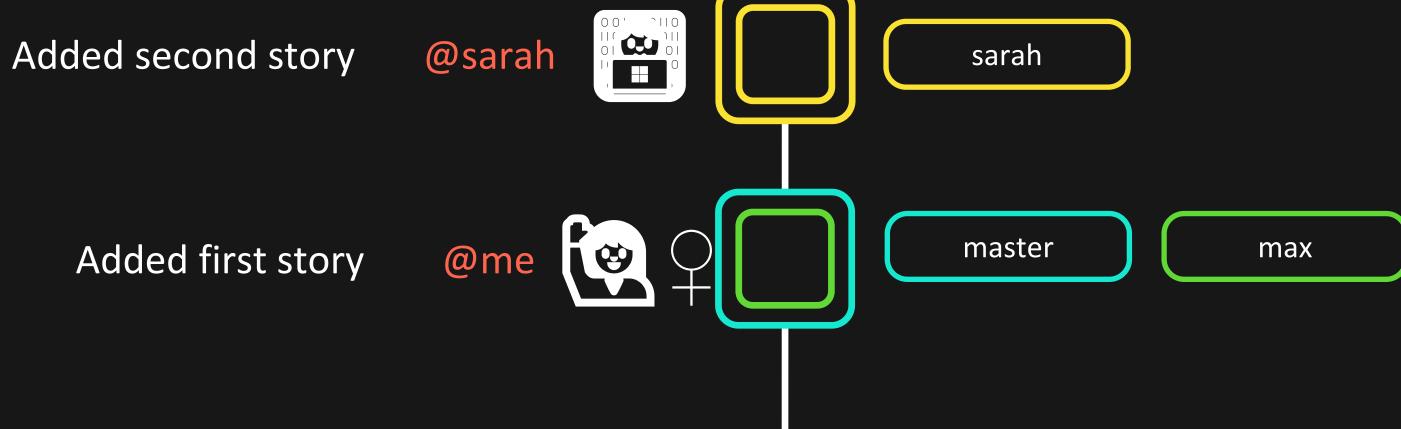


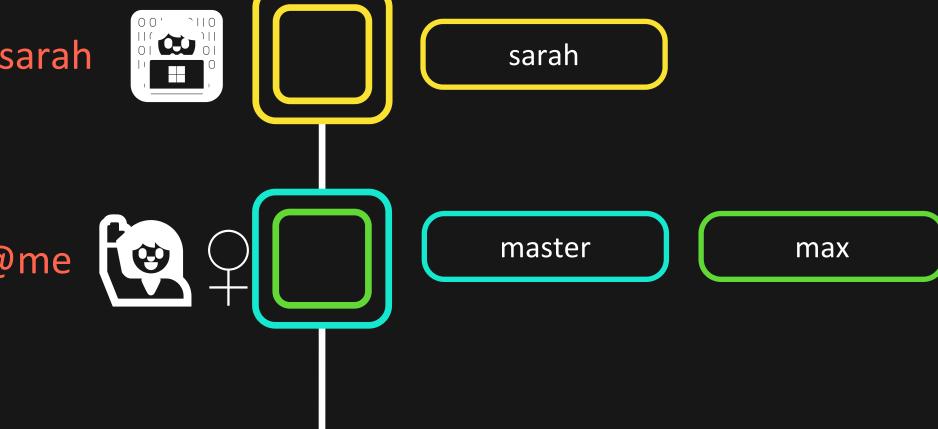


Added first story



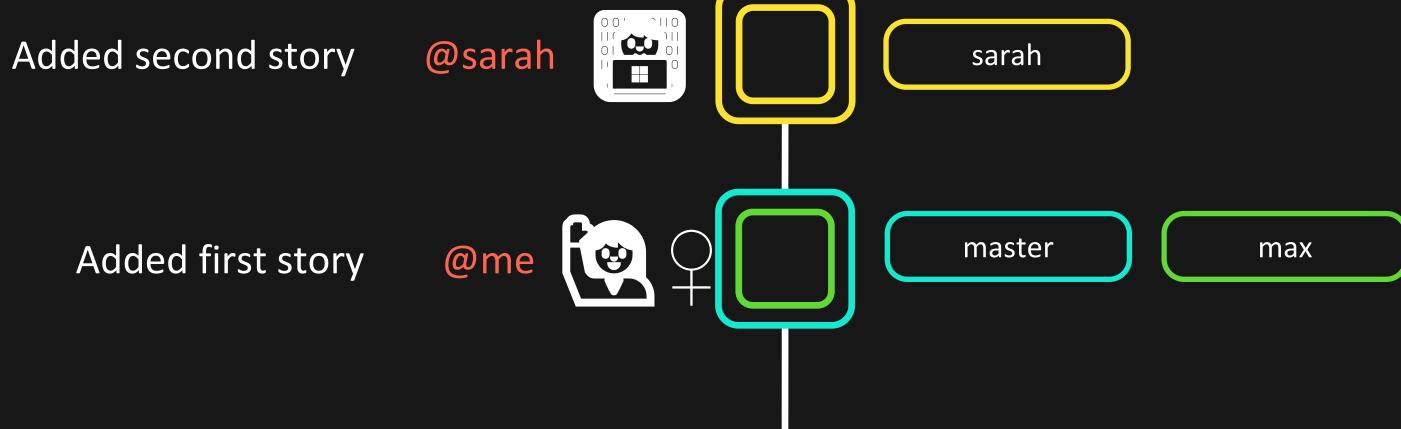


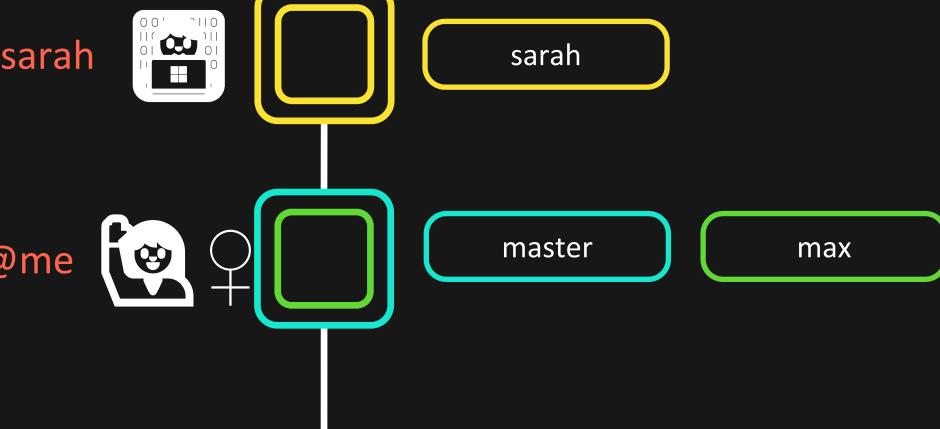






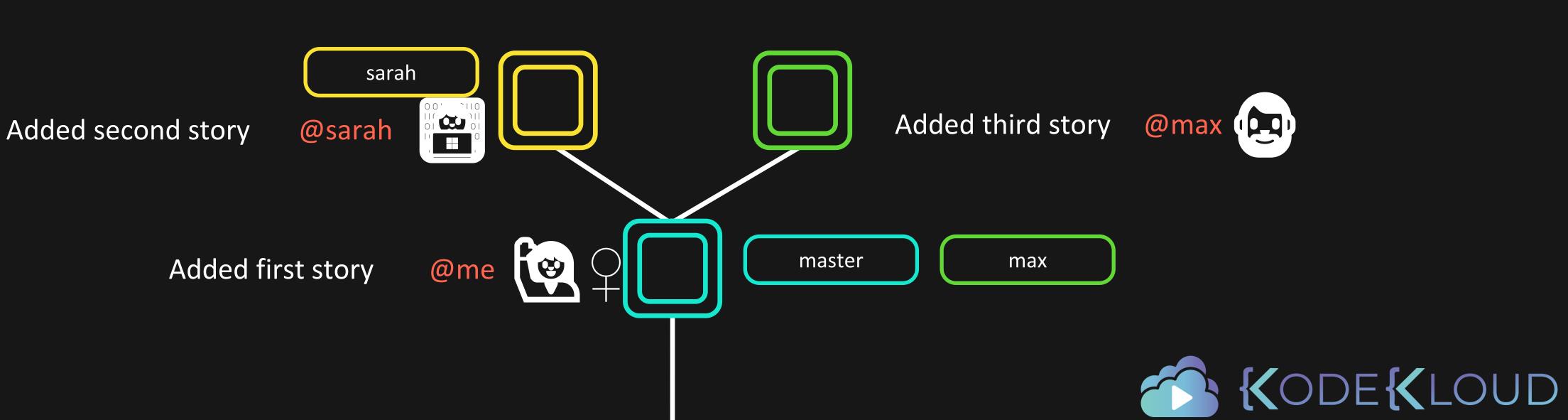
















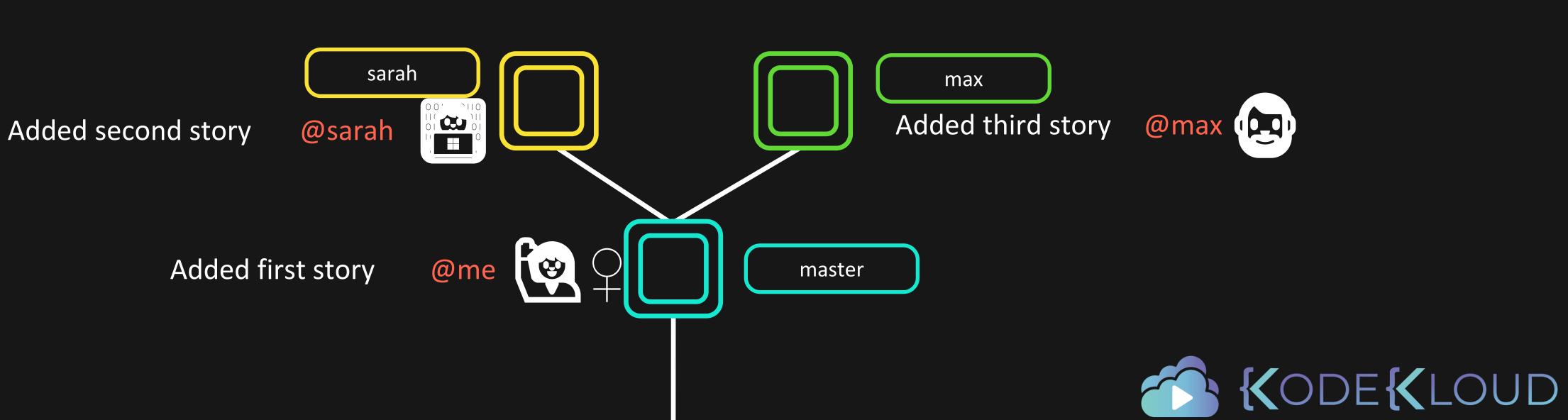


KODEKLOUD







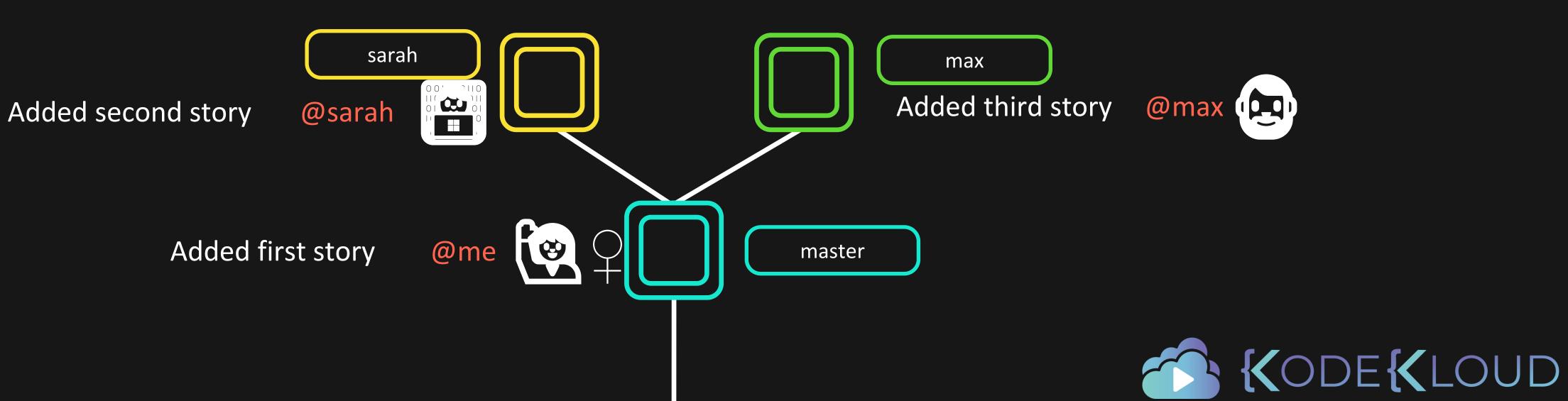








\$ git checkout master

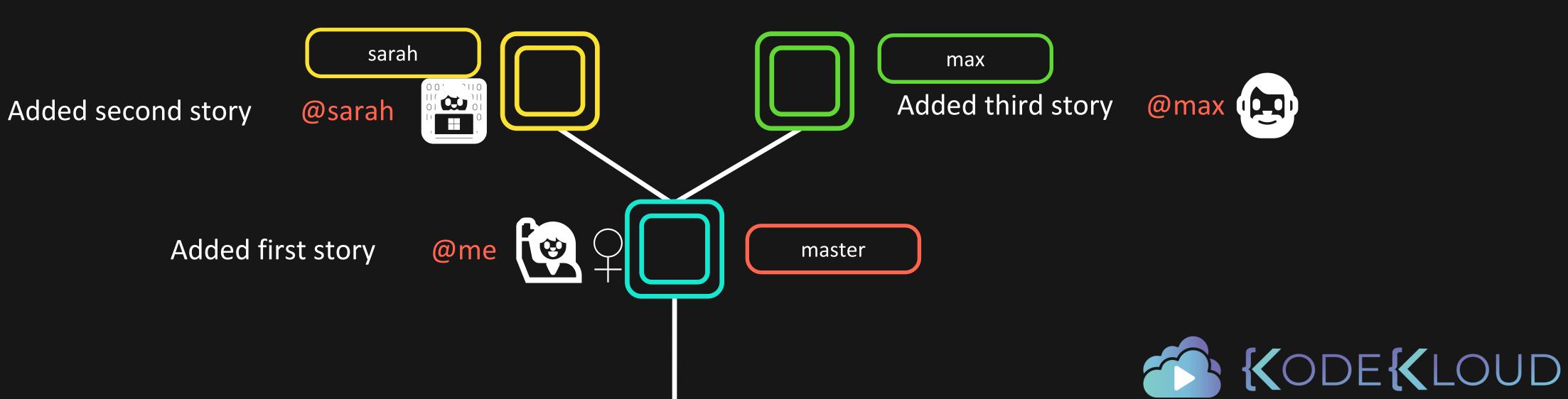






\$ git checkout master

\$ git merge max

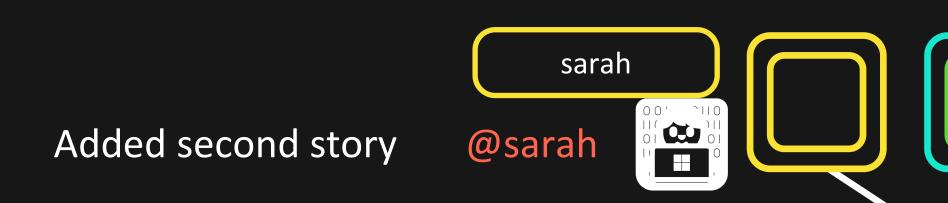




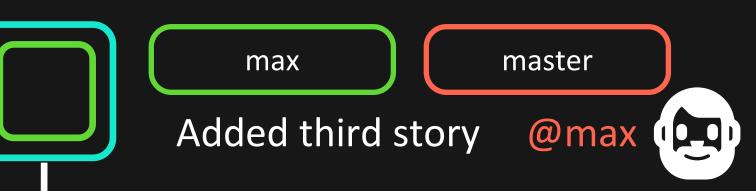


\$ git checkout master

\$ git merge max



Added first story @me

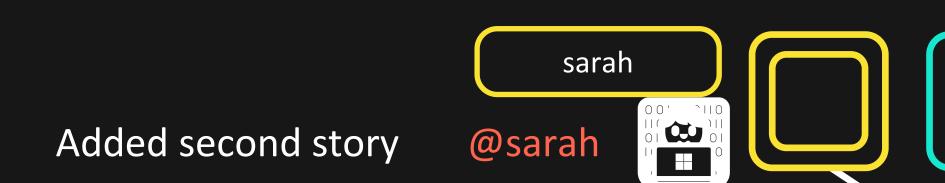




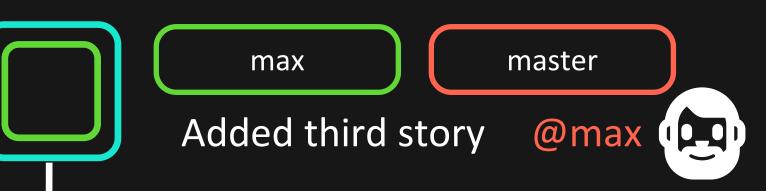




\$ git merge sarah



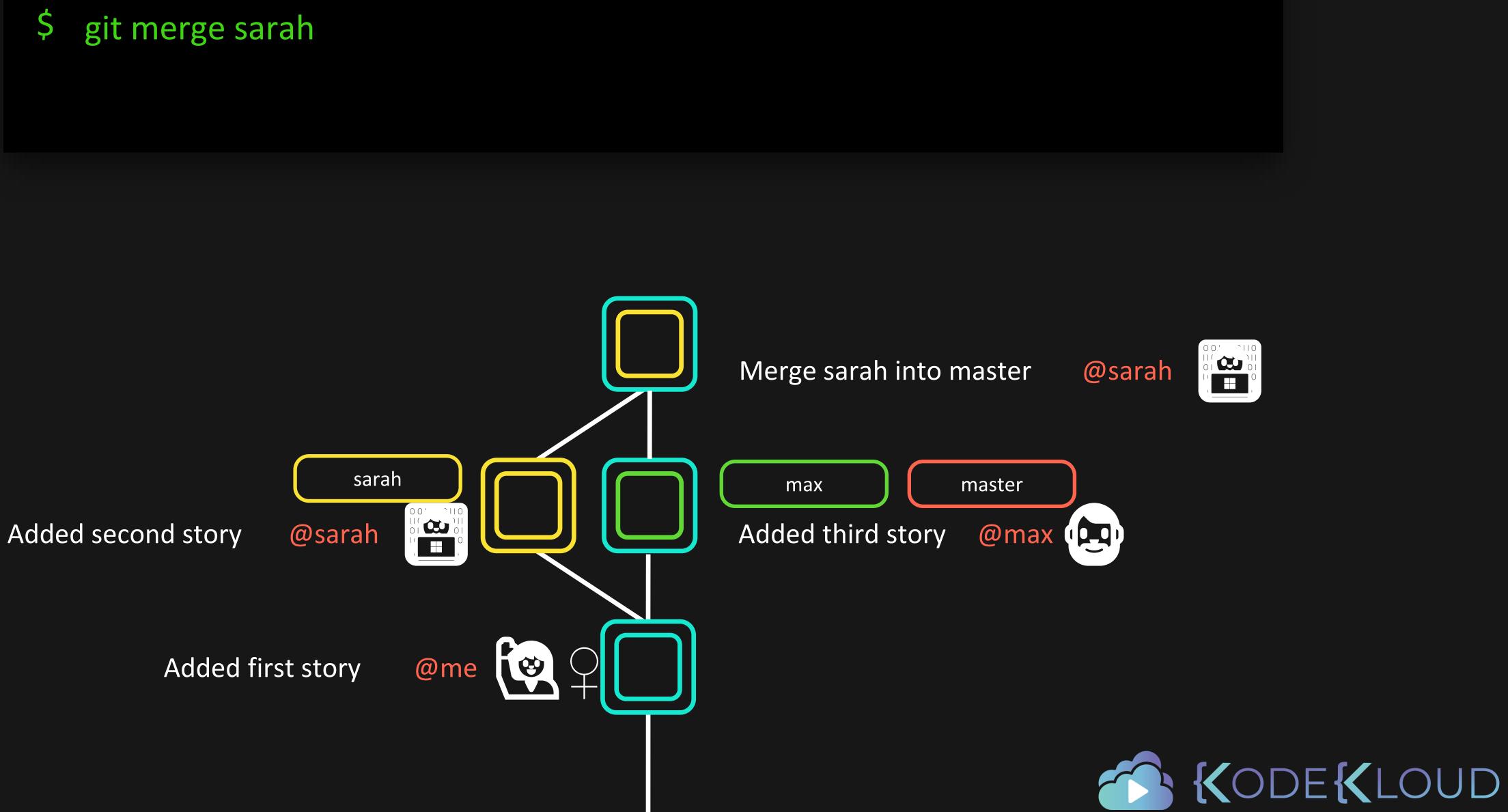
Added first story @me









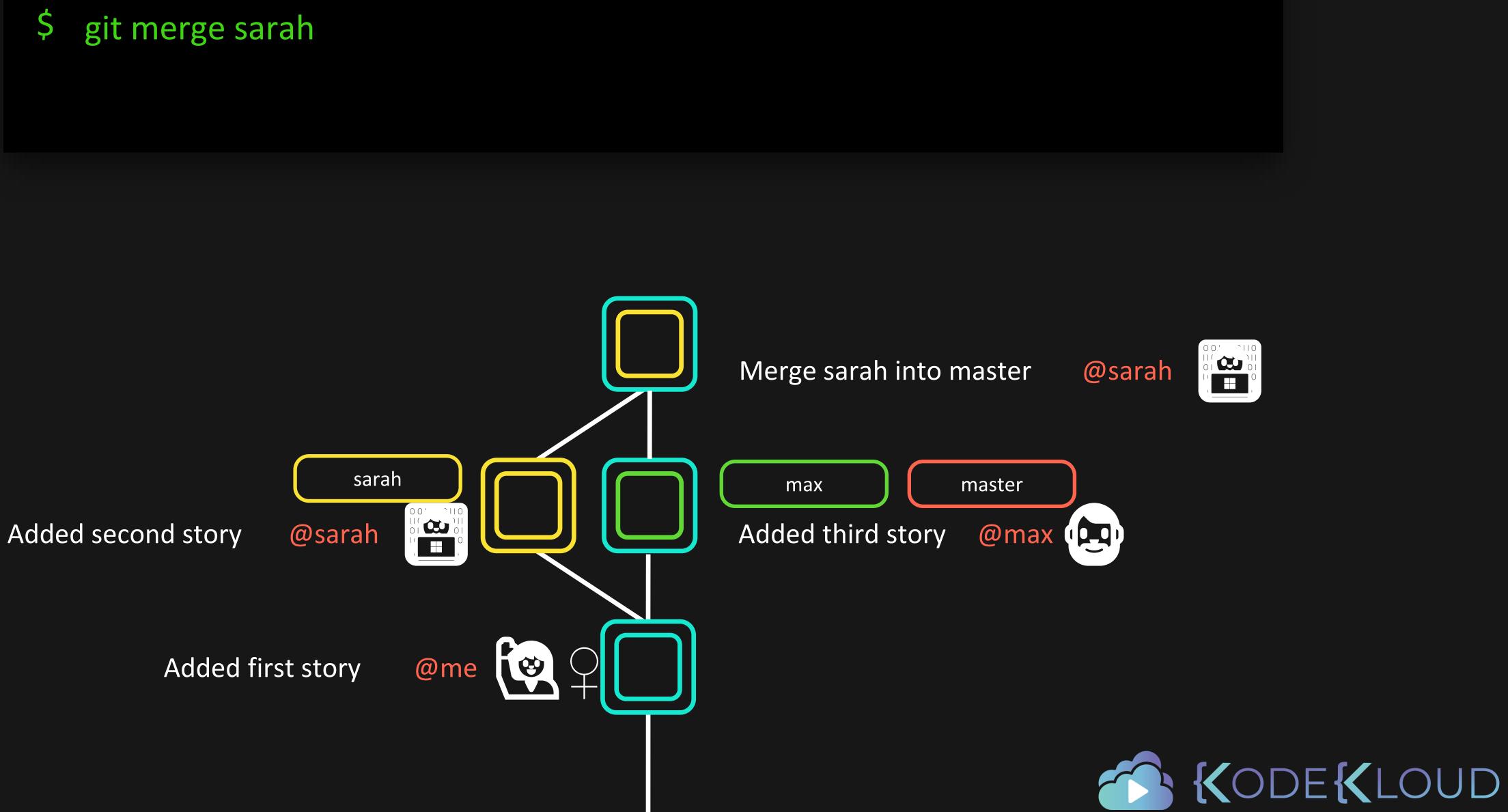


















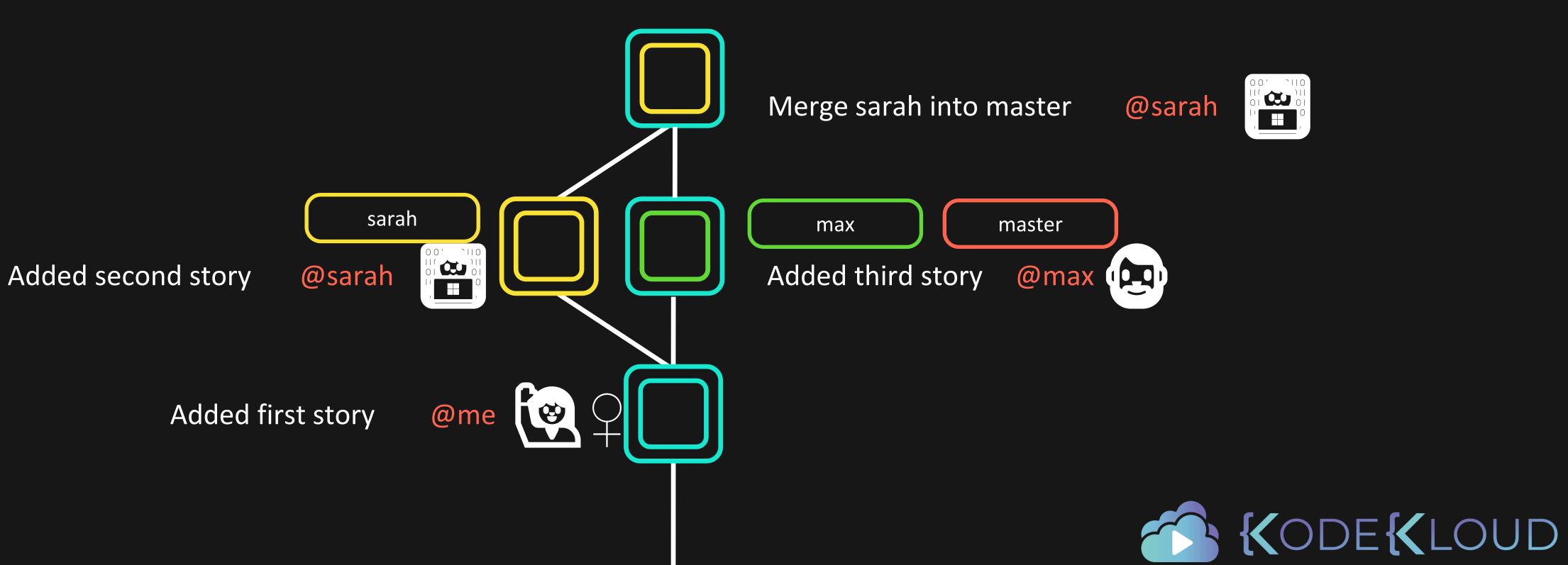


KODEKLOUD

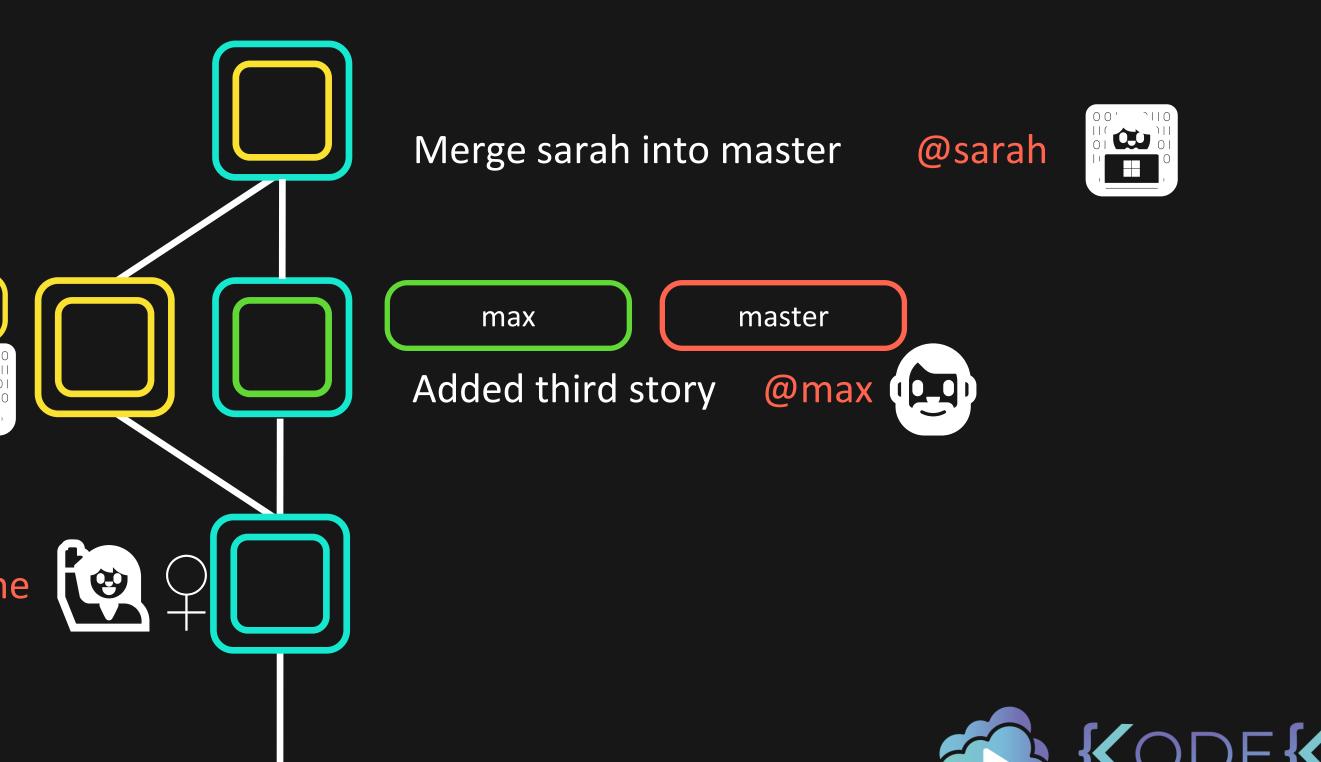
Merge Conflicts











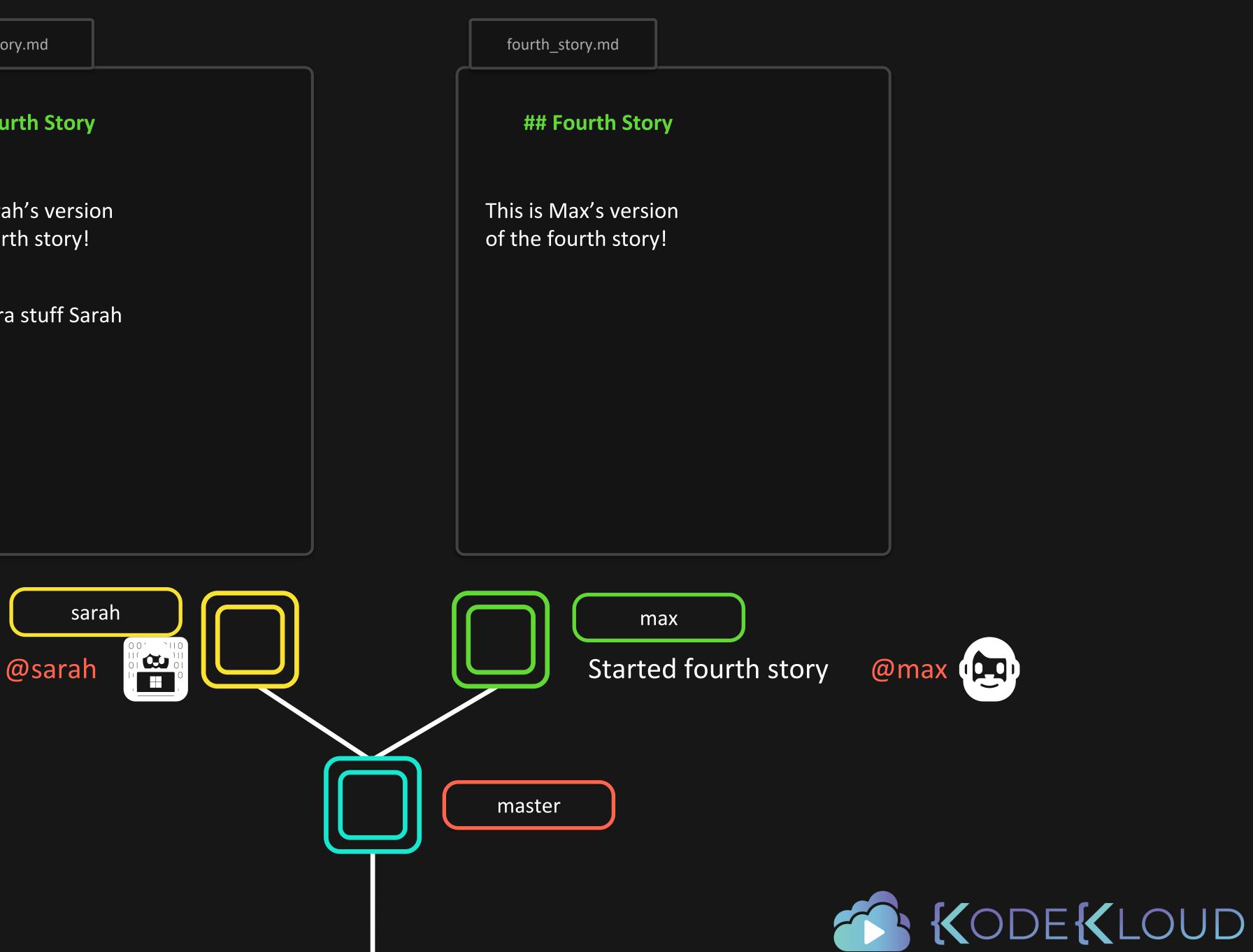


Fourth Story

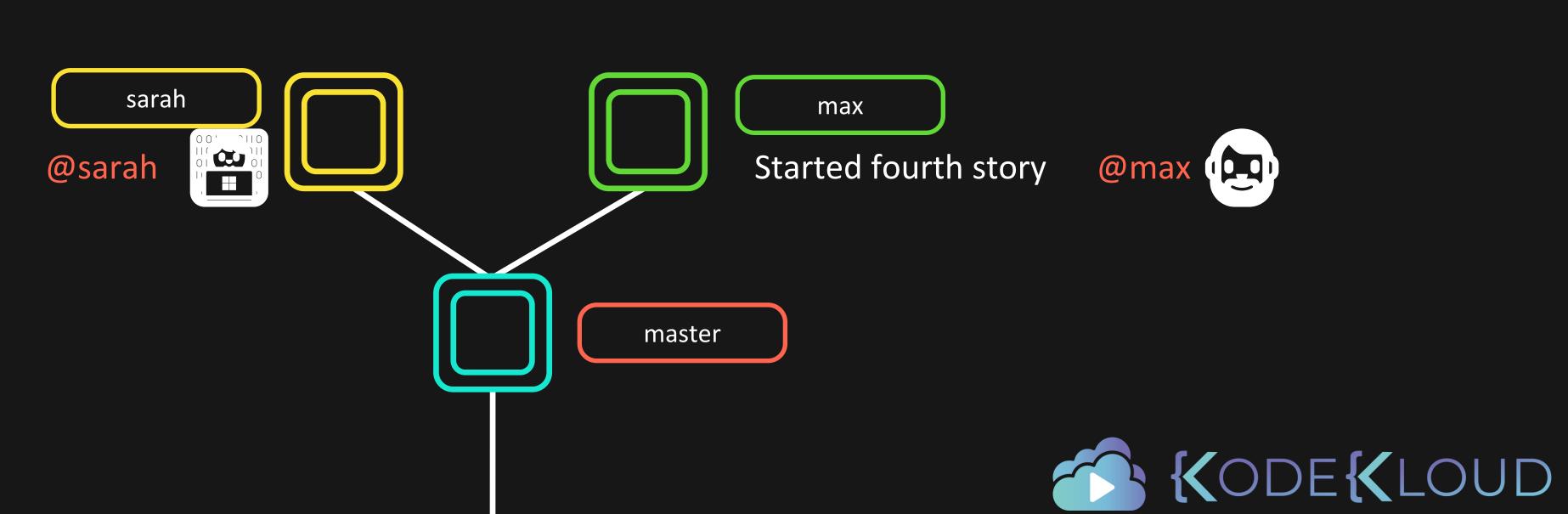
This is Sarah's version of the fourth story!

Some extra stuff Sarah added

Started fourth story

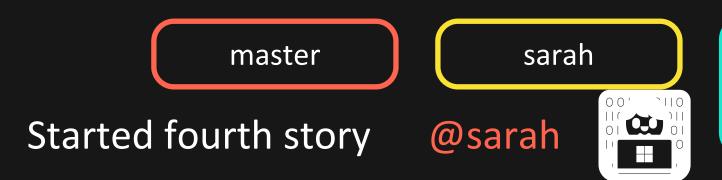






Started fourth story



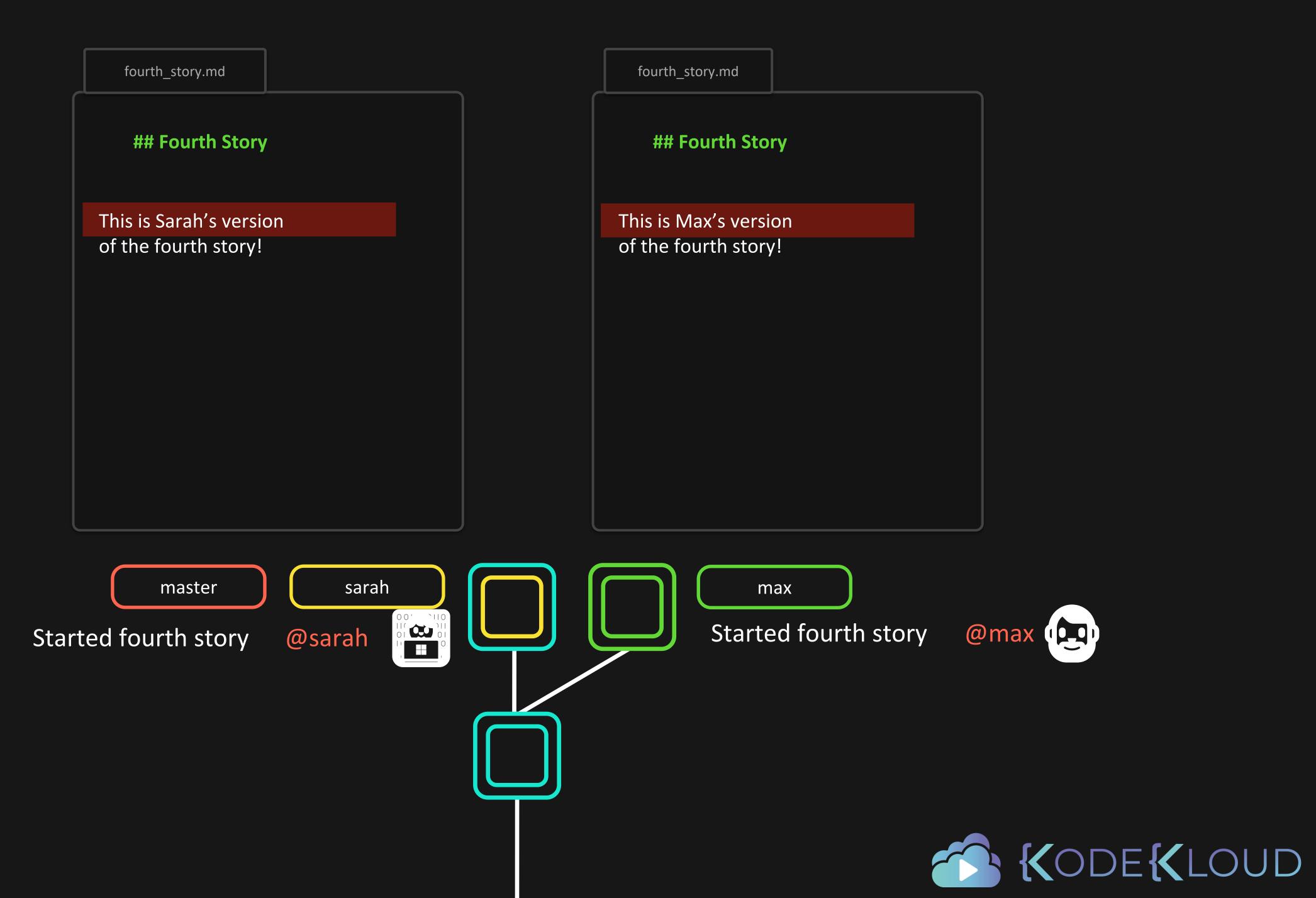


max Started fourth story











fourth_story.md

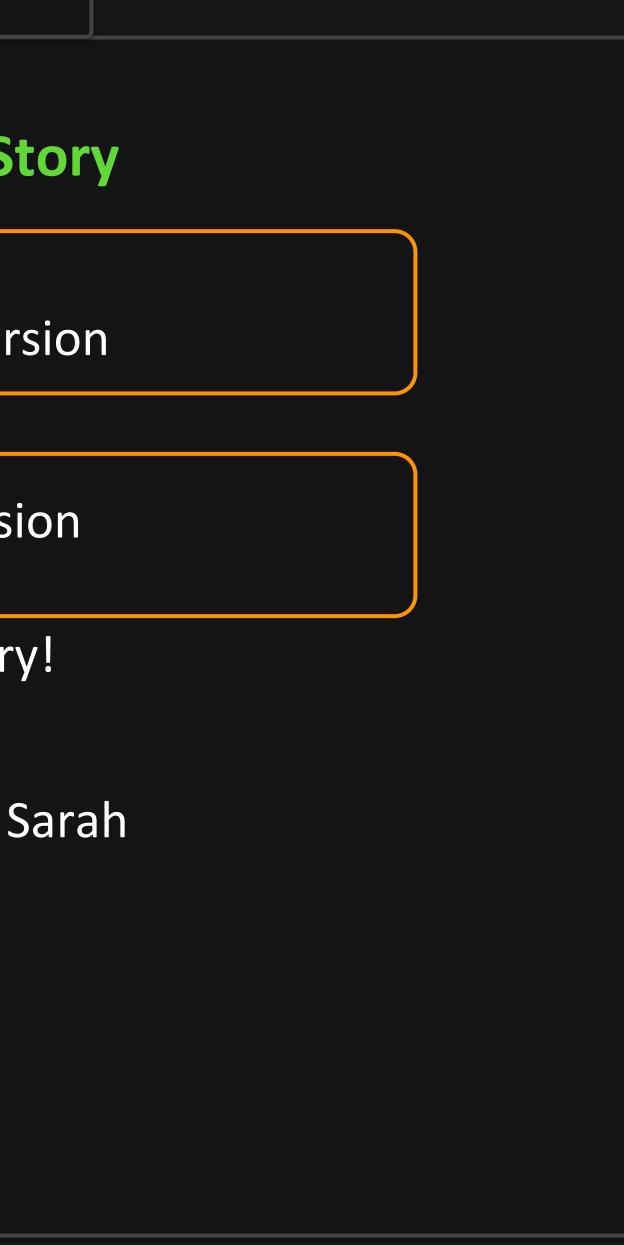
Fourth Story

<<<<< HEAD This is Sarah's version

This is Max's version

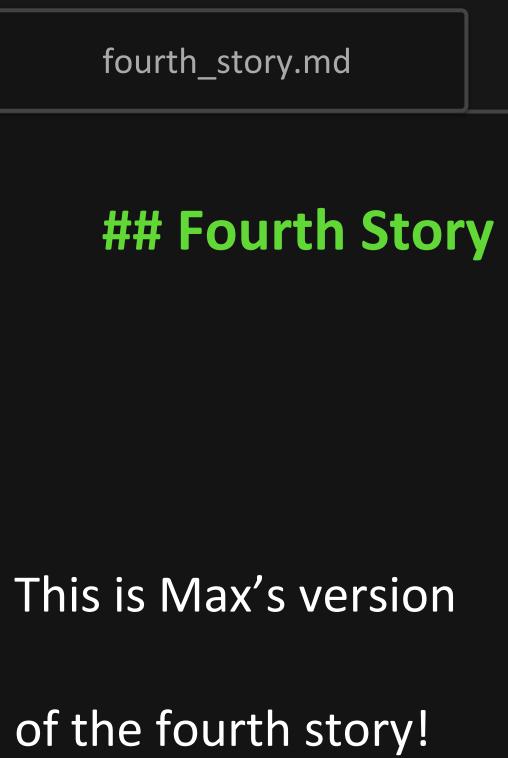
of the fourth story!

Some extra stuff Sarah added









Some extra stuff Sarah added

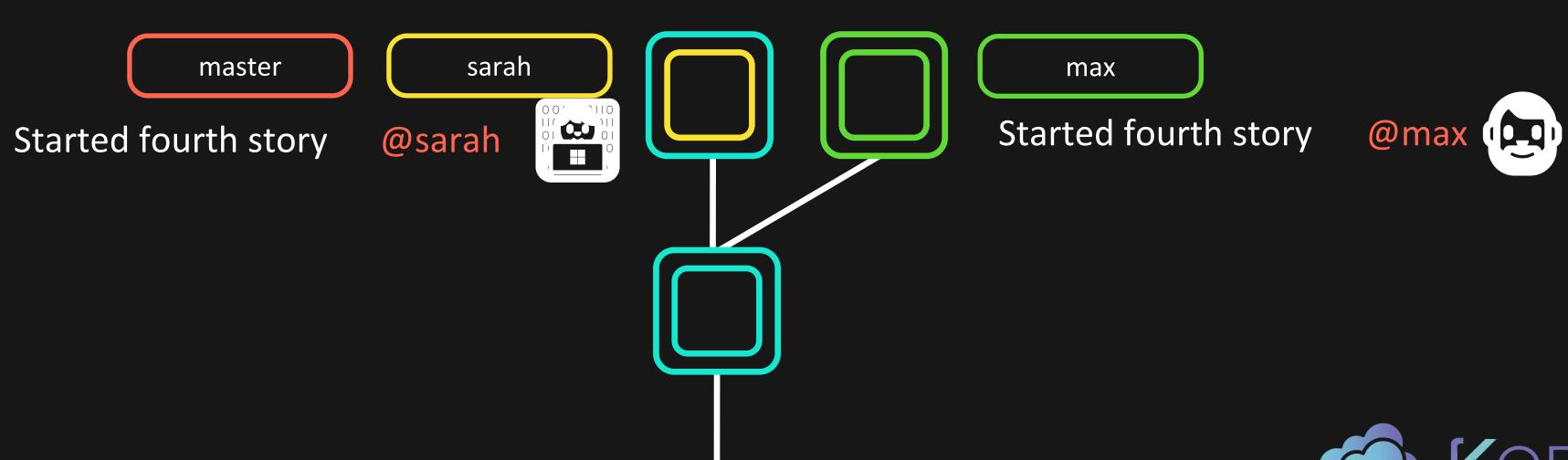






\$ git add fourth_story.txt

\$ git merge



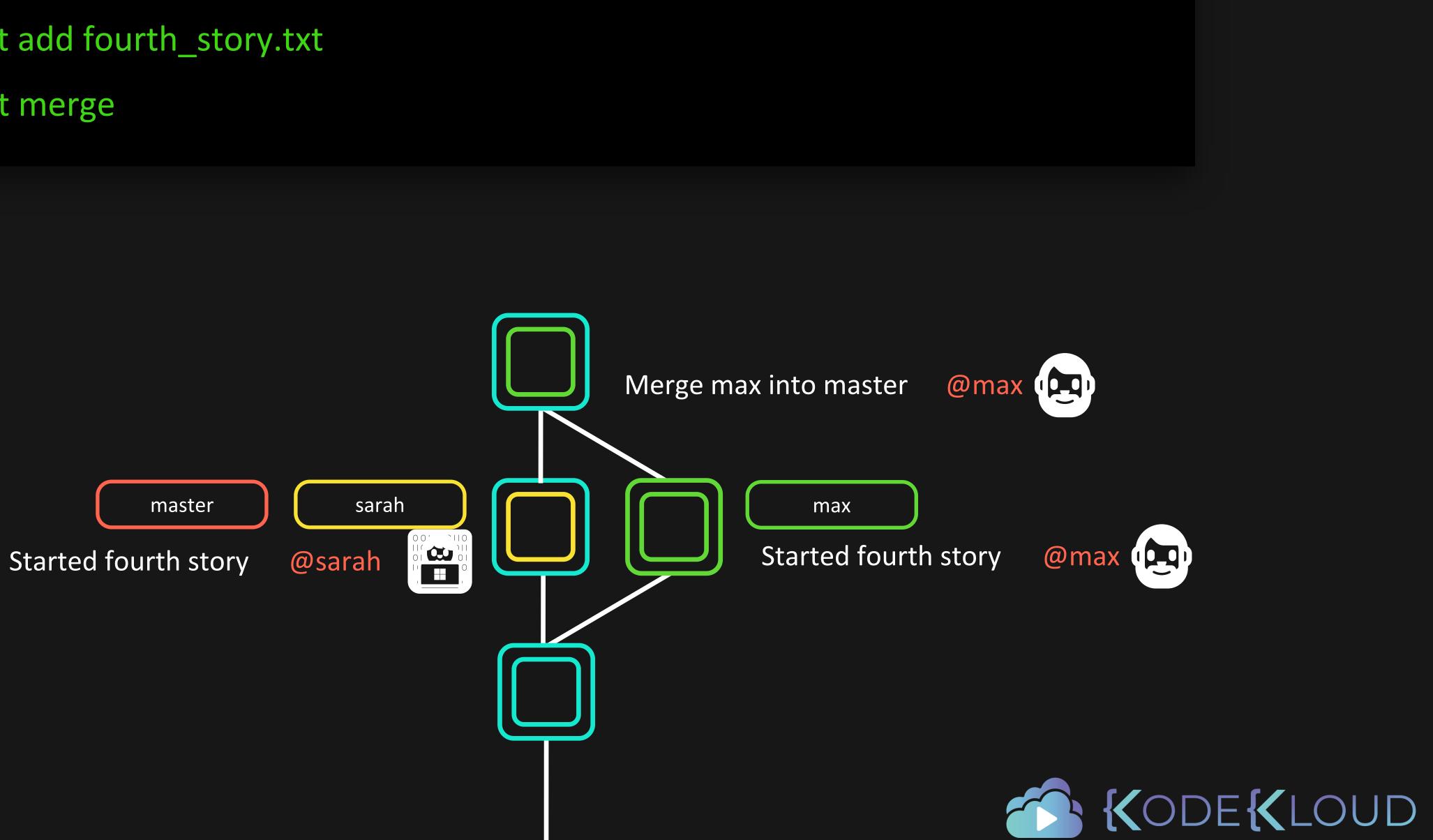






\$ git add fourth_story.txt

\$ git merge





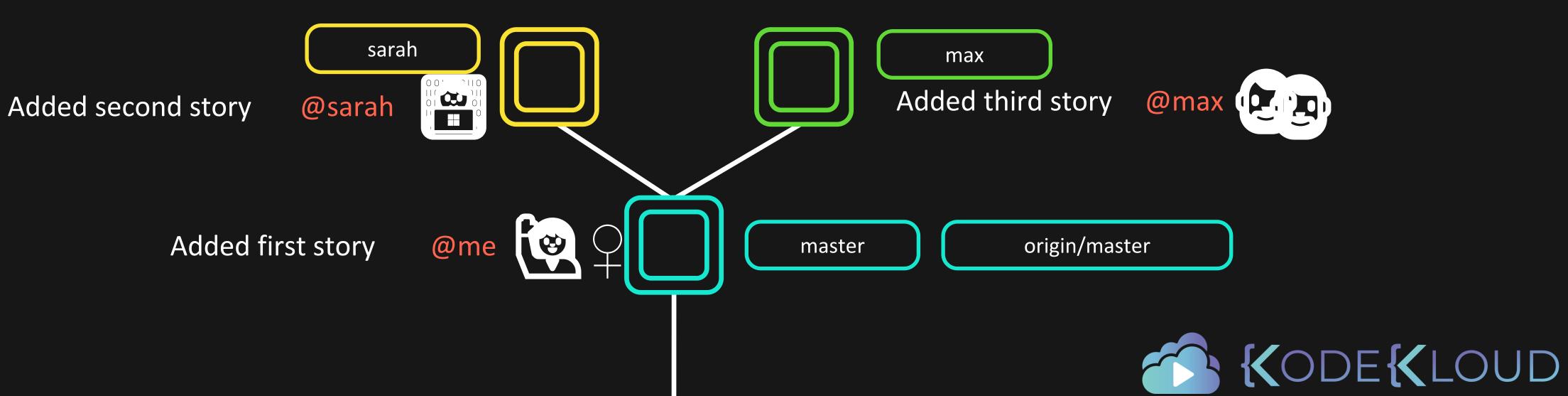


KODEKLOUD







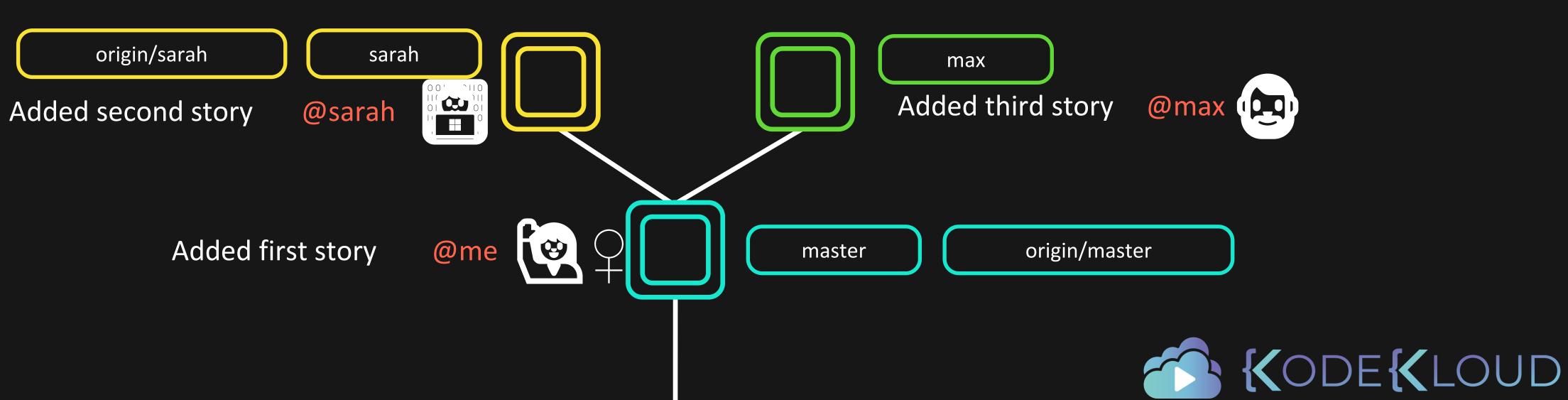






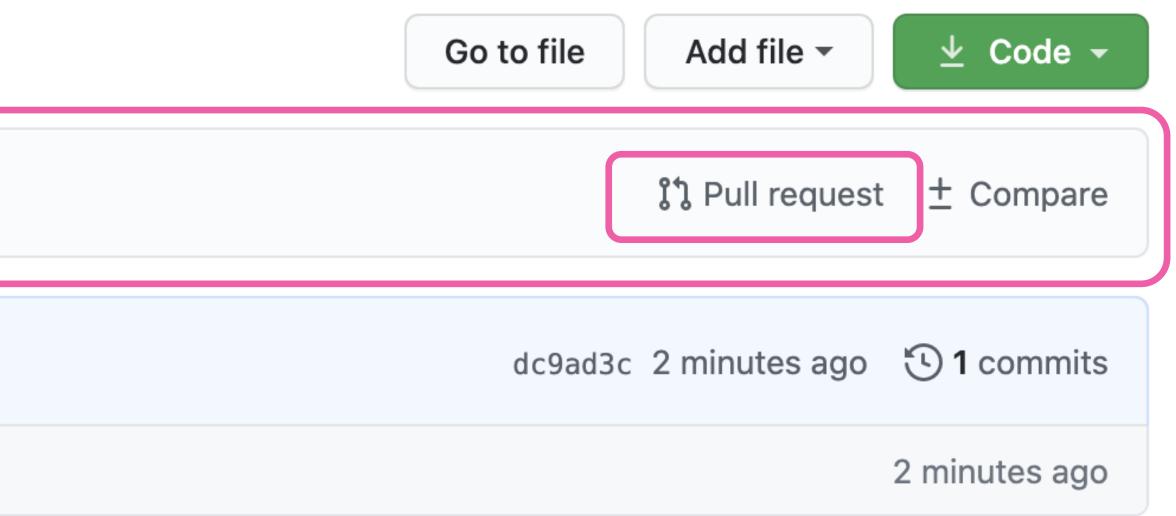


\$ git push origin sarah





ှို master 🚽	ያ 2 branches	⊙ 0 tags
This branch is	1 commit behind sa	arah.
🍓 lydiahallie	e Added first story	
first_story	.md	Added first story







Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to

ኒን base: master	 Able to merge. These branches can be 	e automatically merged.	
រោ Create pull request Discuss and re	eview the changes in this comparison with othe	ers.	?
- 0- 1 commit	± 1 file changed	□ 0 commit comments	ભર 1 contributor
Commits on Jul 11, 2020	second story		fb9f191
\pm Showing 1 changed file with 1 addition and	0 deletions.		Unified Split
✓ 1 ■second_story.md []			
@@ -0,0 +1 @@ 1 + ## Second Story			

to,	you	can	also	compare	across	forks.
-----	-----	-----	------	---------	--------	--------

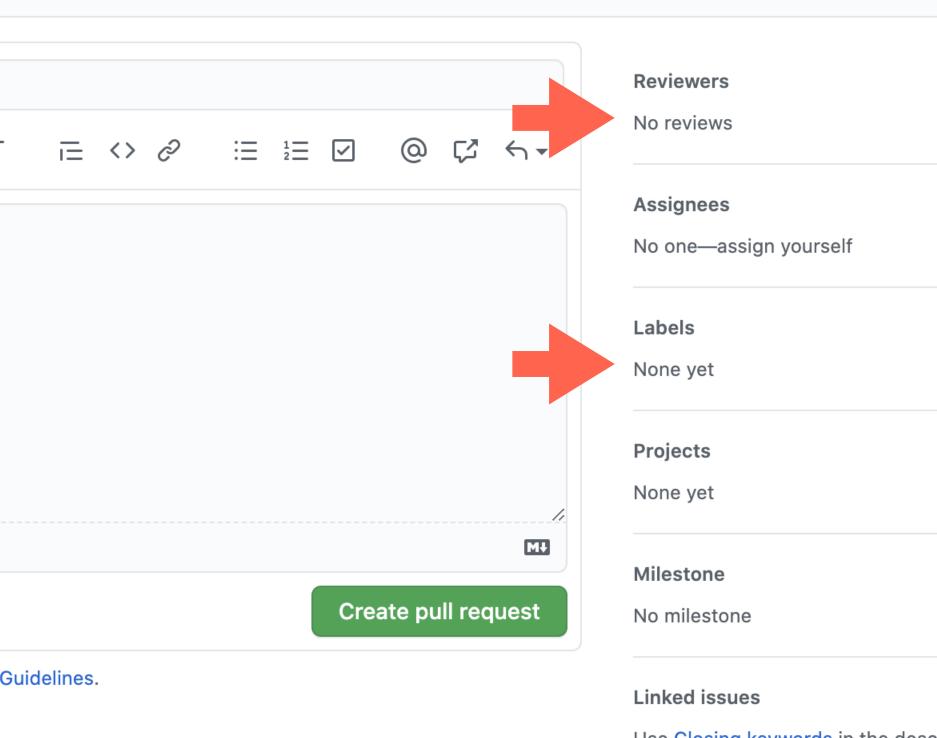




Open a pull request

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

រោ 🛛	base: master	 ✓ com 	pare: sarah 🔻	✓ Able t	o merge. ⊺	These	bran	ches
	Added s	second story						
	Write	Preview				Н	В	I
		second story	& dropping, sel	ecting or pas	sting them.			
	(i) Remembe	er, contributions	to this reposito	ry should follo	ow our GitHu	ıb Con	nmuni	ty Gui
	-0- 1	l commit			± 1 file o	chang	ed	



s can be automatically merged.

ණ छ छ হ্য ණ í Use Closing keywords in the description to automatically close issues Helpful resources **GitHub Community Guidelines**

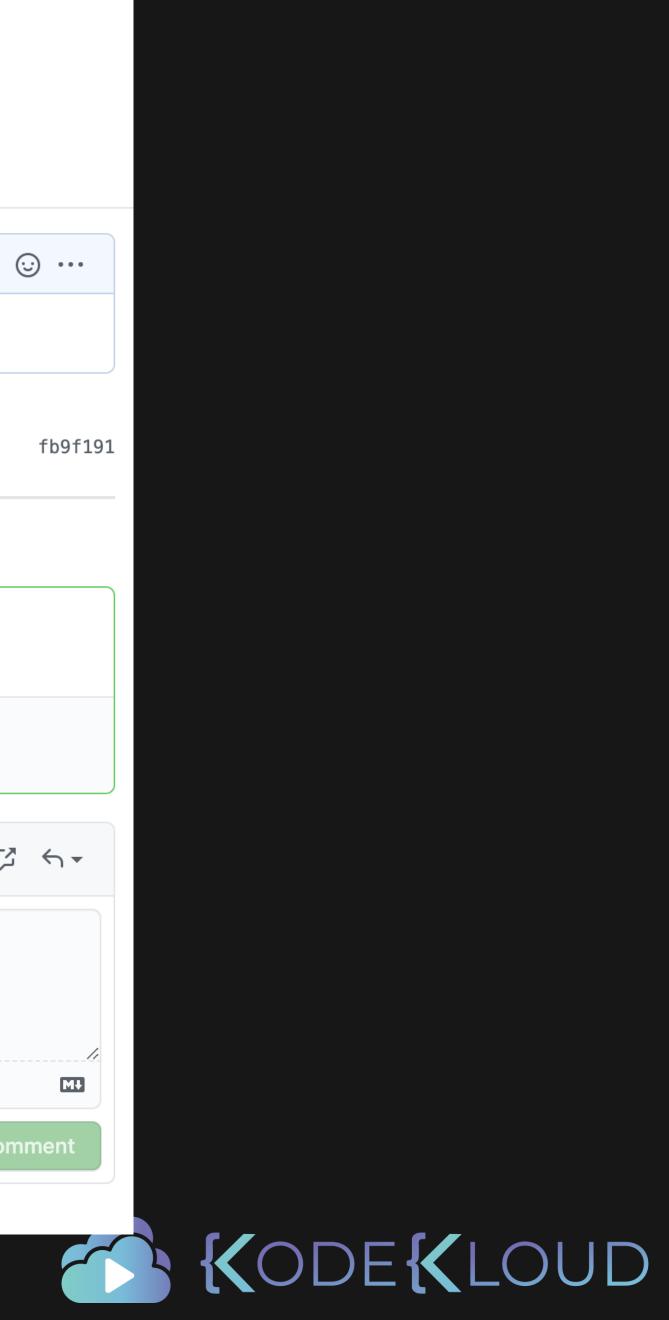
O commit comments

৪**২ 1** contributor



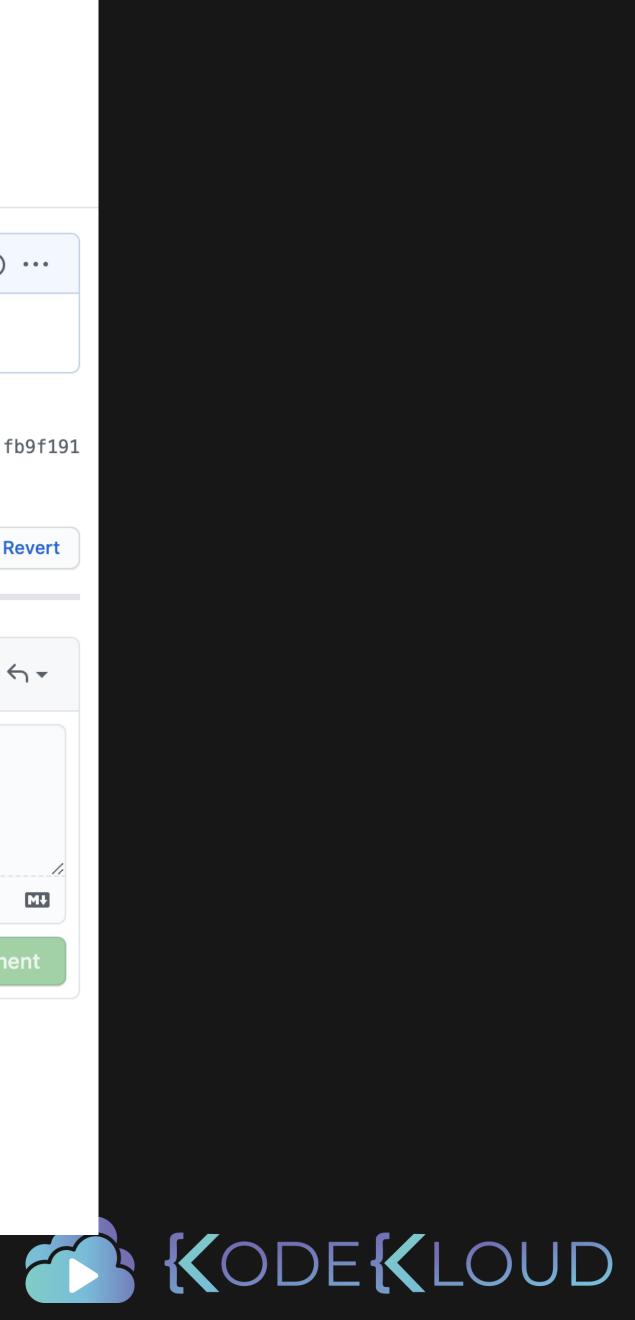


깆 Conver	sation 0 Commits 1 E Checks 0 ± Files changed 1	
lyc	diahallie commented now	···· ···
•	Added a second story	
-0-	Added second story	fb9f19
	more commits by pushing to the sarah branch on lydiahallie/myrepo .	
	This branch has no conflicts with the base branch Merging can be performed automatically. Merge pull request You can also open this in GitHub Desktop or view command line instructions.	
	This branch has no conflicts with the base branch Merging can be performed automatically.	@ Γ ³ ← ▼
	This branch has no conflicts with the base branch Merging can be performed automatically. Merge pull request Yeu can also open this in GitHub Desktop or view command line instructions.	@ [² < • •



nversation	O → Commits 1	
lydiahal	lie commented 21 seconds ago	(
• Add	ed a second story	
-0- 🎯 /	Added second story	
	Added second story ydiahallie merged commit 2c8f09e into master now	
		@ Ç [*]
ک Write	ydiahallie merged commit 2c8f09e into master now	@ Ç ²
ک Write	ydiahallie merged commit 2c8f09e into master now Preview H B I I = <> \mathcal{O} I = $\frac{1}{2}$ I	O

 $\underline{\nabla}$ **Prolip!** Add .patch or .diff to the end of URLs for Git's plaintext views.





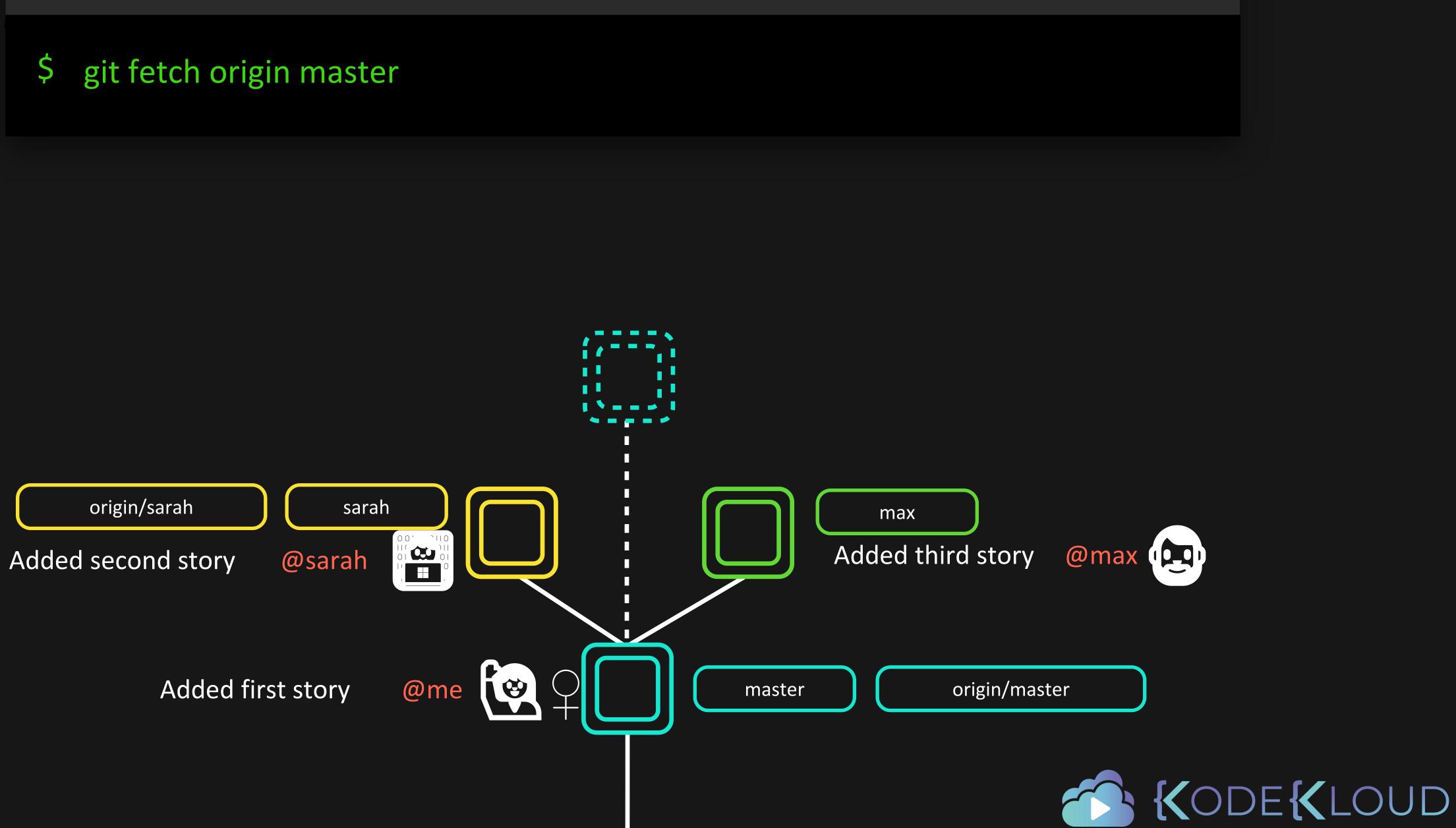
KODEKLOUD

Fetching and Pulling

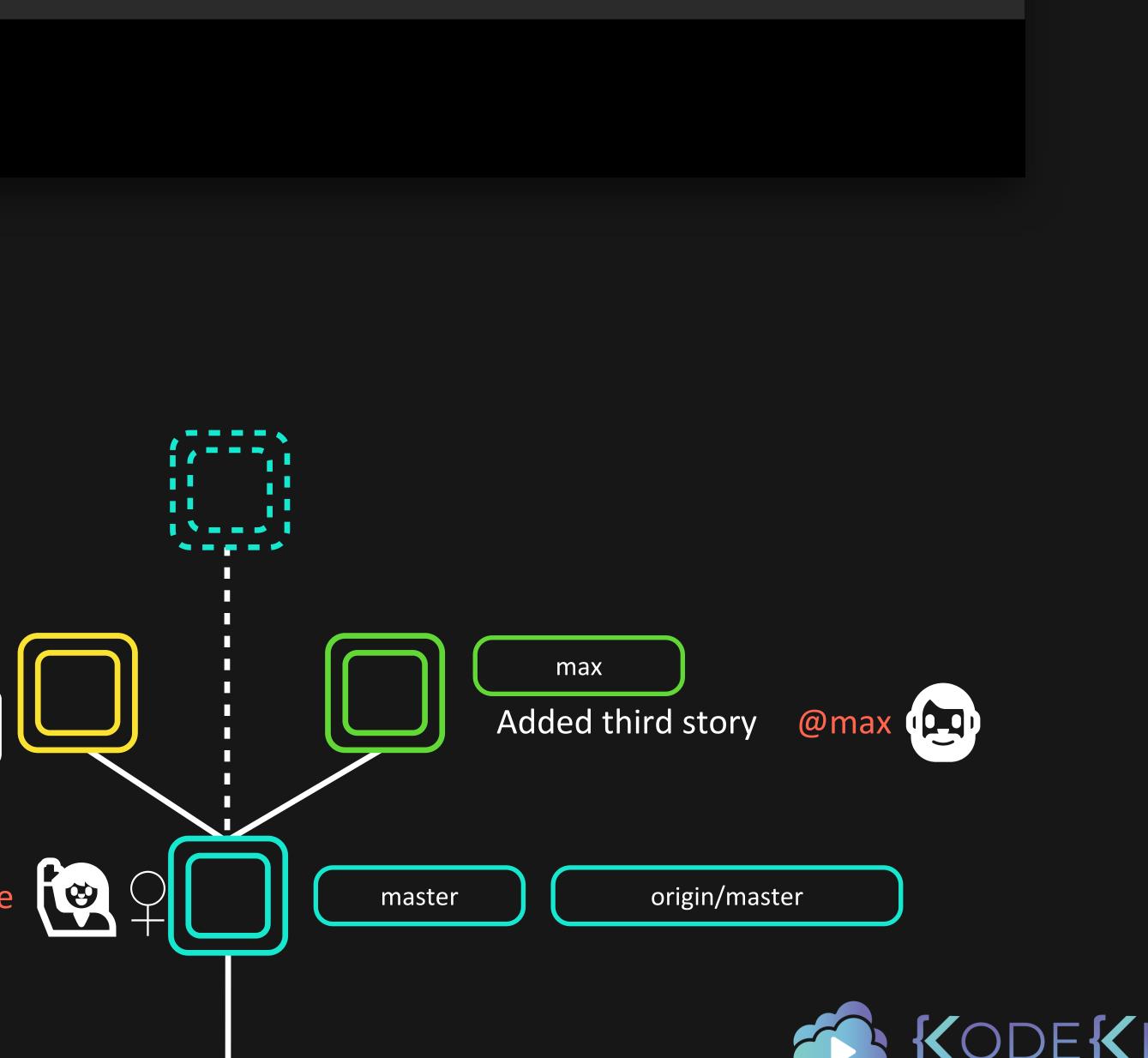






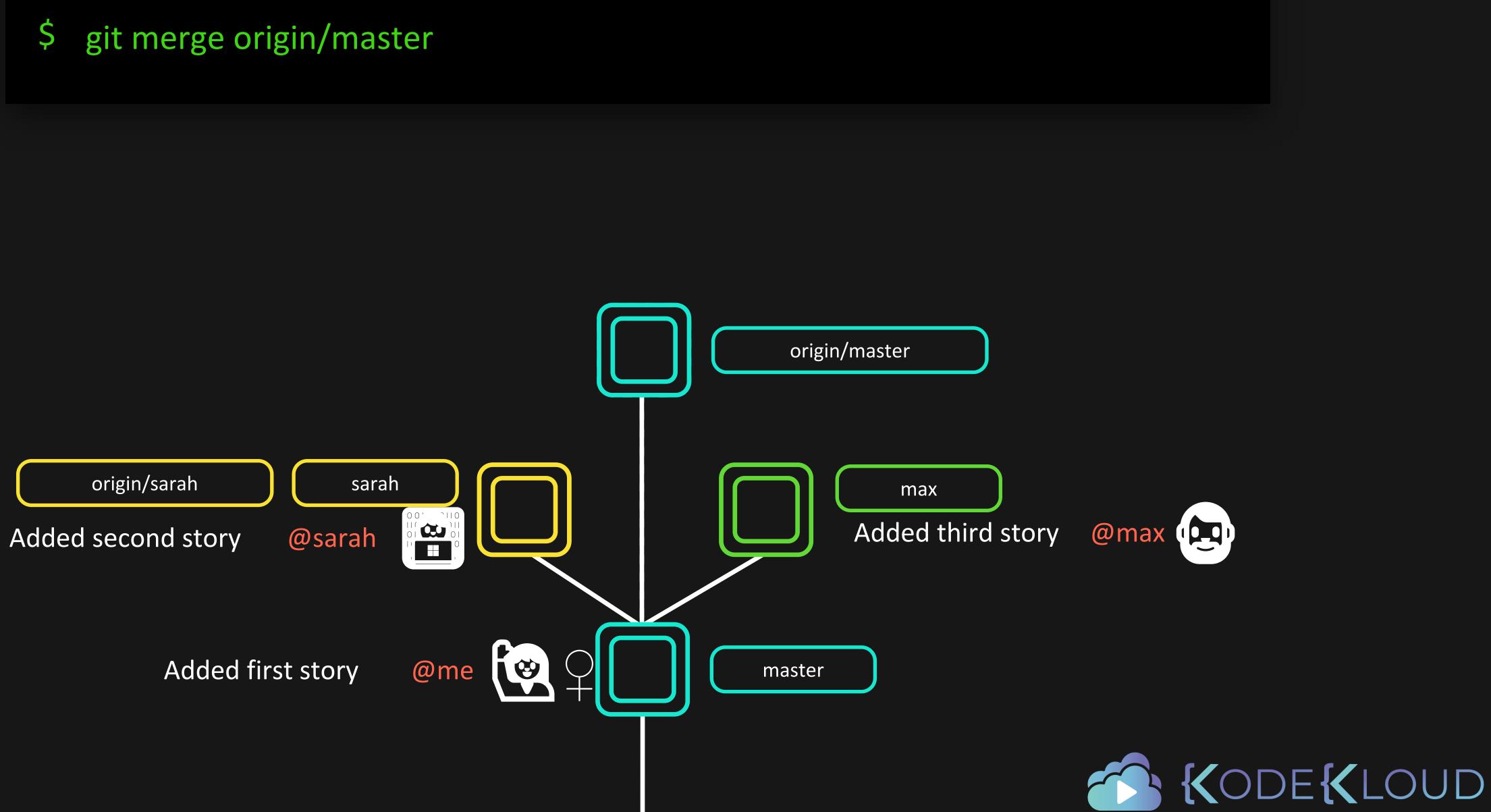








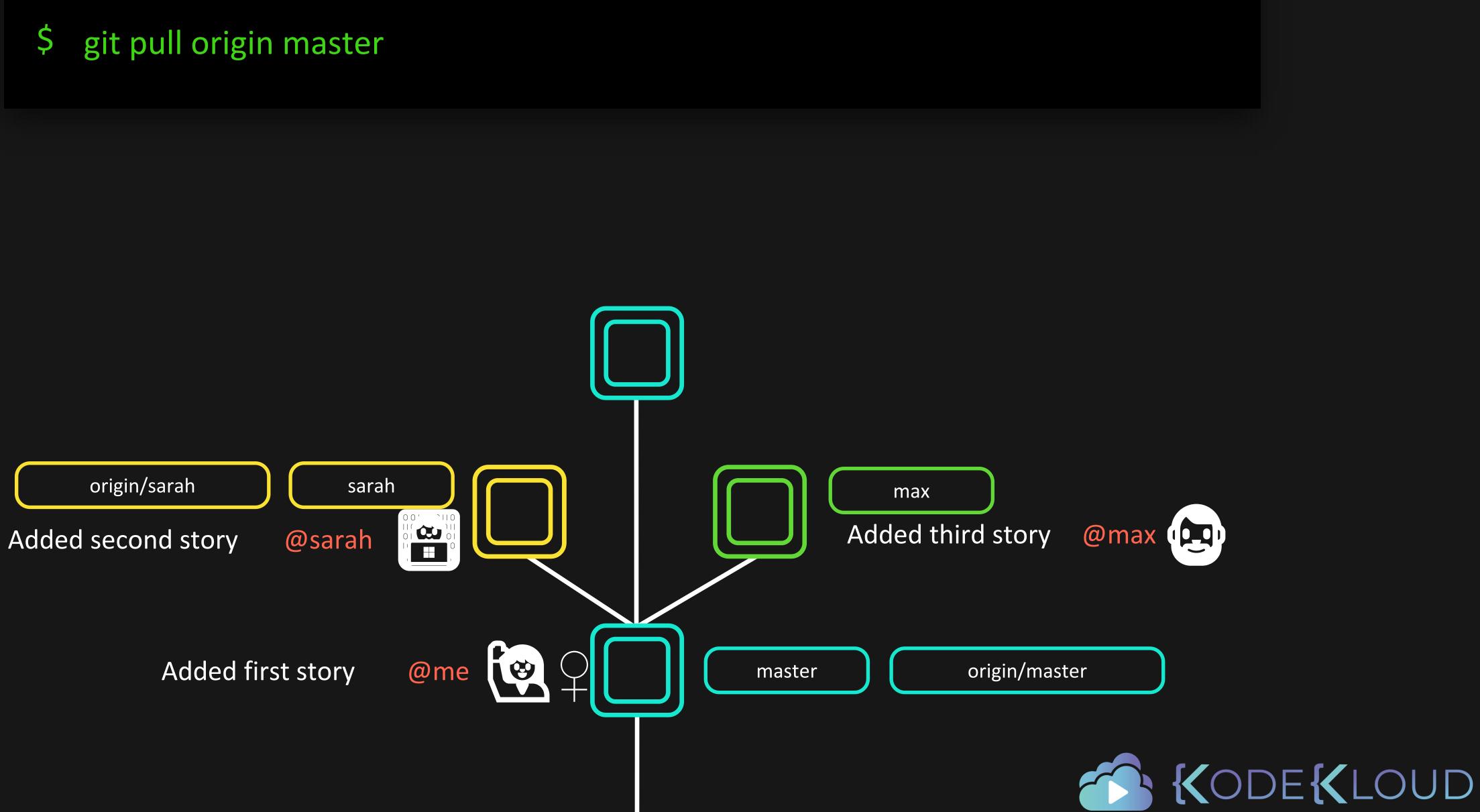


















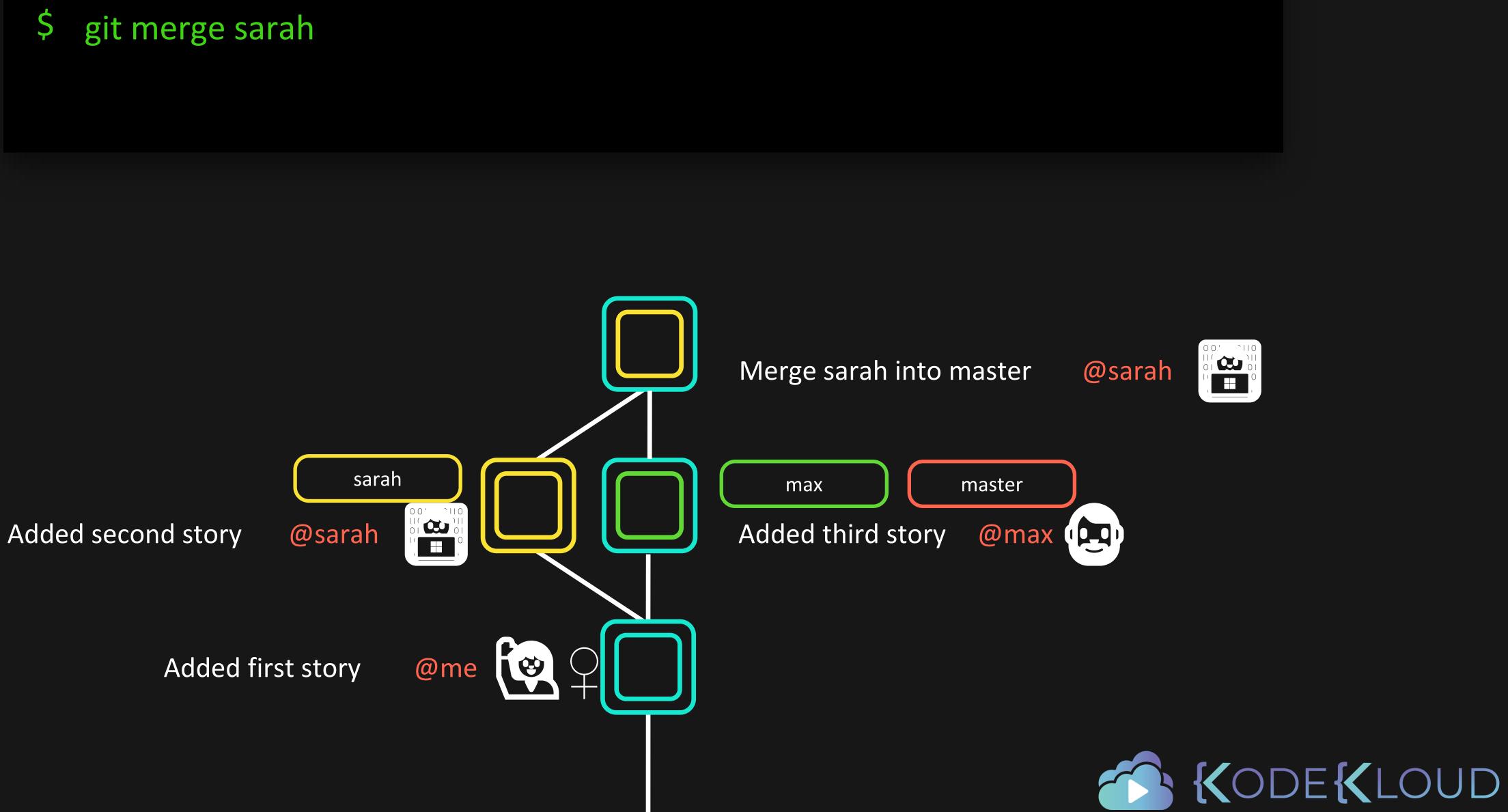
KODEKLOUD











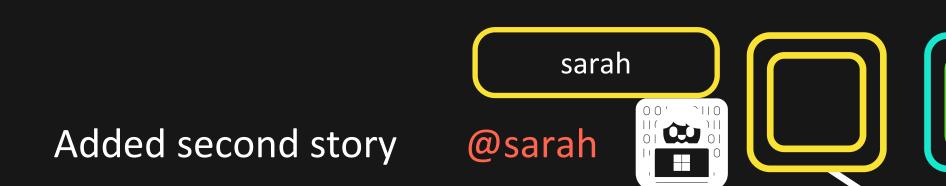




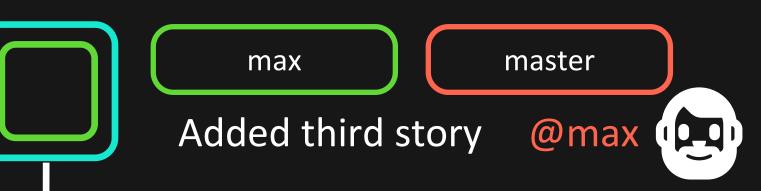




\$ git rebase sarah



Added first story @me

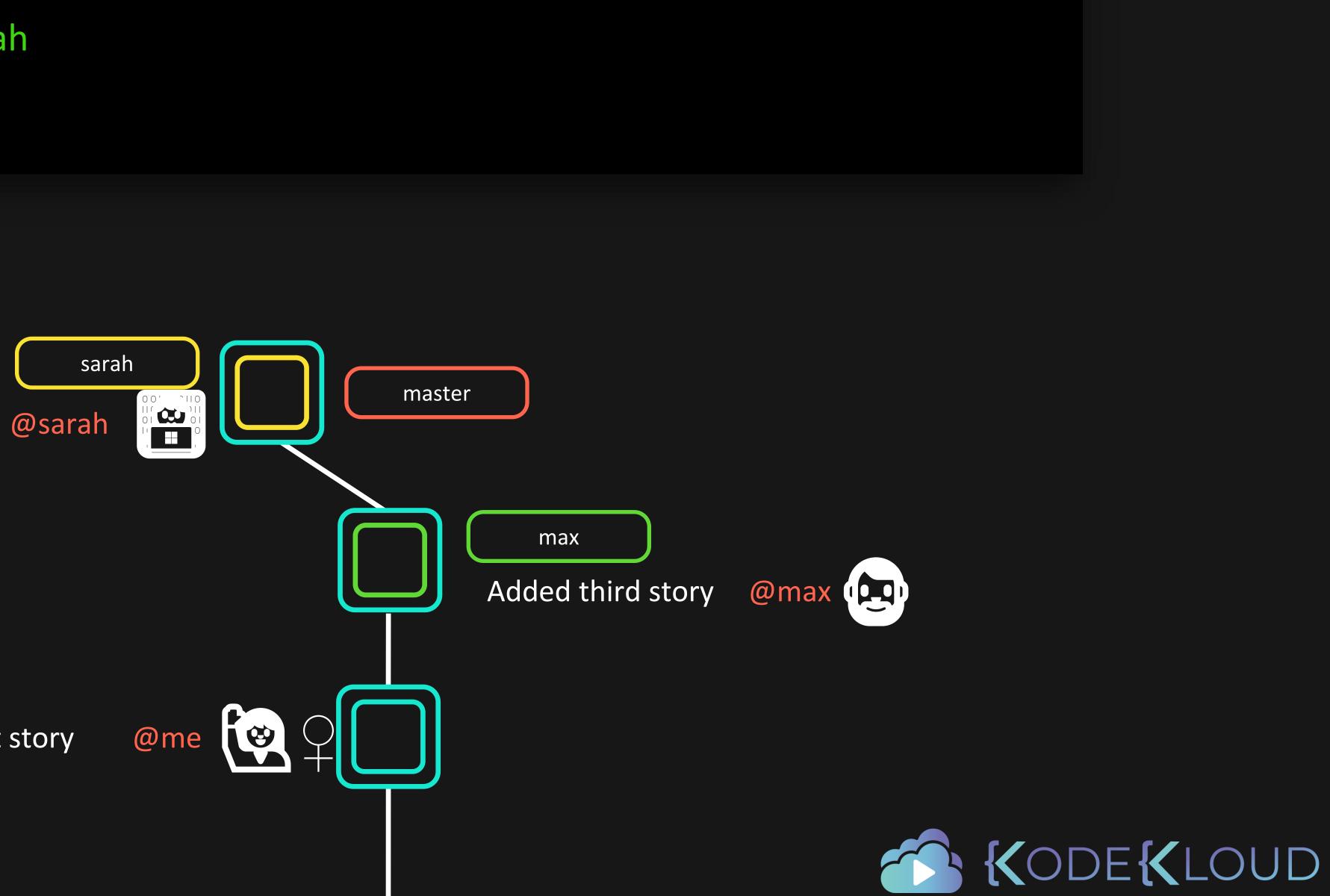




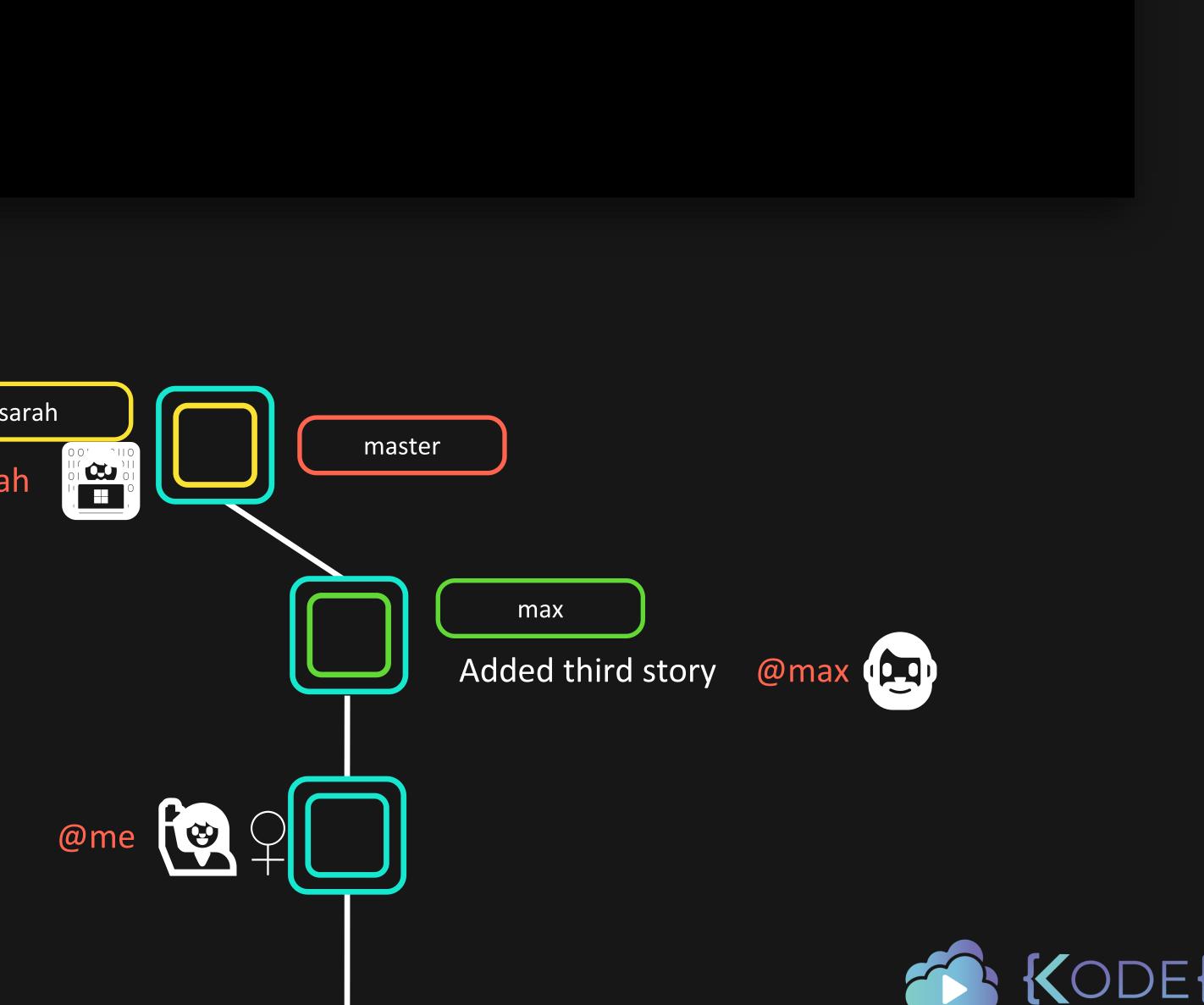




\$ git rebase sarah



Added second story

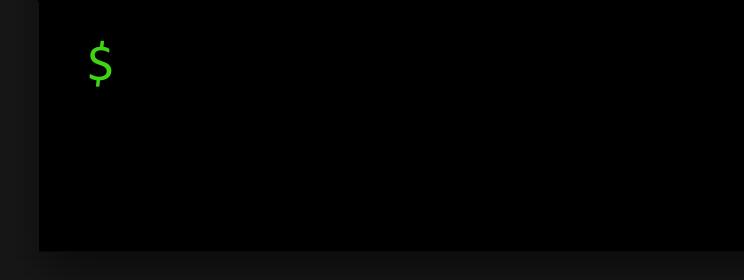


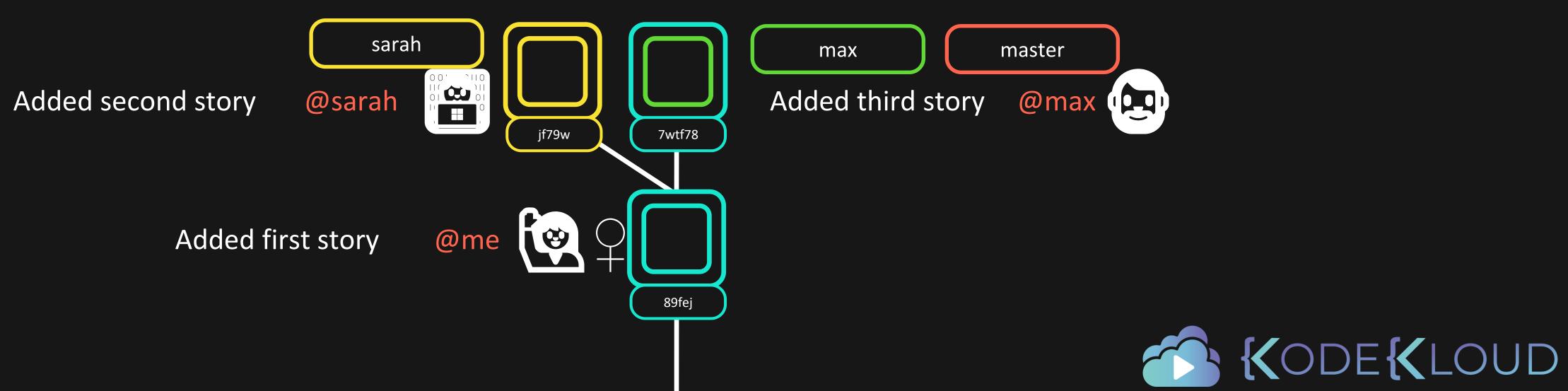
Added first story

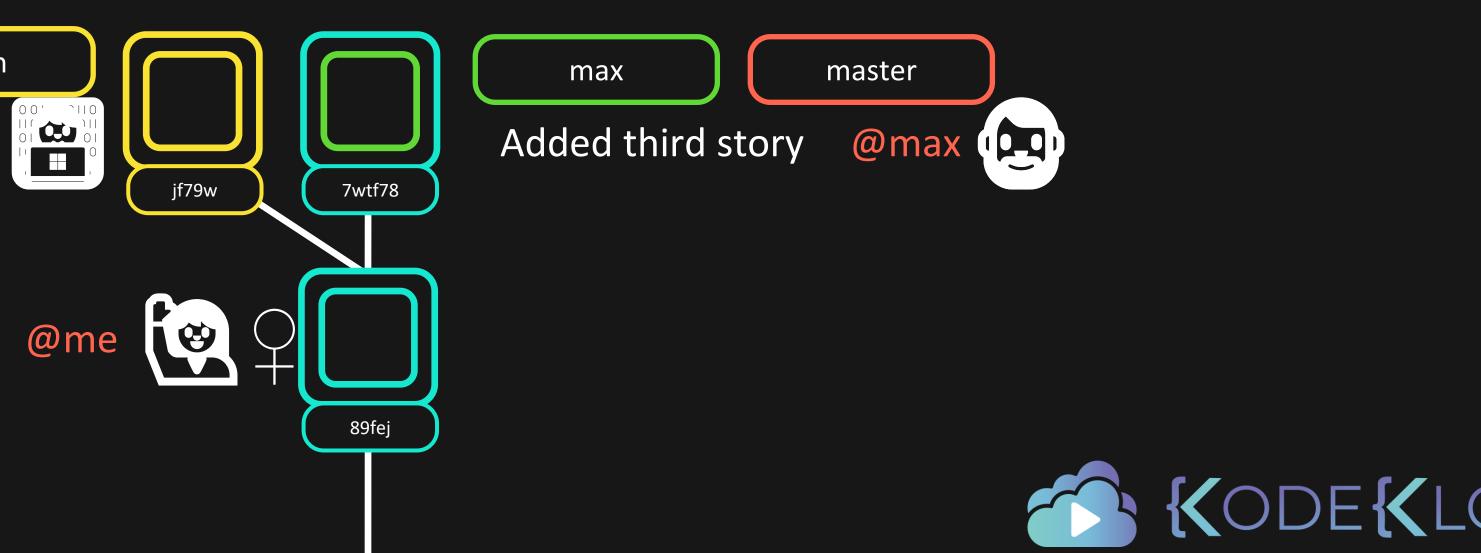






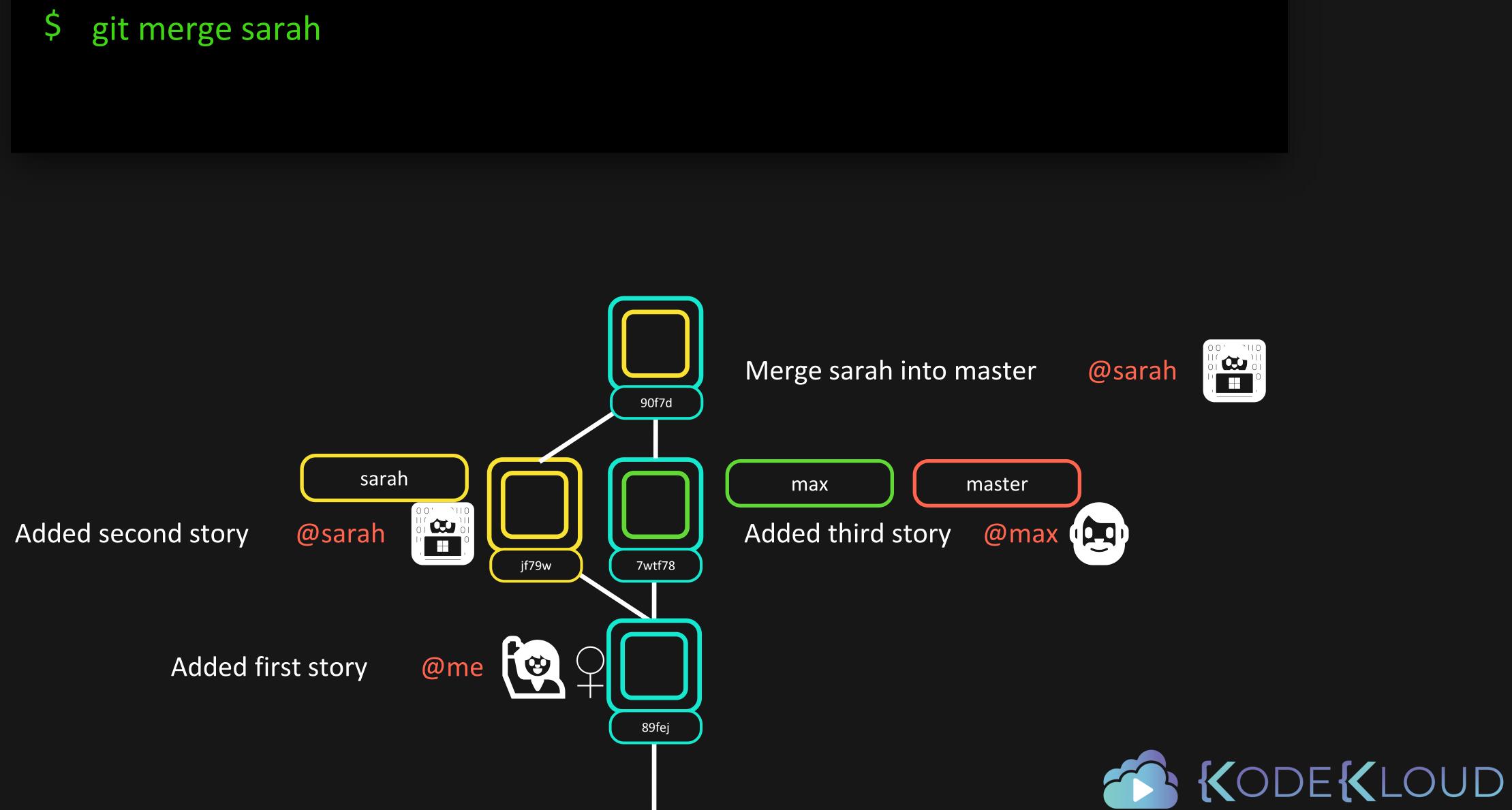




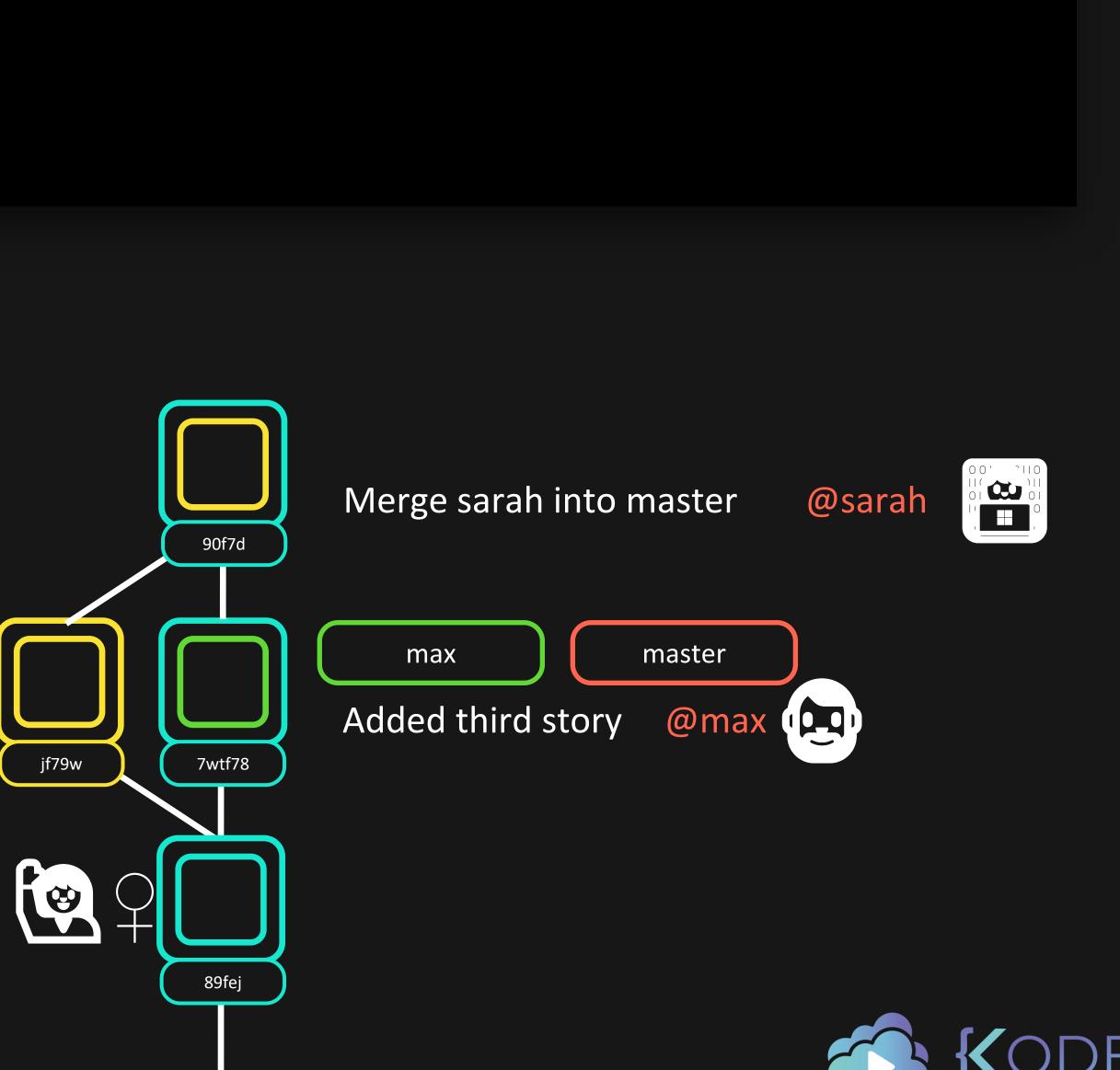








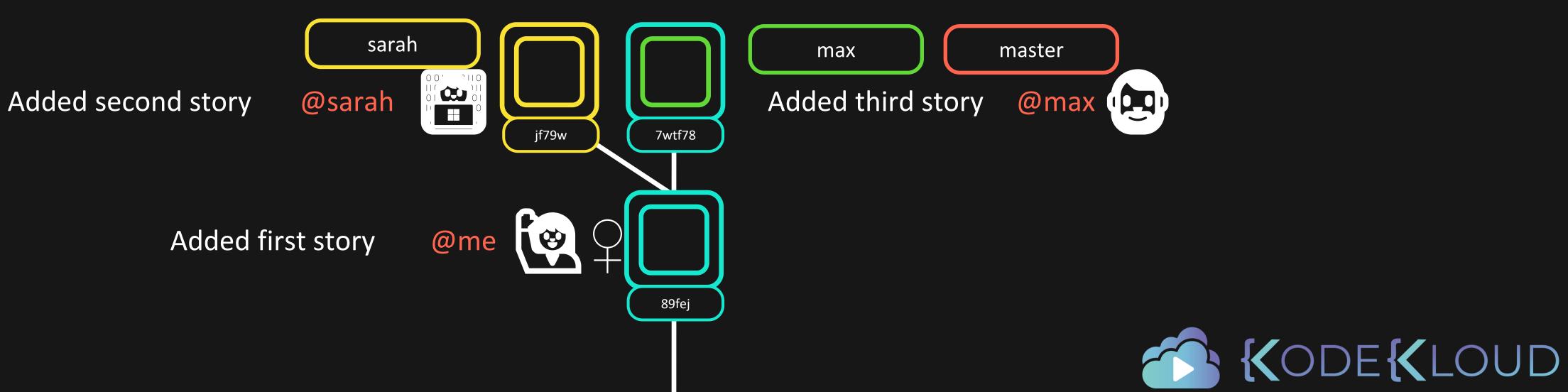








\$ git rebase sarah



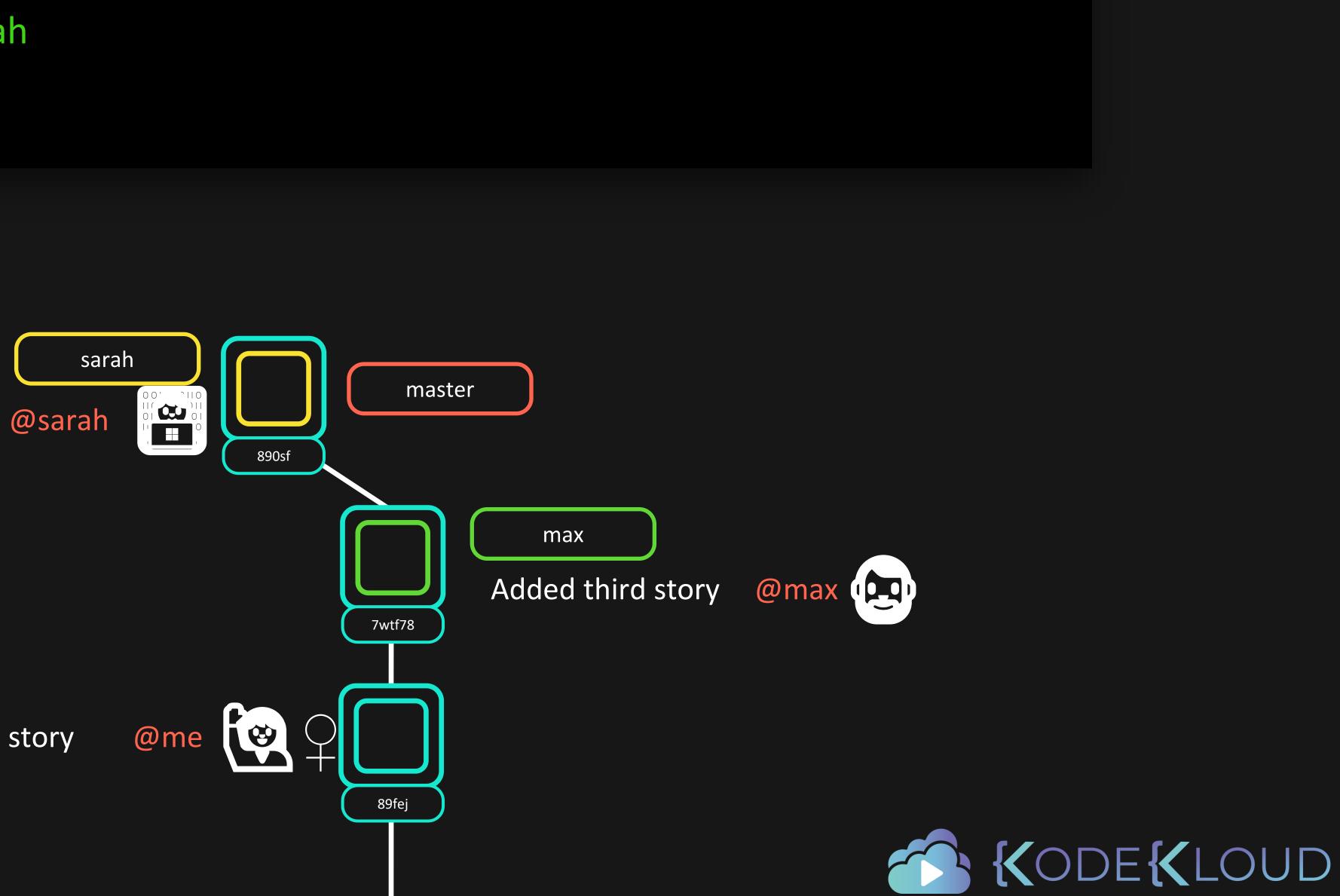


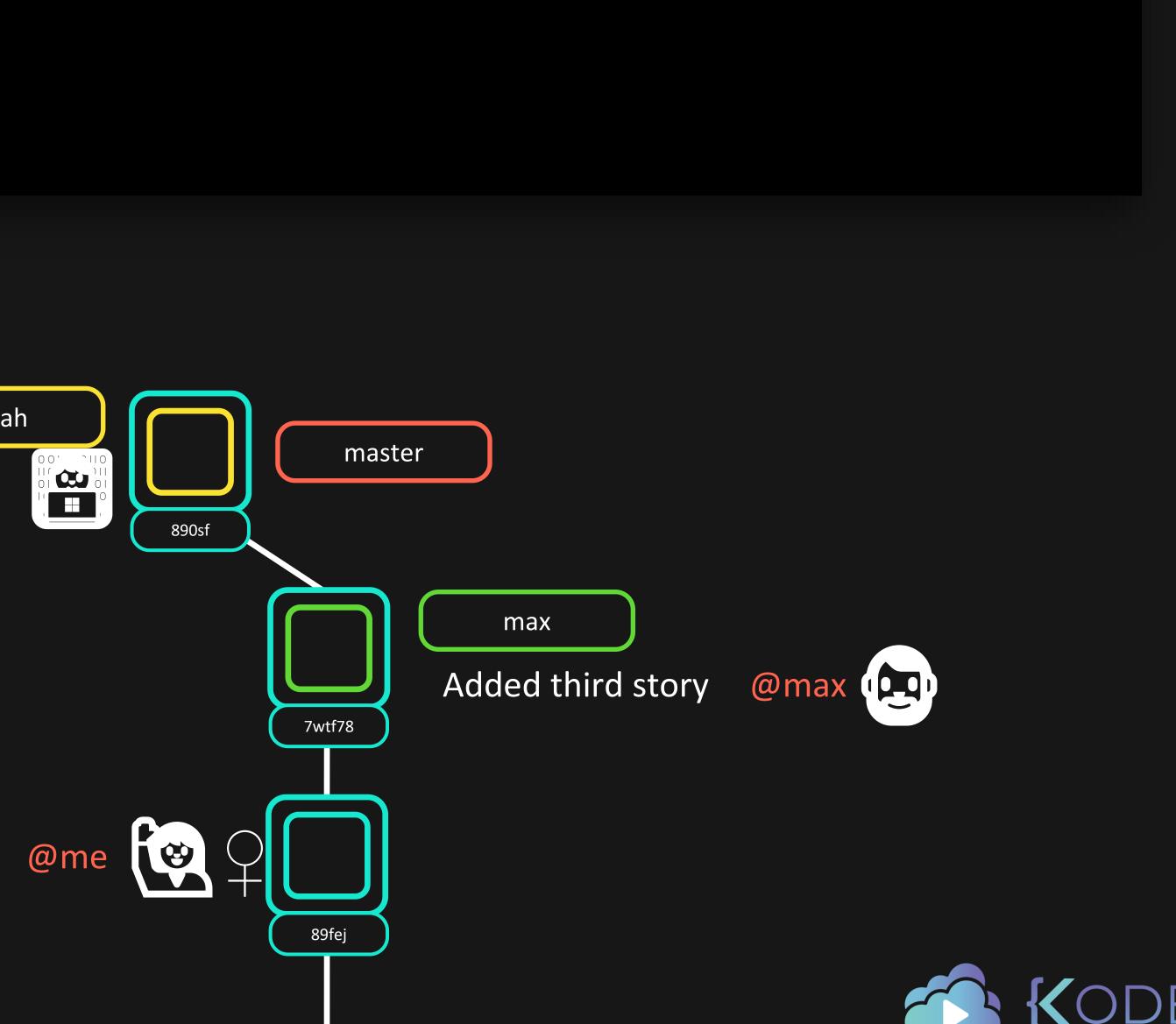




\$ git rebase sarah







Added first story





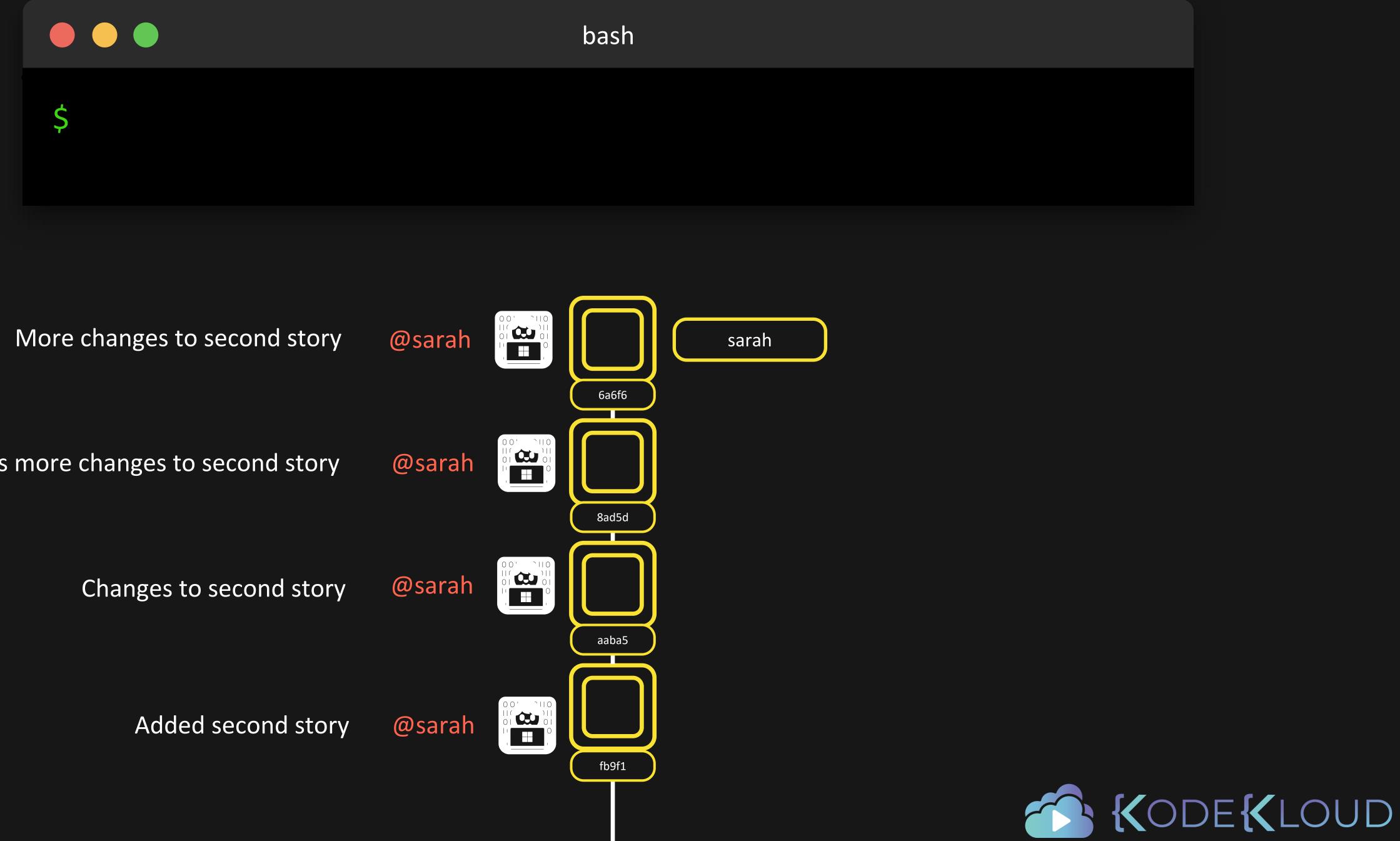


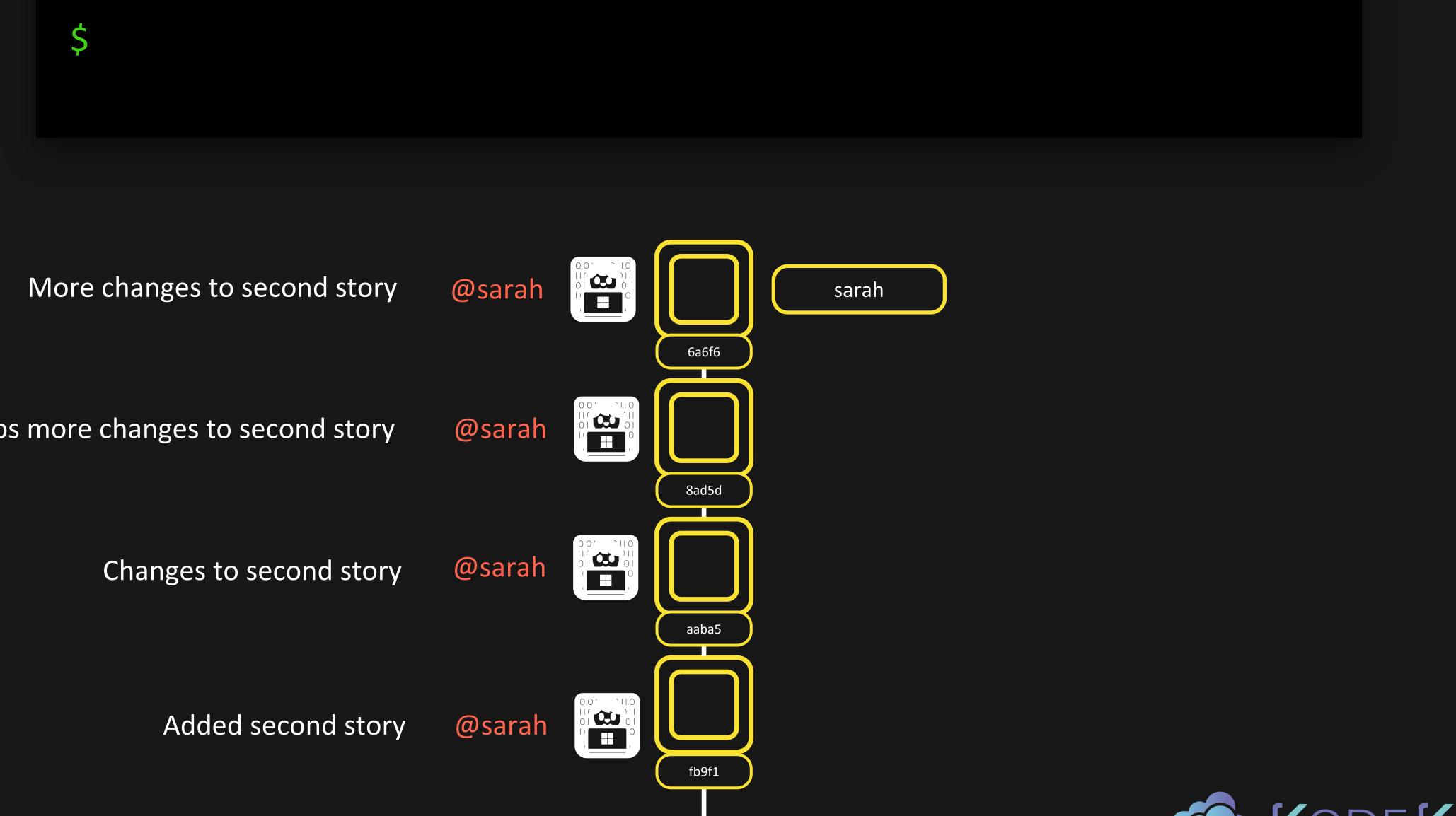
KODEKLOUD

Interactive Rebasing



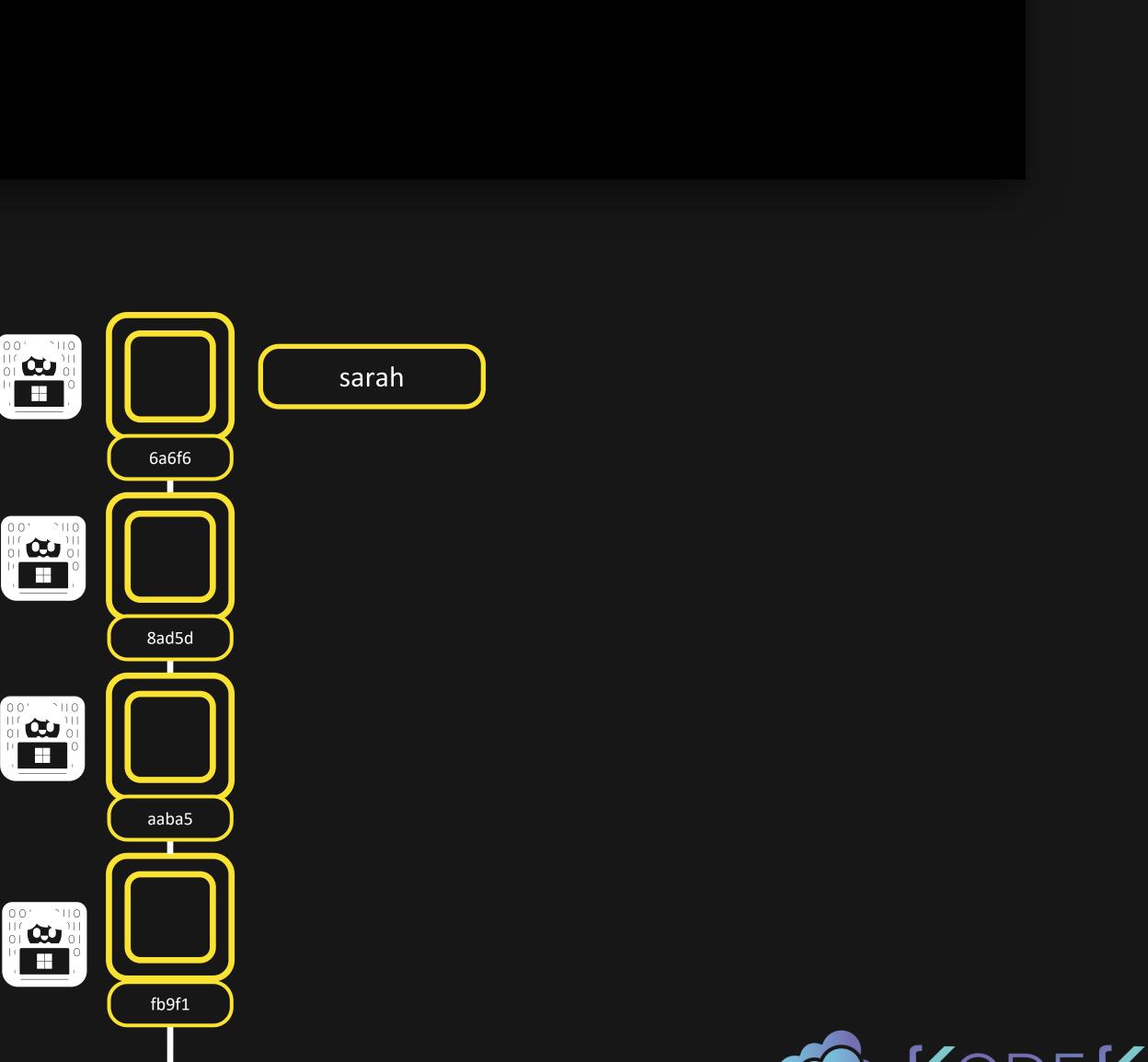






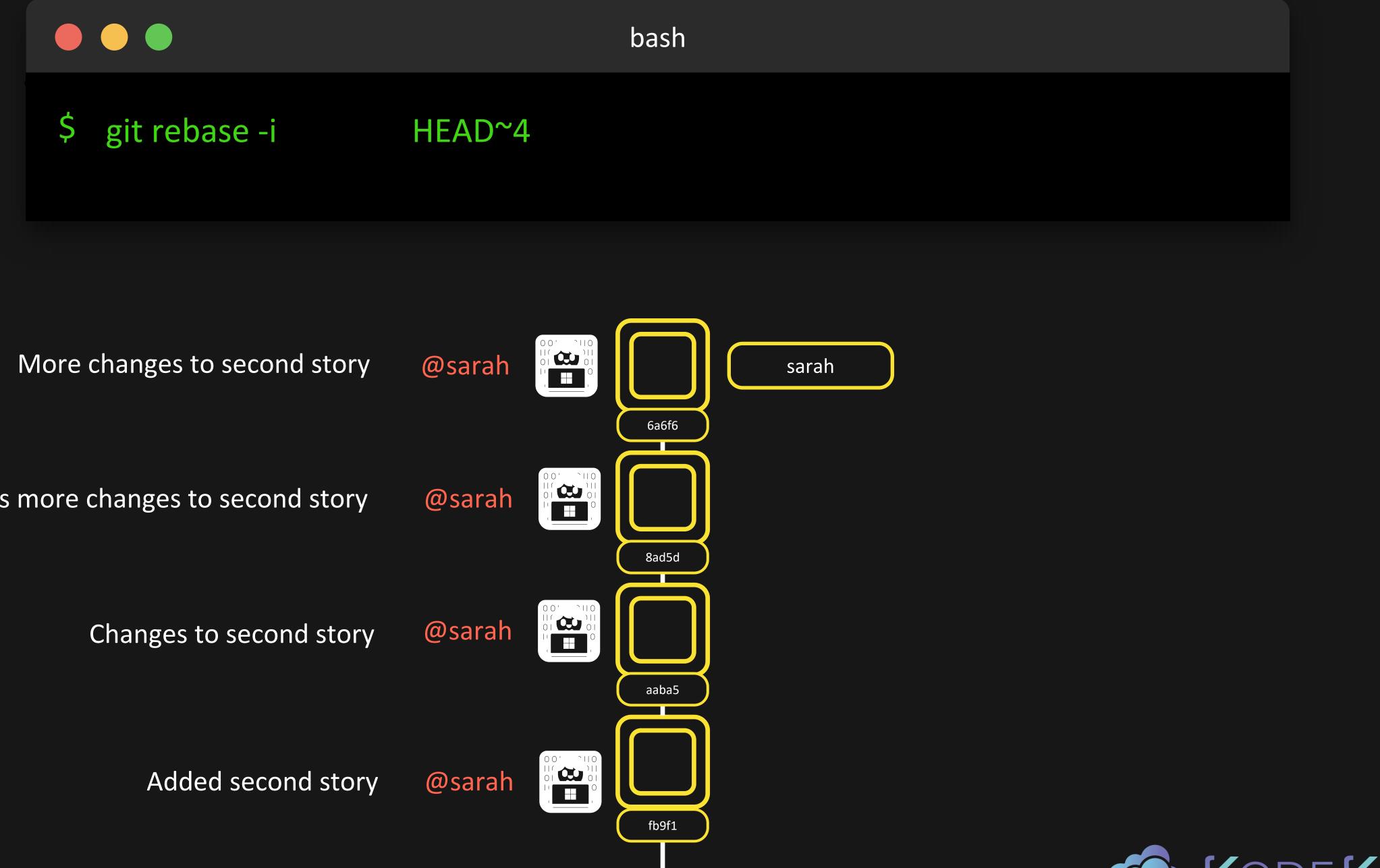


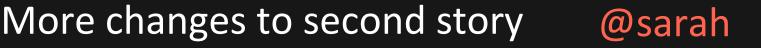






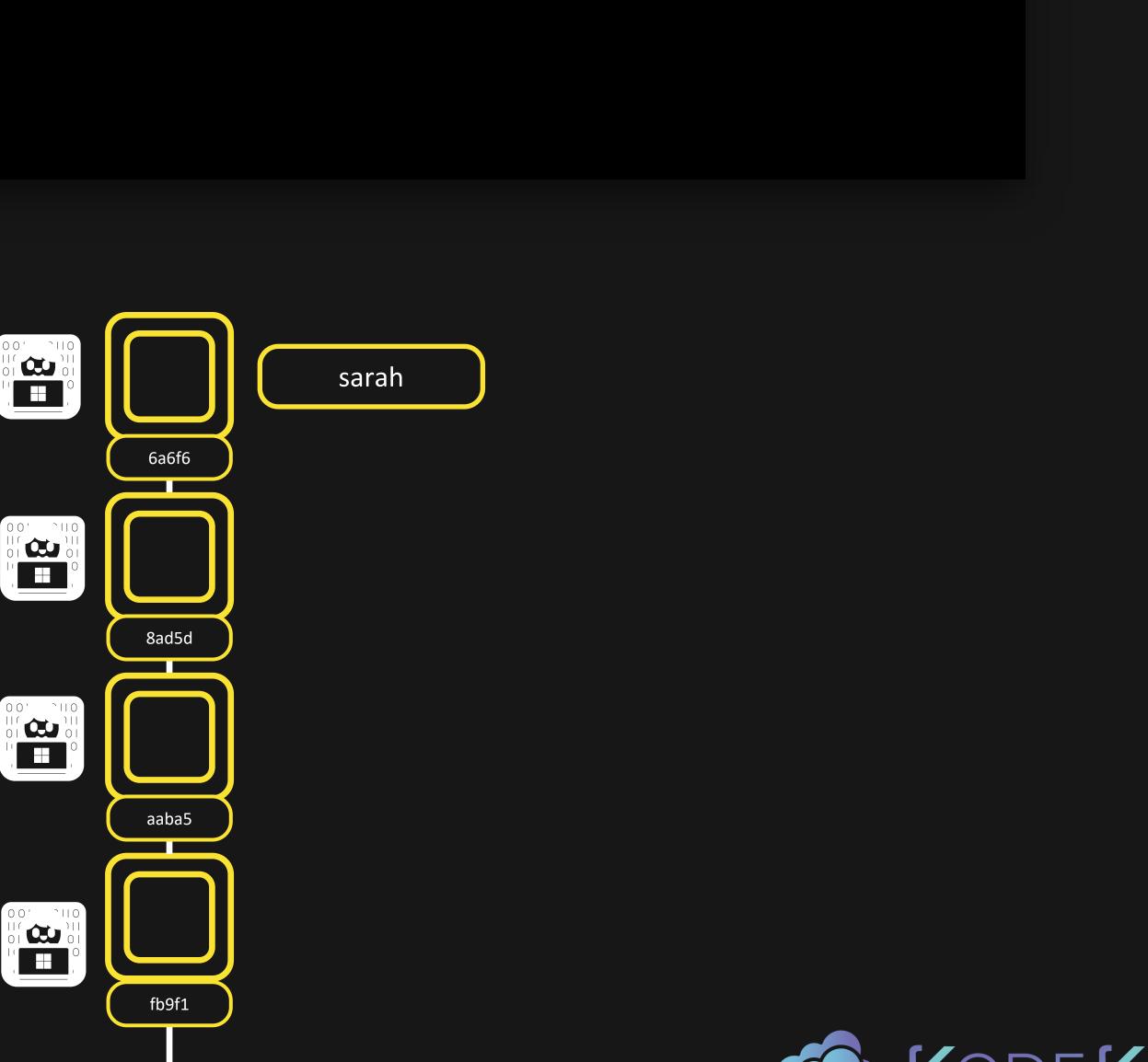














git rebase -i HEAD~4

pick fb9f191 Added second story

aaba5e7 Changes to second story pick

pick 8ad5d7b Oops more changes to second story

pick 6a6f68b More changes to second story

Rebase dc9ad3c..6a6f68b onto 6a6f68b (4 commands)

Commands:

p, pick <commit> = use commit

r, reword <commit> = use commit, but edit the commit message # e, edit <commit> = use commit, but stop for amending # s, squash <commit> = use commit, but meld into previous commit # f, fixup <commit> = like "squash", but discard this commit's log message # x, exec <command> = run command (the rest of the line) using shell # b, break = stop here (continue rebase later with 'git rebase --continue') # d, drop <commit> = remove commit # I, label <label> = label current HEAD with a name

t, reset <label> = reset HEAD to a label

m, merge [-C <commit> | -c <commit>] <label> [# <oneline>]

create a merge commit using the original merge commit's #.

message (or the oneline, if no original merge commit was #.

specified). Use -c <commit> to reword the commit message. #.





git rebase -i Ş HEAD~4

pick fb9f191 Added second story

aaba5e7 Changes to second story pick

pick 8ad5d7b Oops more changes to second story

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x, exec <command> = run command (the rest of the line) using shell

b, break = stop here (continue rebase later with 'git rebase --continue')

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I, label <label> = label current HEAD with a name

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m, merge [-C <commit> | -c <commit>] <label> [# <oneline>]

- create a merge commit using the original merge commit's #.
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- specified). Use -c <commit> to reword the commit message. #.





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pick fb9f191 Added second story

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Rebase dc9ad3c..6a6f68b onto 6a6f68b (4 commands)

Commands:

p, pick <commit> = use commit

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x, exec <command> = run command (the rest of the line) using shell

b, break = stop here (continue rebase later with 'git rebase --continue')

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I, label <label> = label current HEAD with a name

t, reset <label> = reset HEAD to a label

m, merge [-C <commit> | -c <commit>] <label> [# <oneline>]

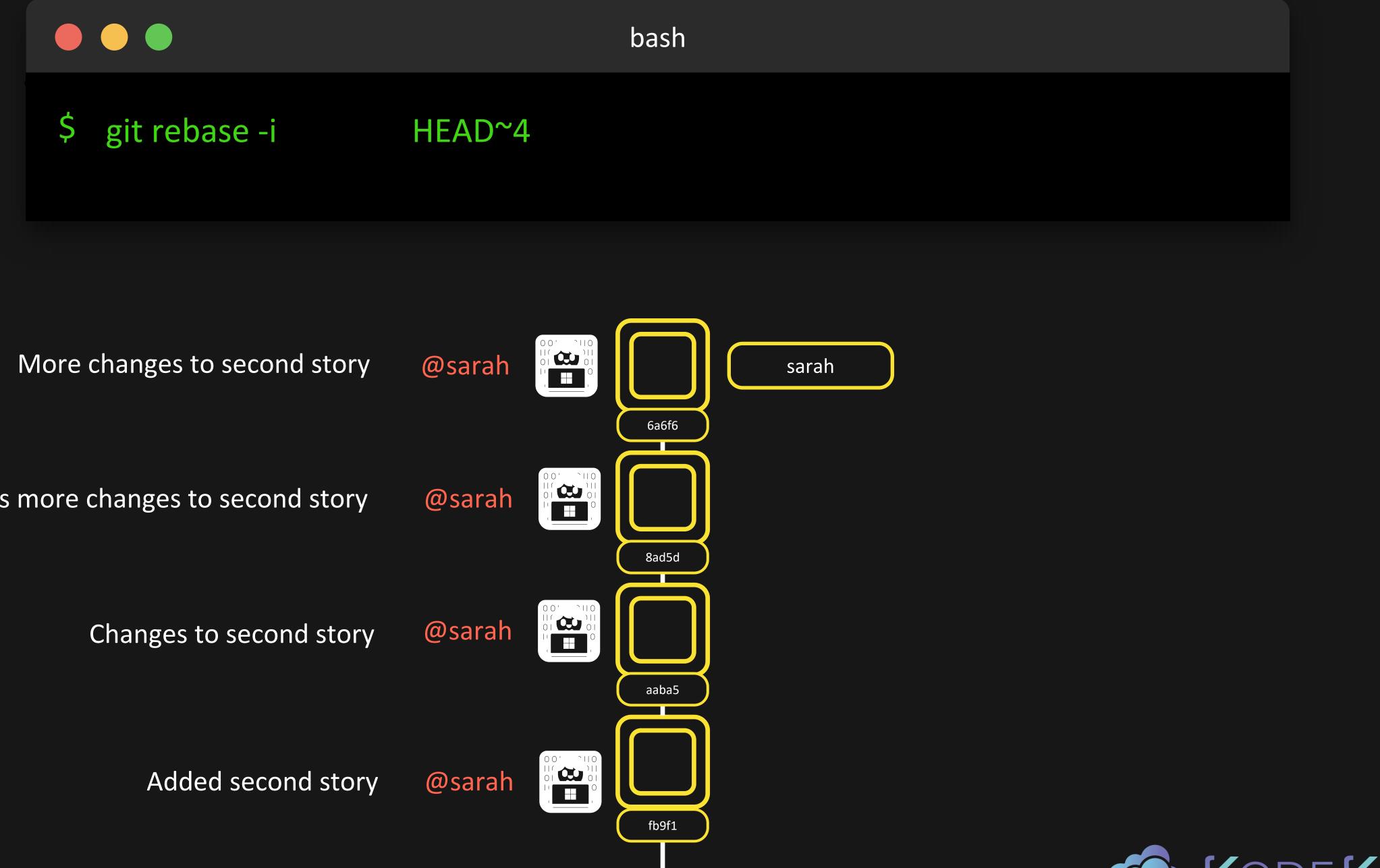
create a merge commit using the original merge commit's #.

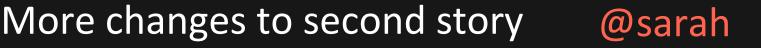
message (or the oneline, if no original merge commit was #.

specified). Use -c <commit> to reword the commit message. #.



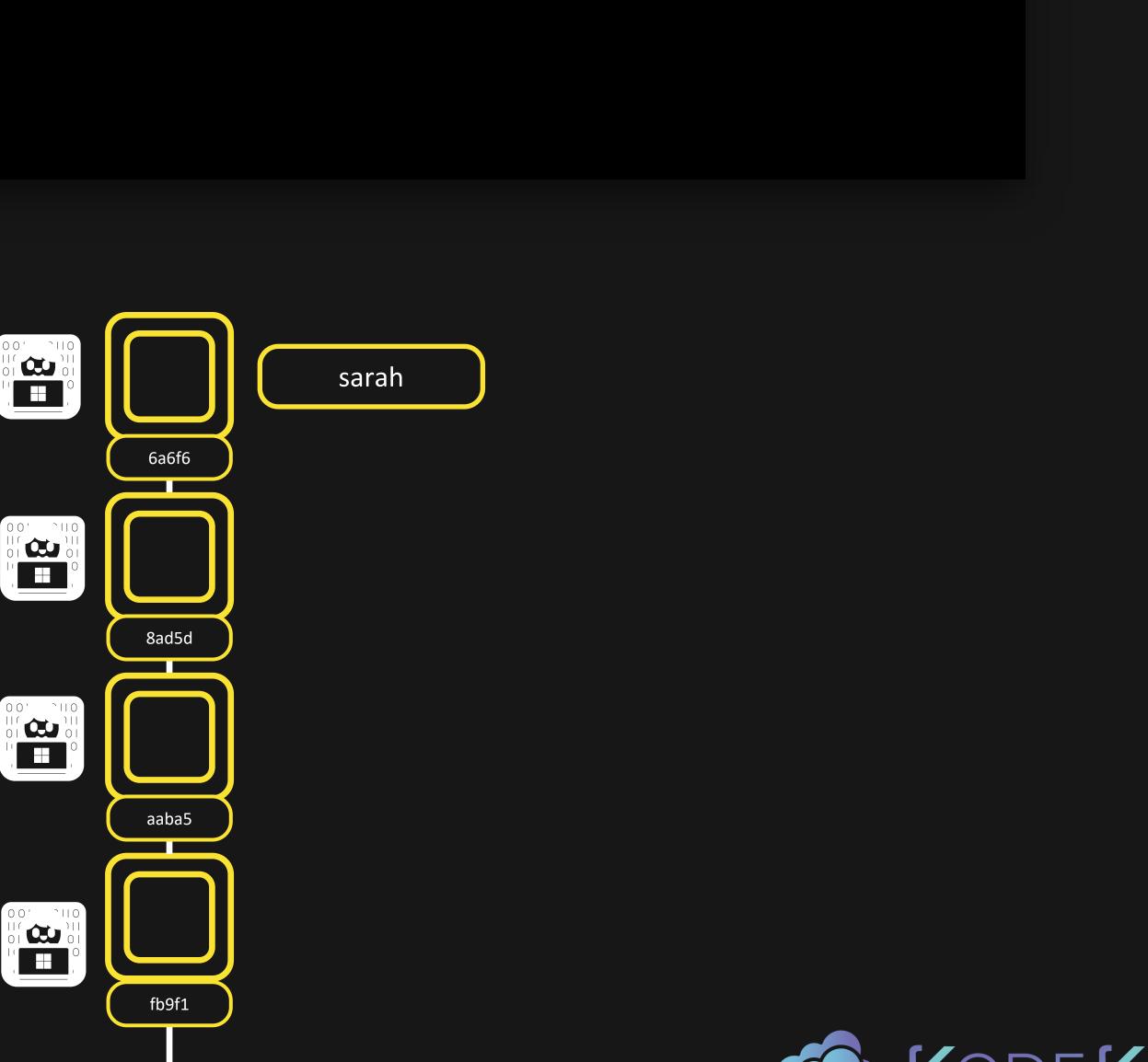










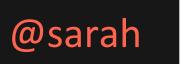






\$ git rebase -i HEAD~4

Added second story Changes to second story Oops more changes to second story More changes to second story











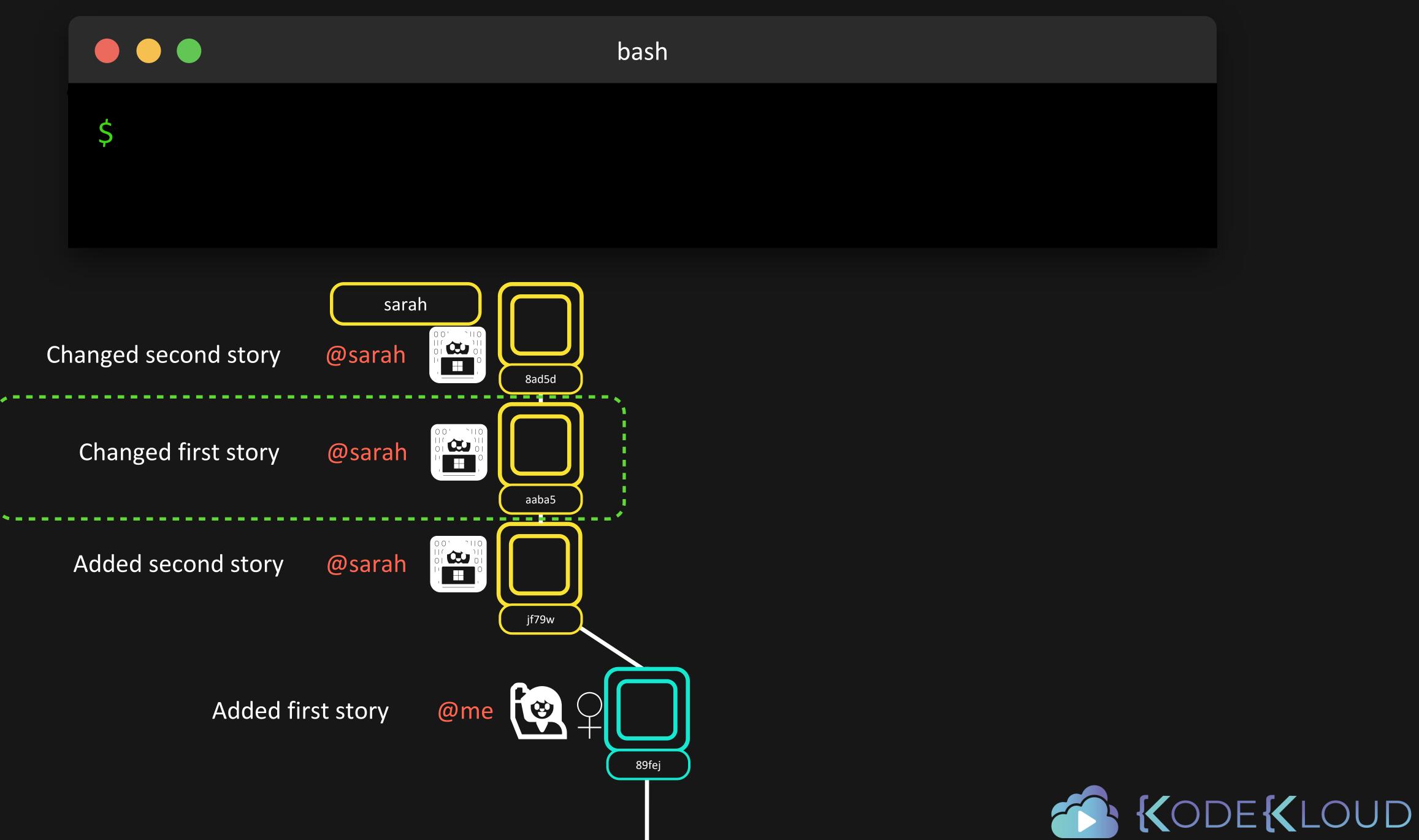


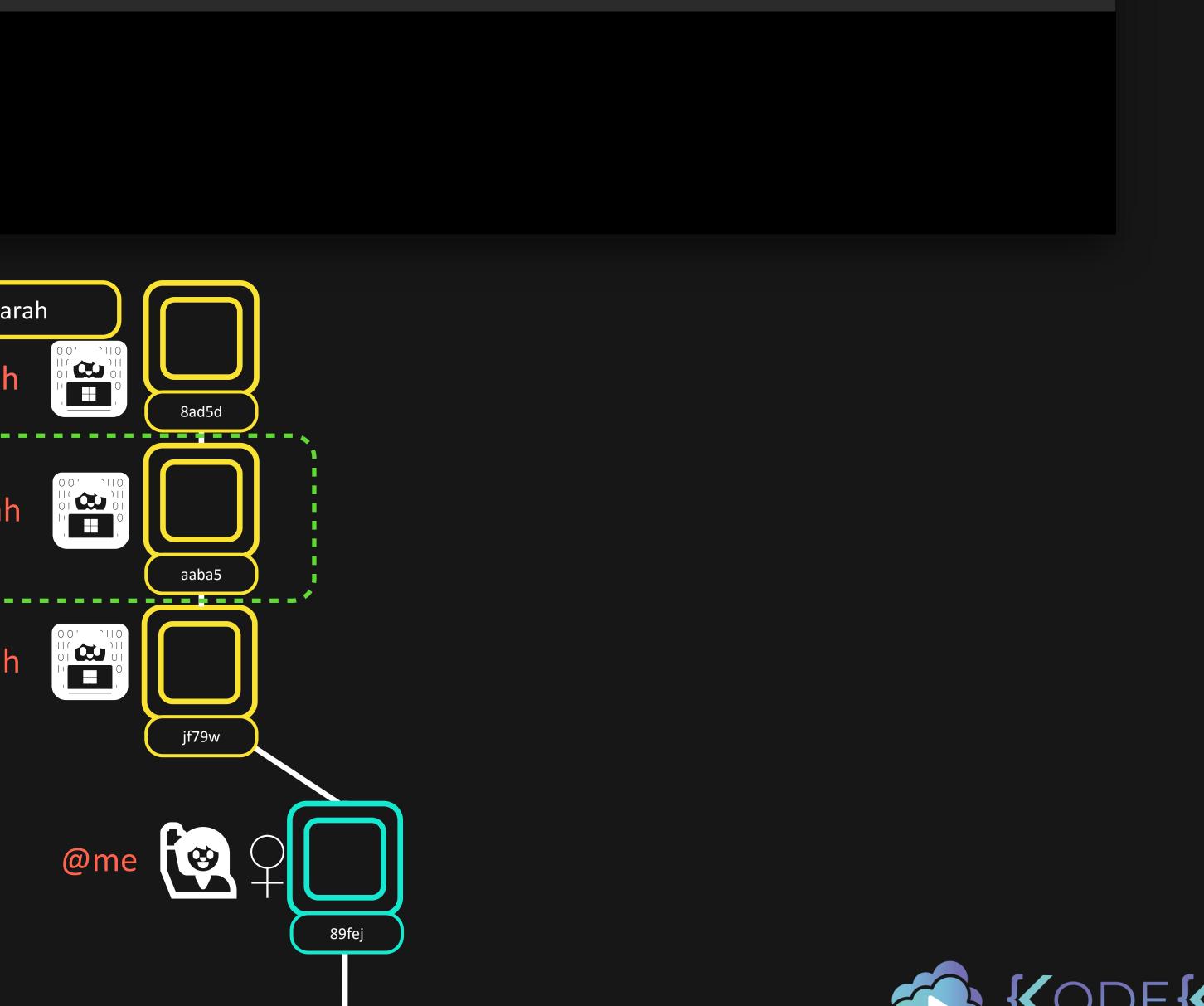
KODEKLOUD

Cherry-Picking





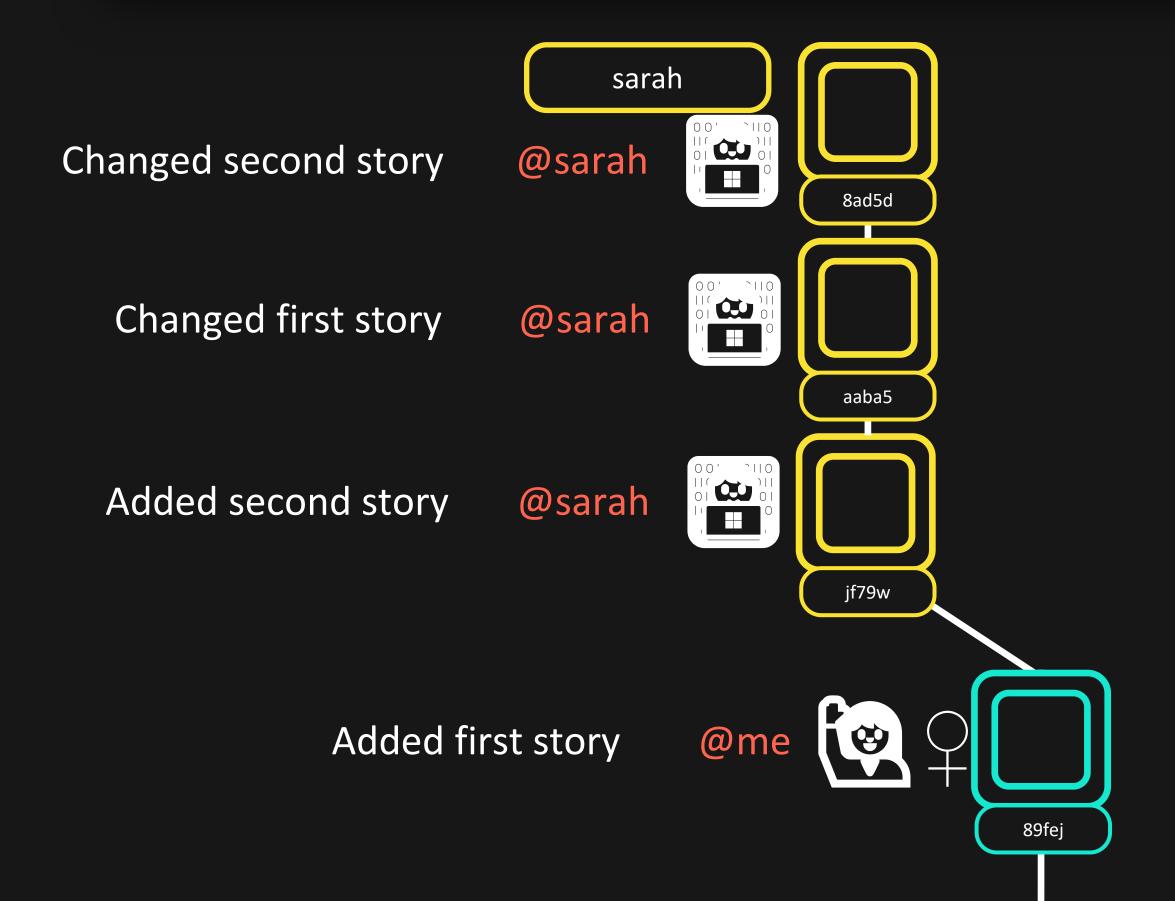








\$ git cherry-pick aaba5

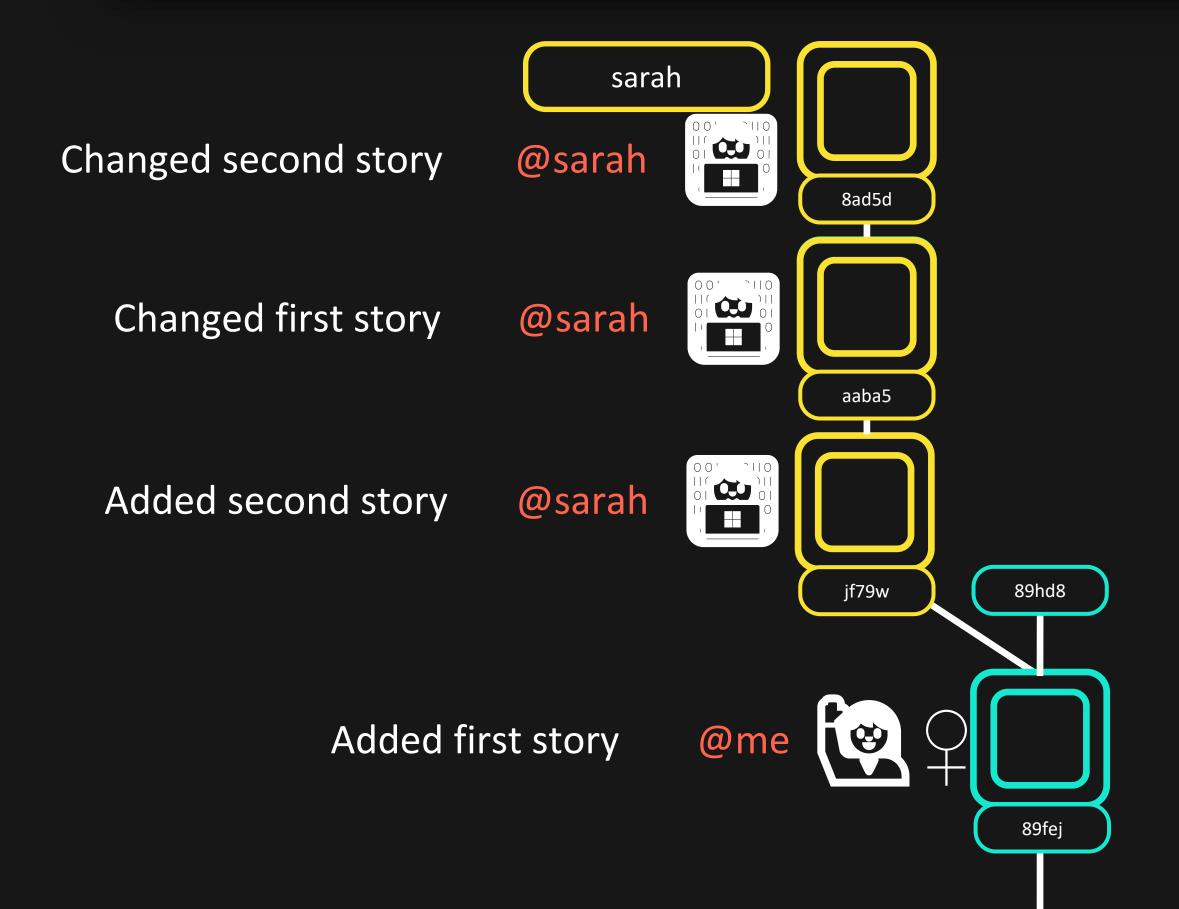








\$ git cherry-pick aaba5

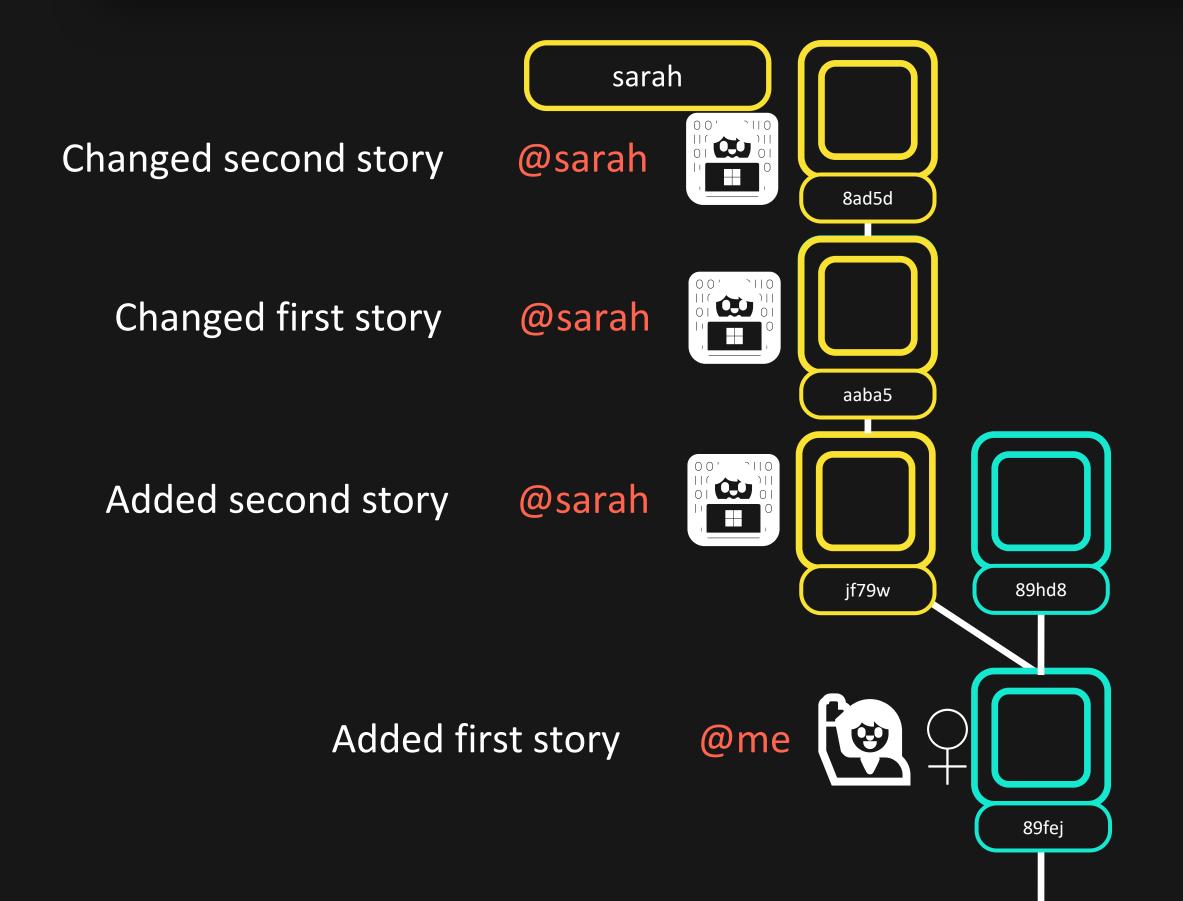








\$ git cherry-pick aaba5









\$ echo "This is my first story" >> first_story.txt





Porcelain Commands

git add

git status

git commit

git stash

•••

Plumbing Commands

git hash-object

git ls-files

git rev-parse

git ls-remote

 $\bullet \bullet \bullet$







\$ git hash-object first_story.txt

bea8d7fee8e7b11c2235ca623935e6ccccd8bac3







\$ git hash-object first_story.txt

bea8d7fee8e7b11c2235ca62

bash

3935e6ccccd8bac3







- \$ git add first_story.txt
- \$ git commit -m "First story"
- \$ Is ./.git/objects
 - 26 be a0 info pack





- \$ git add first_story.txt
- \$ git commit -m "First story"
- \$ Is ./.git/objects
 - 26 be a0 info pack
- \$ ls ./.git/objects/be
 - a8d7fee8e7b11c2235ca623935e6ccccd8bac3

bash

CODE KLOUD



- \$ git add first_story.txt
- \$ git commit -m "First story"
- \$ Is ./.git/objects
 - 26 be a0 info pack
- \$ Is ./.git/objects/be
 - a8d7fee8e7b11c2235ca623935e6ccccd8bac3
- git cat-file -p bea8d7 \$

"This is my first story"

bash

KODEKLOUD



\$ git cat-file -p 4cdf4

tree 2ea7de7ff3bd48cbb020b215b36feb67ee7f9a30 parent f4e830485cc852686cf115e75a79cbb41a0de713 author Lydia Hallie <e@mail.com> 1594547678 +0200 committer Lydia Hallie <e@mail.com> 1594547678 +0200

First story





\$ git cat-file -p 4cdf4

tree 2ea7de7ff3bd48cbb020b215b36feb67ee7f9a30 parent f4e830485cc852686cf115e75a79cbb41a0de713 author Lydia Hallie <e@mail.com> 1594547678 +0200 committer Lydia Hallie <e@mail.com> 1594547678 +0200

First story





Git Object Contents

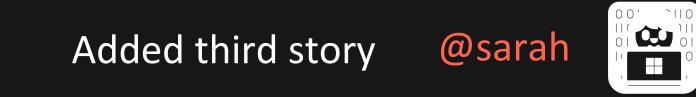
commit

tree

blob











Added second story @sarah



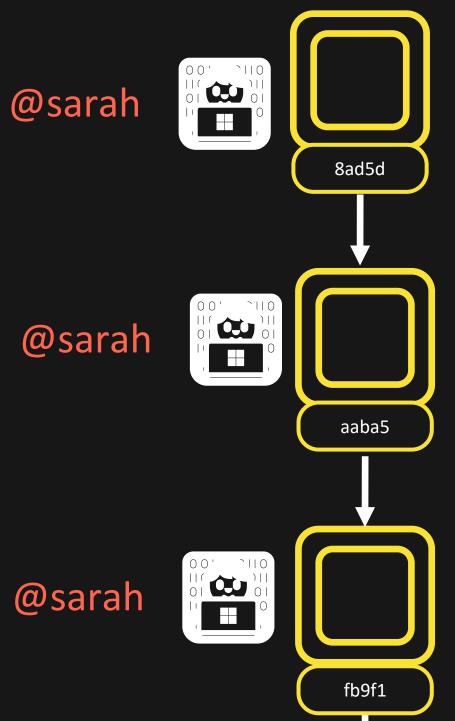






Added third story @sarah





Added second story

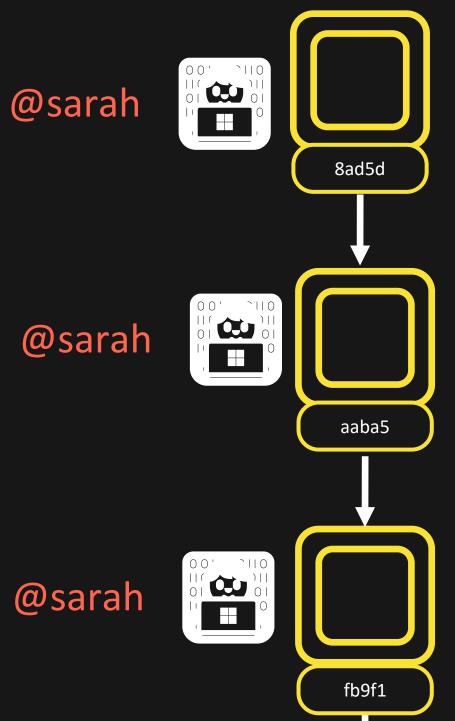






Added third story @sarah

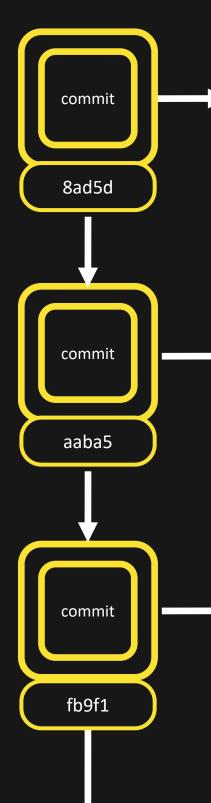


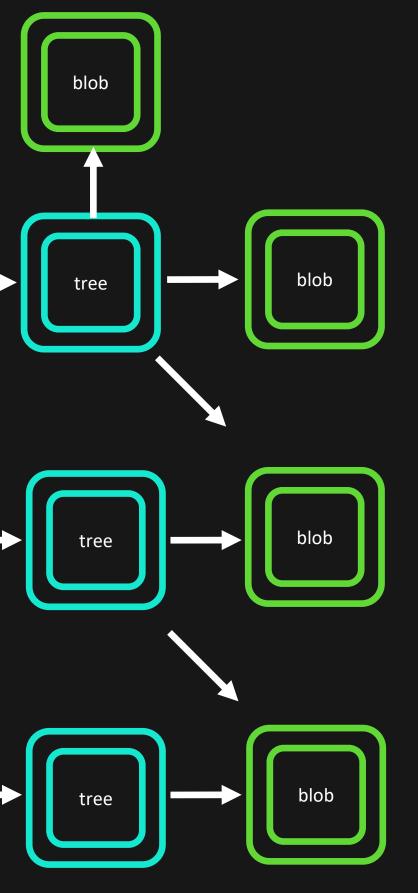


Added second story





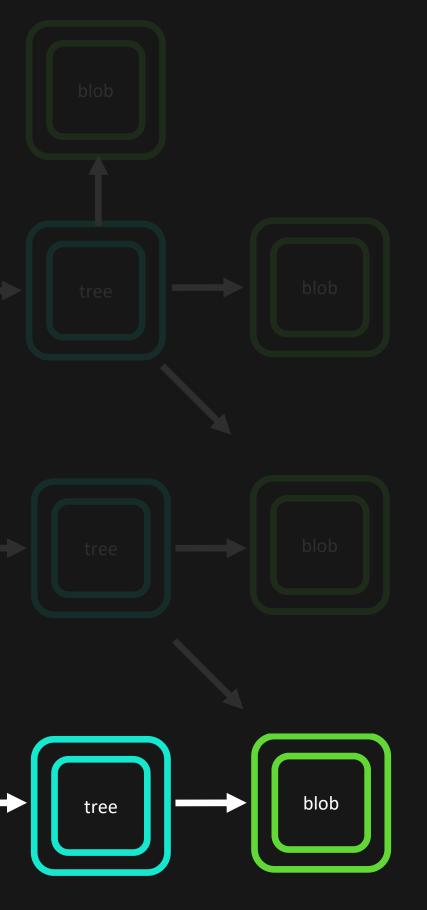






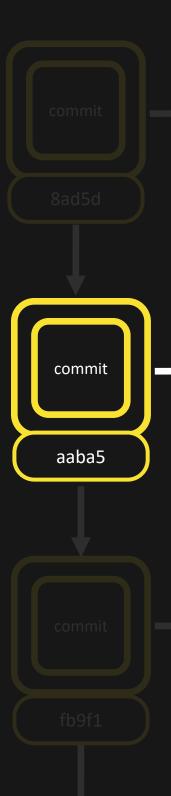


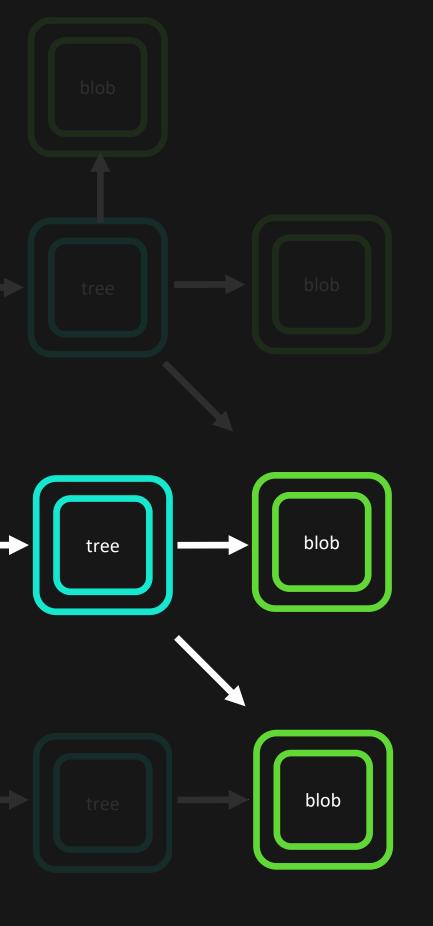








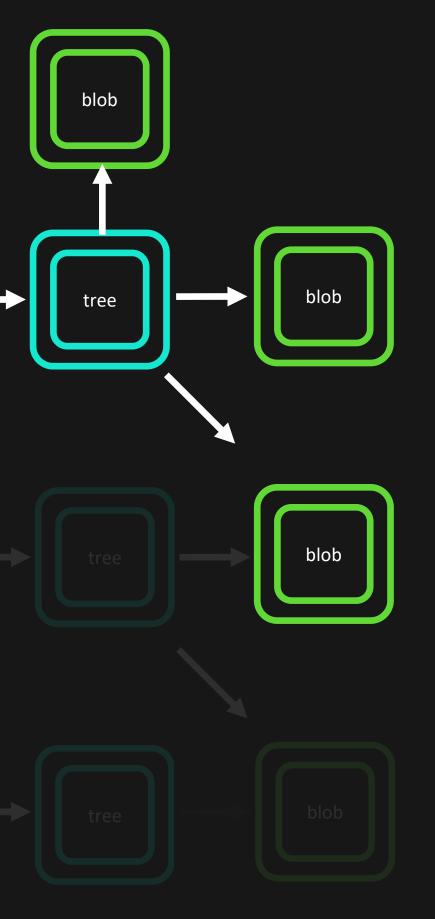


















KODEKLOUD

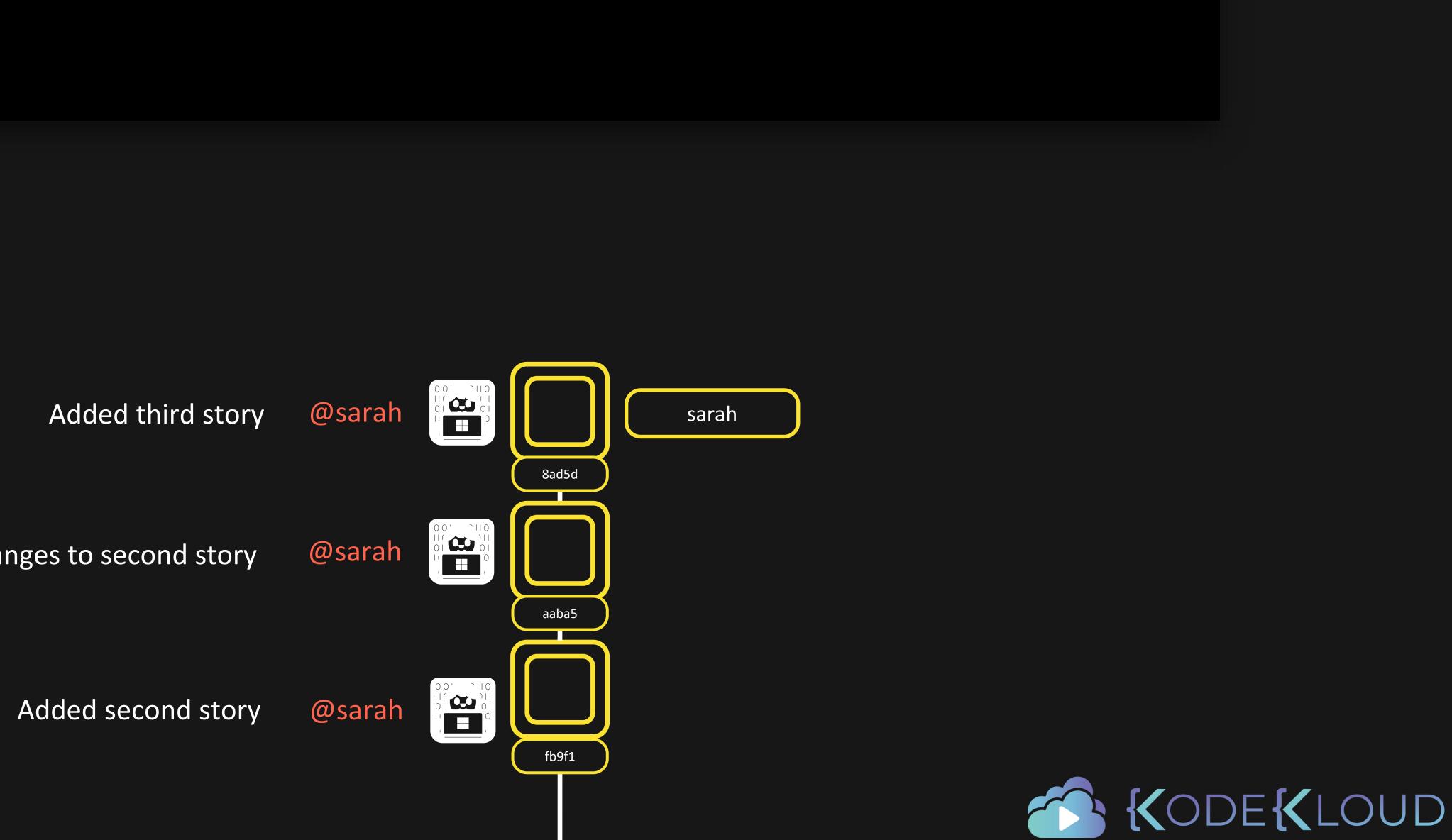
Resetting and Reverting

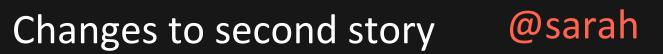


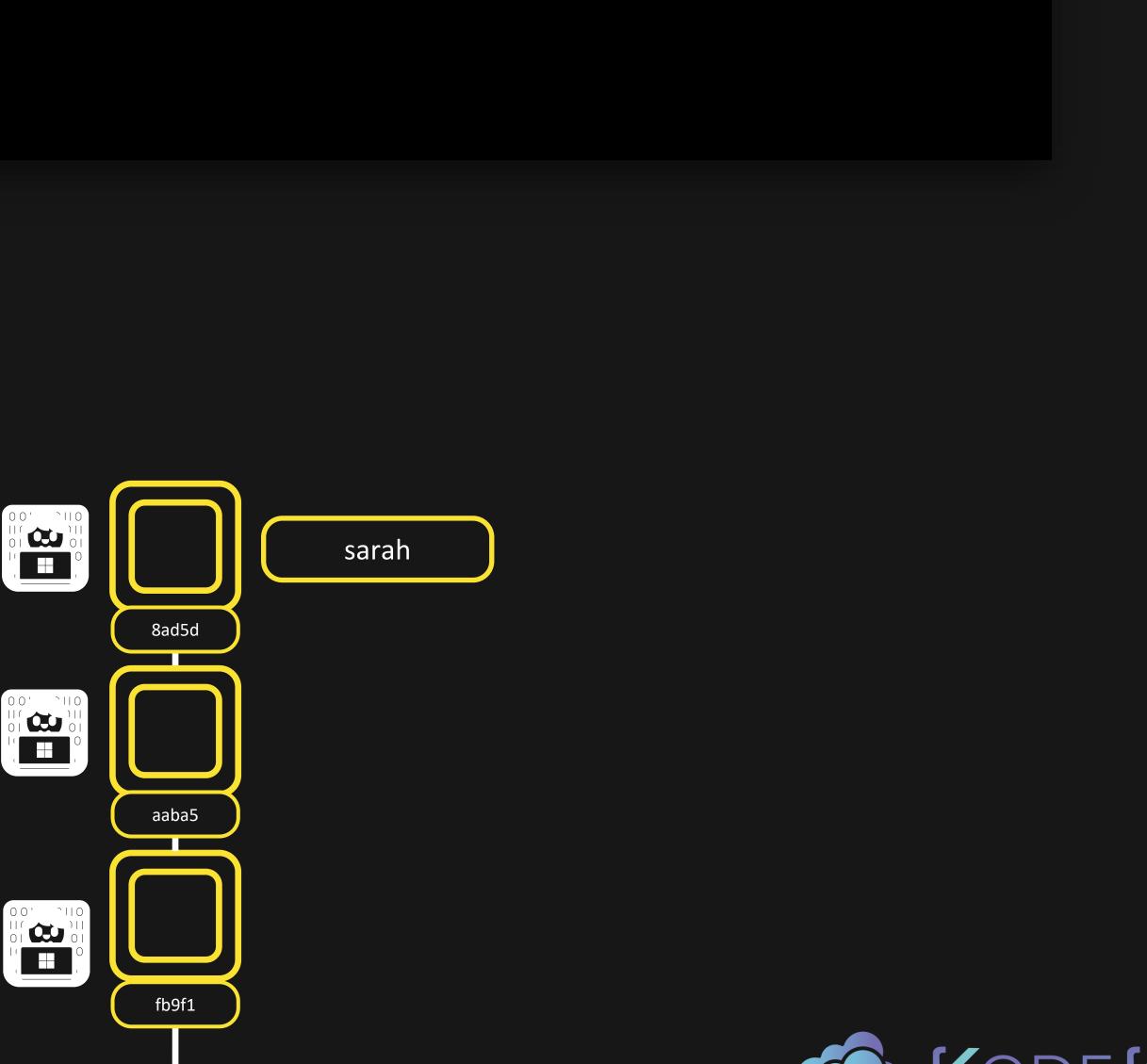








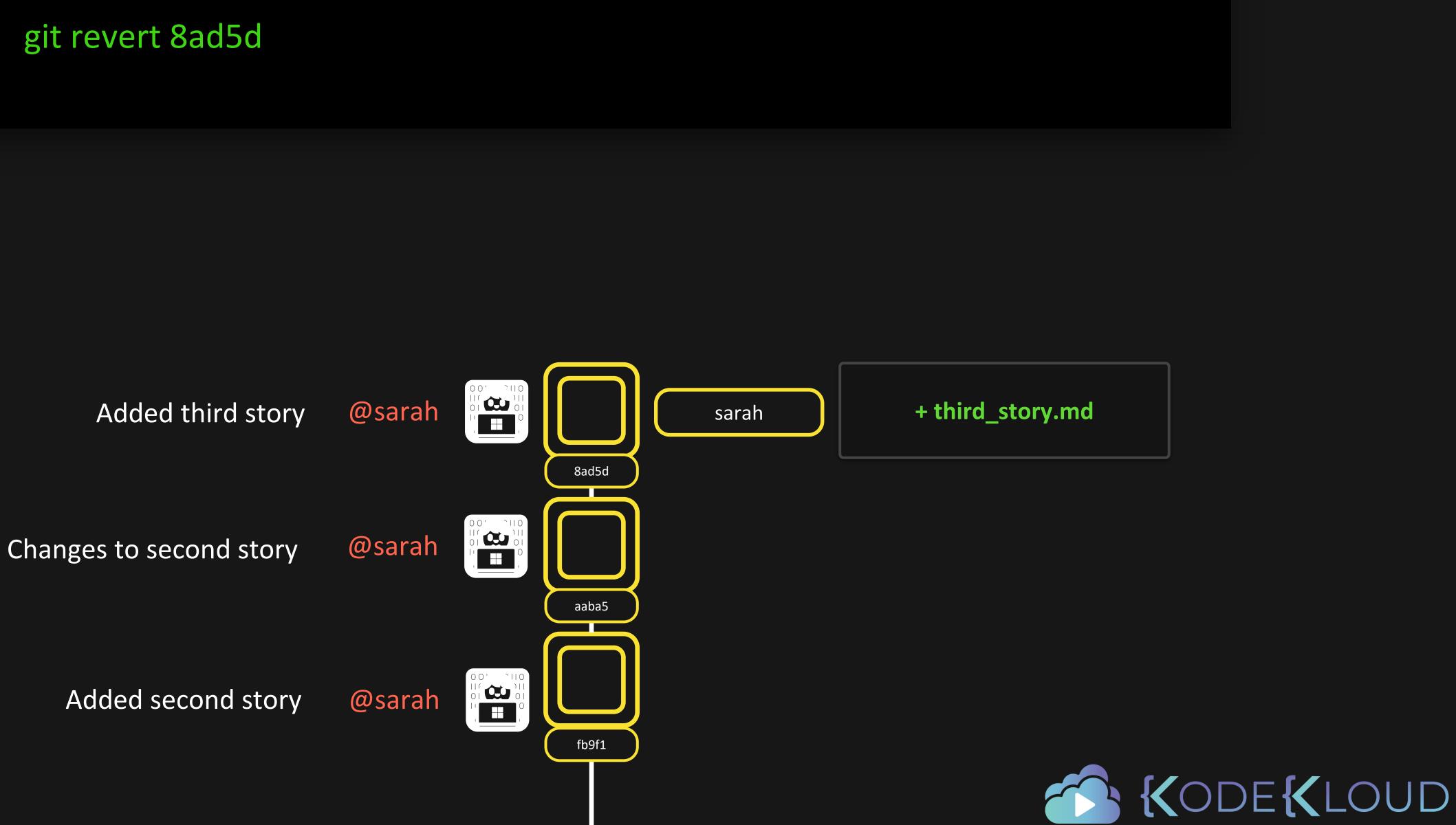






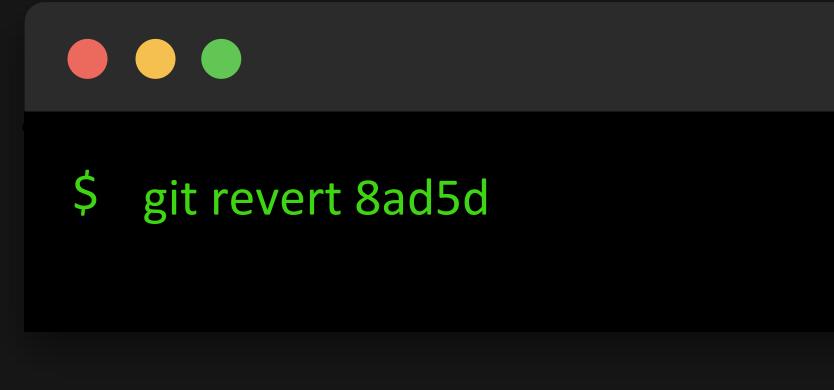


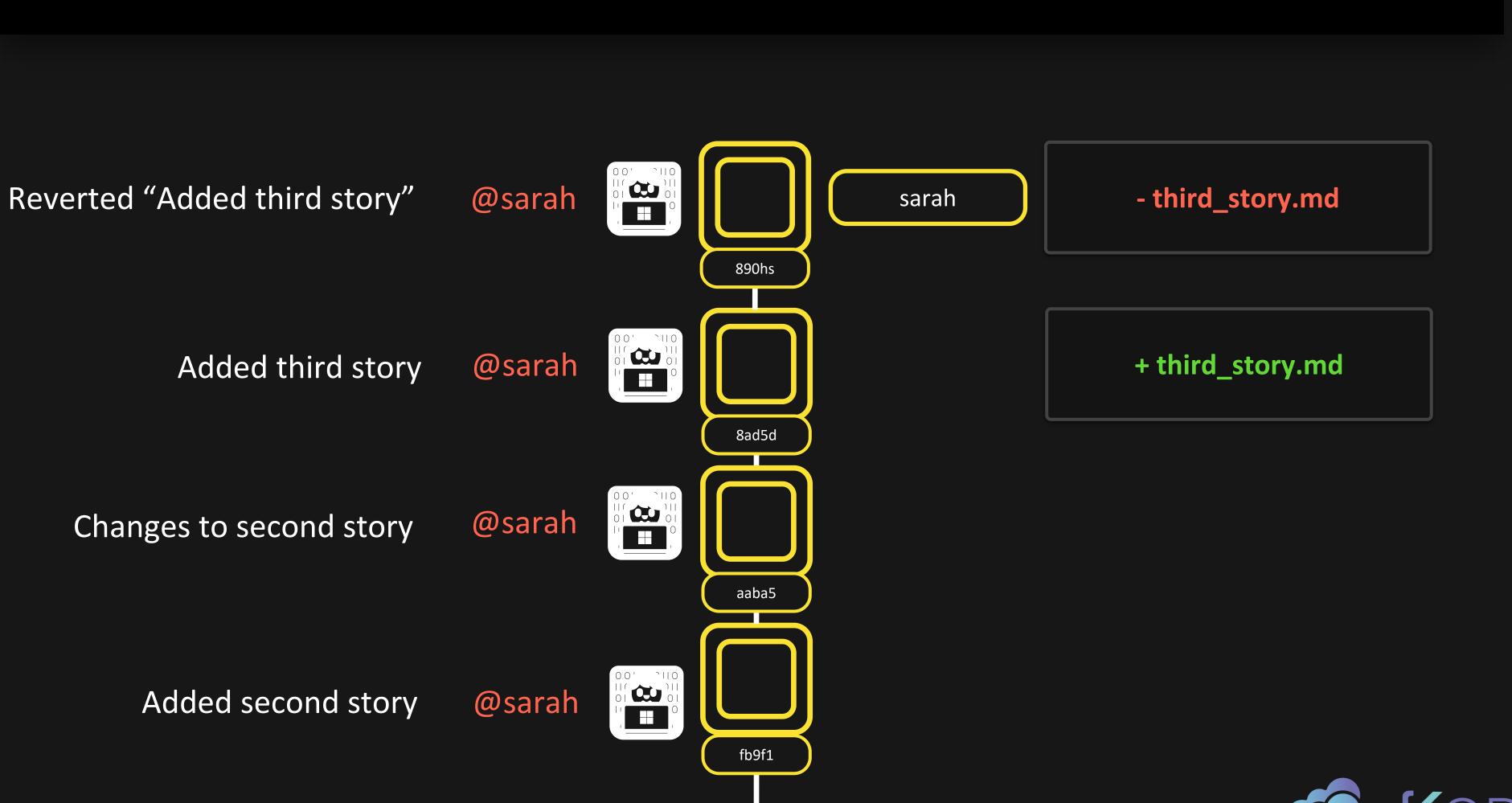
\$ git revert 8ad5d









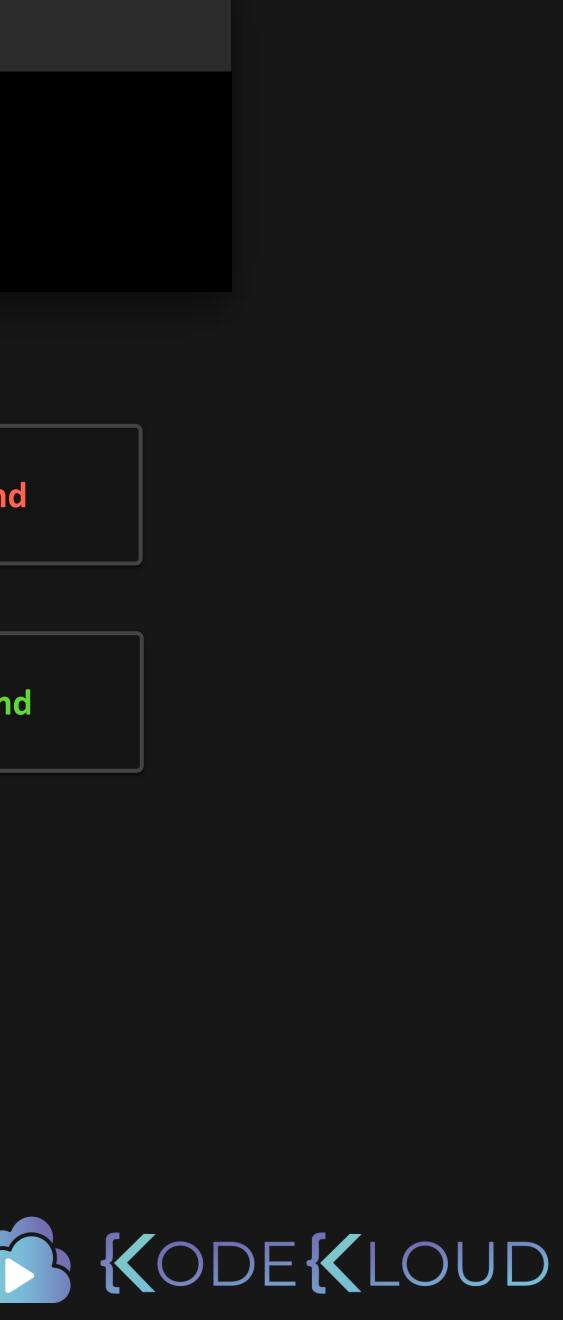






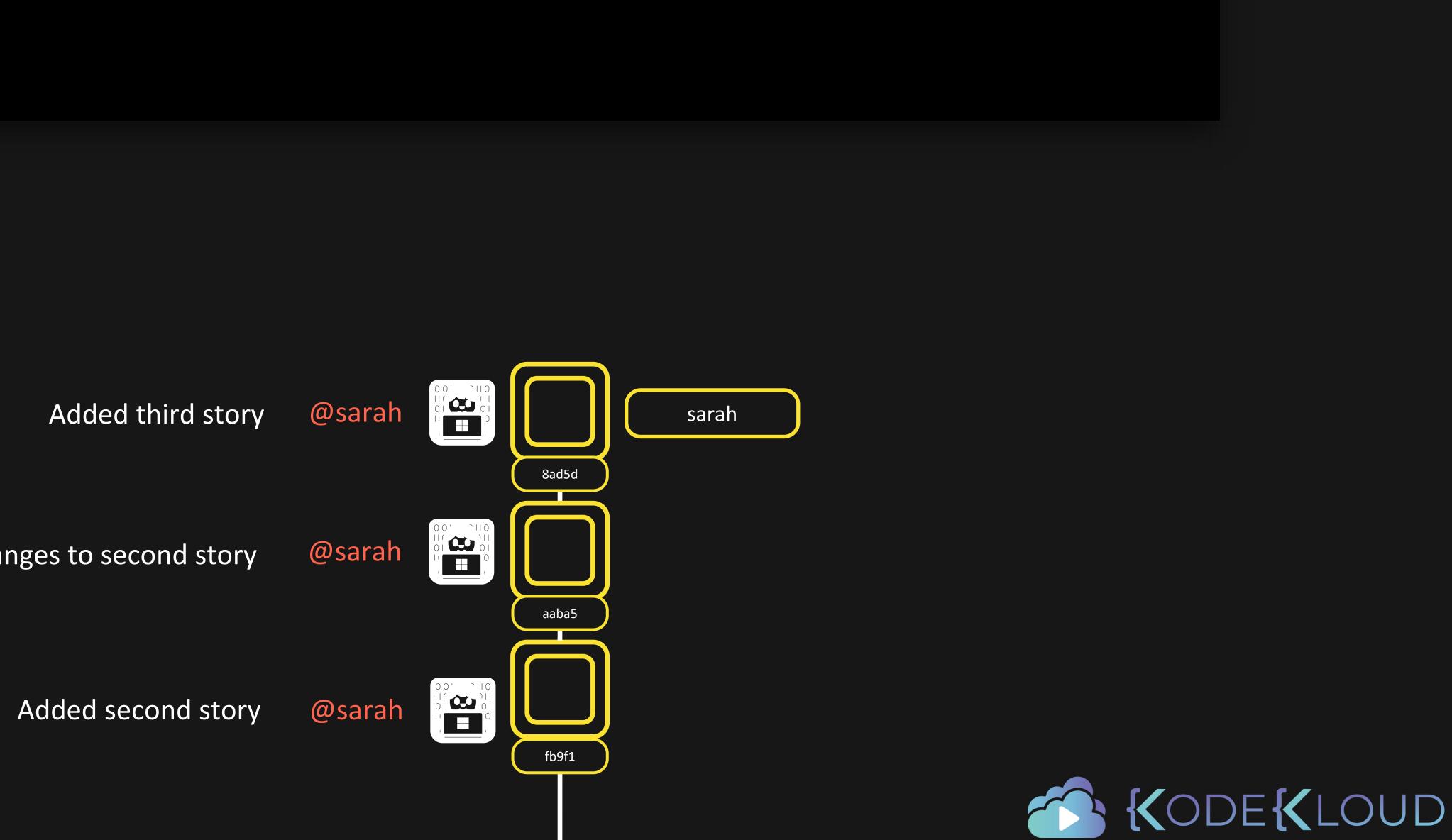


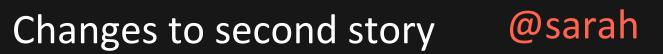


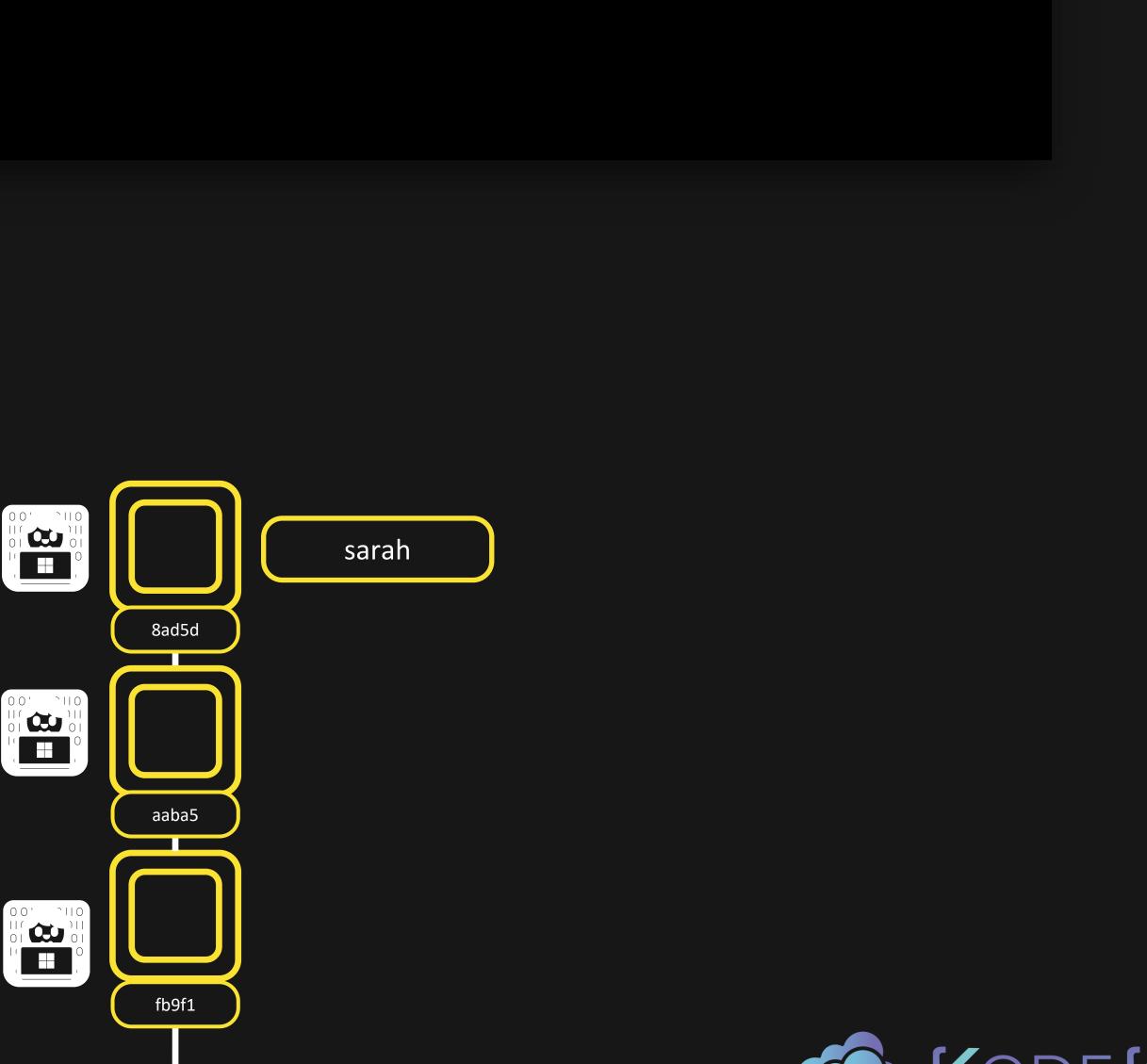








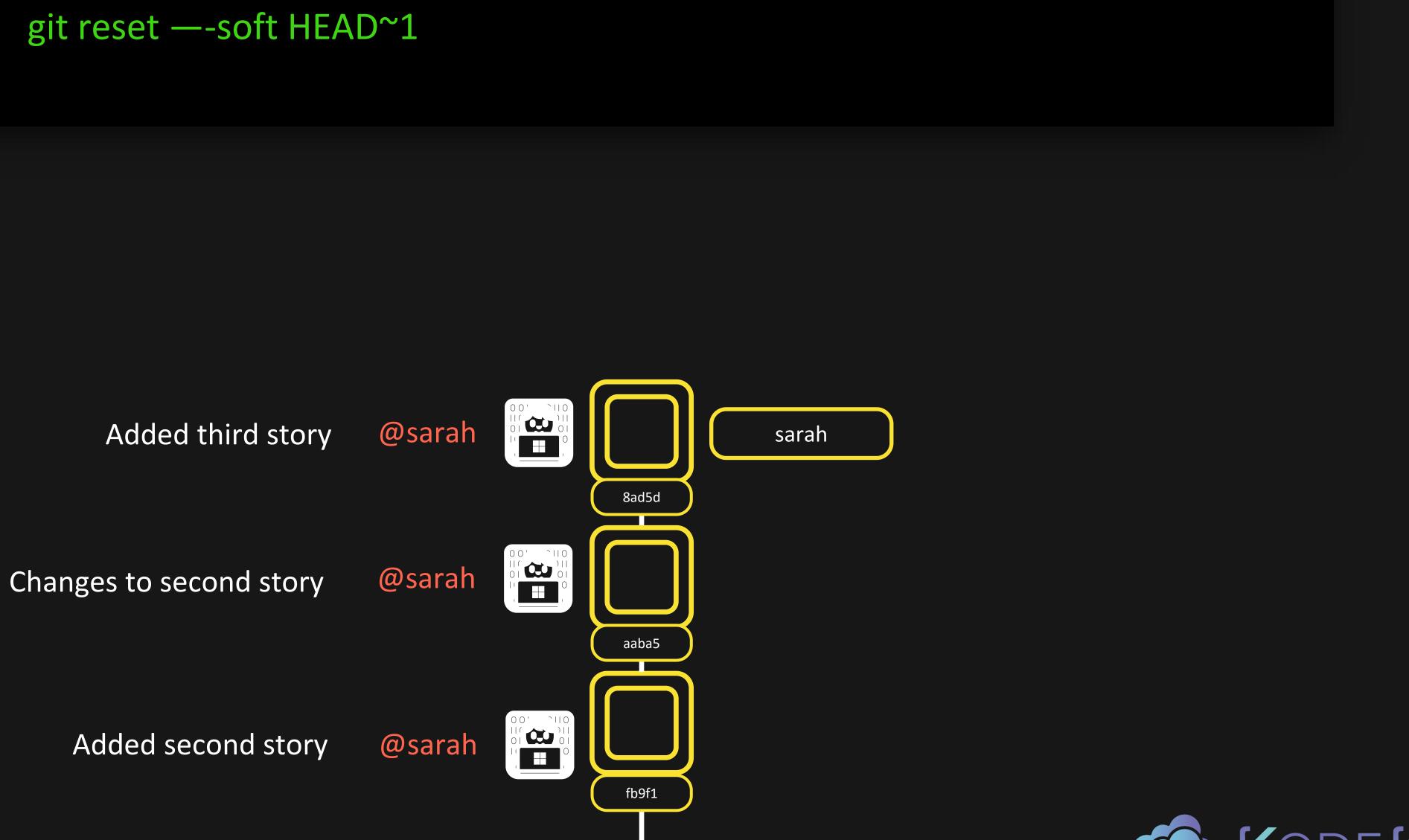


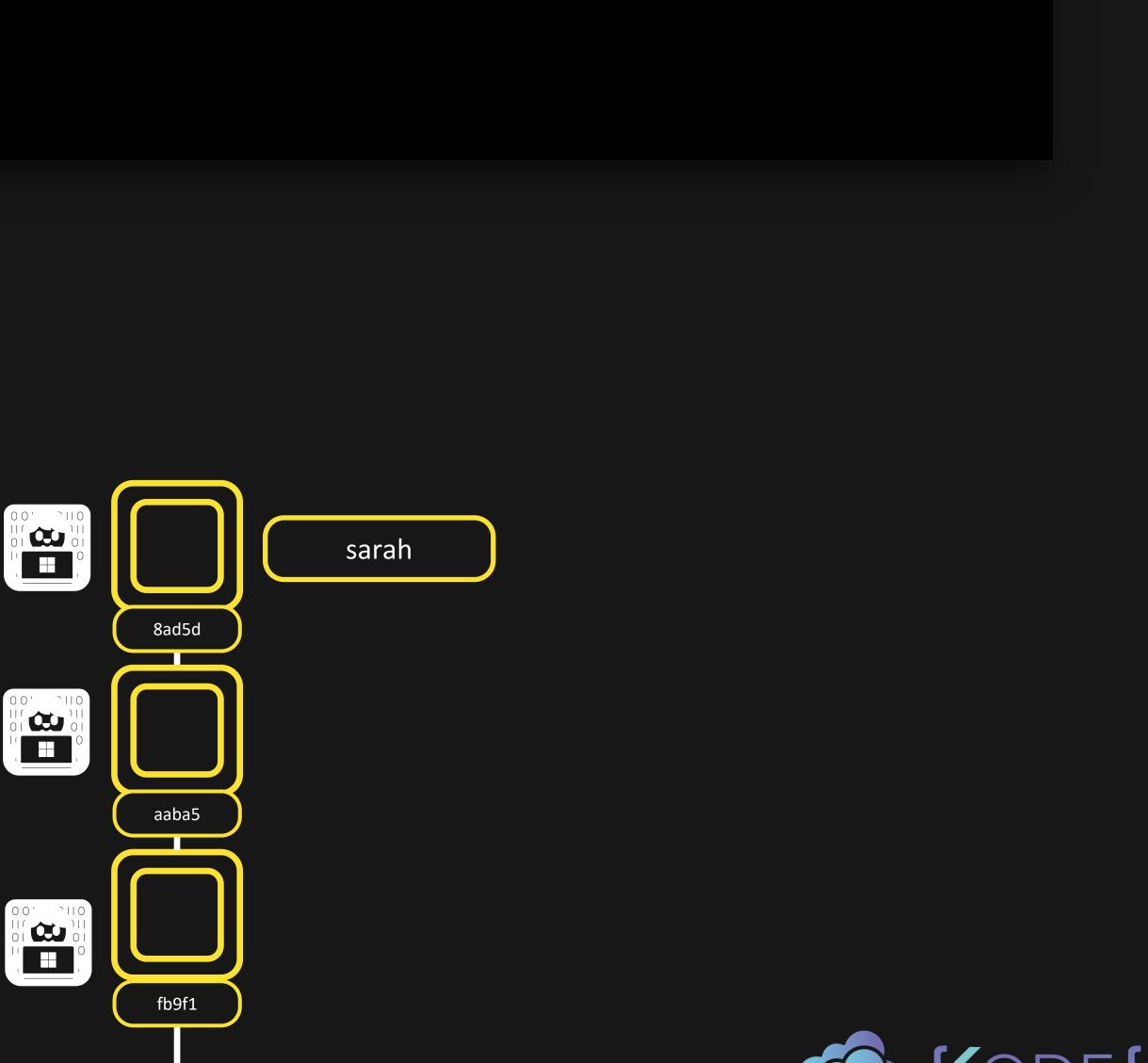






\$

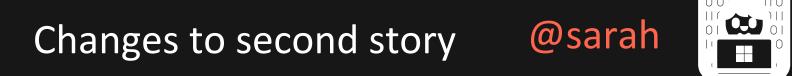


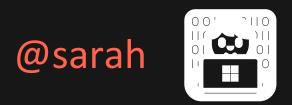




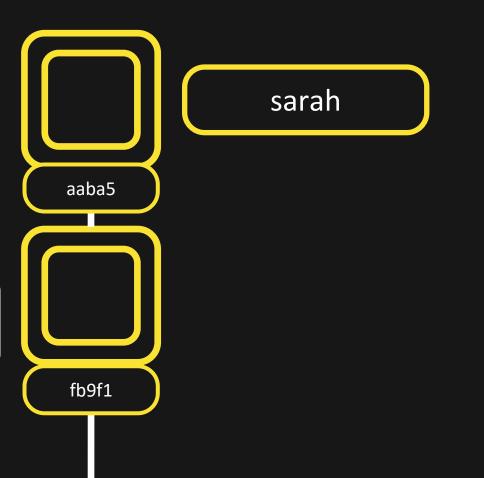


\$ git reset —-soft HEAD~1





Added second story @sarah









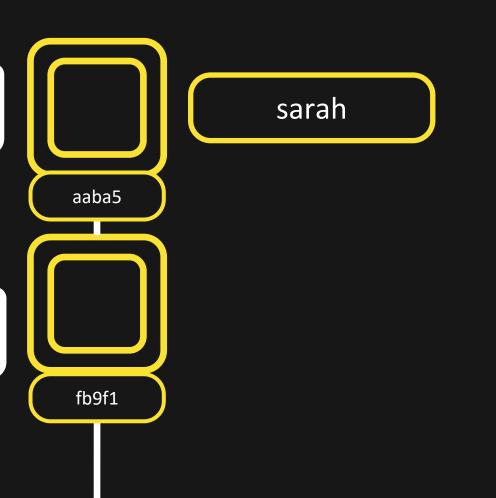
- \$ git reset —-soft HEAD~1
- \$ git status

On branch sarah Changes to be committed: added: third_story.md





Added second story @sarah

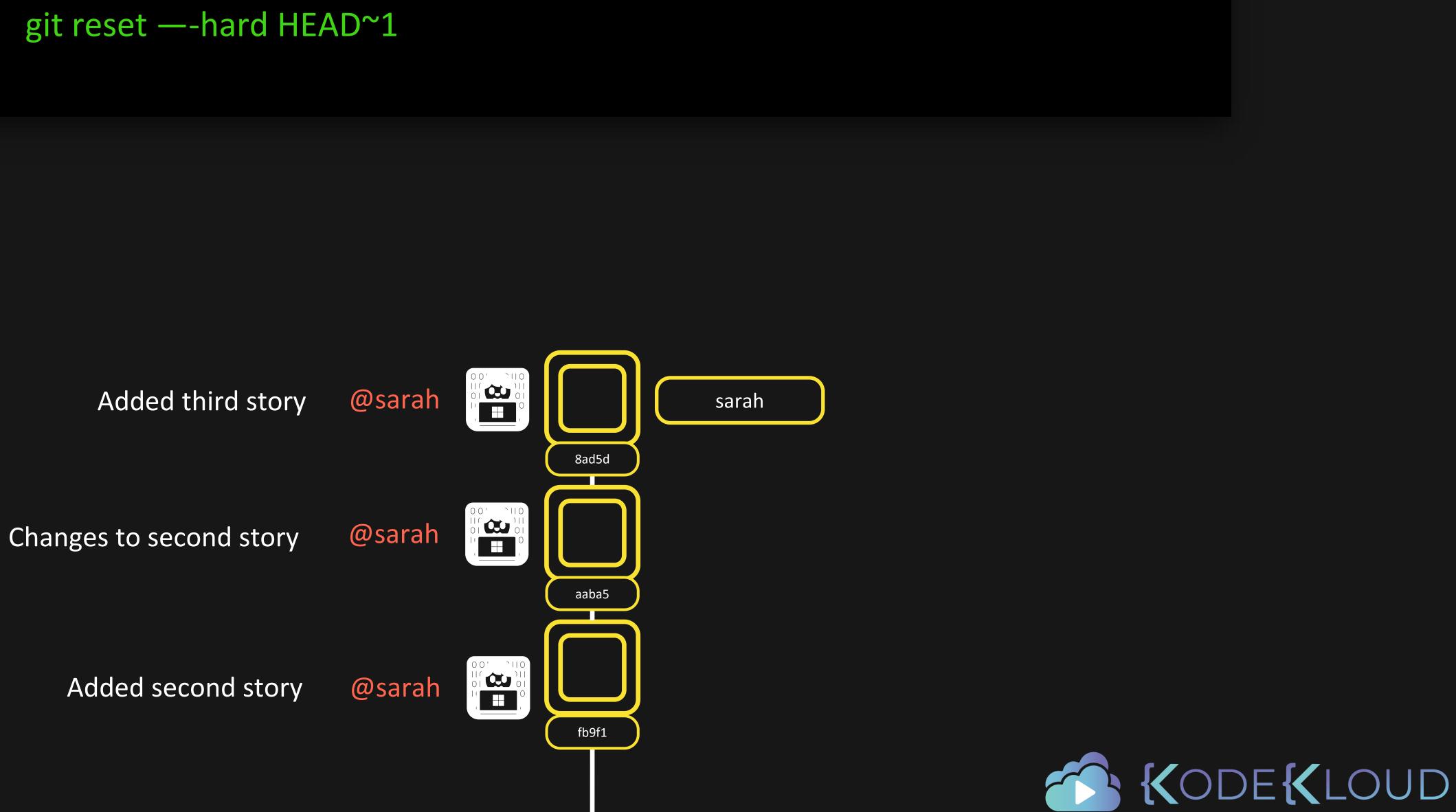


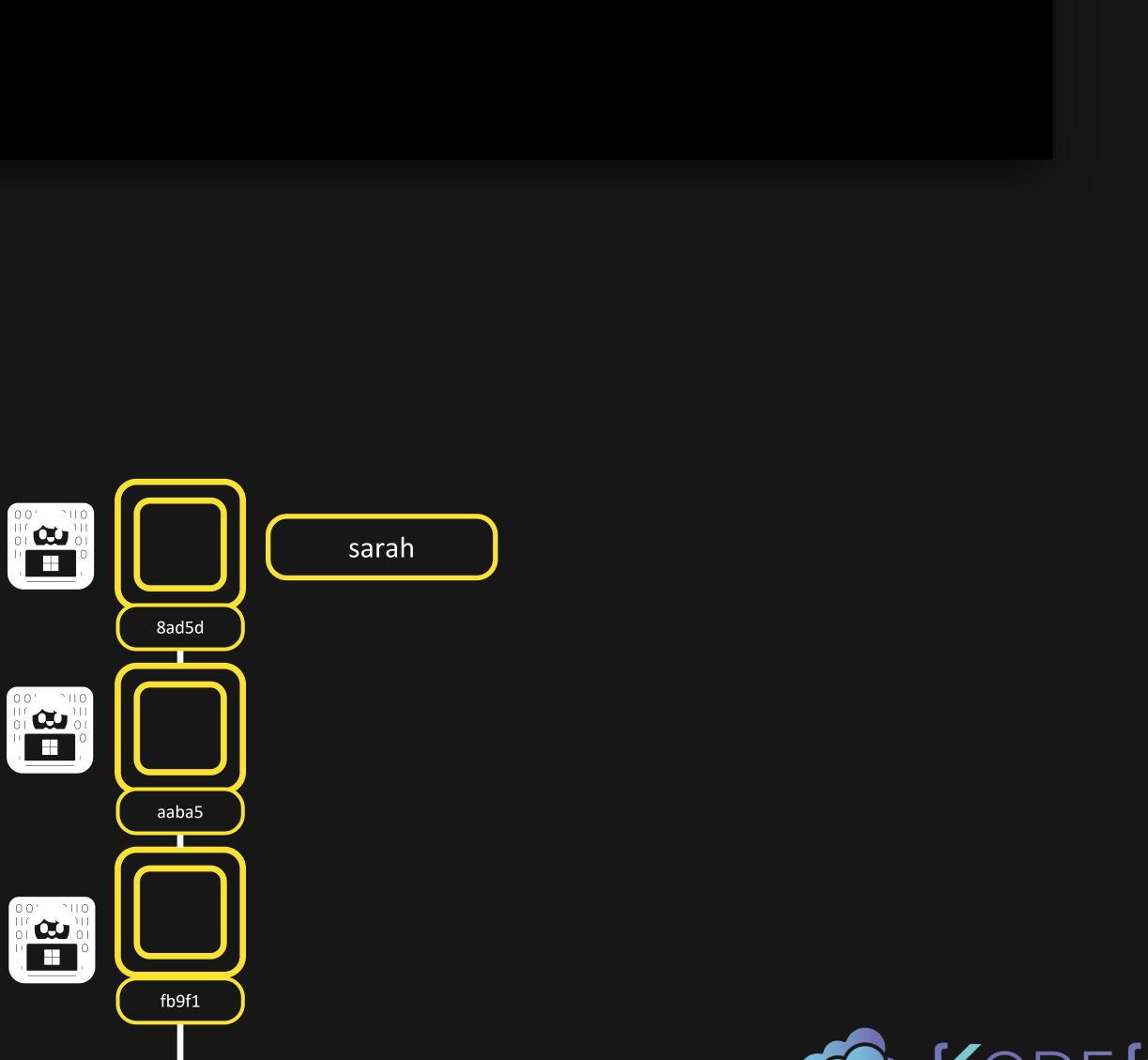






\$ git reset —-hard HEAD~1



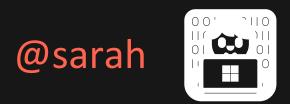




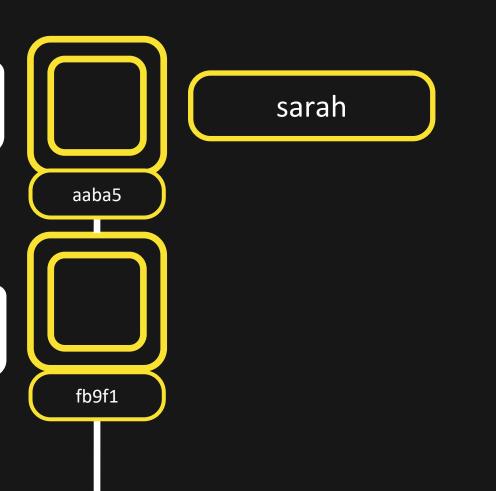


\$ git reset —-hard HEAD~1





Added second story @sarah









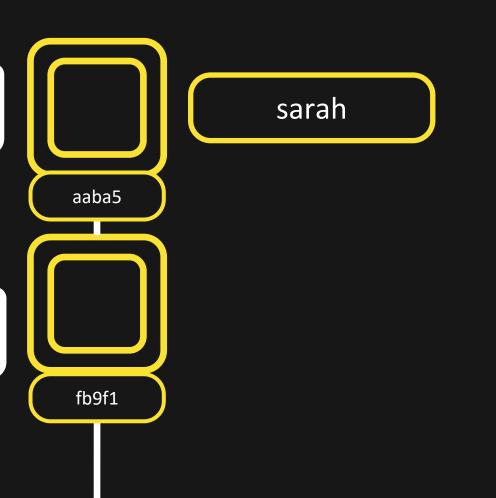
- \$ git reset —-hard HEAD~1
- \$ git status

On branch sarah Nothing to commit





Added second story @sarah









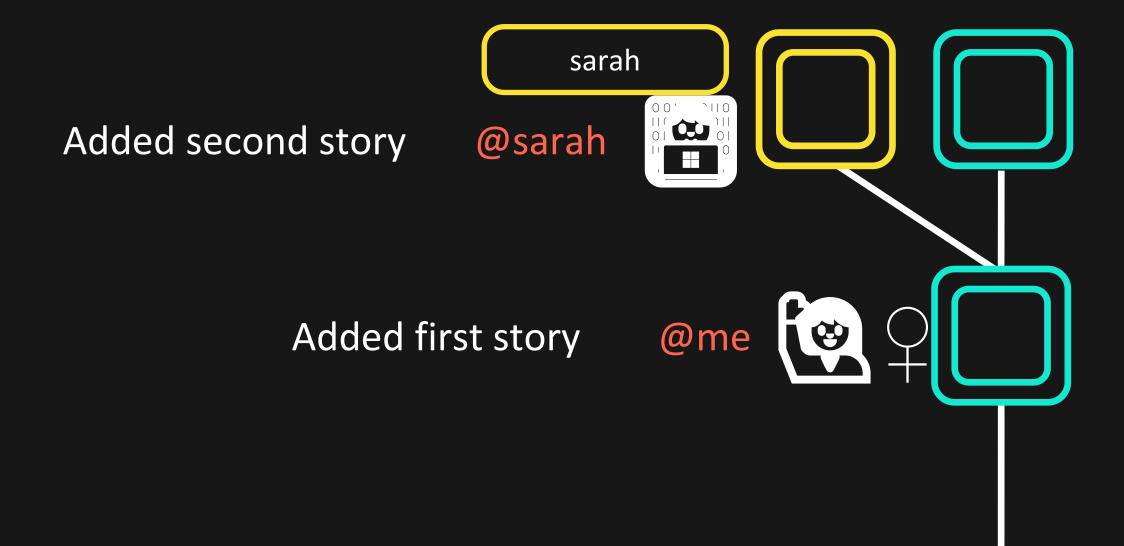
KODEKLOUD

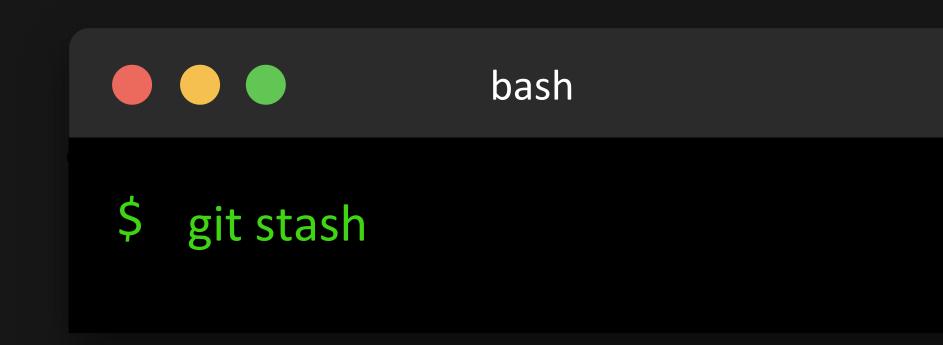




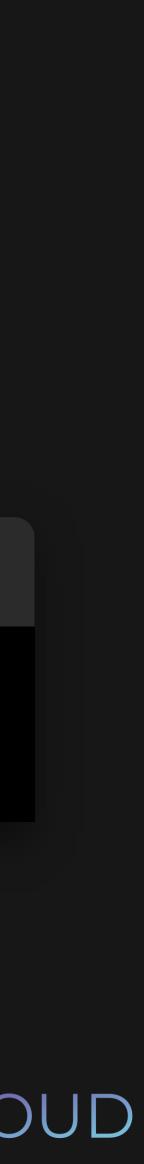




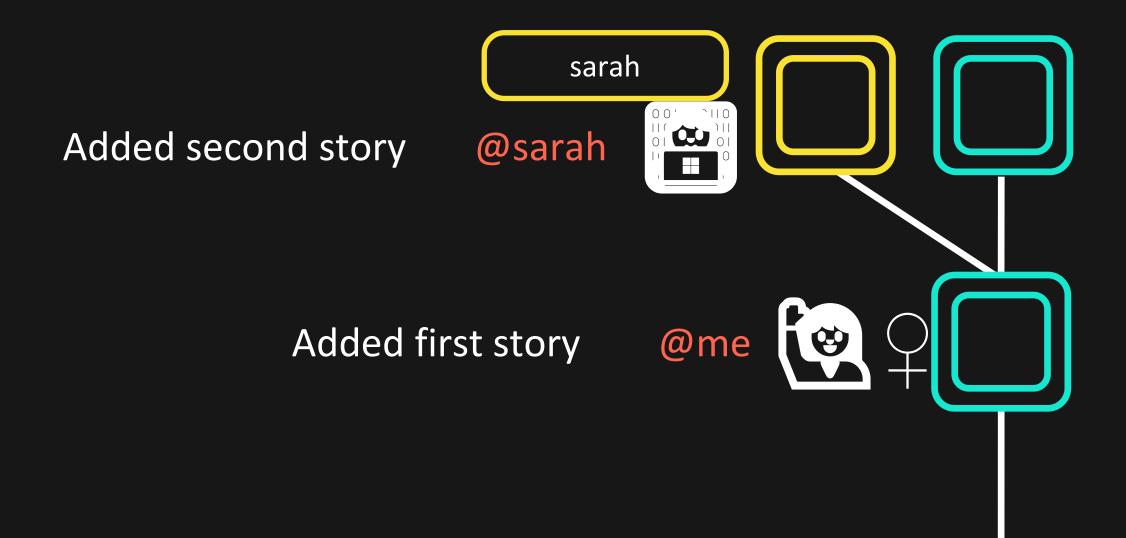


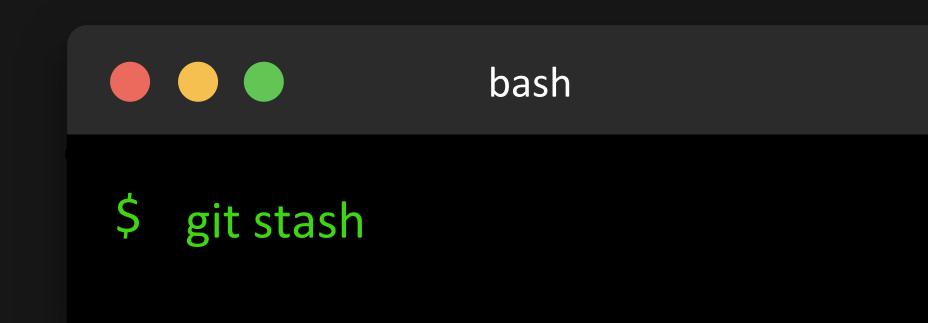






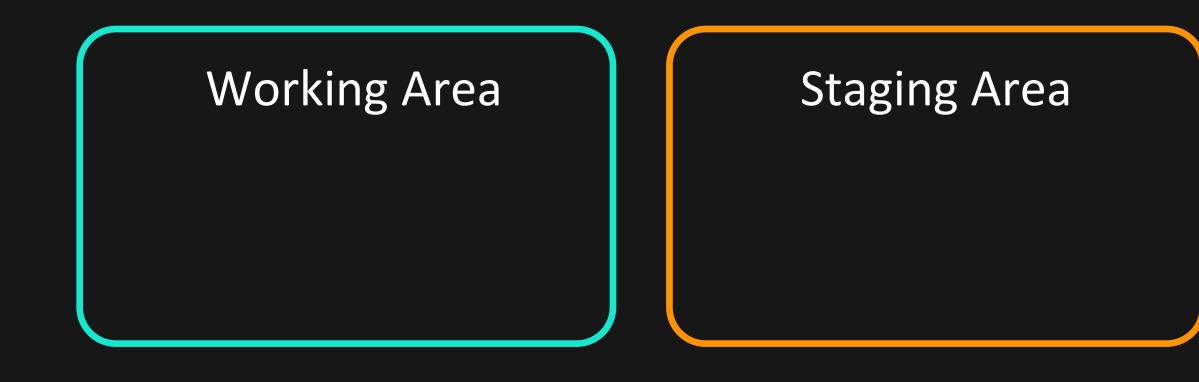


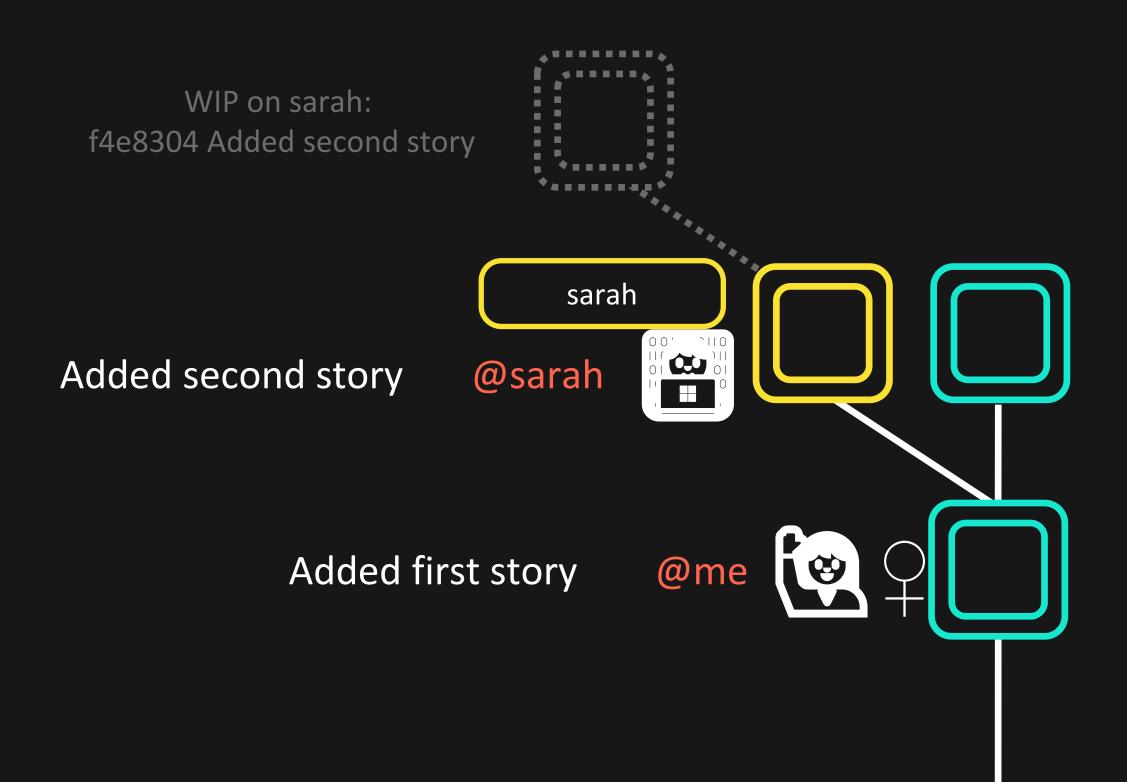






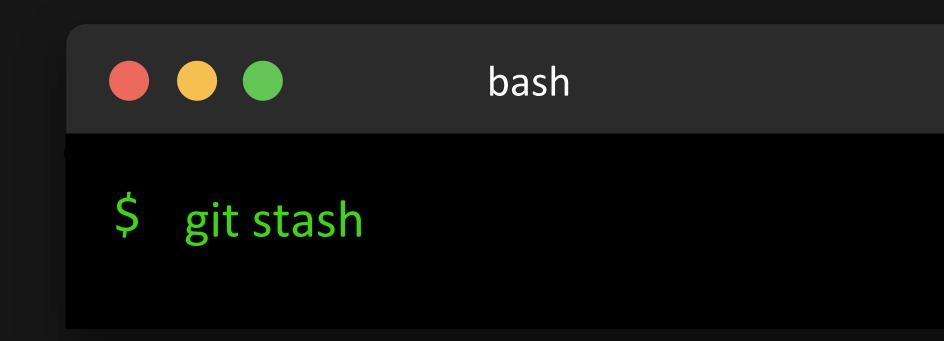






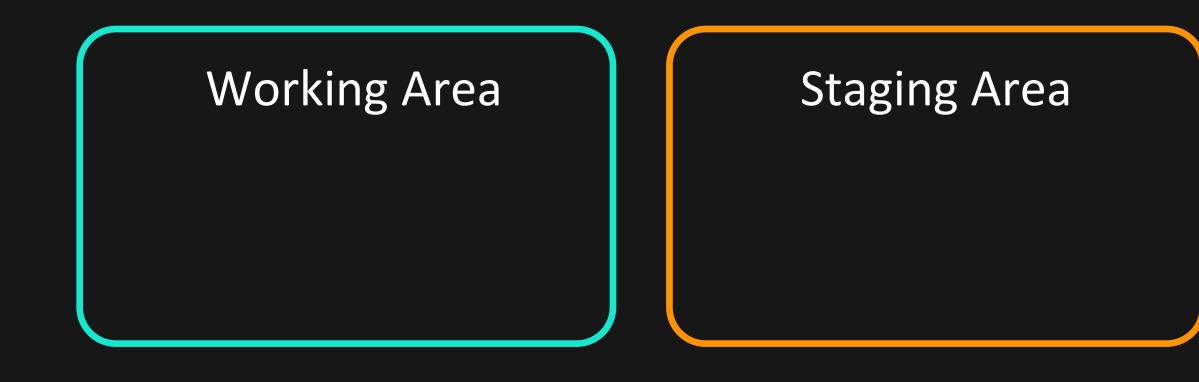
Committed Files

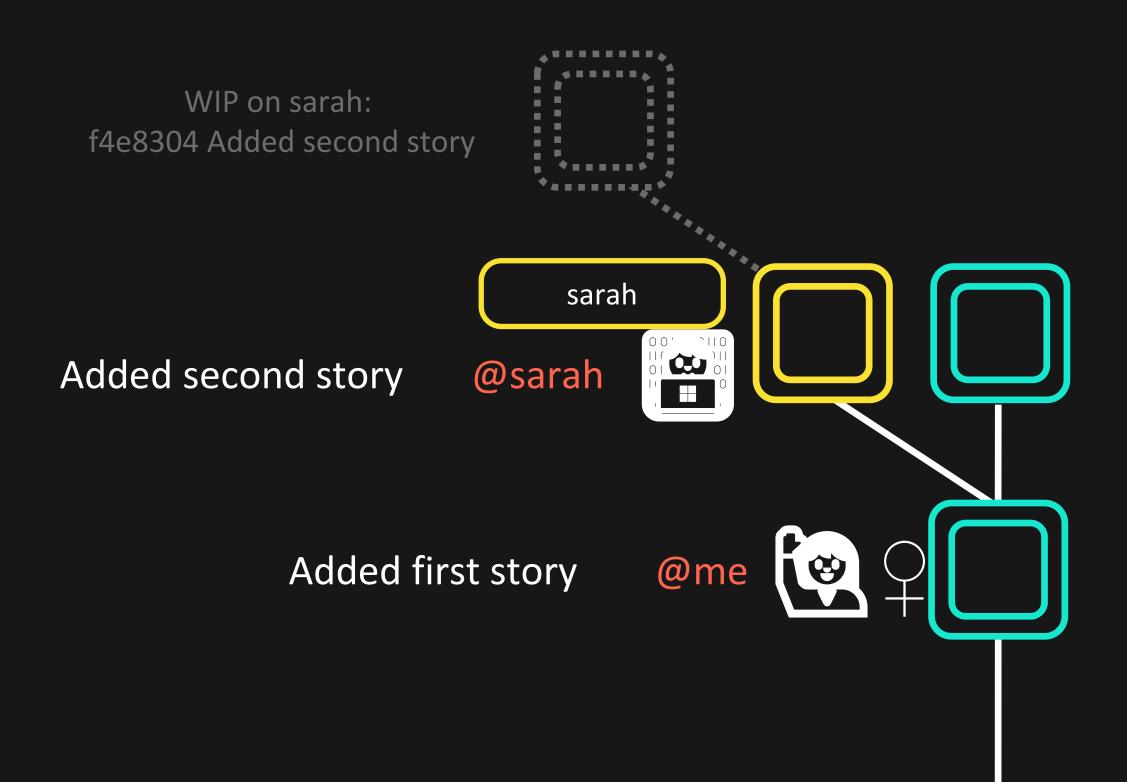
Stash + third_story.md



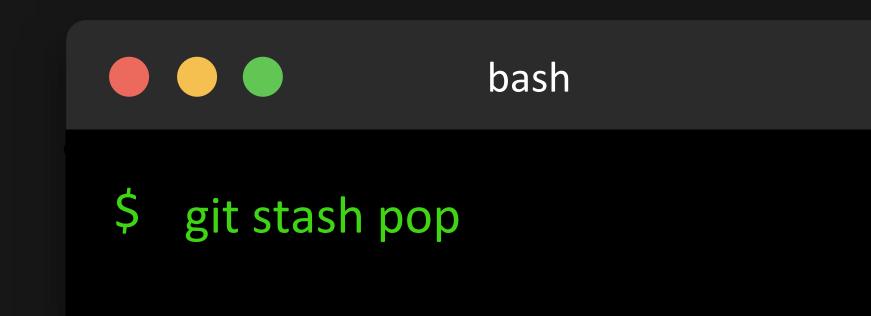








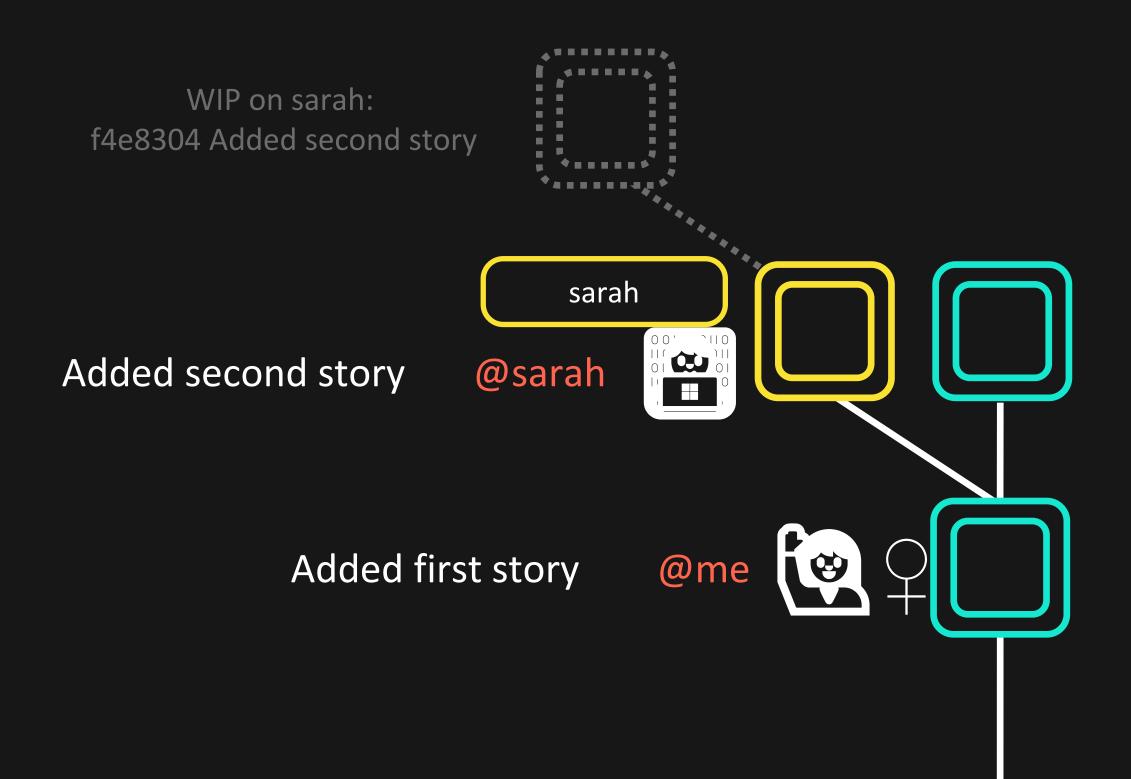


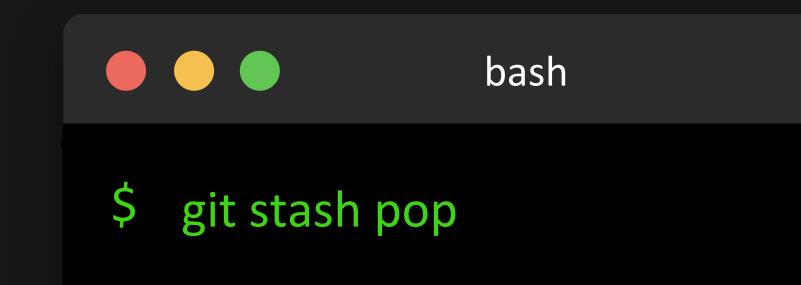








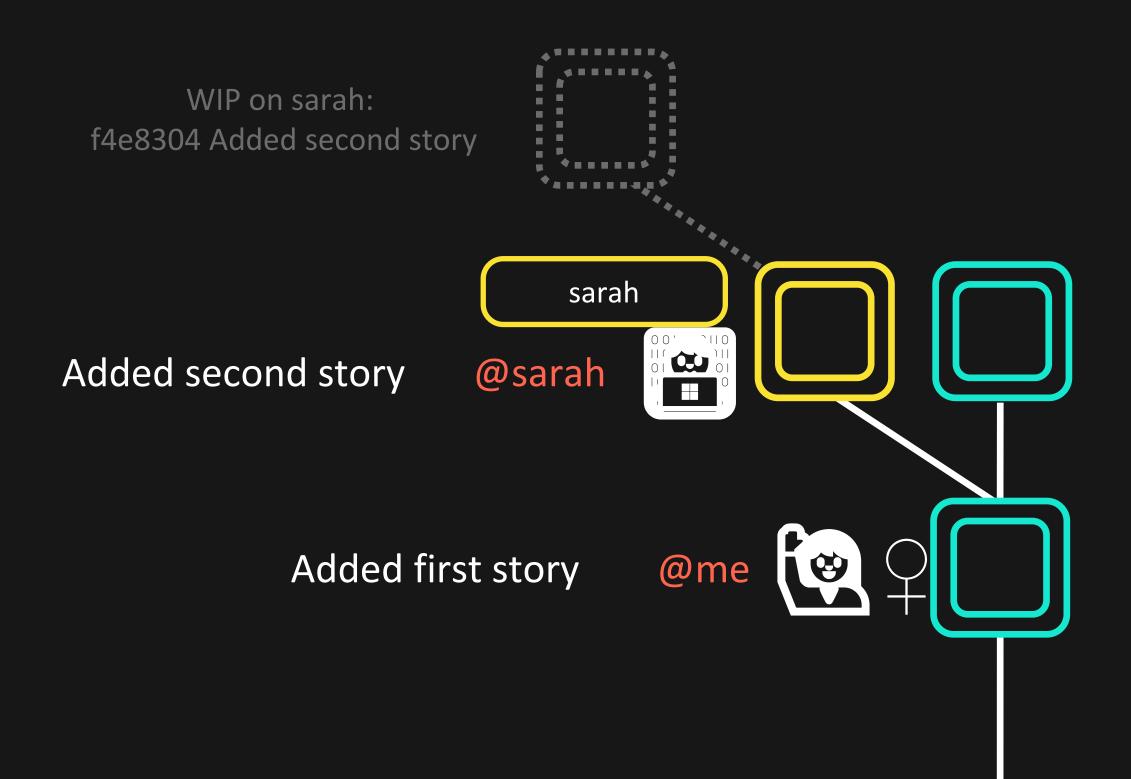


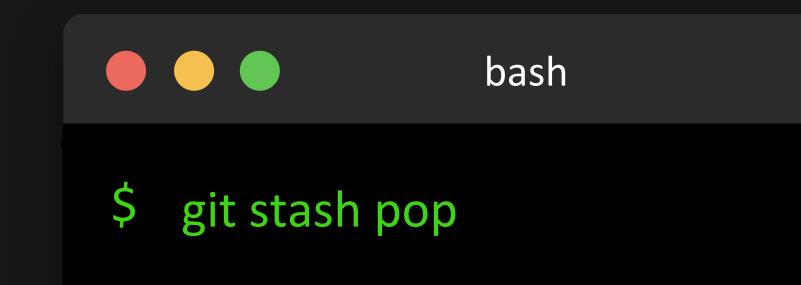


















Staging Area

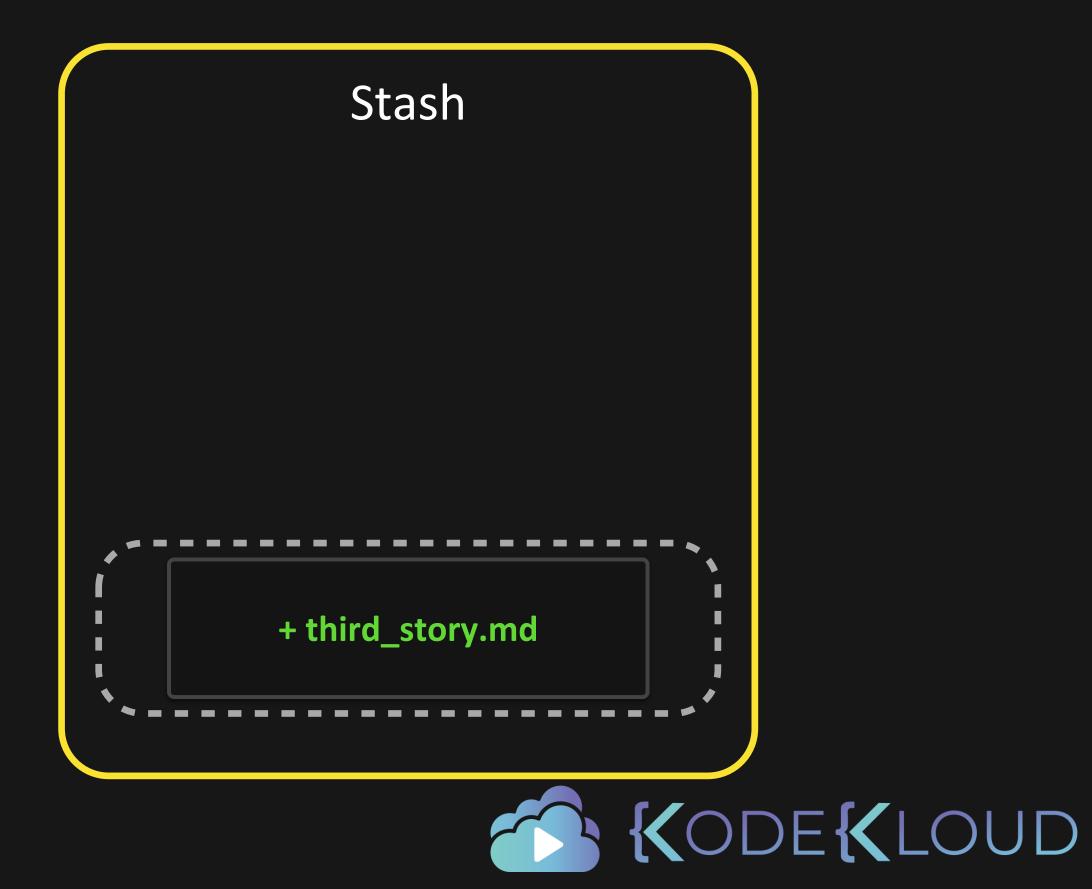
+ third_story.md

Stash CODE KLOUD





Staging Area

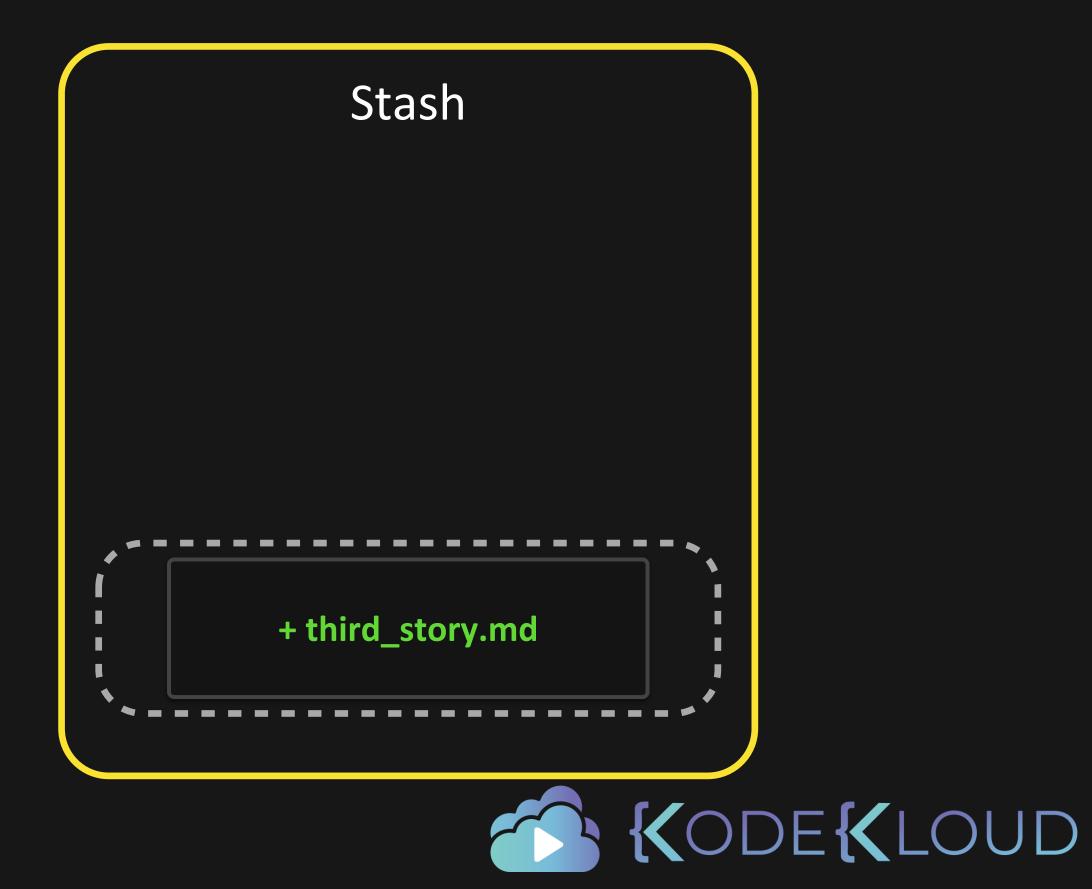






Staging Area

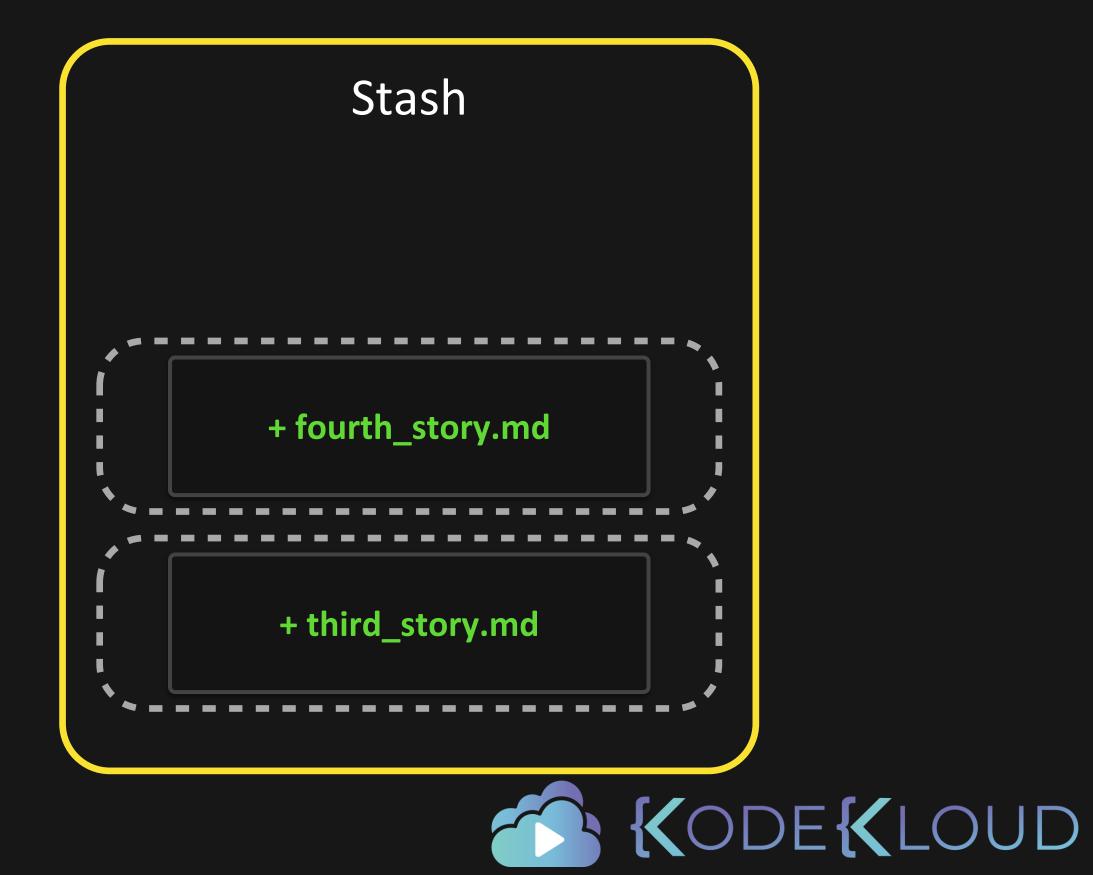
+ fourth_story.md







Staging Area

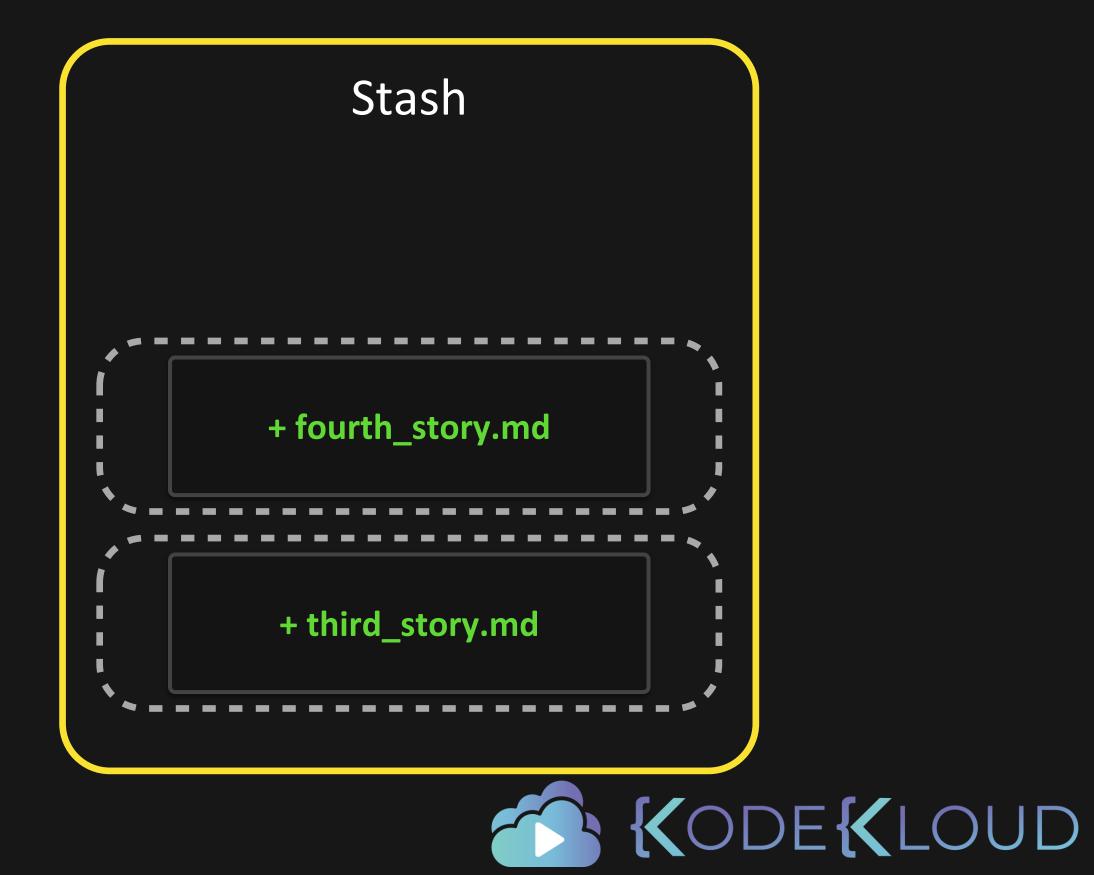






Staging Area

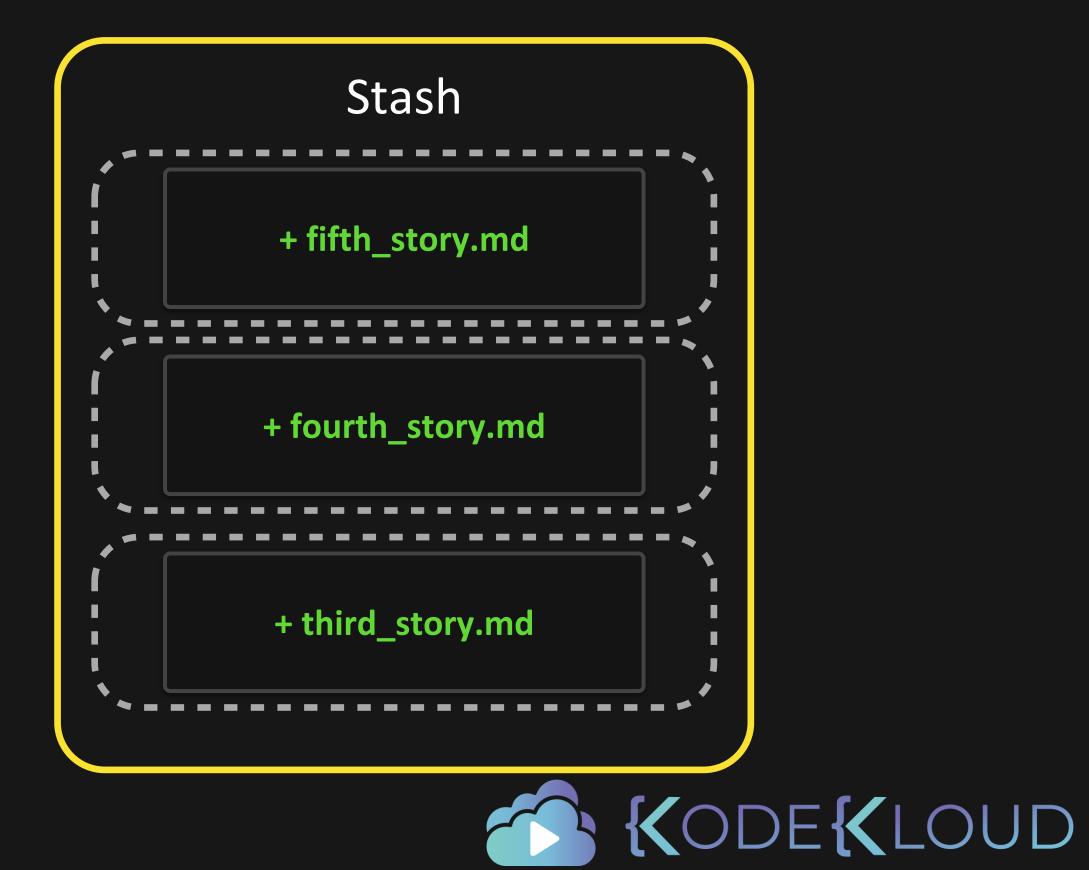
+ fifth_story.md







Staging Area





\$ git stash list
stash@{0}: WIP on sarah: f4e8304 Added second story
stash@{1}: WIP on sarah: f4e8304 Added second story
stash@{2}: WIP on sarah: f4e8304 Added second story





- \$ git stash list
 stash@{0}: WIP on sarah: f4e8304 Added second story
 stash@{1}: WIP on sarah: f4e8304 Added second story
 stash@{2}: WIP on sarah: f4e8304 Added second story
- \$ git stash show stash@{1}
 fourth_story.md | 1 +
 1 file changed, 1 addition(+)





- \$ git stash list
 stash@{0}: WIP on sarah: f4e8304 Added second story
 stash@{1}: WIP on sarah: f4e8304 Added second story
 stash@{2}: WIP on sarah: f4e8304 Added second story
- \$ git stash show stash@{1}
 fourth_story.md | 1 +
 1 file changed, 1 addition(+)
 \$ git stash pop stash@{1}
 Dropped stash@{1}(2cfe...)







KODEKLOUD