

# GitHub Pull Requests from Start to Finish

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## WHAT IS A PULL REQUEST?



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# Overview



So, what is a Pull Request?

- A process
- Analogy
- Why it matters

Tools

Administration

Demo

- Show the entire process of a Pull Request



# Before We Begin



Have some knowledge about git:  
how to commit and push from your computer.

Have a GitHub account:  
ready to start executing git commands.



# What Is a Pull Request

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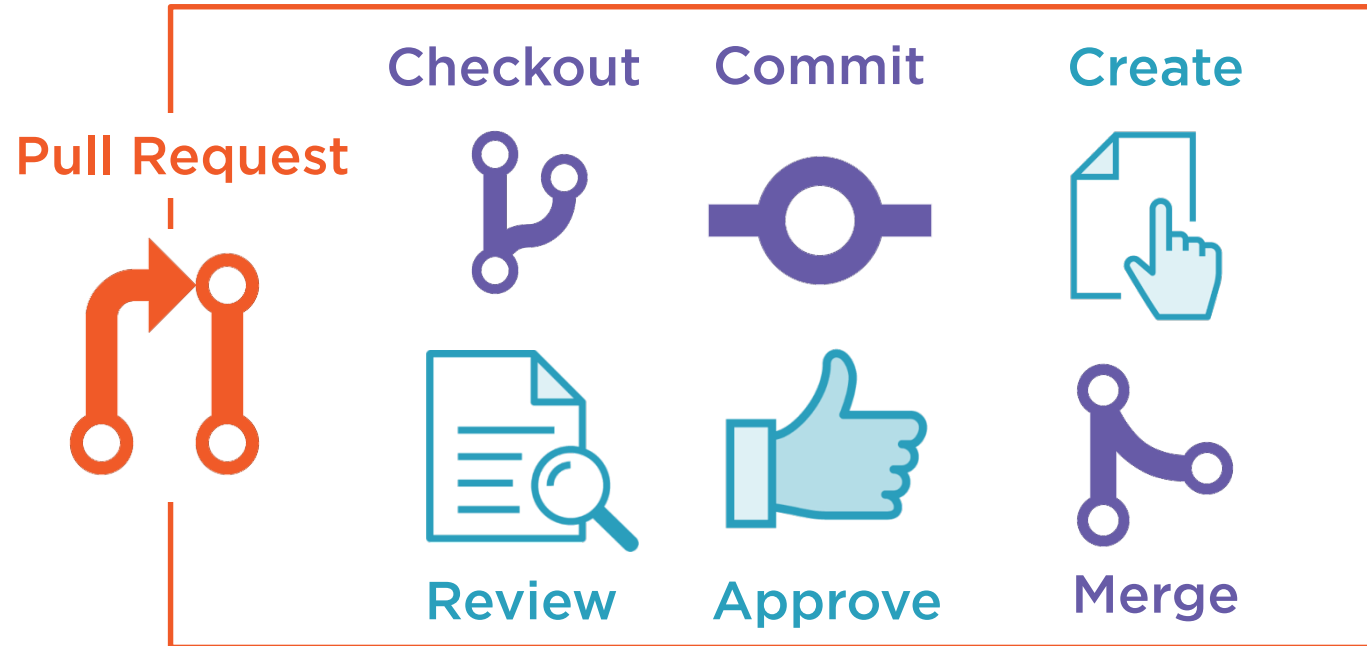
# A Pull Request

Pull requests let you tell others about changes you've pushed to a branch in a repository on GitHub. Once a pull request is opened, you can discuss and review the potential changes with collaborators and add follow-up commits before your changes are merged into the base branch.

Source: <https://help.github.com/en/github/collaborating-with-issues-and-pull-requests/about-pull-requests>



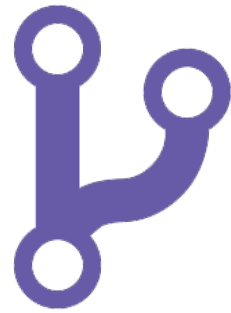
# Pull Request Is a Process



Merge Request?



# Pull Request Is a Process



**Checkout**

**Create a new branch  
to start adding your  
files.**



**Commit**

**Commit your own files  
to the branch you  
created.**



# Pull Request Is a Process



## Create

First create a Pull Request on GitHub.



## Review

Comment on the code and execute the code yourself to review its quality.



## Approve

When everything looks good, approve so the code can be put into the codebase.





# Pull Request Is a Process



Merge

Move the files in that  
branch back into the  
master branch.



# Let's Analogize



# But Why?



Providing checks and balances! **Accountability** for the person writing the code, and the rest of the team.



Educate! Line by line **code reviews** can help the team align to a standard of code formatting. They also show the rest of the team your work.



Keep the master branch **clean**. No one wants a broken build.



# Tools You Need for Pull Requests

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# Get the Right Tools First

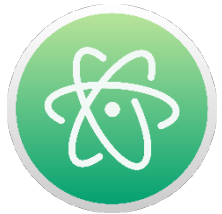


GitHub itself. You'll need an account at <http://www.github.com>



Git installed on your machine

Use the command line tool, or use GitHub Desktop



A text editor, Atom is a good one, from the people who brought you GitHub

**Have your command line tool or GitHub desktop setup before you proceed**



# Administration

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# Repo Permissions

	Read	Triage	Write	Maintain	Admin
Close, reopen, and assign pull requests		X	X	X	X
Submit reviews on pull requests	X	X	X	X	X
Request pull request reviews		X	X	X	X
Submit reviews that affect a pull request's mergeability			X	X	X

Source: <https://help.github.com/en/github/setting-up-and-managing-organizations-and-teams/repository-permission-levels-for-an-organization>



# Demo



Create a repo with collaborators and  
branch rule: Require Pull Request





# The Pull Request from Start to Finish

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# The Whole Pull Request

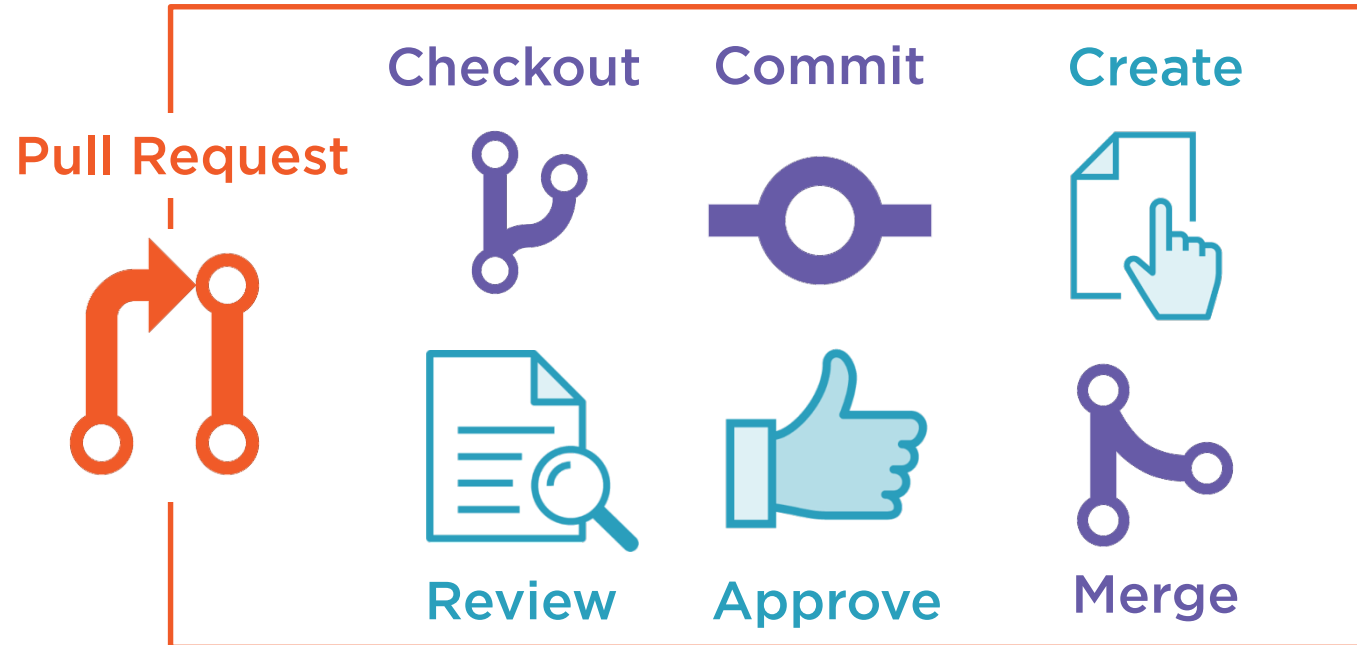


We'll be creating an entire pull request for this demo.

Our next modules will have only Viewing and then only Creating Pull Requests in depth.



# Pull Request is a Process



# Add Code to Our Branch

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# Demo



Clone a repo

Create a branch

Add and commit code



# Open a Pull Request

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# Demo



## Open a Pull Request



# Demo



## Describe the Pull Request





# Demo



**Add a reviewer and assignee**



# View the Pull Request

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# Demo



View a GitHub Pull Request at  
<https://github.com/pulls>



# Demo



## Review a Pull Request



# Approve and Merge

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# Demo



## Approve a Pull Request



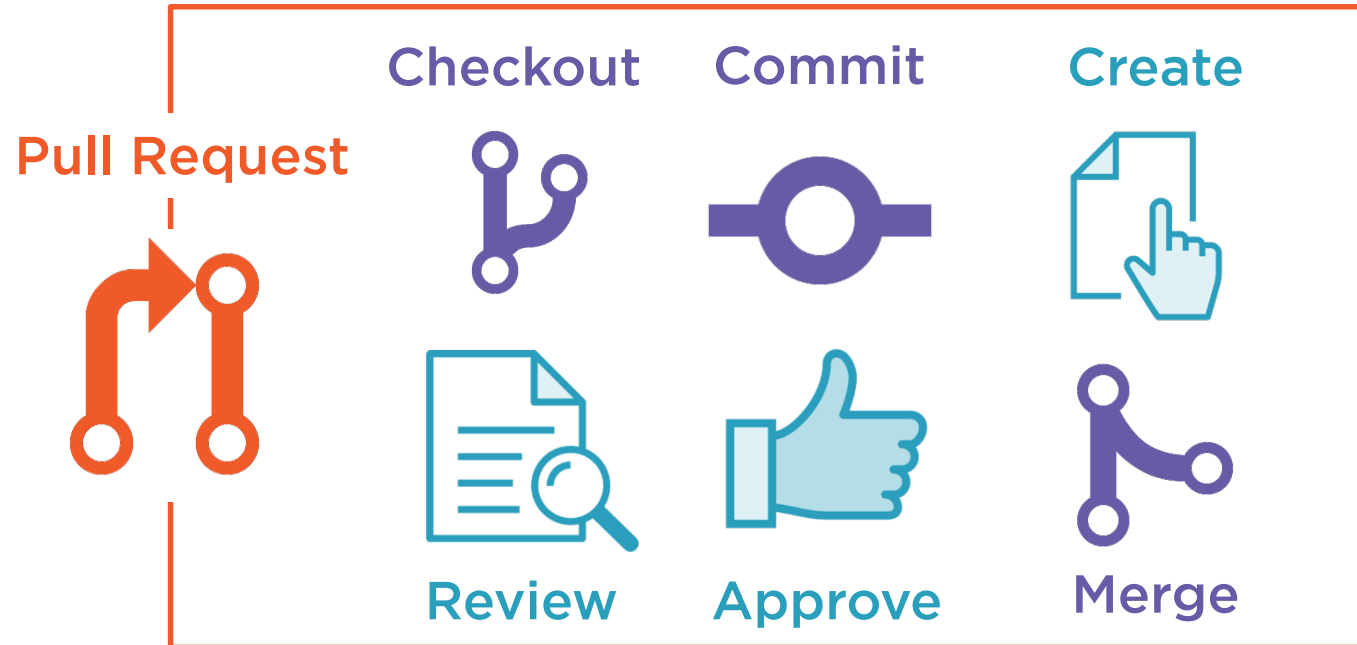
# Demo



## Merge a Pull Request



# Pull Request is a Process





# Summary



A Pull Request is a process

Why use them?

- Keep your build clean
- Educate
- Be accountable

Tools Used

- GitHub
- Git
- code editors

Everyone needs the right access

Demo

- Showed the entire process of a Pull Request

