SHE BUILDS BLACK | MONICA POWELL

INTRO TO GIT HOOKS

INTRODUCTION

Monica Powell, I'm a Full Stack Engineer at Meetup and organizer of the React Ladies Meetup group. I've written about git and other tech adventures in publications such as FreeCodeCamp, Hacker Noon and Code Like A Girl.

👋🏾 Twitter: [@waterproofheart](#) 🔗 [www.aboutmonica.com/](#)

FOLLOW ALONG

▸ GitHub Repository

  ▸ https://github.com/M0nica/git-hooks-workshop

GIT – VERSION CONTROL SOFTWARE

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Git is a version control system for tracking changes in computer files and coordinating work on those files among multiple people.
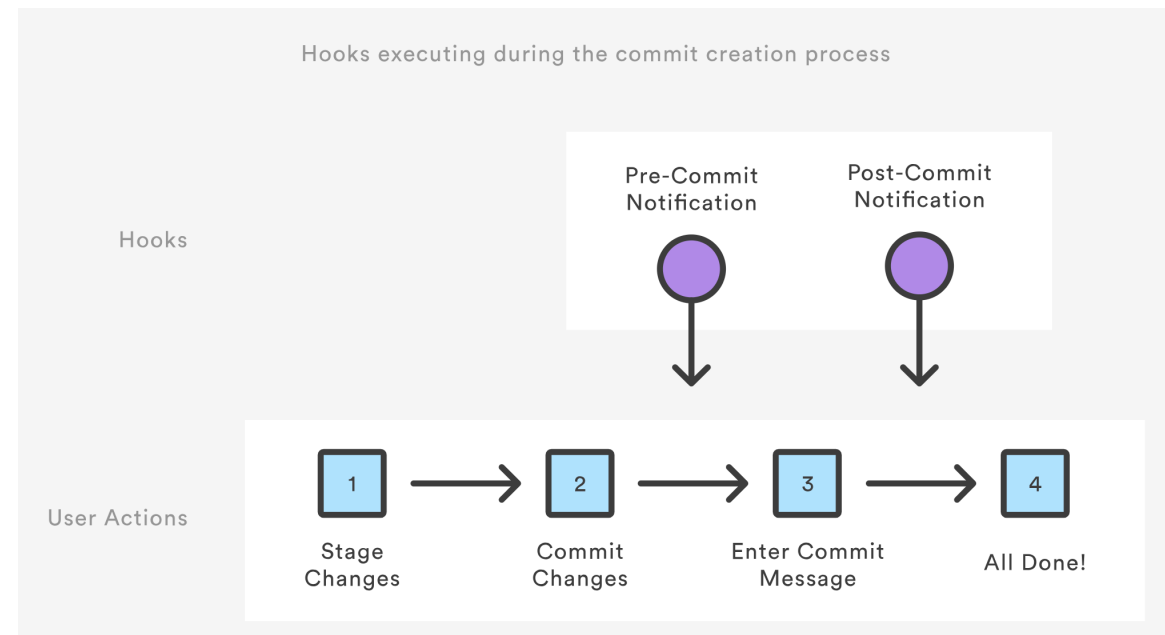
Similar to a webhook, IFTTT, Zapier, etc.

It is a bash script that executes a certain git event has occurred. There are multiple different events within the git workflow.

When creating a commit. When you type "git commit" at the beginning a precommit hook would be triggered and then after a post commit hook would be triggered

WHAT'S A GIT HOOK

▸ Bash scripts that are executed at specific points within the git workflow.

▸ precommit, postcommit, prepush, postpush, etc….

▸ Git Hooks Documentation:

  ▸ https://git-scm.com/docs/githooks

HOW CAN GIT HOOKS BE USED?

▸ Warn when committing to master

▸ Run linting and tests before committing

▸ Warn or abort when committing code with console.logs(), sensitive credentials, merge conflict strings or large files.

▸ Send notifications after a commit is pushed

▸ And 1270824+ other ways

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As bash scripts means we can really do anything
- enforce code standards
- Limit mistakes

LIMITATIONS ON ENFORCEMENT

▸ –no-verify

▸ Local hooks != shared hooks

    ▸ .git/hooks not in version control

Local hooks and server side hook

LET'S SET UP A PLAYGROUND

▸Fork https://github.com/M0nica/git-hooks-workshop

▸`yarn`
▸`yarn husky`
▸`yarn eslint —init`
▸ Create index.js (if needed)

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LET'S AUTOMATE LINTING OUR CODE

‣ Add linting hook to enforce eslint rules

‣ Try to commit changes with ill-formatted JavaScript to index.js

LET'S SET UP A PLAYGROUND

‣ View sample git hooks in .git/hooks directory

‣ Edit the pre-commit hook

‣ Push to the master branch and see what happens