

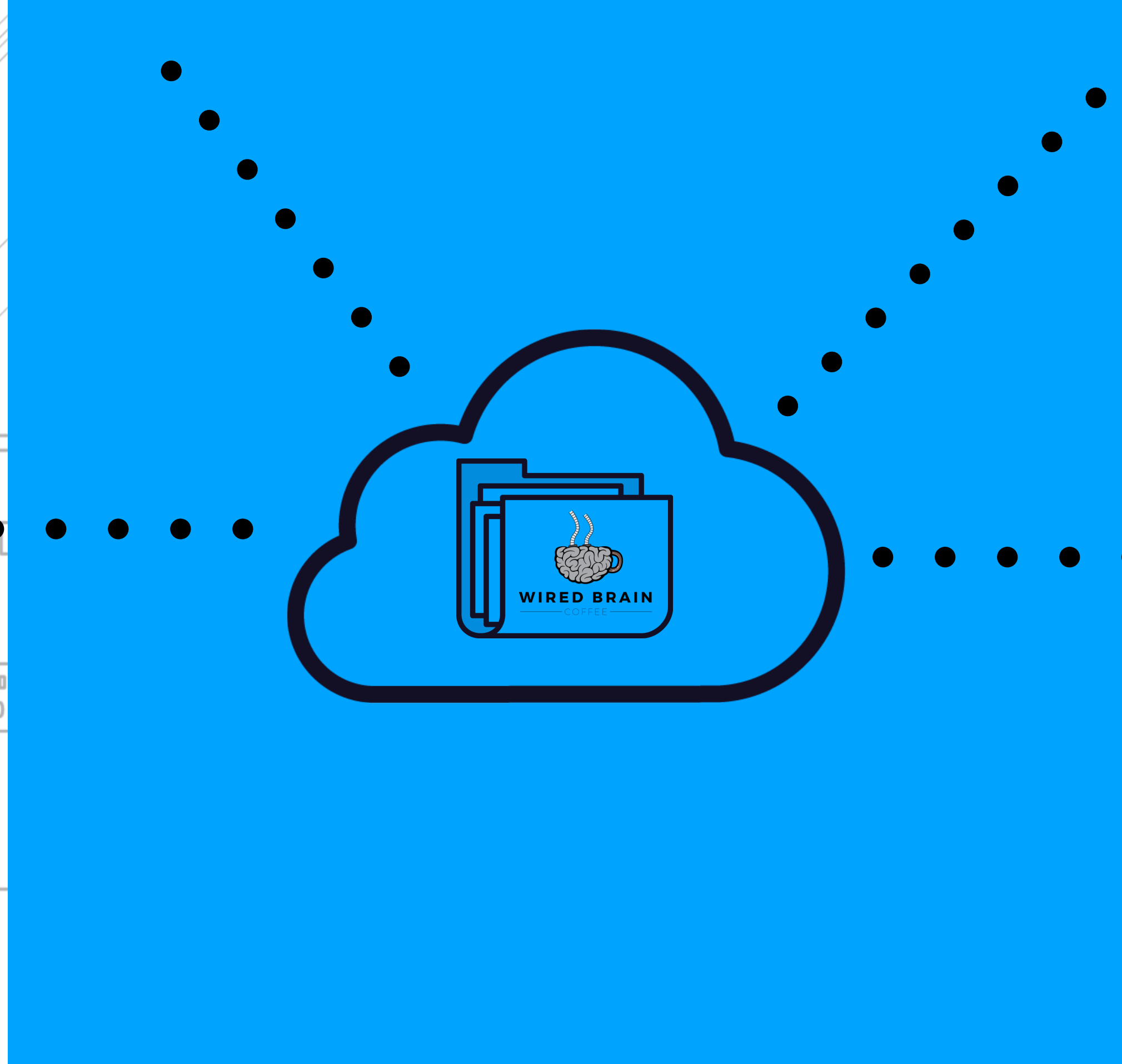
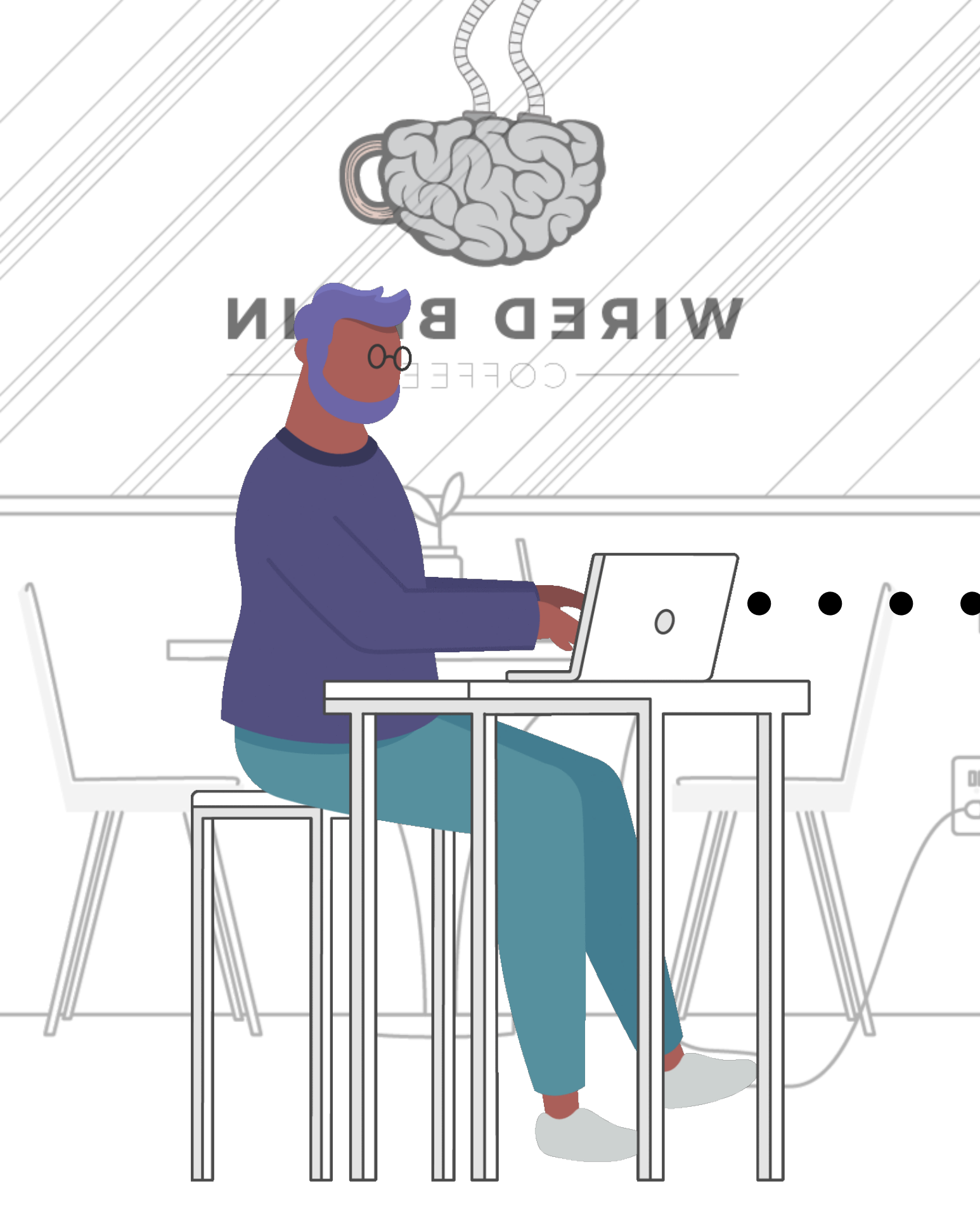
# Merge Conflicts: What Are They and How Can You Resolve Them?



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```
git pull origin/main
```



```
git merge feature
```



```
README.md: lines 6-12
```

```
CONFLICT (CONTENT): Merge conflict in README.md
```

```
Automatic merge failed; fix conflicts and then  
commit the result
```

```
git push origin/main
```



```
README.md: Lines 2-18
```

# Situations That Result in a Merge Conflict



**When more than one person changes the same line in a file and tries to merge the change to the same branch**

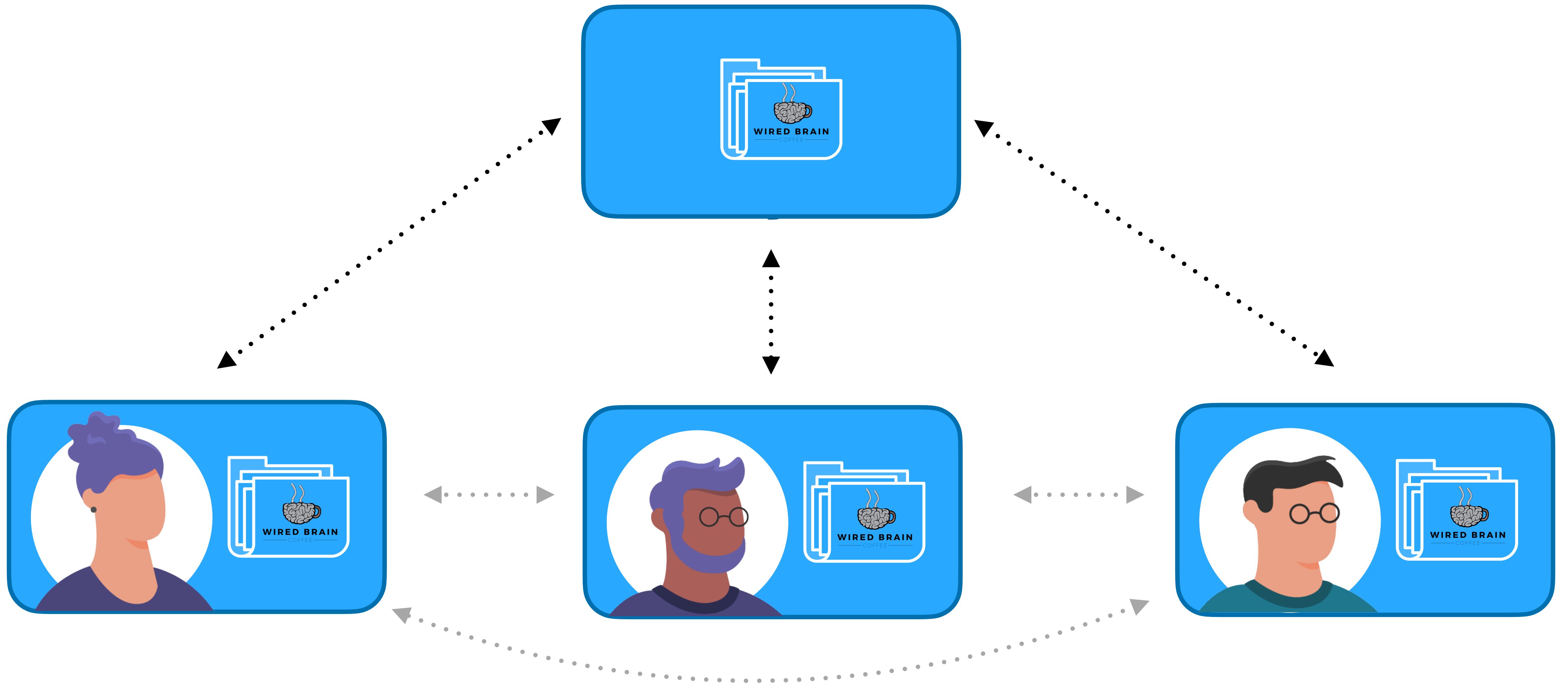


**When a someone deletes contents in a file, but another person edits the same content, and they both try to merge their changes to the same branch**



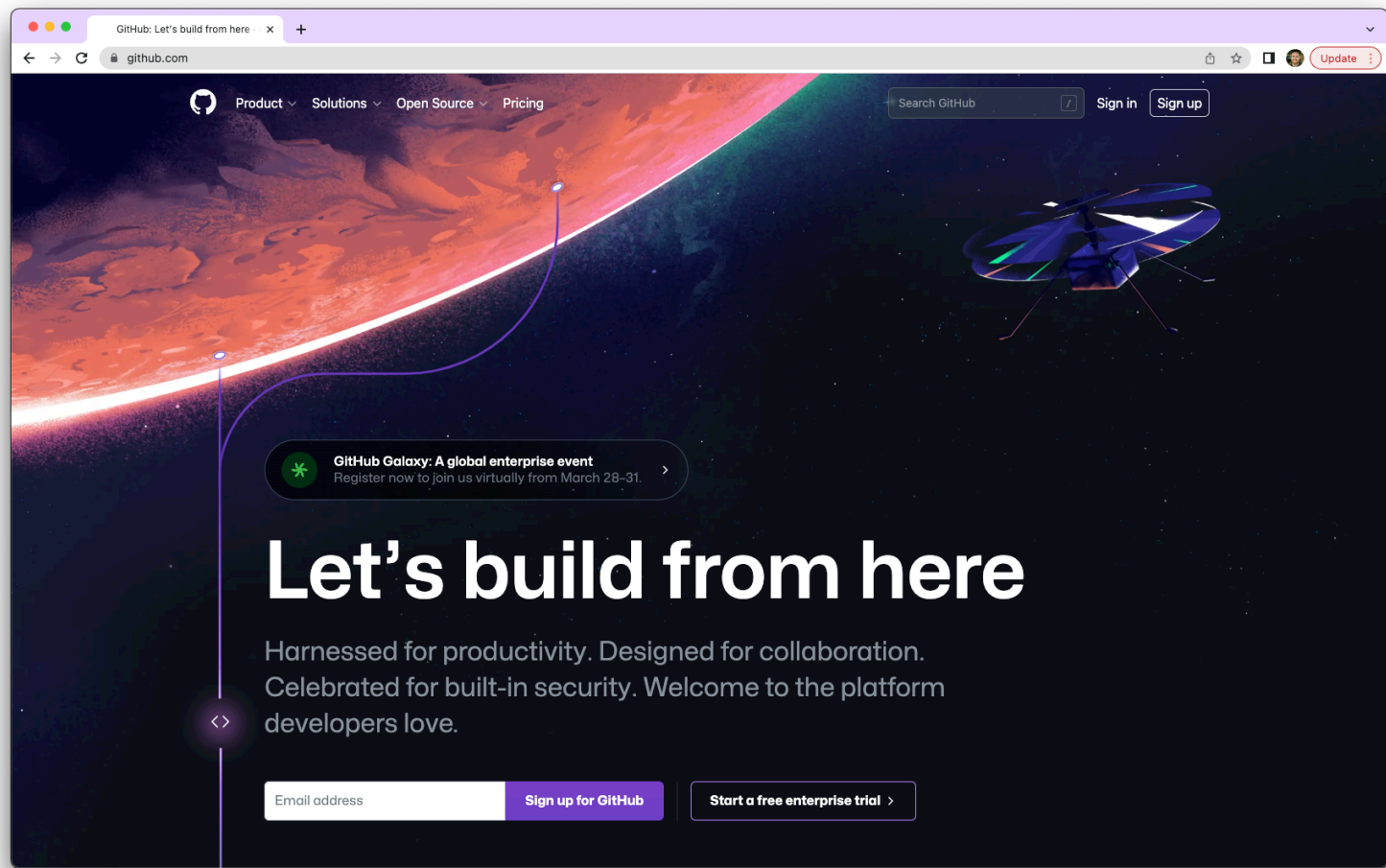
**When a someone deletes a file, but another person edits it, and they both try to merge their changes to the same branch**



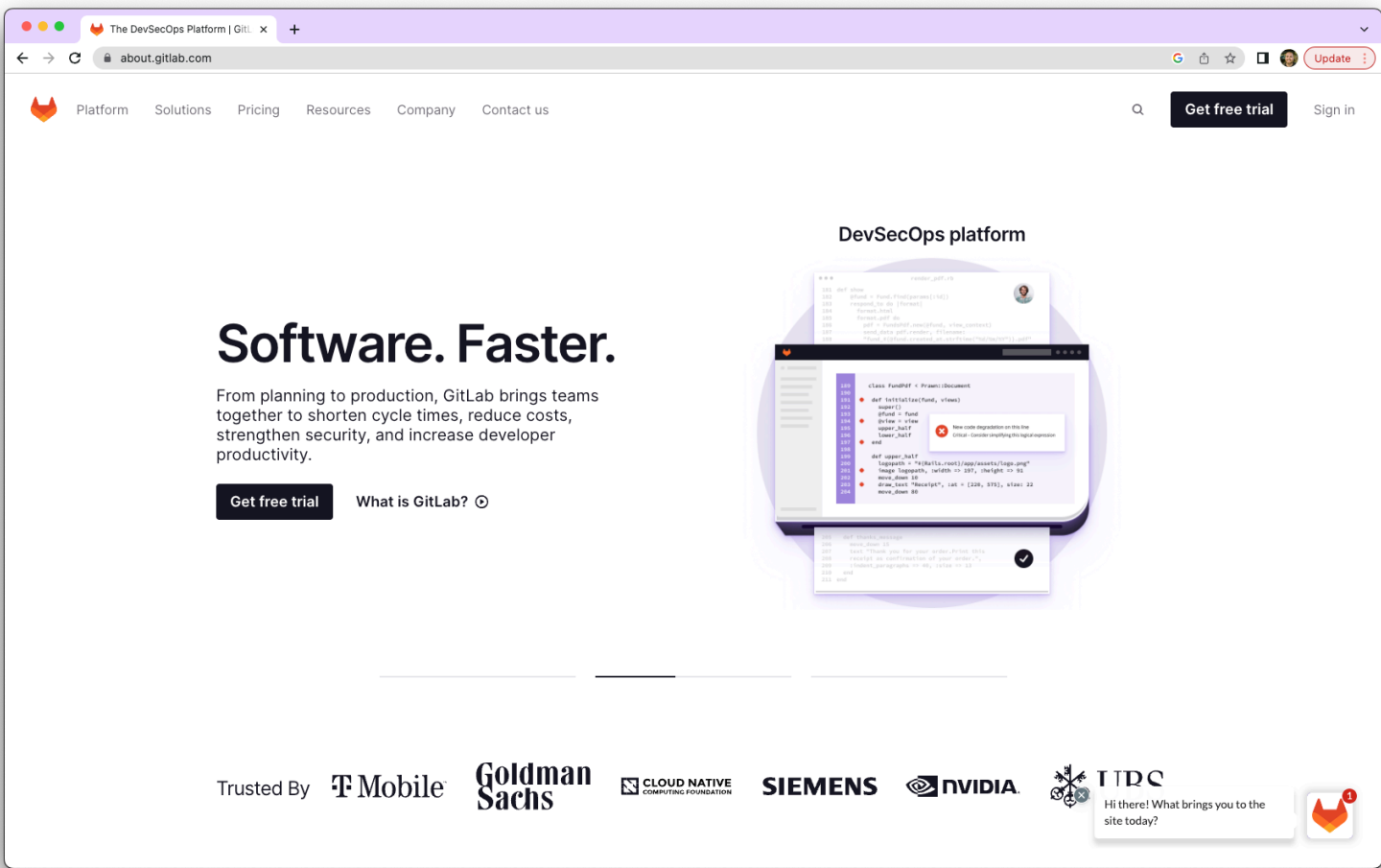




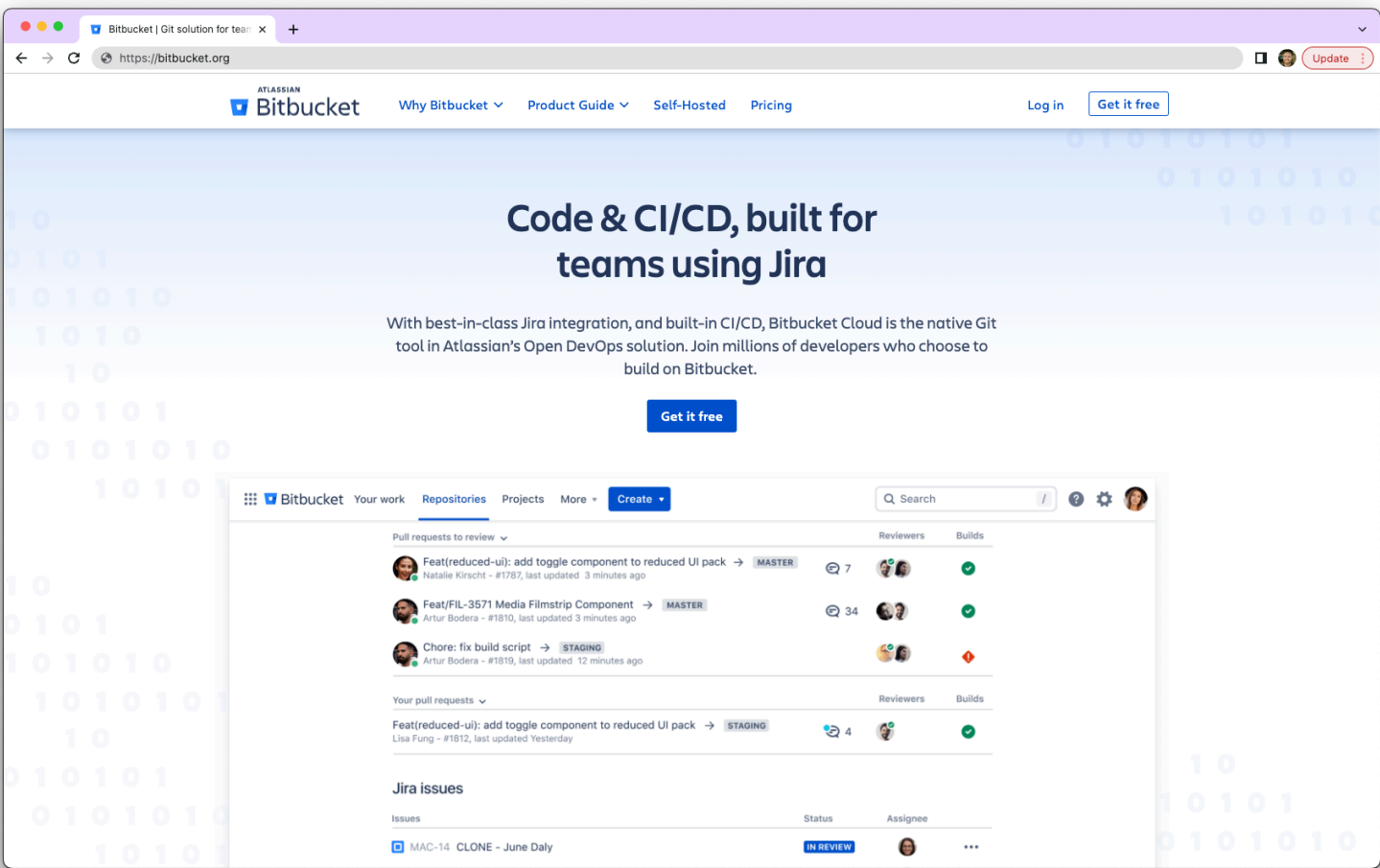
# Popular Code Hosting Platforms



GitHub

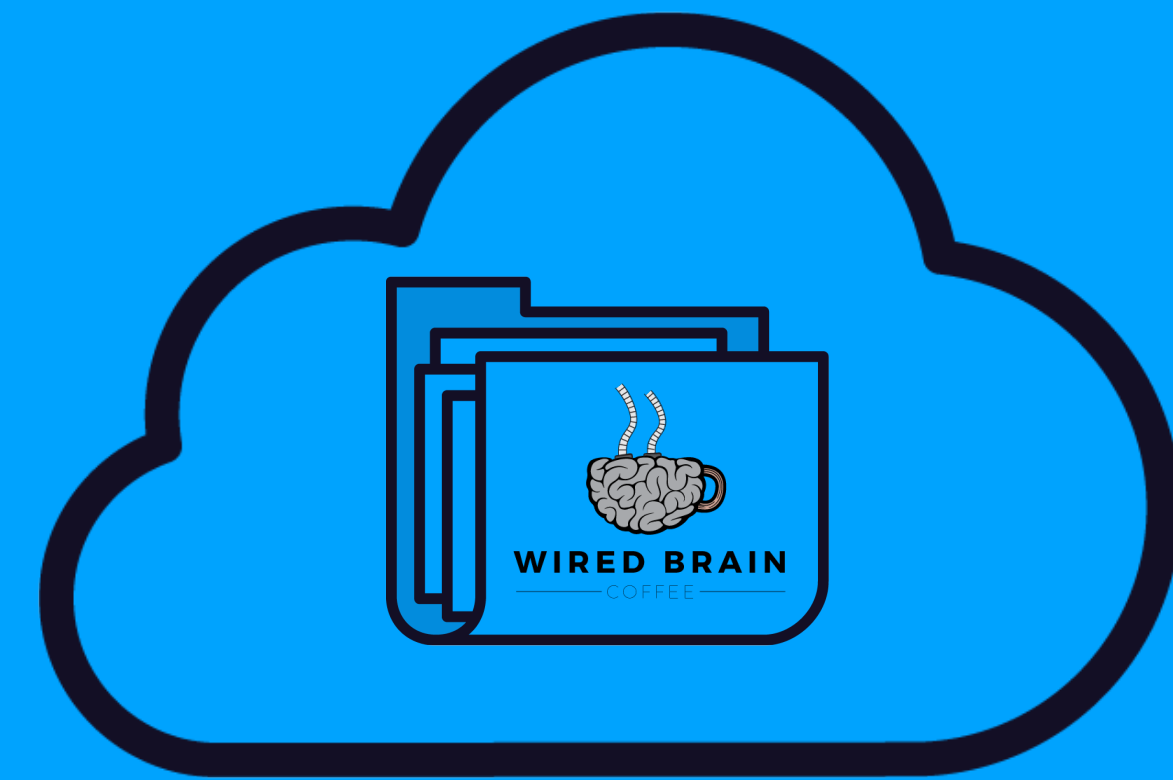


GitLab

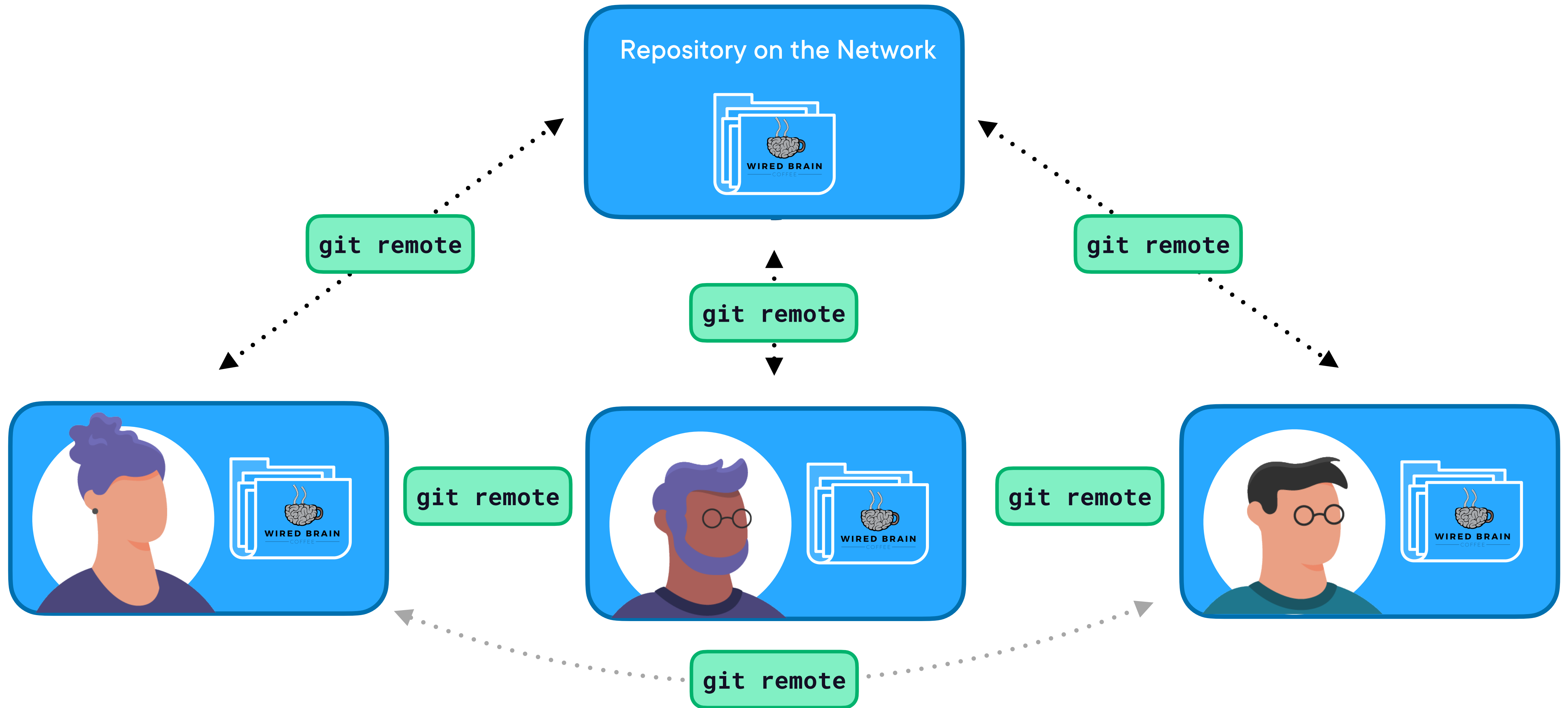


Bitbucket









## Git Basics

<code>git init</code>	Create a new .git repository and begins tracking
<code>git add</code>	Move modified files into the staging area
<code>git status</code>	Shows you the status of your files
<code>git commit</code>	Create a snapshot and commit to .git
<code>git config</code>	Set and read specific Git configurations
<code>git log</code>	Shows the committed snapshot history
<code>git diff</code>	Shows changes between your working directory and staging area

## Git Branches

<code>git branch</code>	List, create, or delete branches
<code>git checkout</code>	Switch between branches
<code>git merge</code>	Bring changes from one branch into another

## Remote Repositories

<code>git clone</code>	Copies an entire repository into a new local .git directory
<code>git remote</code>	Create and show linked repositories
<code>git push</code>	Send updates to associate repositories
<code>git pull</code>	Retrieves and integrates changes from other repositories
<code>git fetch</code>	Retrieves but doesn't integrate changes from other repositories

## Undoing Changes

<code>git revert</code>	Create a new commit that undoes a previous commit
<code>git reset</code>	Remove files from the staging area

## Remote Repositories

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<code>git remote</code>	Create and show linked repositories
<code>git push</code>	Send updates to associate repositories
<code>git pull</code>	Retrieves and integrates changes from other repositories
<code>git fetch</code>	Retrieves but doesn't integrate changes from other repositories

```
git remote add origin https://codehostingsite.com/repository-name.git
```

## Remote Repositories

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```
git push -u origin main
```

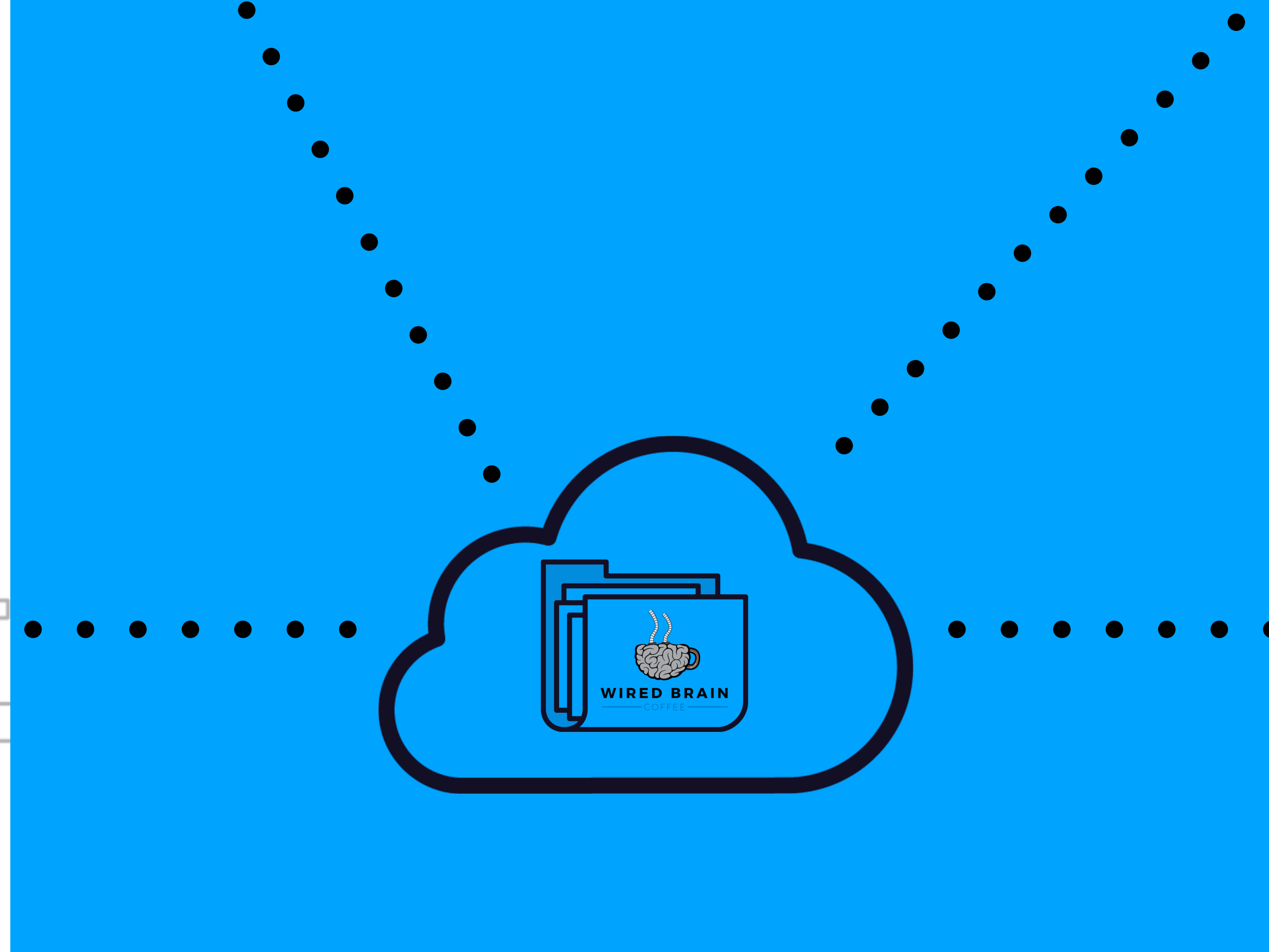




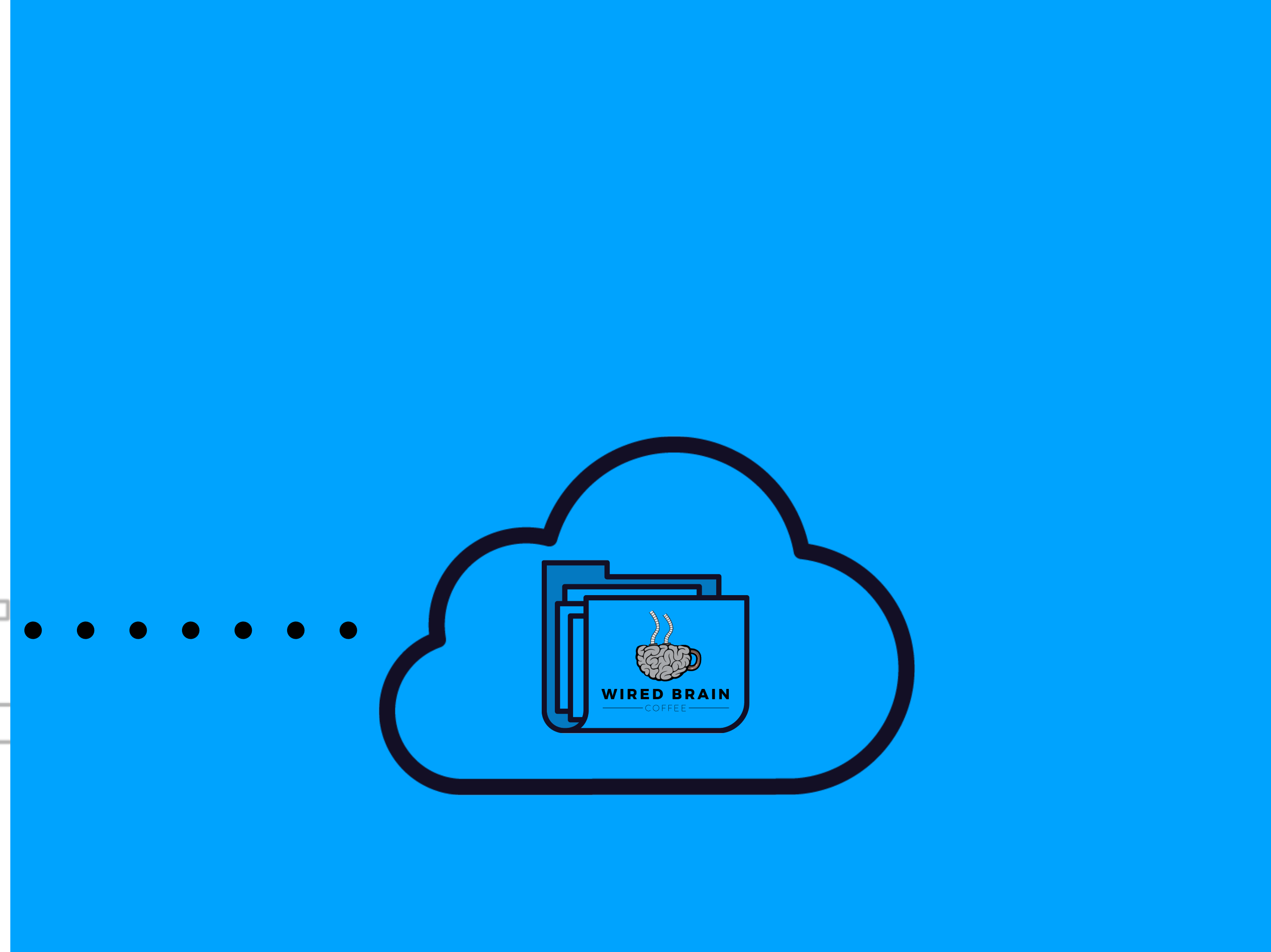
git push feature ❌

git push -u origin feature ✅

git push feature ✅



git push feature



```
git pull    (git fetch , git merge)
```

```
Updating a601251..62d26d6
```

```
Fast-forward
```

```
iced-beverages/vanilla-sweetcream-coldfoam.md | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)
```

Git remote branches

- main
- feature