

Автоматизирано Тестване с Playwright и TypeScript



Trainer: Georgi Georgiev
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Git & GitHub



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Visual Studio Code

- Download Visual Studio Code
<https://code.visualstudio.com/Download>
- Installation Tutorial for Windows
https://www.youtube.com/watch?v=CPmQwlycfGI&ab_channel=AmitThinks
- Installation Tutorial for Mac
https://www.youtube.com/watch?v=w0xBQHKjoGo&ab_channel=ProgrammingKnowledge

Node JS

- Download Node JS from <https://nodejs.org/en/download>
- Installation Tutorial for Windows
https://www.youtube.com/watch?v=-tXZ4g2PwGs&ab_channel=ProgrammingKnowledge2
- Installation Tutorial for Mac
https://www.youtube.com/watch?v=I8H4woIRFBk&ab_channel=ProgrammingKnowledge

Git

- Download Git from <https://git-scm.com/downloads>
- Installation Tutorial for Windows
https://www.youtube.com/watch?v=iYkLrXobBbA&ab_channel=CodeBear
- Installation Tutorial for Mac
https://www.youtube.com/watch?v=B4qsvQ5IqWk&t=13s&ab_channel=CodeWizard

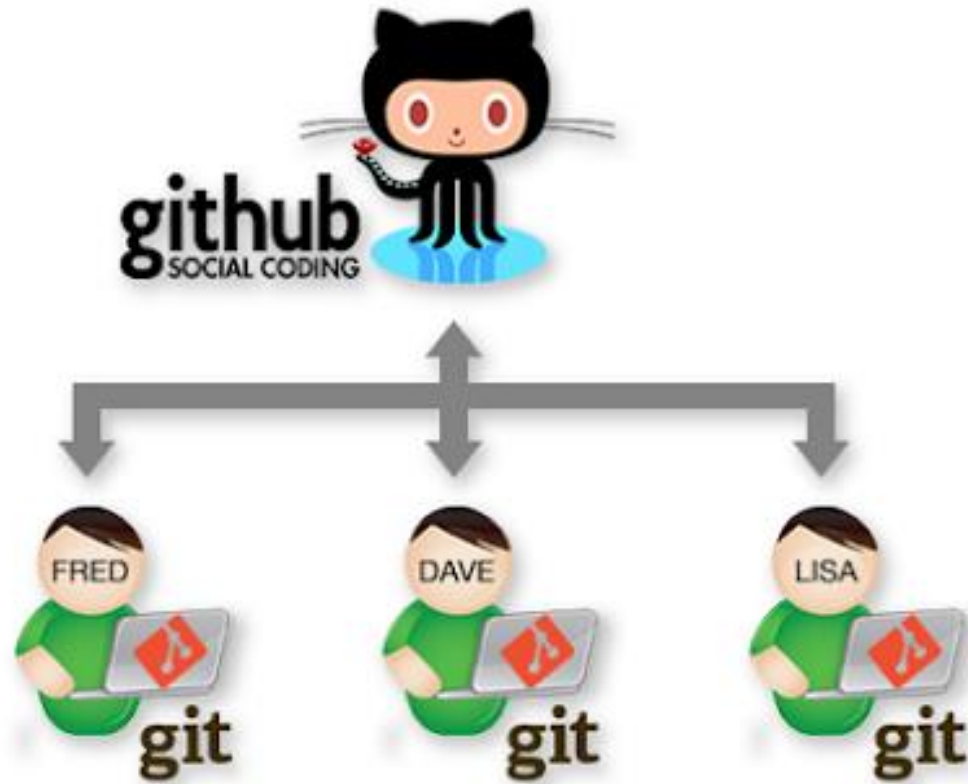
GitHub

- Create an account in GitHub <https://github.com/>

Version Control System

- Version Control System/ Source Control System:
 - Practices, techniques and tools for working on **shared source code**
 - Keeps track of what is happening in the project (Contributing, Versions)
 - Solves conflicts in the changes
- Control Systems are part of every real / released project and we cannot manage it without them

Git vs GitHub

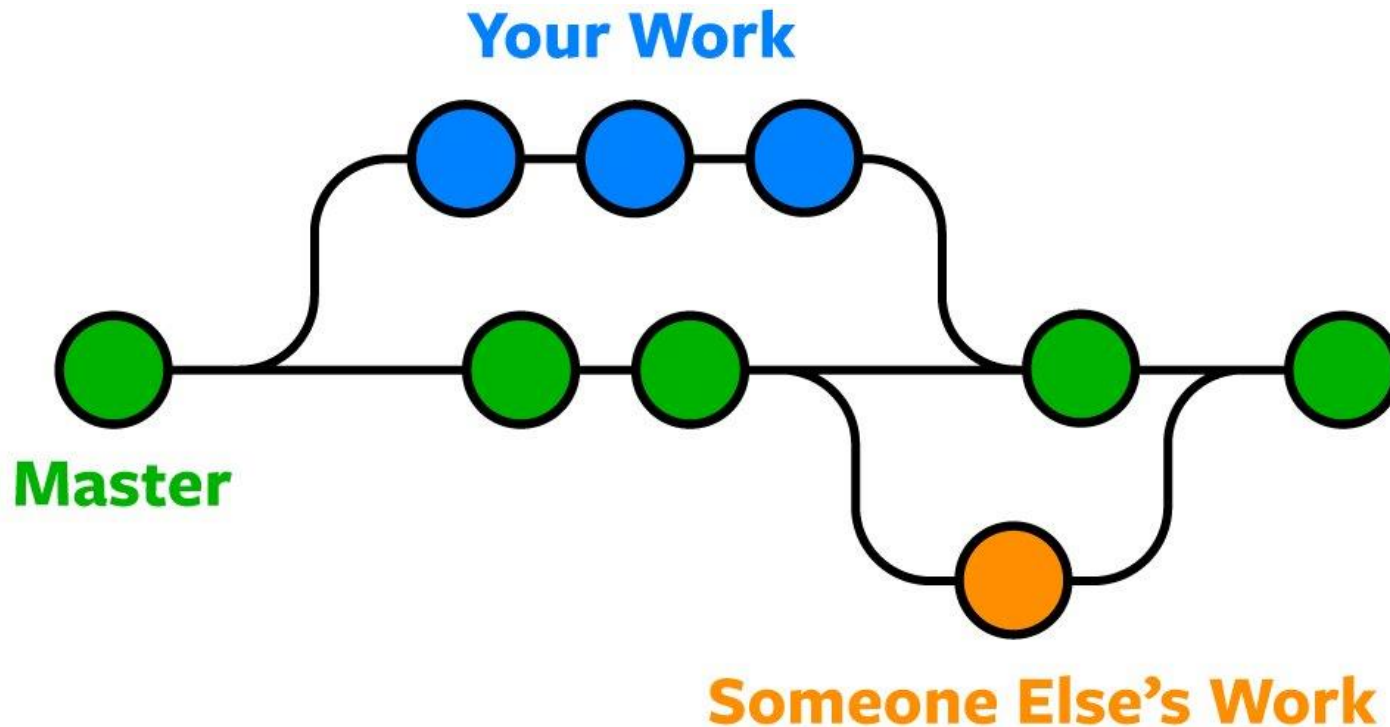


Git

- **Git** is a version control system that helps developers track changes in their code and collaborate efficiently. It works locally on our computer.
- Think of Git as a tool for managing your code's history, while GitHub is a place to store and collaborate on that code online.
- Developers use Git to commit changes, create branches, and merge updates, while GitHub provides a visual interface and additional tools for collaboration.
- You can use **Git** without **GitHub**, but **GitHub** relies on **Git** to function.

Git

- Git is a distributed version control system that tracks versions of files. It is often used to control source code by programmers who are developing software collaboratively.

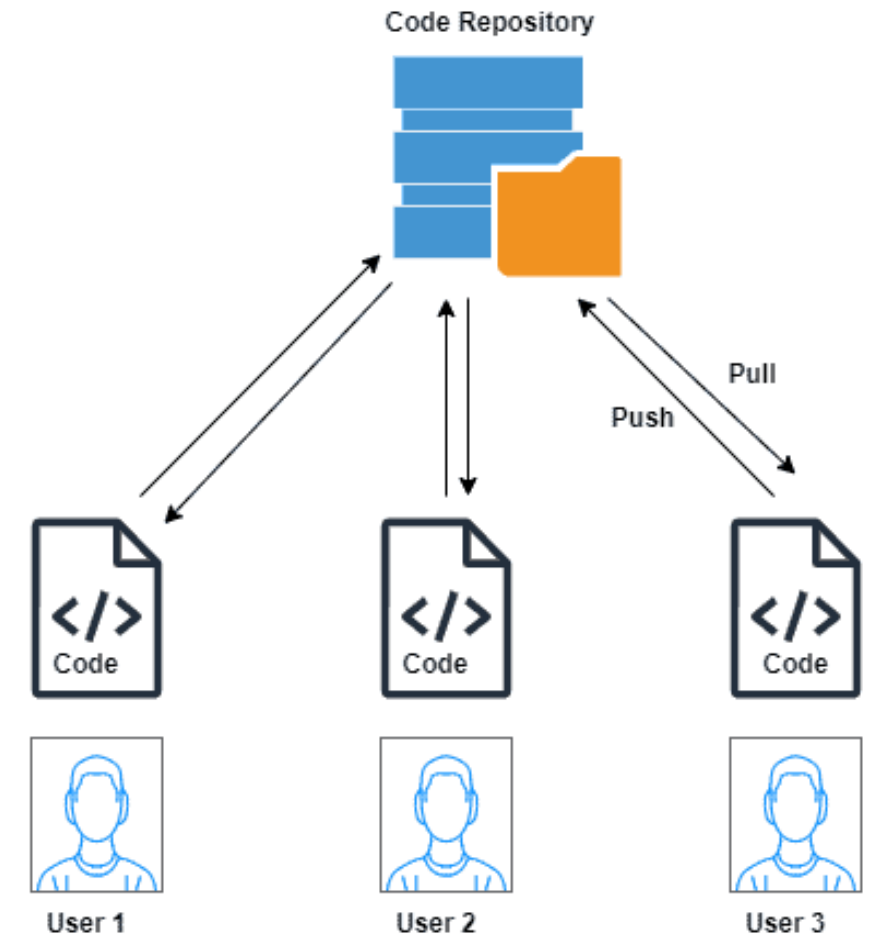


GitHub

- **GitHub** is number 1 **source code** hosting website
- It is **free** for open-source projects
- Includes also **private repository** options

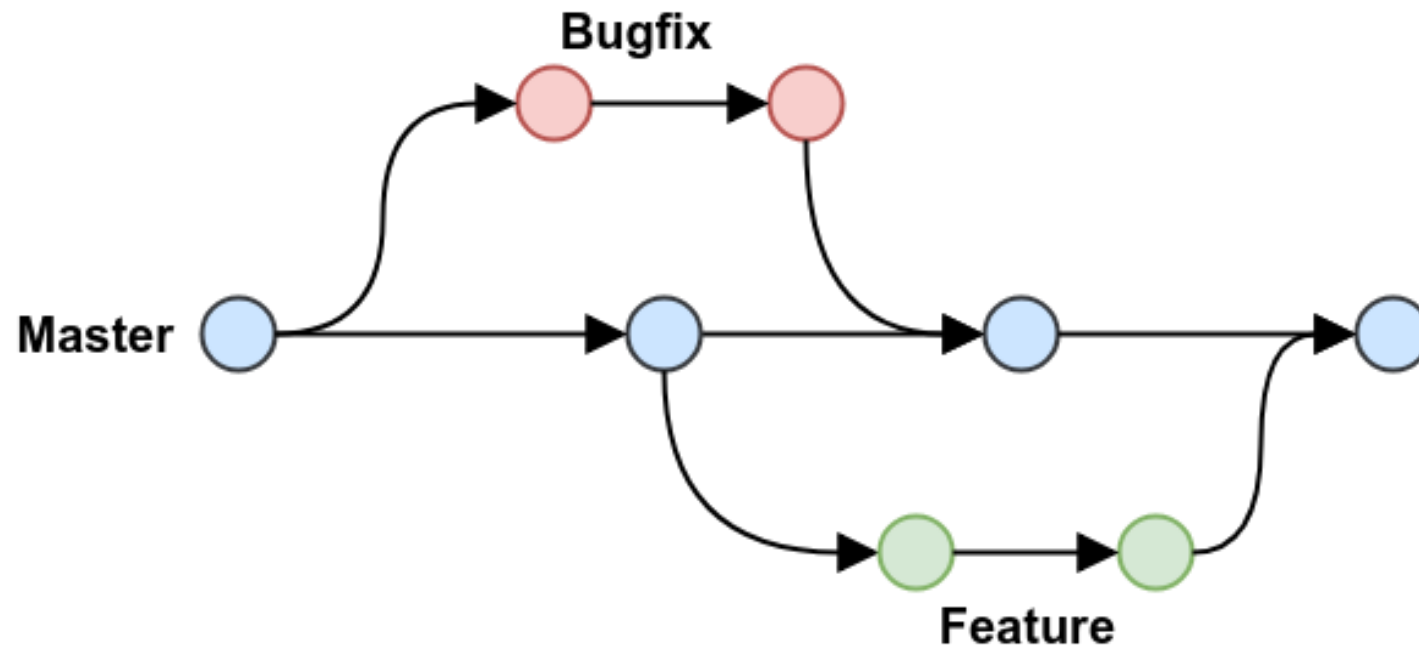
Repository

- Repository stores the project in a remote server.
- The process when we pull remote (GitHub) repository to our local computer is **clone**.



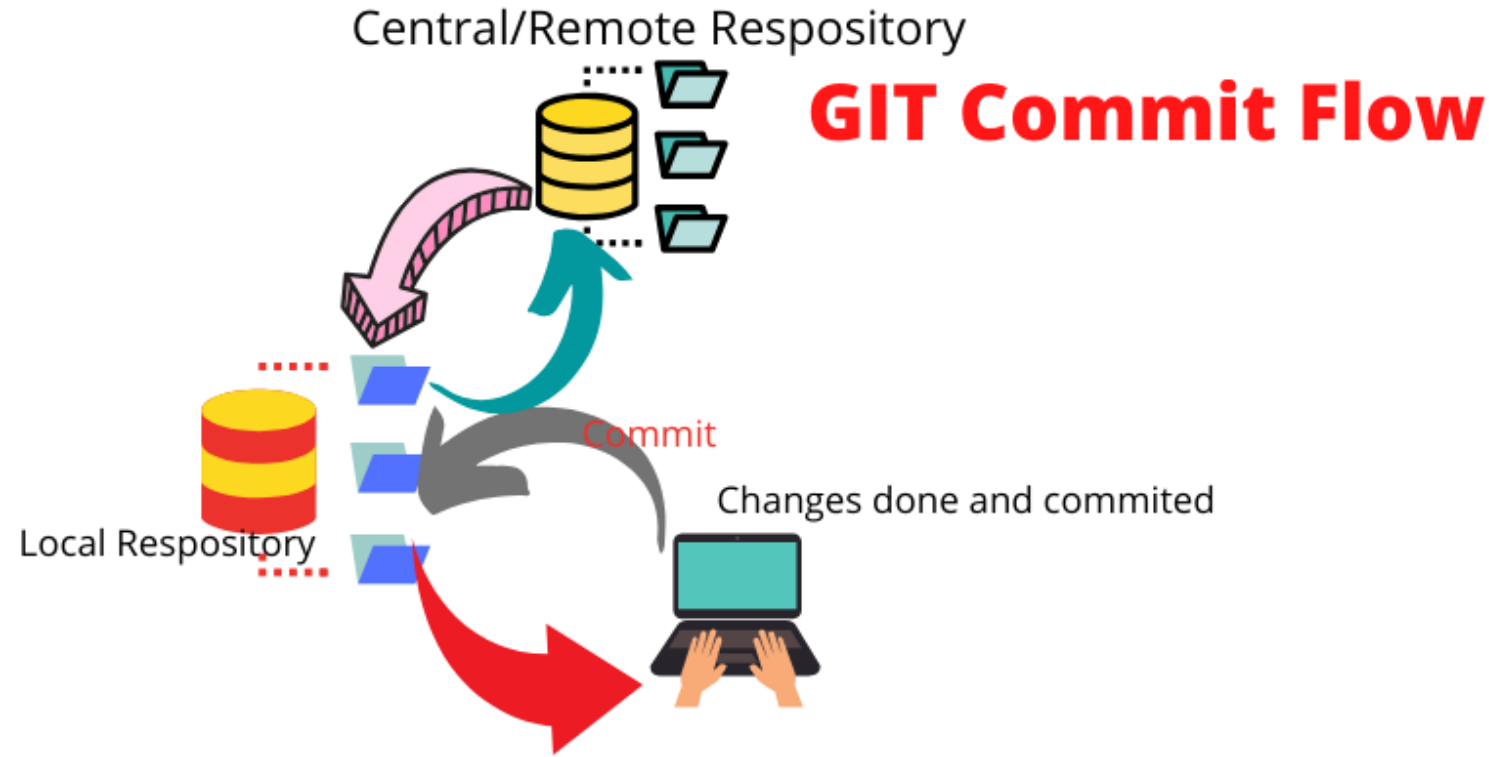
Branch

- A branch in Git is like a separate workspace where you can make changes without affecting the main project.
- It allows you to work on new features or fixes without disturbing the main code. When you're done, you can merge the branch back to combine your changes with the main project.



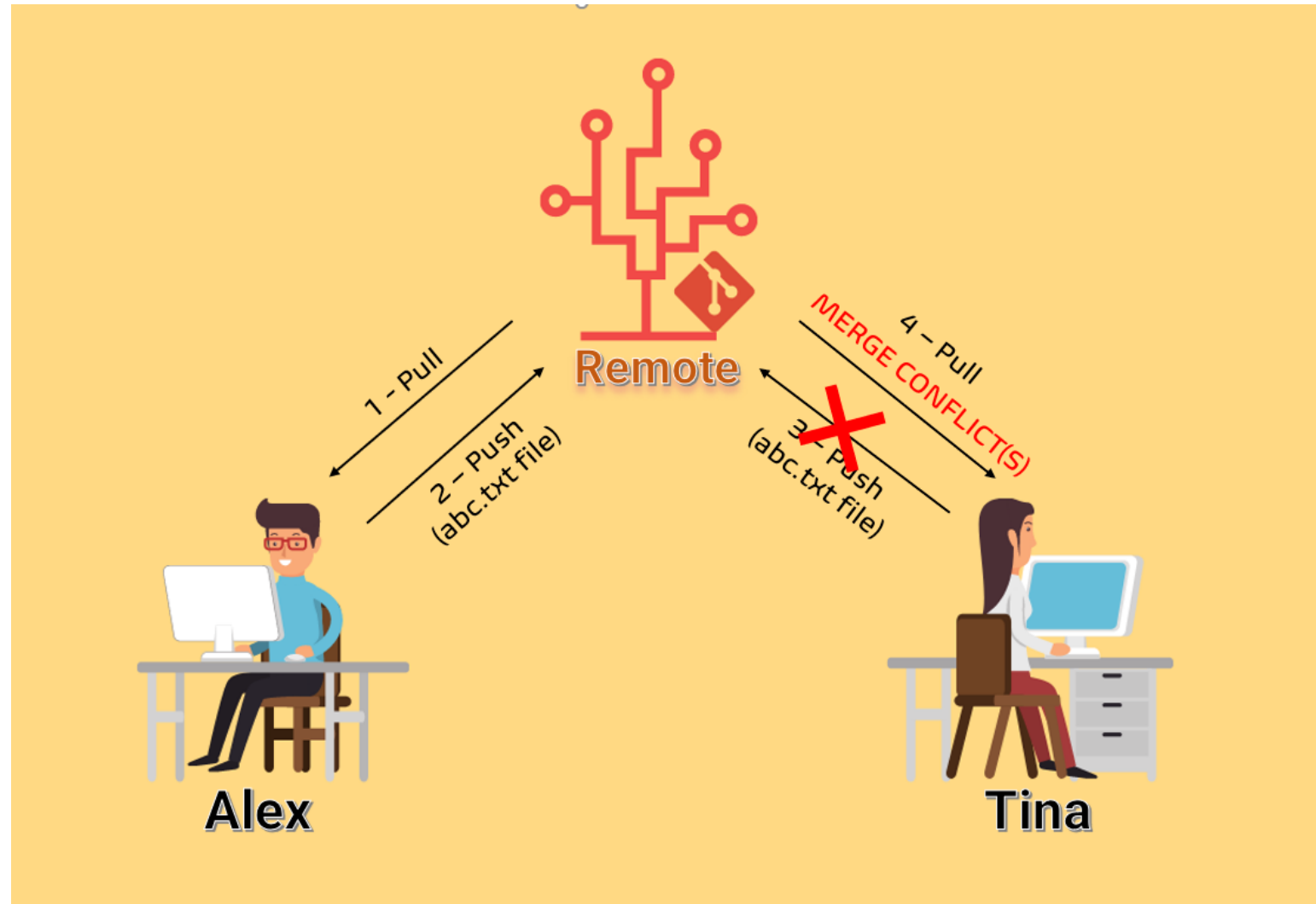
Commit

- Adding **commits** keep track of our progress and changes as we work. Git considers each commit change point.
- It is a point in the project you can go back to if you find a bug, or want to make a change.
- When we **commit**, we should always include a message.
- By adding clear **messages** to each commit, it is easy for yourself (and others) to see what has changed and when.



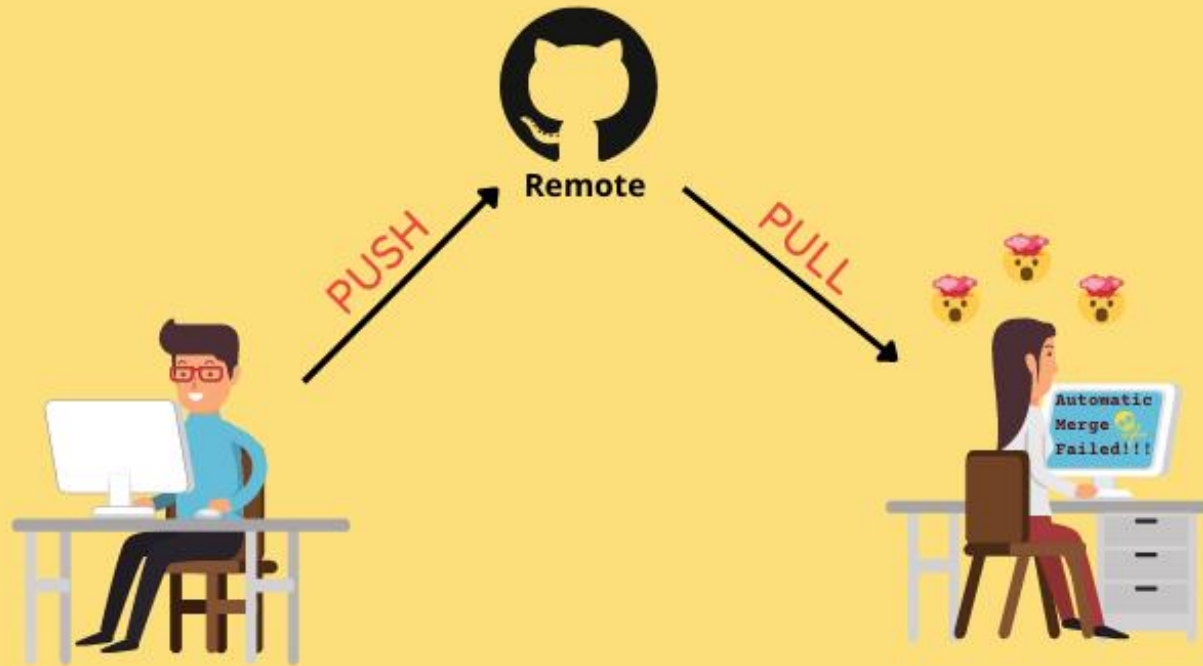
Conflict

- Merge conflicts occur when two branches in a merge request, the source and target, have different changes to the same lines of code.



Resolve Conflict

RESOLVE MERGE CONFLICTS



Git Commands

- **git clone** – Cloning existing repository
- **git pull** – Fetch and merge the latest changes from the remote repository
- **git status** – Check the status of our local repository
- **git add .** - Preparing / adding and selecting files for commit
- **git commit -m "Test commit"** - Committing changes to the local repository
- **git push** – Pushing to a remote repository

Git Commands

- Git Commands Every Developer Should Know - <https://www.freecodecamp.org/news/10-important-git-commands-that-every-developer-should-know/>



Questions

