



Remote Repository (GitHub)



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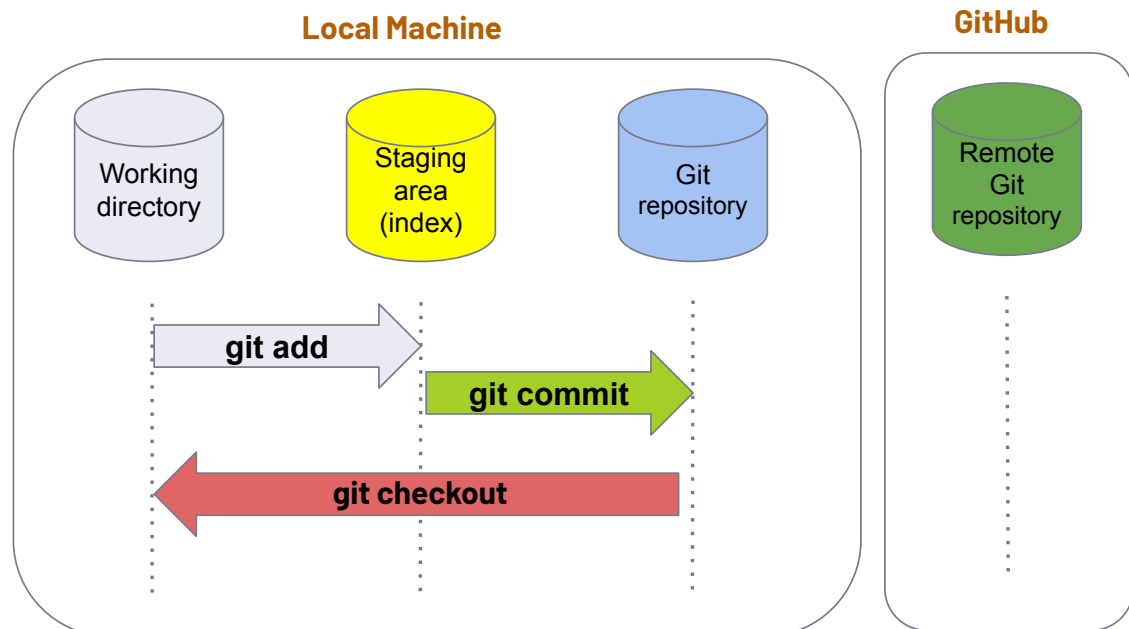
Recap- Git Workflow

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Recap-Basic Commands



git init
git status
git add .
git rm --cached
git commit -m "abc"
git log
git checkout **commitID**

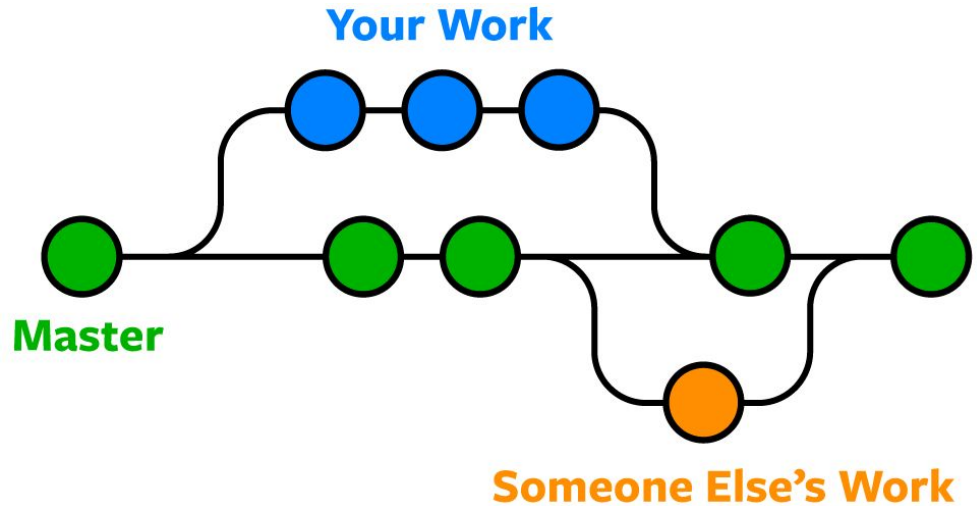


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Recap-Branches

git branch **branch_name**
git branch
git branch -r
git branch -a
git checkout **branch_name**
git checkout -b **branch_name**
git branch -d **branch_name**
git branch -D **branch_name**
git merge **branch_name**

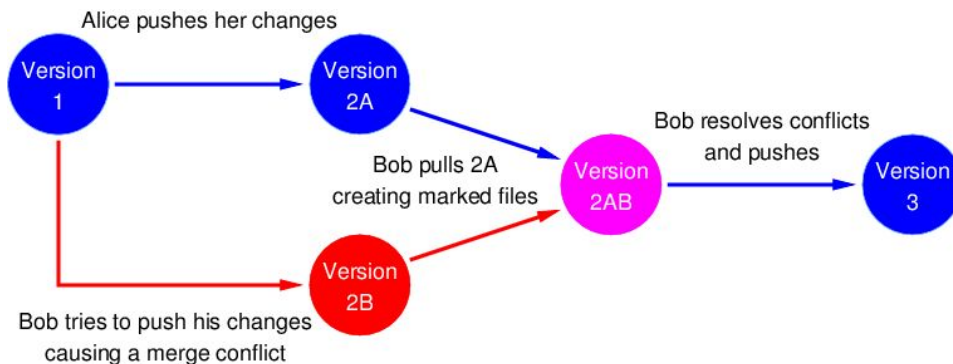
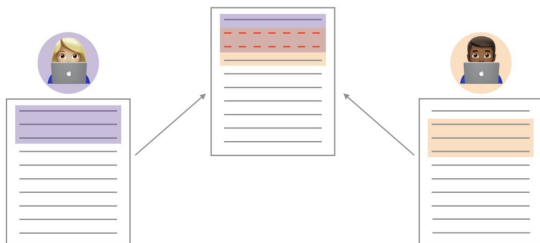


Merge Conflicts



Merge conflicts happen when you merge branches that have competing commits, and Git needs your help to decide which changes to incorporate in the final merge.

Same files were edited in both branches





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Remote Repository (GitHub)

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Github - Remote Repository



Git

&

GitHub






Distributed
version-control system

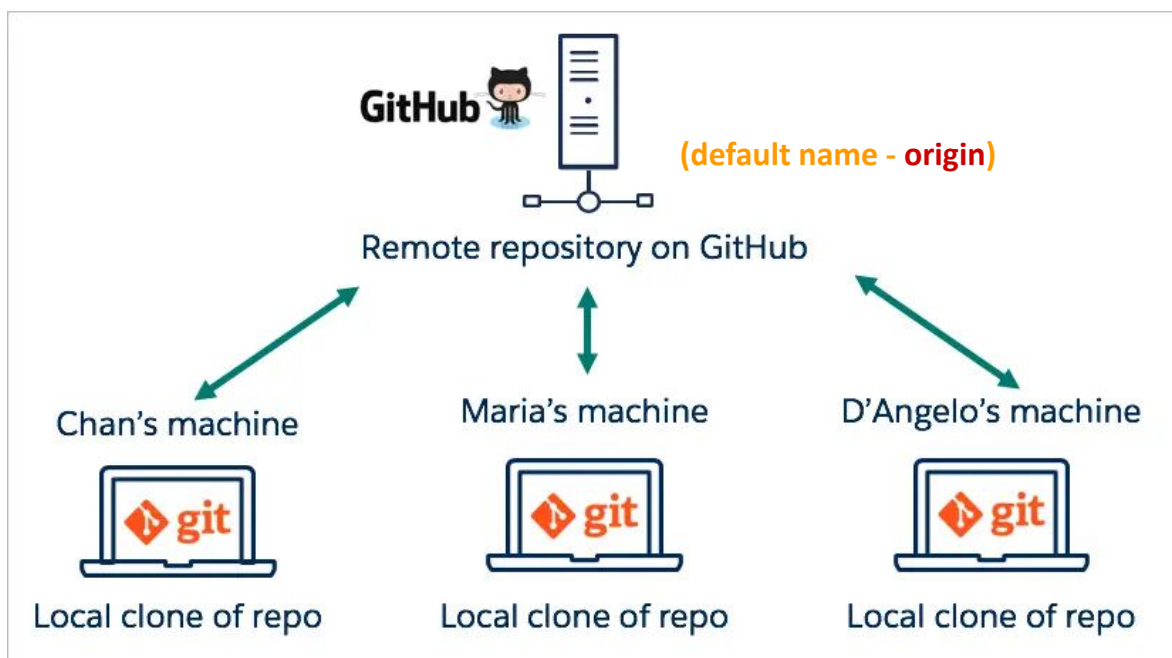
Repository hosting service

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Github - Remote Repository

|  Bitbucket |  GitHub |  GitLab | | | | | | | | | | | | | | | | | | |
|---|---|---|-------|-------|-------|------|---|--------|-----------|-------|--------|-------|-------|---|--------|-----------|-------|-------|-------|------|
| + Follow + I use this | + Follow + I use this | + Follow + I use this | | | | | | | | | | | | | | | | | | |
| <table><tr><th>Stacks</th><th>Followers</th><th>Votes</th></tr><tr><td>25.8K</td><td>19.2K</td><td>2.8K</td></tr></table> | Stacks | Followers | Votes | 25.8K | 19.2K | 2.8K | <table><tr><th>Stacks</th><th>Followers</th><th>Votes</th></tr><tr><td>132.1K</td><td>99.8K</td><td>10.1K</td></tr></table> | Stacks | Followers | Votes | 132.1K | 99.8K | 10.1K | <table><tr><th>Stacks</th><th>Followers</th><th>Votes</th></tr><tr><td>30.5K</td><td>23.4K</td><td>2.3K</td></tr></table> | Stacks | Followers | Votes | 30.5K | 23.4K | 2.3K |
| Stacks | Followers | Votes | | | | | | | | | | | | | | | | | | |
| 25.8K | 19.2K | 2.8K | | | | | | | | | | | | | | | | | | |
| Stacks | Followers | Votes | | | | | | | | | | | | | | | | | | |
| 132.1K | 99.8K | 10.1K | | | | | | | | | | | | | | | | | | |
| Stacks | Followers | Votes | | | | | | | | | | | | | | | | | | |
| 30.5K | 23.4K | 2.3K | | | | | | | | | | | | | | | | | | |

Github - Remote Repository



Github - Remote Repository

- Act of copying a repository from remote server to your local machine is called **cloning**
- Cloning allows team to work together
- Downloading commits from others : **fetch, merge**
- Downloading commits from others : **pull (fetch + merge)**
- Uploading your commits (local changes) to remote : **push**

Connecting your local with remote

- connect to remote repo

```
git remote add origin Repo address
```

```
git remote -v
```

origin = alias for your repo address

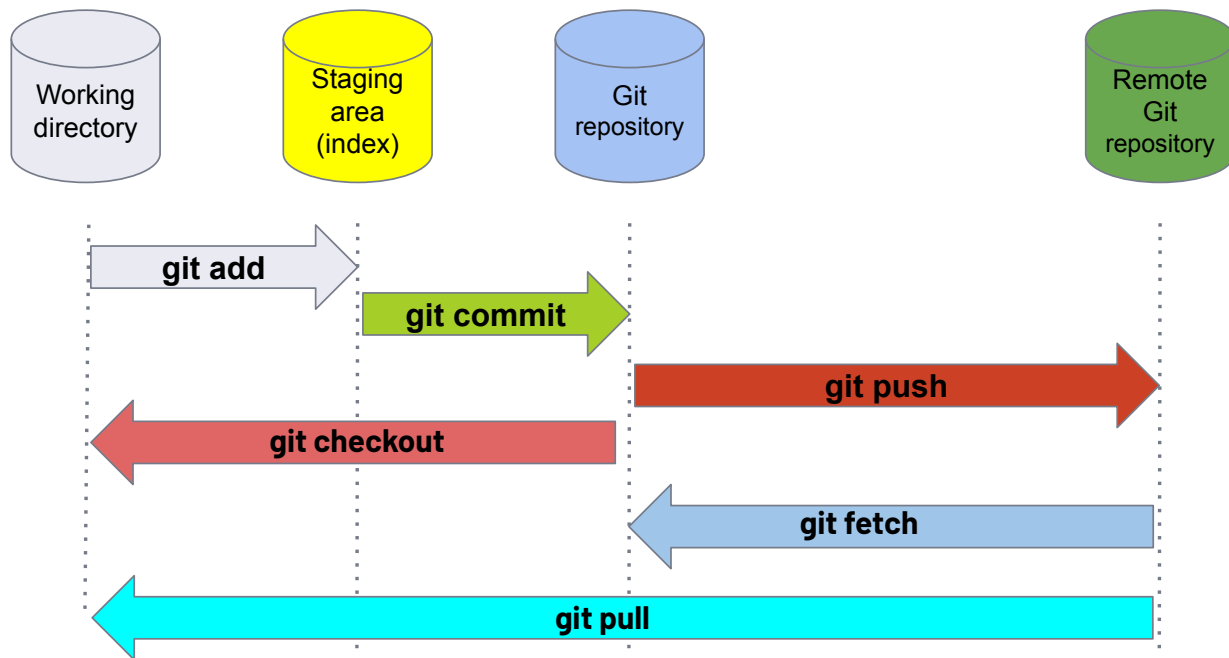
- first push

```
git push -u origin master
```

- remove remote origin

```
git remote rm origin
```

Github - Remote Repository



3 Pull Request

Github - Pull Request



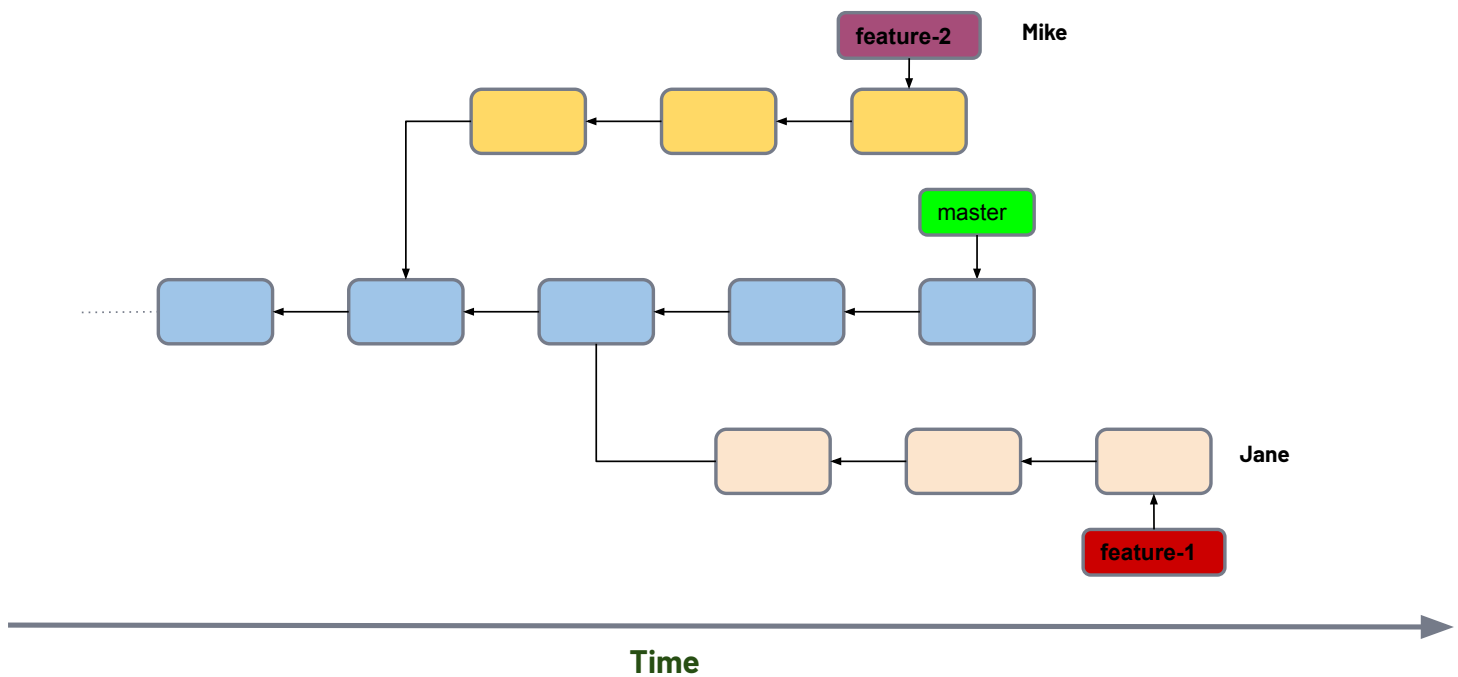
- Github's feature not Git's feature
- It allows you to contribute to other projects

Github - Pull Request

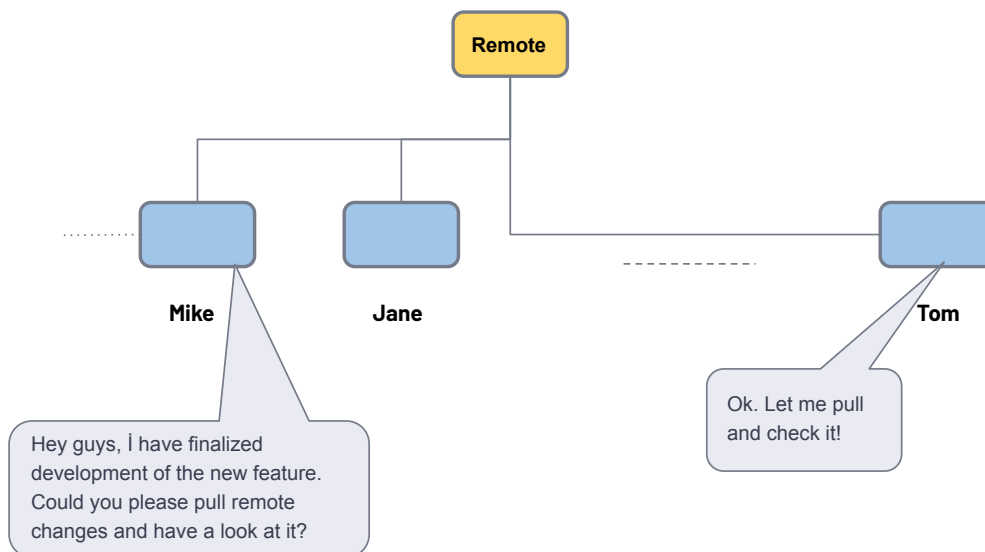


- **Pull Requests (PR)** let you tell others about changes you've pushed to a branch in a repository on GitHub
- You create a pull request to propose and collaborate on changes to a repository. These changes are proposed in a branch, which ensures that the master branch only contains finished and approved work.

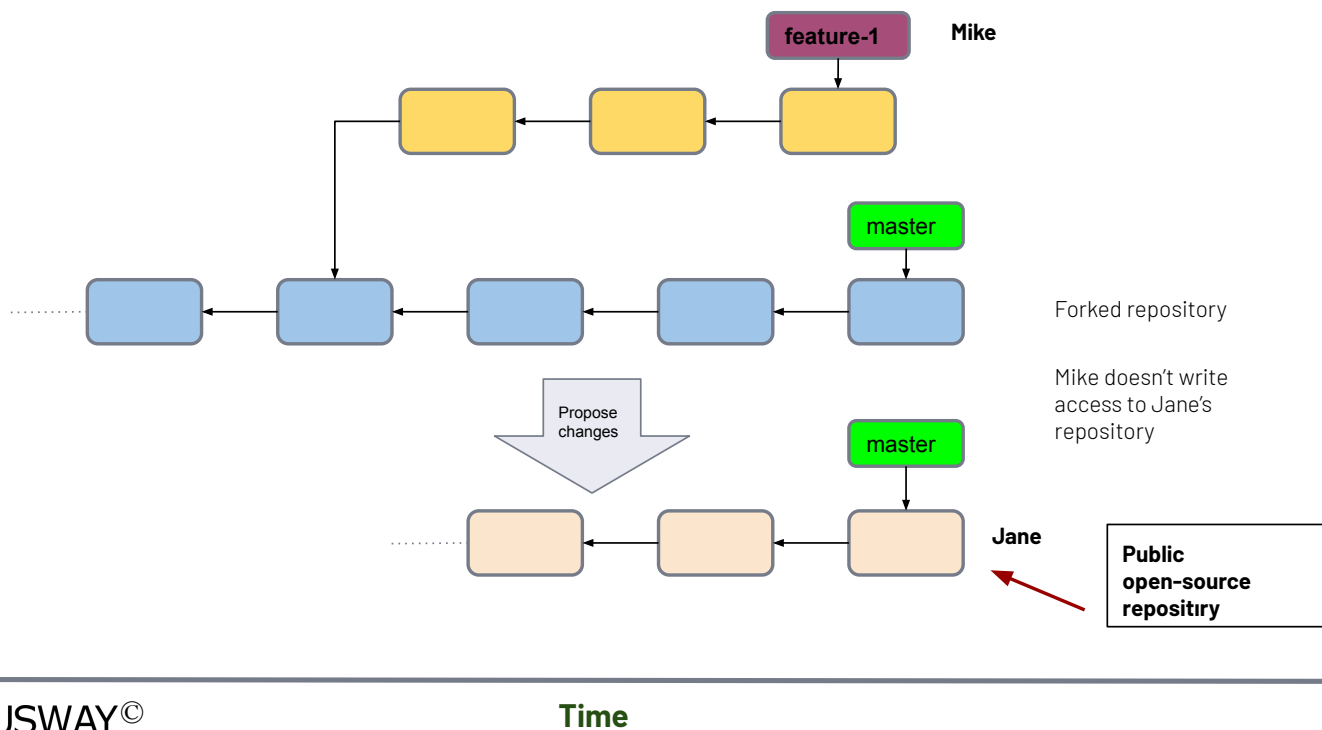
How collaborators communicate? »



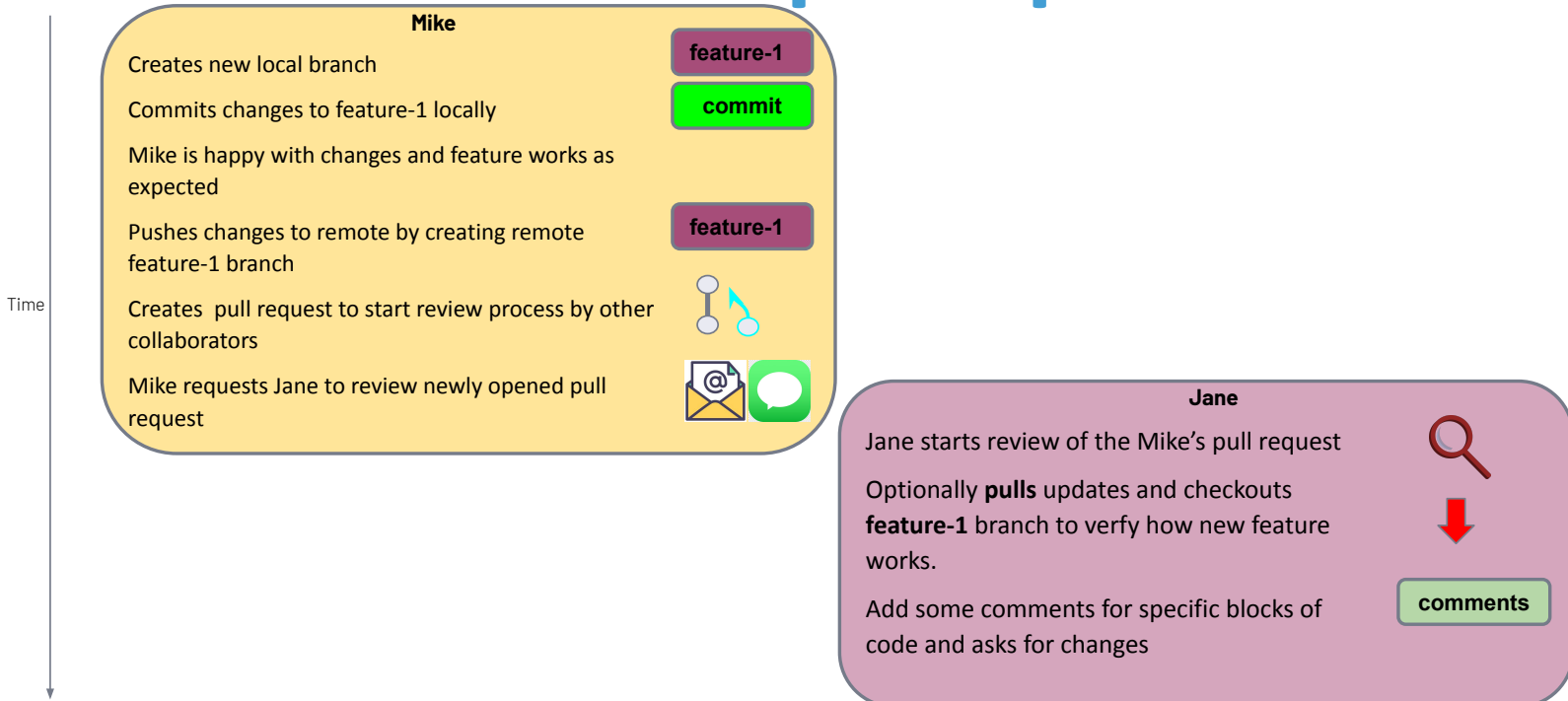
Why “pull” request? »



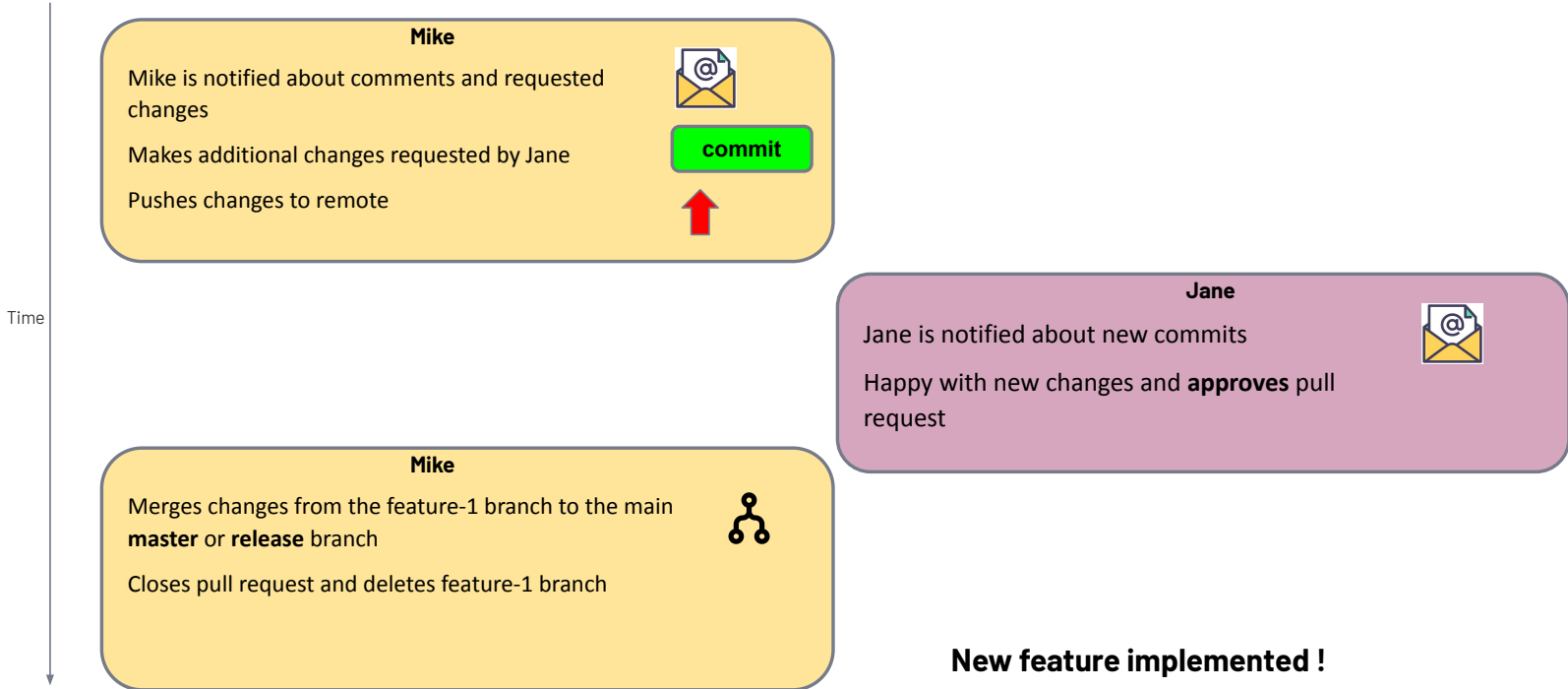
How collaborators communicate? »



Github - Pull Request process »



Github - Pull Request process



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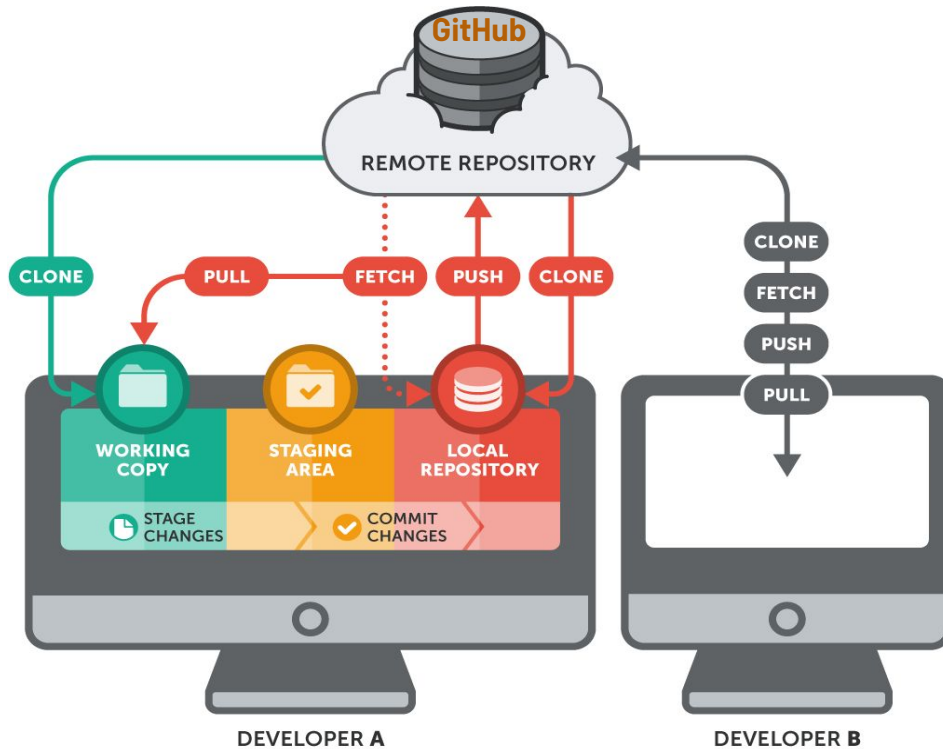
Git Basics



Summary

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Git Basics



THANKS!

Any questions?

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- ▶ tyler@clarusway.com

