Git Oops *

```
let author = "Konstantin Portnov"
let github = "github.com/x0000ff"
```

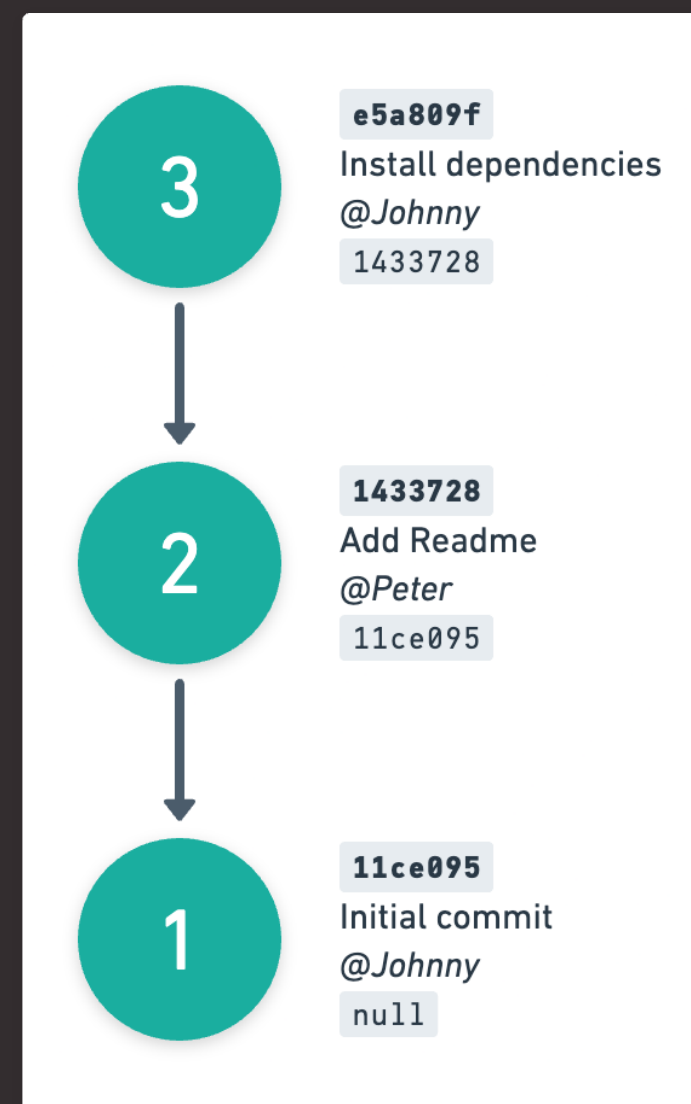# What is Git?

🎤

🤔 What is Git?

- Database

- Time machine

- Something else?

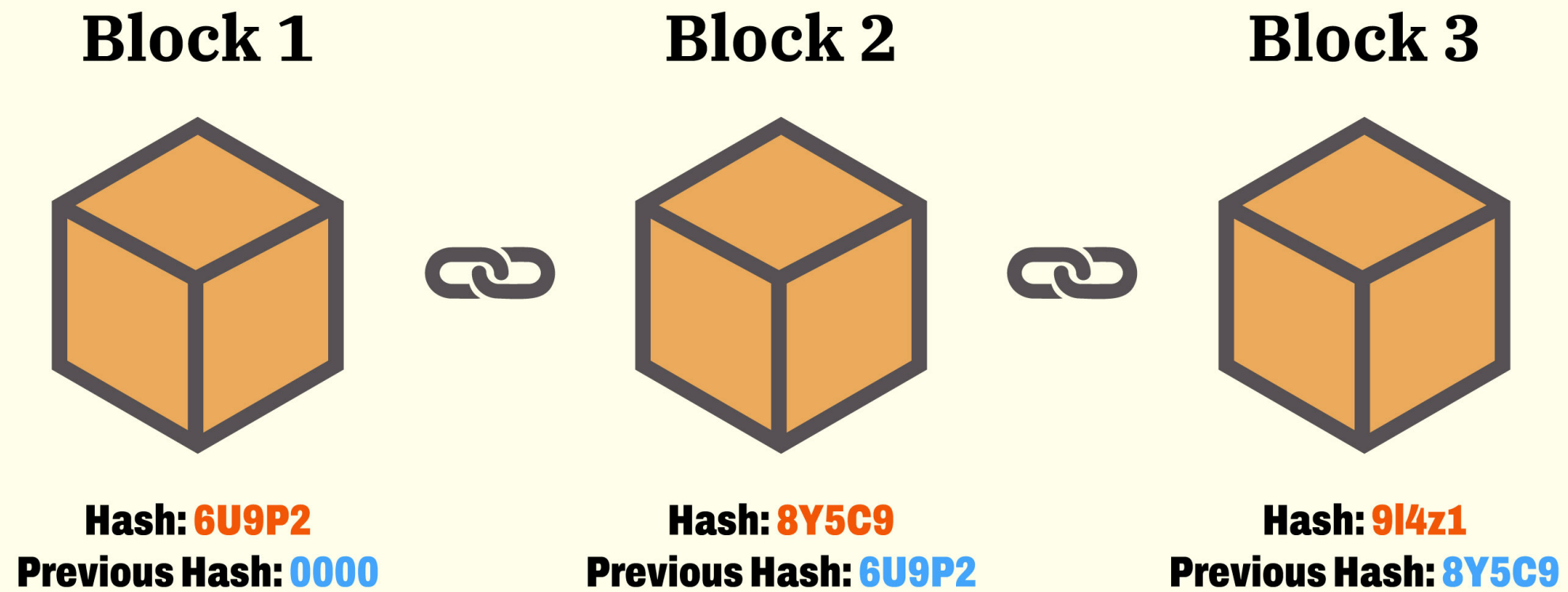# 🕵️ Let's have a closer look

Commit has

- Author
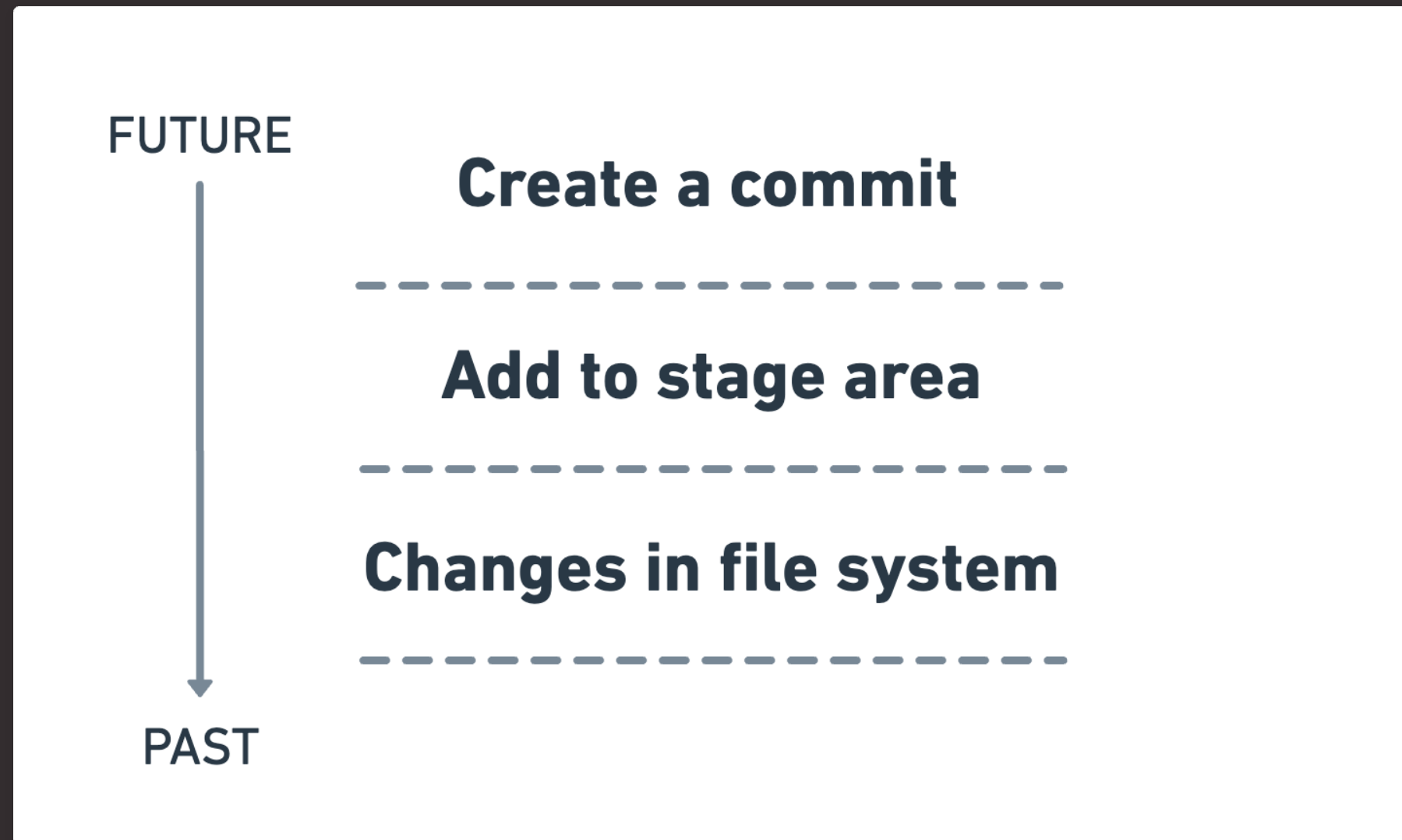
- Message

- Hash (SHA-256)

- Parent Hash (optional)

3 e5a809f
Install dependencies
@Johnny
1433728

2 1433728
Add Readme
@Peter
11ce095

1 11ce095
Initial commit
@Johnny

Looks similar, no?

Block 1

Hash: 6U9P2
Previous Hash: 0000

Block 2

Hash: 8Y5C9
Previous Hash: 6U9P2

Block 3

Hash: 9l4z1
Previous Hash: 8Y5C9

🧙‍♂️ **Reset**

Commit creation

FUTURE

Create a commit

- -

Add to stage area

- -

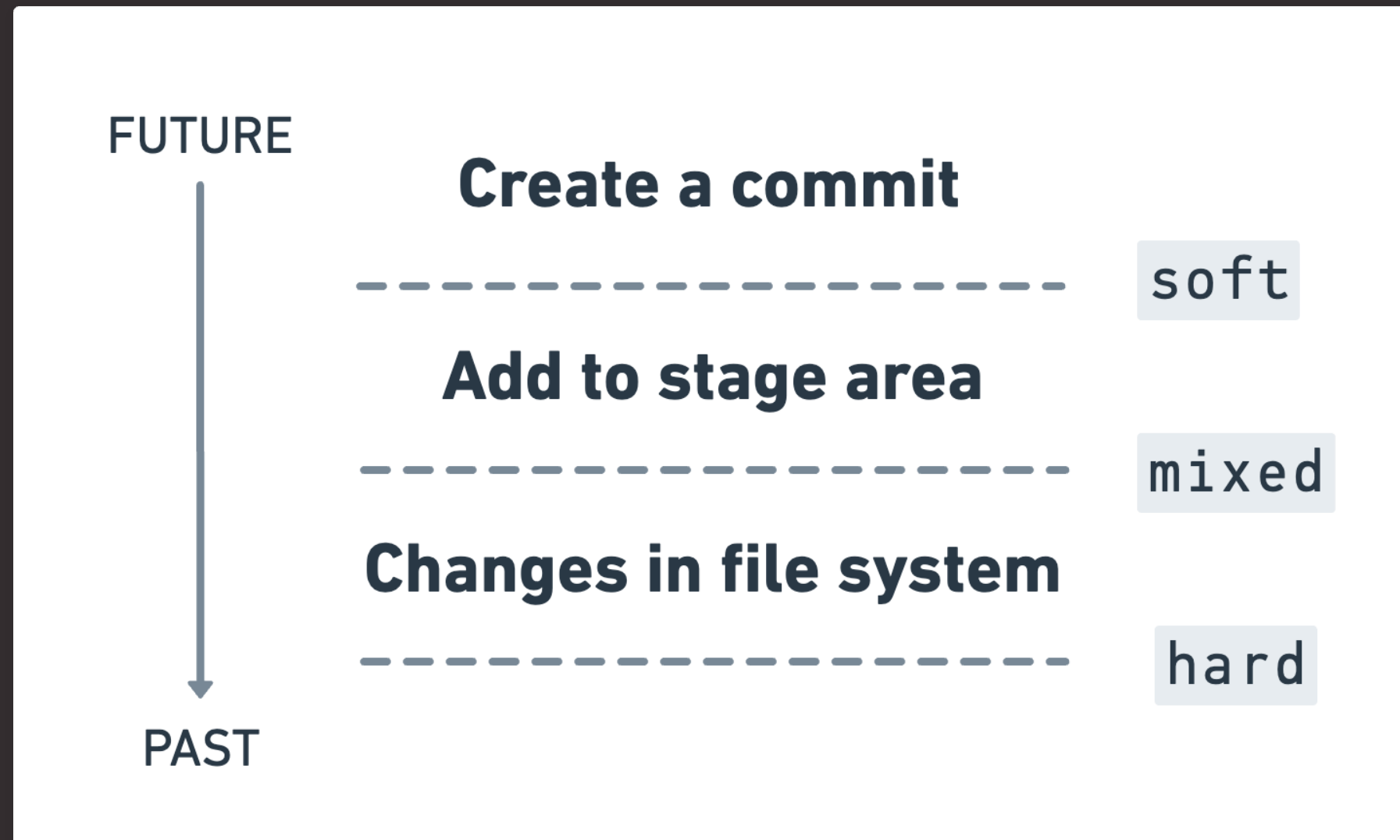**Changes in file system**

- -

PAST

How does the reset work?

🛝 **Demo time**
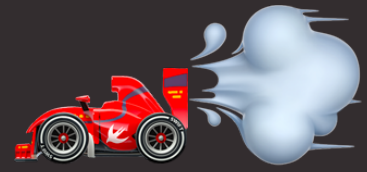
😰 Missed commits

You you don't see something in the **git log** or your **GUI client**, that **doesn't mean**, that the changes is **lost**.

If you did commit - you're saved :)

🏎️💨 Fast travel

```
$ git reset --hard <commit-ish>
```

Do not forget do `git push --force`
It's safe if you work alone in the branch

🗺️ Use tags as breadcrumbs

Do not push them to remote 🙏

🛝 **Bonus Demo time**

📝 Cheatsheet

Command	What does?
`git reset --hard head~N`	Force change current branch head N commits back ⚠️
`git reset --mixed head~N`	Cancel N commits. All changes are **unstaged** ⚠️
`git reset --soft head~N`	Cancel N commits. All changes are **staged** ⚠️
`git tag <NAME>`	Create a tag
`git tag -d <NAME>`	Remove a tag
`git cherry-pick <REVISION>`	Duplicates a commit to current branch
`git reflog`	See histroy of changes of the current branch head
`git commit --amend --no-edit`	Add all the staged changes to the last commit ⚠️

⚠️push --force needed

🎉 **Fin**

☺️ **Thanks a lot!**

ATTENTION!!!

Thanks for your attention

🤔 Q & A

This talk is here: shorturl.at/aeiJS