SHE BUILDS BLACK I 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.

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FOLLOW ALONG

- GitHub Repository
 - https://github.com/M0nica/git-hooks-workshop

GIT - VERSION CONTROL SOFTWARE



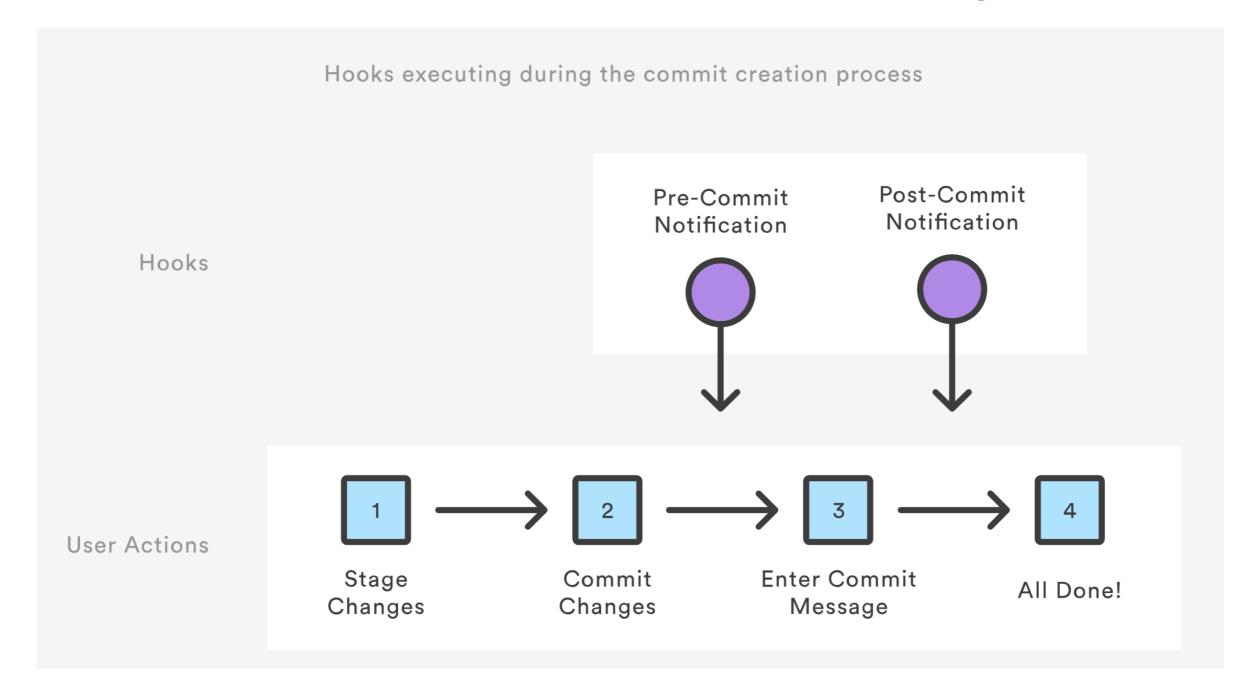


WHAT'S A GIT HOOK



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Image Source: Atlassian



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

```
. . .
protected_branch='master'
current_branch=$(git symbolic-ref HEAD | sed -e 's,.*/\(.*\),\1,')
yellow='\033[0;33m'
red='\033[0;31m'
green='\033[0;32m'
no color='\033[0m'
if [ $protected_branch = $current_branch ];
then echo "${yellow}You're about to push to $protected_branch, is that what you intended? [y|n]${no_color}"
    read < /dev/tty</pre>
    if echo $REPLY | grep -E '[^Yy]$' > /dev/null; then
        echo "${red}This commit has been aborted.${no_color}"
        exit 1 # push will not execute if there is not explicit 'Y' typed
    else
        echo "${green}This commit is proceeding...${no_color}"
        exit 0 # push will execute
    fi
else
    exit 0 # push will execute
fi
```

HOW CAN GIT HOOKS BE USED?

LIMITATIONS ON ENFORCEMENT

- –no-verify
- Local hooks != shared hooks
 - .git/hooks not in version control

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

- yarn
- yarn husky
- yarn eslint —init touch
- index.js

LET'S AUTOMATE LINTING OUR CODE

Add index.js with bad styling that should fail ESLint

```
const nameChecker = function (name) {
  if (name == 'Cardi') {
    console.log('Party with Cardi');
  }

function doSomething() {
  console.log('do something');
  }
};
```

- Fork https://github.com/M0nica/git-hooks-workshop
- Add to package.json and then run yarn lint

```
"scripts": {
```

```
"lint": "eslint . --ext .js,.jsx --fix"
```

},

```
Fork https://github.com/M0nica/git-hooks-workshop
Add to package.json and Add linting hook to enforce eslint rules and then
Try to commit changes with ill-formatted JavaScript to index.js
  "husky": {
    "hooks": {
       "pre-commit": "yarn lint",
       "pre-push": "yarn lint"
```

},

- View sample git hooks in .git/hooks directory
- Edit the pre-commit hook (can use this example: https://github.com/M0nica/git-hooks-workshop/blob/master/
 prepush.sample)
- Push to the master branch and see what happens