Version Control

ITI - Day 2

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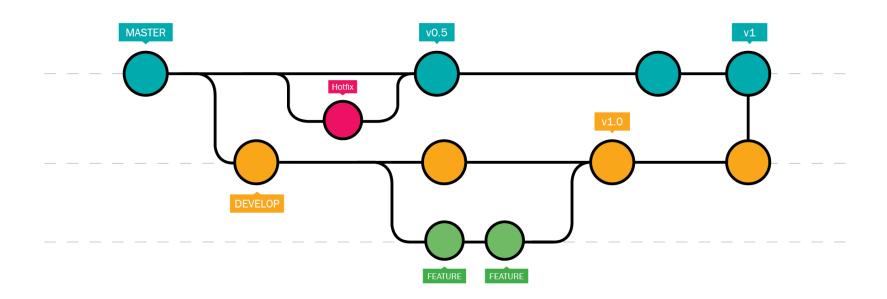
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Branching & Rebasing

Branching Out



Branching Out



To make a **new** branch.
git branch new_branch_name

 To list all the branches git branch

 To switch to a branch git checkout branch_name To create a branch and checkout it in one step git checkout -b new_branch_name

Create a Remote Branch



When you need another people to work on your branch
Then you have to make your branch available remotely
git push origin branch_name

To list remote branches
git branch -r

Remove a Branch



To delete a remote branch git push origin :branch_name

 To delete a local branch git branch -d branch_name

Merging Branches

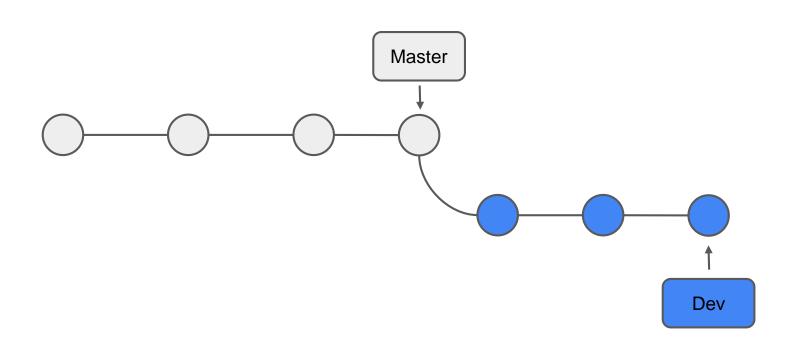


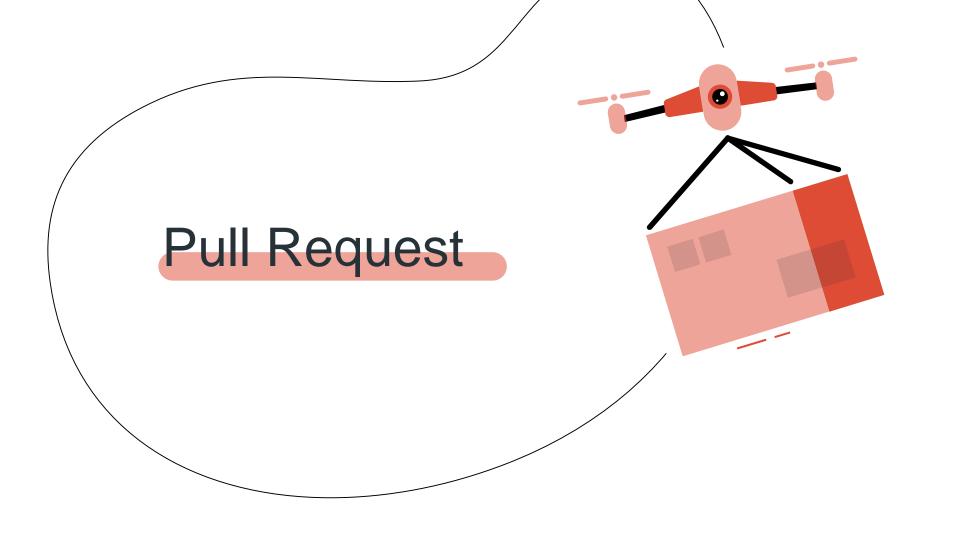
After finishing your work on the branch, you've to **merge** it with the Master branch.

 First, go to the Master branch git checkout master

 Then, merge the two branches with each other git merge branch_name

Git Rebase



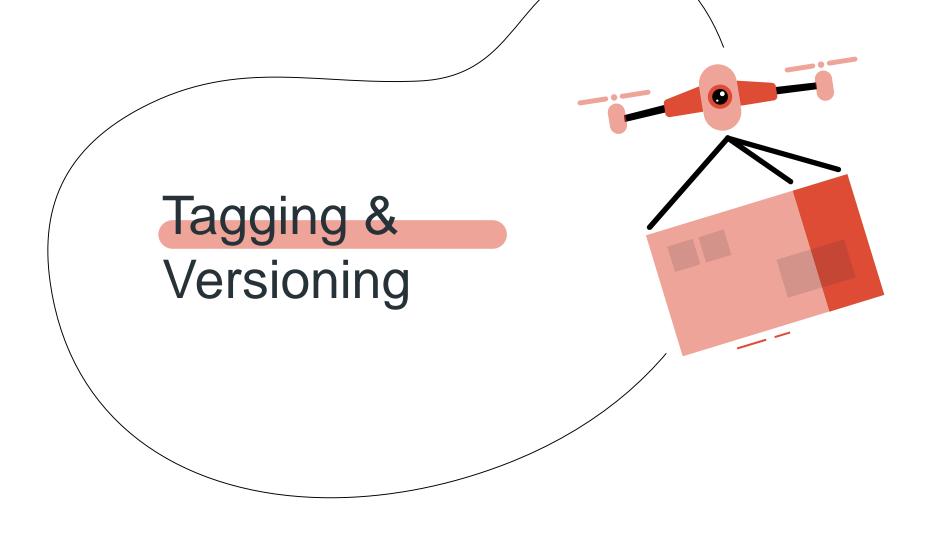


Pull Request

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.





Tagging

A tag is a reference to a commit - used mostly in release versioning.

Git supports two types of tags:

- Lightweight
- Annotated.

Tags Types

 To create a lightweight tag git tag v1.0

To create an annotated tag
git tag -a v2.0 -m "version 2.0"

Push Tags

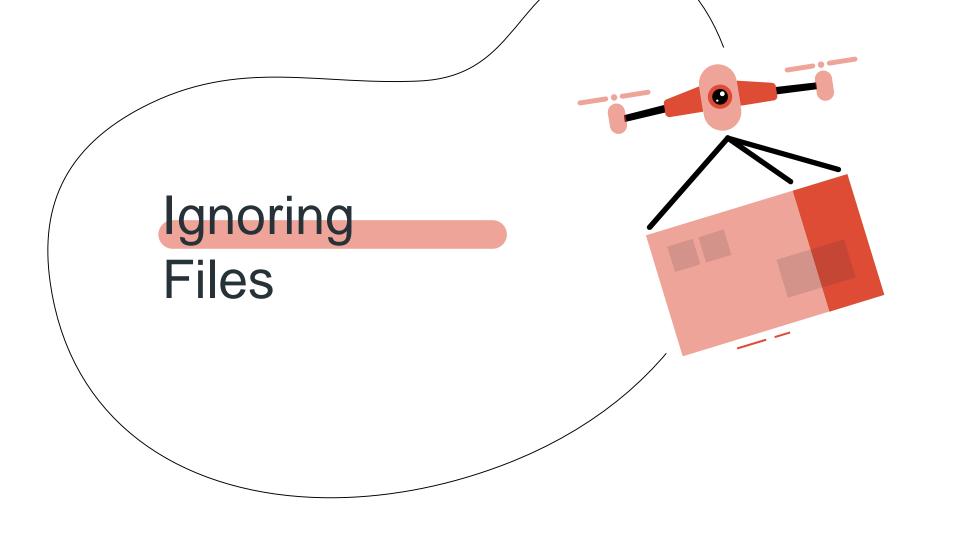
To list all tags git tag

To push tagsgit push origin <tag_name>git push --tags

Delete Tags

To delete remote tag
git push origin --delete v1.0

To delete local tagsgit tag -d v1.0



Ignoring Files

- Often, you will have a class of files that you don't want git to automatically add or even show to you as being untracked.
- In such cases you can create a file called .gitignore to contains all the unwanted files or directories.

- → cache/
- → logs/*.log

Lab 2



- Create a new project on your local machine, then push it your remote repo.
- Create two branches (dev & test) then create one file on each branch, and push this changes to the remote repo.
- Merge this changes on Master branch and then push it to your remote master branch.
- Tell me how to remove dev branch locally and remotely.
- Send an invitation to me (ahmedibrahem22322@gmail.com).

Lab 2



- Create an annotated tag with tagname (v1.7) .
- Push it to the remote repository.
- Tell me how to list tags.
- Tell me how to delete tag locally and remotely.
- Add an image in the README.md file.