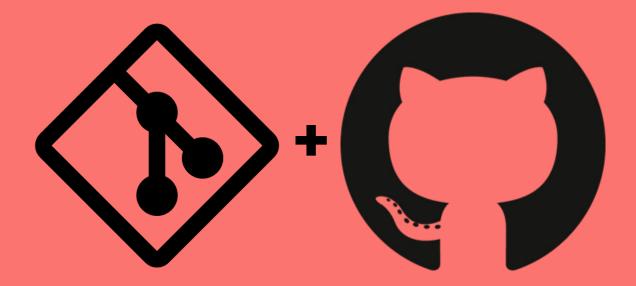
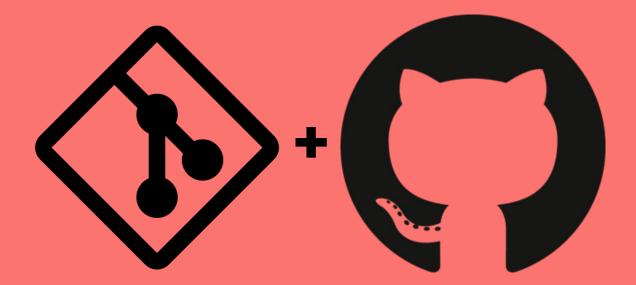
Git

In Practice



Git

In Practice

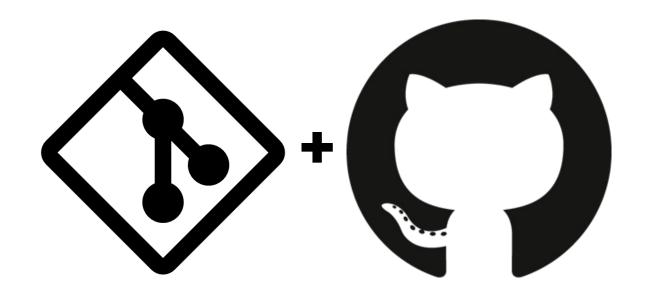


Branching Strategies

2 OTHERS

Branching Strategies

2 OTHERS



Branching Strategies

- 1. Integrating changes and structuring releases
 - 1. Mainline development always integrate
 - 2. State, release and feature branches
- 2. Mainline development
 - 1. Few branches
 - 2. Relatively small commits
 - 3. High-quality testing and QA standards
- 3. State, release and feature branches
 - 1. Here, Branches enhances structure and workflows
 - 1. Different types of branches
 - 2. Fulfill different types of jobs

Branching Strategies

- 1. Branching conventions in a team depends on its size, the type of project and how releases are handled by your team / organization
- 2. git is very good when creating branches but it doesn't tell how to use them
- 3. So, it is better to think about how work should be structured in your team

Branching Types

- 1. Long running
- 2. Short-lived
- 3. Remote Branches?

Long Running Branches

Every repository has at least one long running branch

1. They exist through the life-time of the project – main / master

Integration branches are often long running and they are designed to mirror the "stages" in a development life cycle – develop / test / staging / production / hotfix

- A common convention of an integration branch is
 - 1. Typically, commits are not added directly to these branches
 - 2. Commits to these branches only happen through merge or rebase

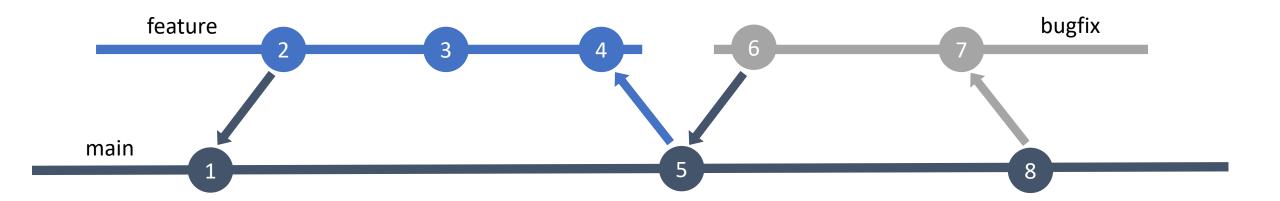
Short-Lived Branches

- 1. These branches are created for new features, bug fixes, experiments etc
- 2. Usually, short-lived branches are based on a long running branch
- 3. Generally, these branches are deleted after an integration (merge / rebase)

Popular Branching Strategies

GitHub Flow

 Very lean and simple: only one long running branch (main/master) and feature branches

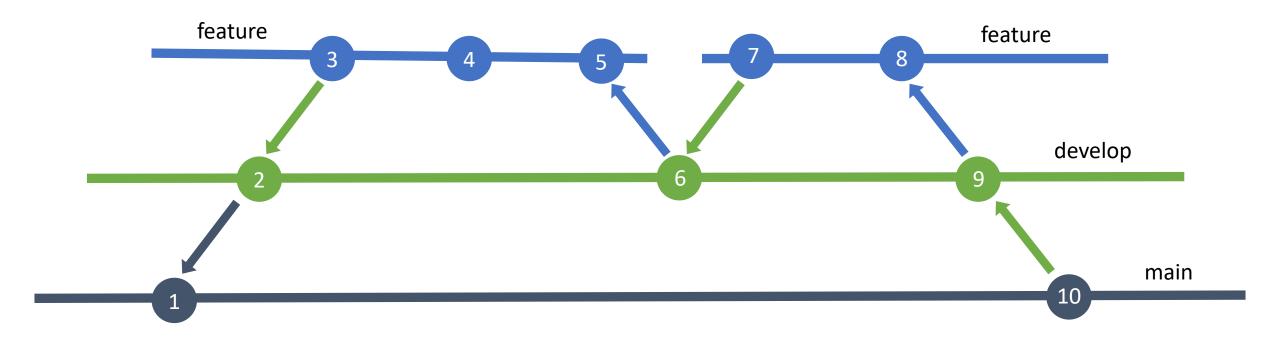


Popular Branching Strategies – GitFlow

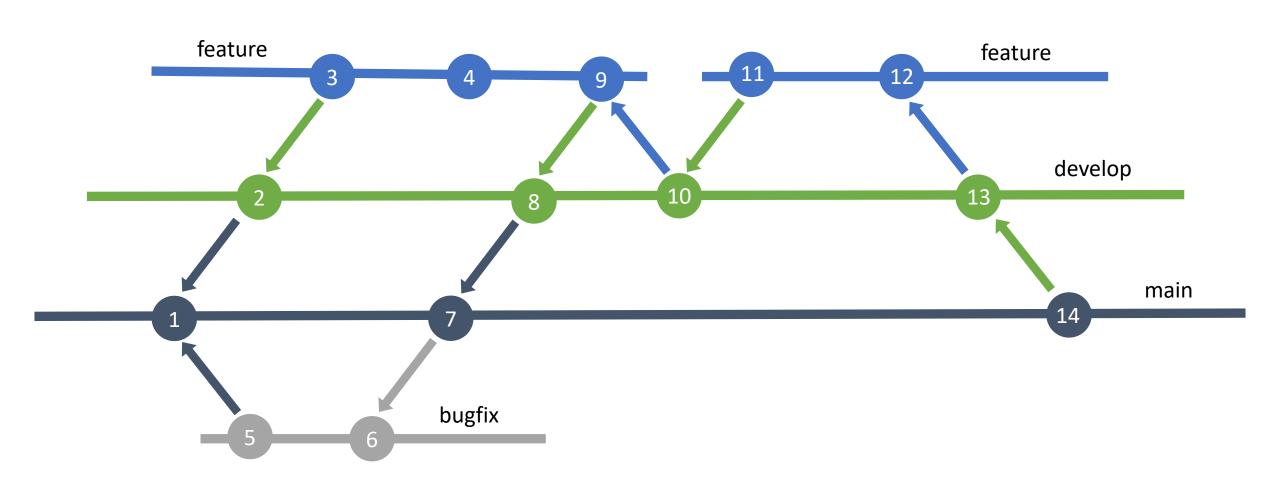
GitFlow

- 1. Main reflection of current state of production
- 2. Feature branches are created from develop and feature branches merge back into develop
- 3. Develop is also the starting point of any new releases
- 4. Open a release branch, commit any bug fixes. Once confidence merge it back to main. Add tags to release commit on main and close the release branch

Popular Branching Strategies – GitFlow



Popular Branching Strategies – GitFlow

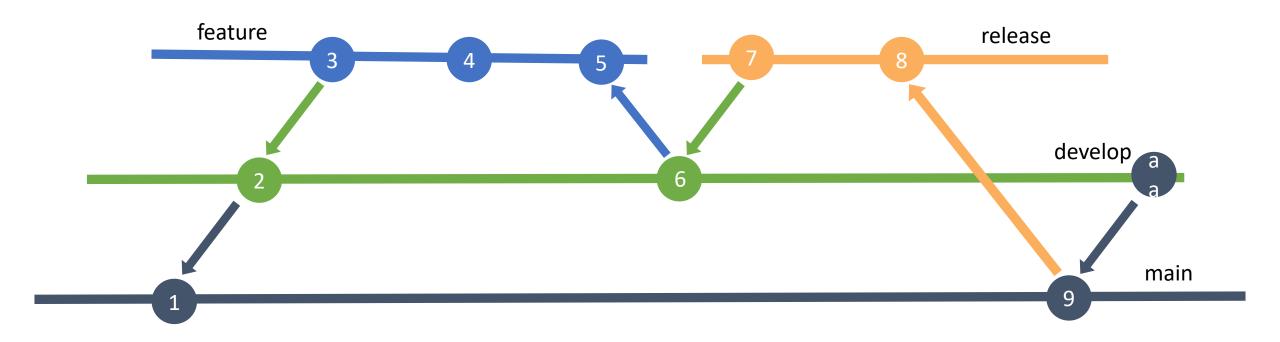


Popular Branching Strategies

1. GitFlow

- 1. More structure and rules
- 2. Long-running: main and develop branches
- 3. Short-Lived: features, releases, hotfixes
- 4. GitFlow introduces a number of steps and tasks in the process

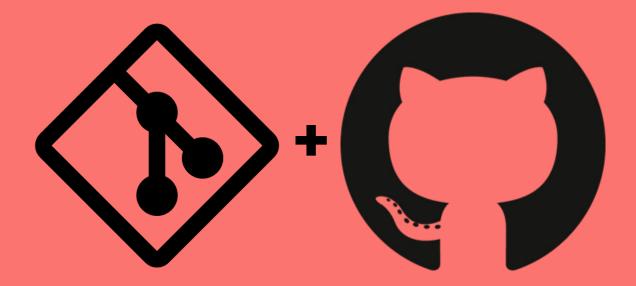
Popular Branching Strategies – GitFlow Release



Let us practice

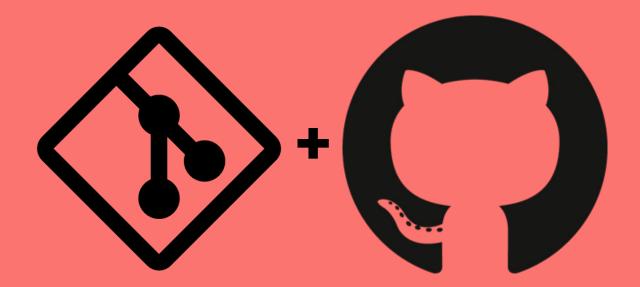
Git

In Practice





In Practice



Git Branches

2 Branching Strategies