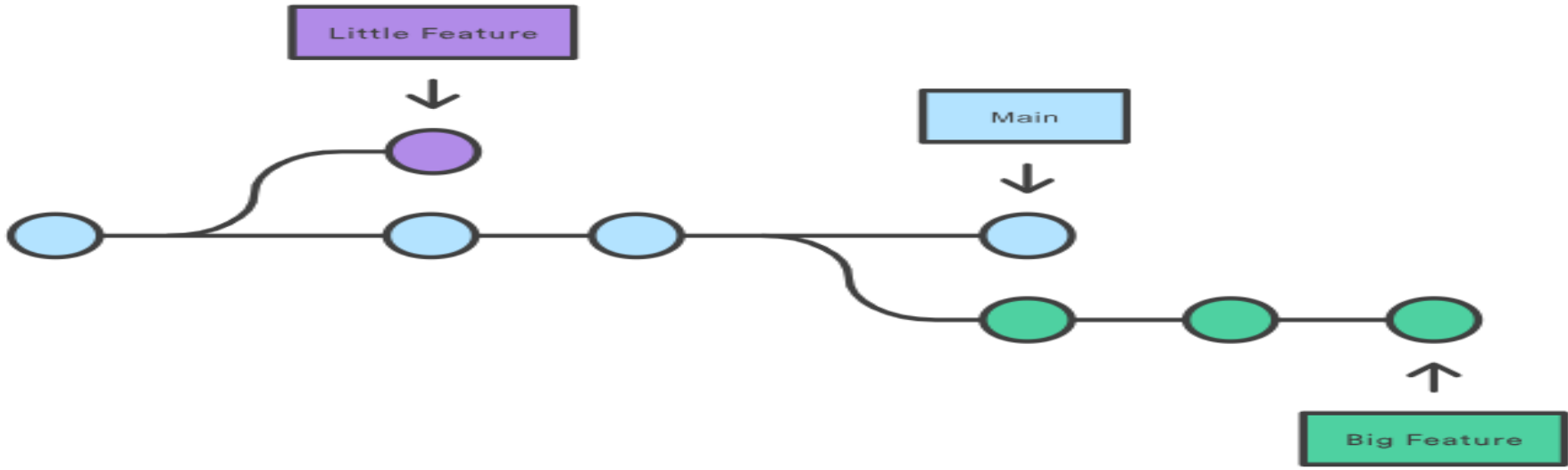# Git Branch

Ow

Mail: info@openwriteup.com

What is git branch

- Git branch is a pointer to snapshot of your changes. When you want to add a new feature or fix - spawn a new branch to encapsulate your changes.

- It provides an option before we merge the code to the main branch, In-case we directly merge the code to the main branch become harder to troubleshoot and make the full code unstable

flow

Explanation

- In the diagram, we see two dev branches
  - Little feature
  - Big feature
- Provide option to work parallelly
- Main branch code has not been touched.
- Both the branches are fully isolated.
- Git branches are lightweight, instead of copying the code, git stores the branch as reference to commit

How it works?

- A branch represents an independent line of development
- Branch is a way to request to new working directory, staging area and history
- New history would be recorded in the history for the current branch.
- git branch command
  - Create
  - List
  - Delete
  - Git checkout
  - Git merge

..

- List all of the branches in your repository. This is synonymous with git branch --list.
  - git branch <branch>

- Create a new branch called ＜branch＞. This does not check out the new branch.
  - git branch -d <branch>
- Delete the specified branch. This is a "safe" operation in that Git prevents you from deleting the branch if it has unmerged changes.
  - git branch -D <branch>

..master branch(main)

master ▾ | ⑂ 2 Branches ⬡ 0 Tags | 🔍 Go to file t | + | ‹› Code ▾

amitopenwriteup Added Jenkinsfile   bce1960 · 3 days ago 🕐 39 Commits

📄 Jenkinsfile	Added Jenkinsfile	3 days ago
📄 a	A	2 months ago
📄 c	c	2 months ago
📄 d	D	2 months ago
📄 date.sh	test	10 months ago
📄 dockerfile	adding	10 months ago
📄 jenkinsfile	add	2 months ago
📄 requirements.txt	tryone	6 months ago

Mycode file in test branch

This branch is 1 commit ahead of `master`.

⮌ Contribute ▾

👁 1 wa

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🔴 **root** adding to test branch		6cc38dc · 1 minute ago	🕐 **40 Commits**

Release

No release
Create a n

📄 Jenkinsfile	Added Jenkinsfile	3 days ago
📄 a	A	2 months ago
📄 c	c	2 months ago
📄 d	D	2 months ago
📄 date.sh	test	10 months ago
📄 dockerfile	adding	10 months ago
📄 jenkinsfile	add	2 months ago
📄 mycode	adding to test branch	1 minute ago
📄 requirements.txt	tryone	6 months ago

Packag

No packa
Publish yo

Contrib

🔵 ar

🟣 w

Merge on main and delete test branch

lab

git branch test

git branch

git checkout test

git branch

touch mycode

git add mycode

ls

git commit -m "adding to test branch"

git push origin test

git checkout master

git merge test

git branch -d test

git push origin --delete test