Git for Professionals

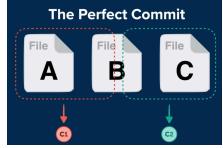
1. The Perfect Commit

Include 1 Topic Per Commit

Look for files that have been modified (git status), then:

- Add related files: git add <filename>
- Add related parts from each file: git add -p <filename>

Include The Perfect Commit Message



Subject: Concise summary of what happened. (Convention: Use present tense, not past tense) **Body**: More detailed explanation

2. Branching Strategy

Long-Running Branches ("main")

- Exist through the complete lifetime of the project.
- NO DIRECT COMMITS. Requires testing and code reviewing before integration.

Short-Lived Branches

- For new features, bug fixes, refactoring and experiments.
- Usually deleted after integration (merge/rebase).

3. Pull Requests

With pull requests, you are inviting other people to review and provide feedback before merging. After a conversation, your change can be merged to one of the branches.

To contribute to a repository that you don't have access to:

- 1. Create a "Fork" of the original repository, where you can make changes.
- 2. Suggest the changes to be included via a **Pull Request**.

4. Merge Conflicts

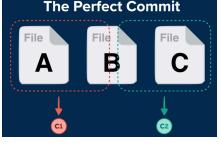
• When they occur: A version of a file has been submitted that is newer than the version of file you have started to base your changes on.

abid/main ----- How to solve: Make one or several merge operations. Alternatively, you can always undo your or the other developer's changes. Collaborate to get the problem solved.

- Usually, merges are automatically handled by Git.

5. <u>Useful Commands</u>:

- git branch What your current branch is.
- git checkout <branch_name> Switch to a different branch.
- git checkout -b
branch_name> Create a new branch and switch to it.



Team 141

DOG!

HELLO.

WORLD!