

Merge

Presented By : Neha Kumari

Agenda



Introduction



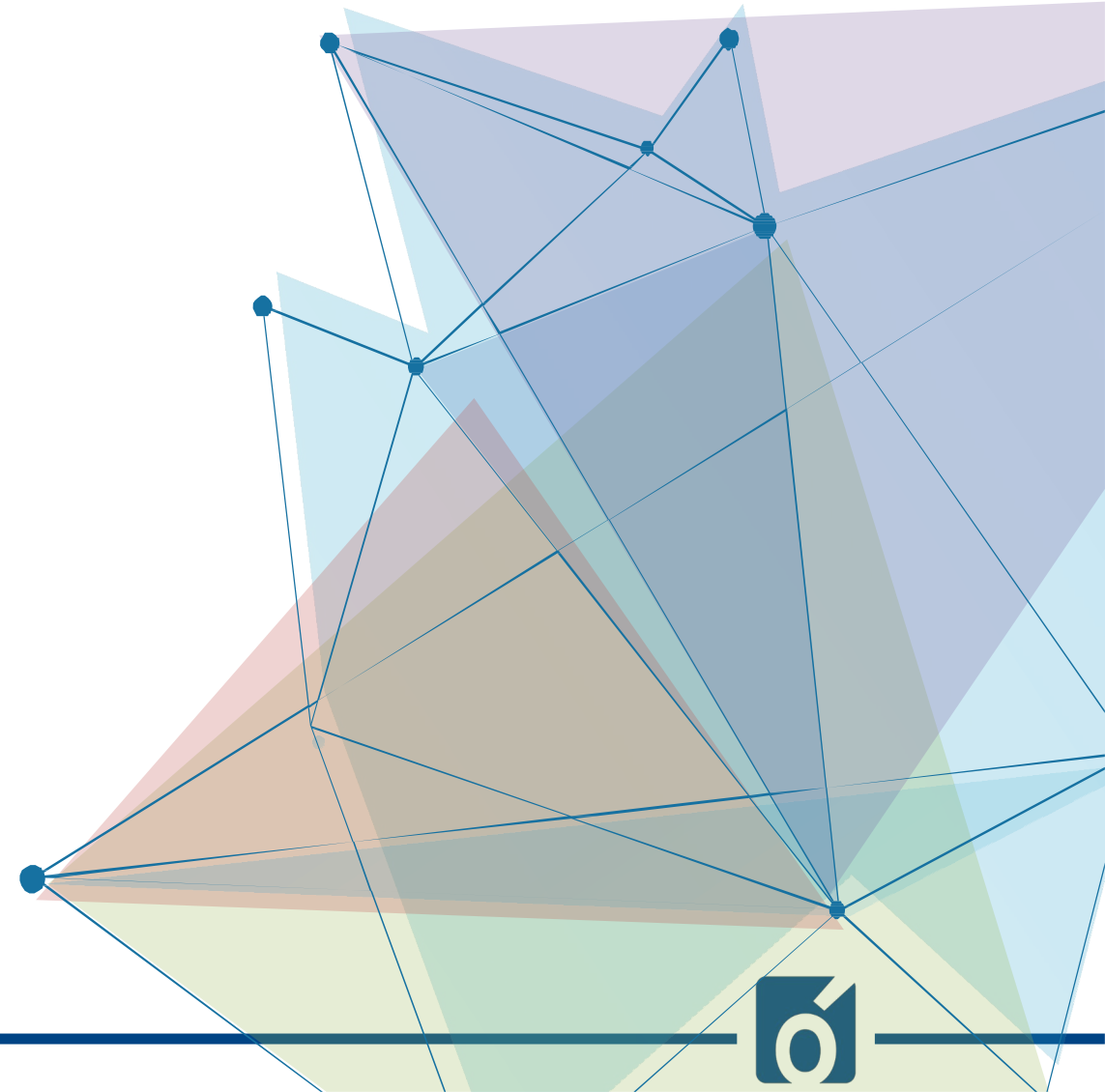
What is Git merge
command



Some basic
commands



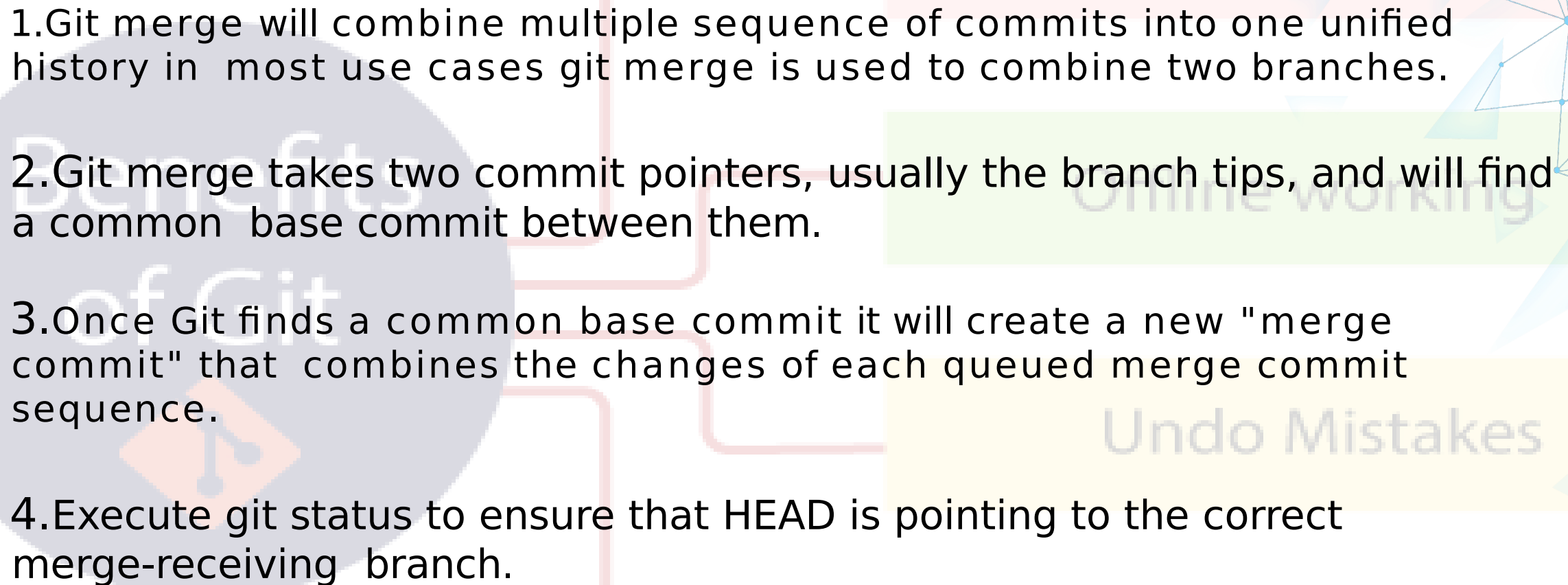
How it Works



Introduction

- Merging is the way to putting a forked history back together again.
- Git merge command lets you take the independent line of dev.
- Git merge is often use in conjunction with git checkout.
- Git merge helps to integrate the branches into a single branch.
- Git merge <options>

How Git Merge command Works.

- 
- The diagram illustrates the workflow of the Git merge command. A central vertical list of four steps is connected by red lines to four colored rectangular boxes on the right, each representing a benefit. The steps are: 1. Combining commit sequences into a unified history. 2. Finding a common base commit. 3. Creating a new merge commit. 4. Executing git status to verify the HEAD. The benefits are: Save Time (pink box), Online working (green box), Undo Mistakes (yellow box), and Track Changes (blue box). A large grey circle on the left contains the text 'Benefits of Git' and a small Git logo.
1. Git merge will combine multiple sequence of commits into one unified history in most use cases git merge is used to combine two branches.
 2. Git merge takes two commit pointers, usually the branch tips, and will find a common base commit between them.
 3. Once Git finds a common base commit it will create a new "merge commit" that combines the changes of each queued merge commit sequence.
 4. Execute git status to ensure that HEAD is pointing to the correct merge-receiving branch.

Basic Commands

git checkout -b new-feature main

git add <file>

git commit -m "Start a feature"

git add <file>

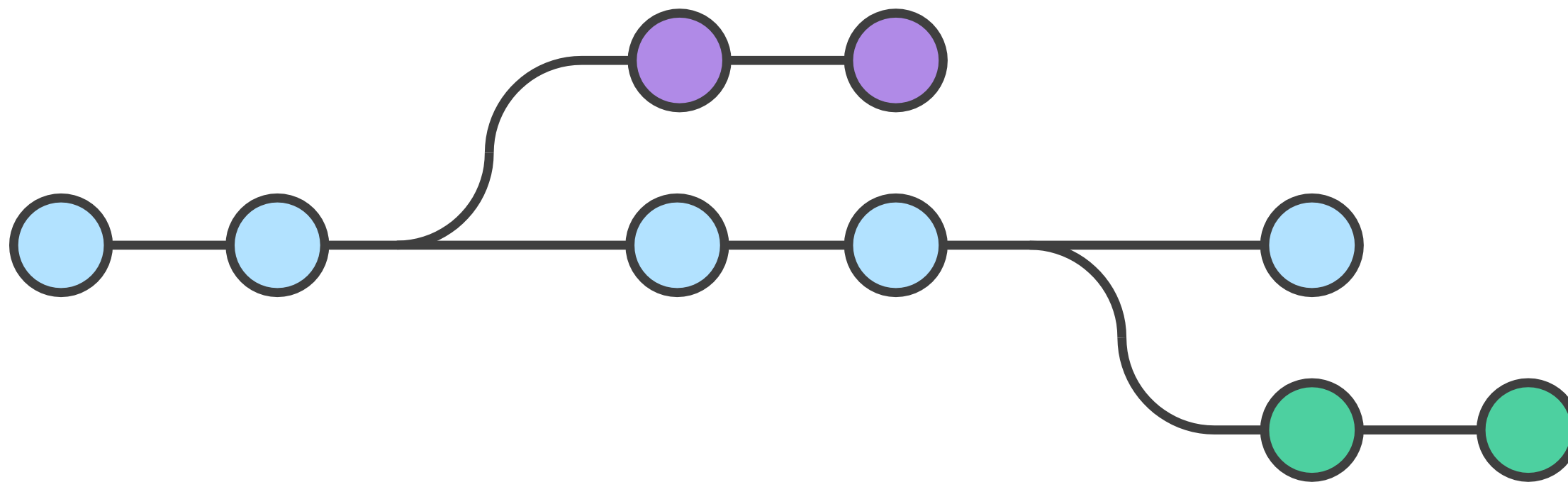
git commit -m "Finish a feature"

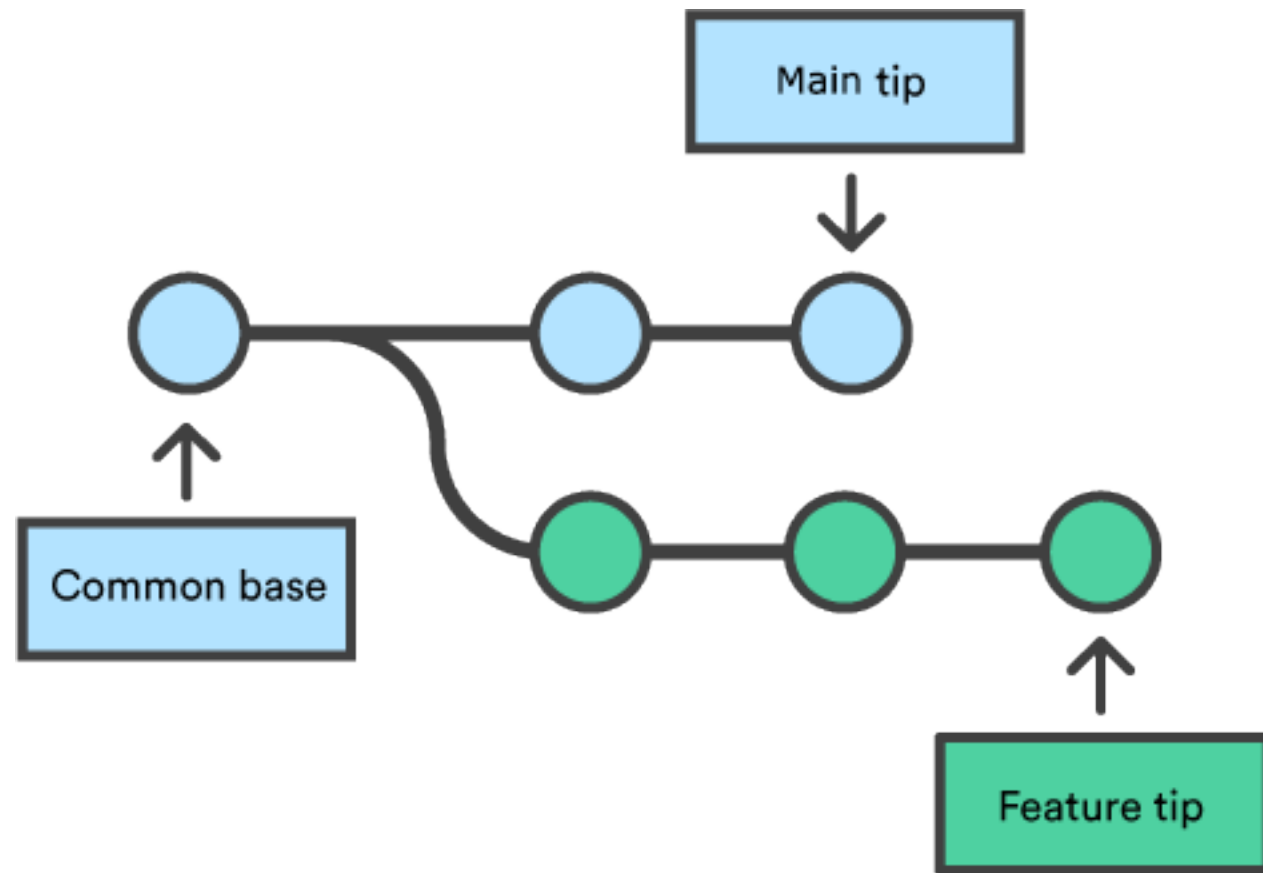
git checkout main

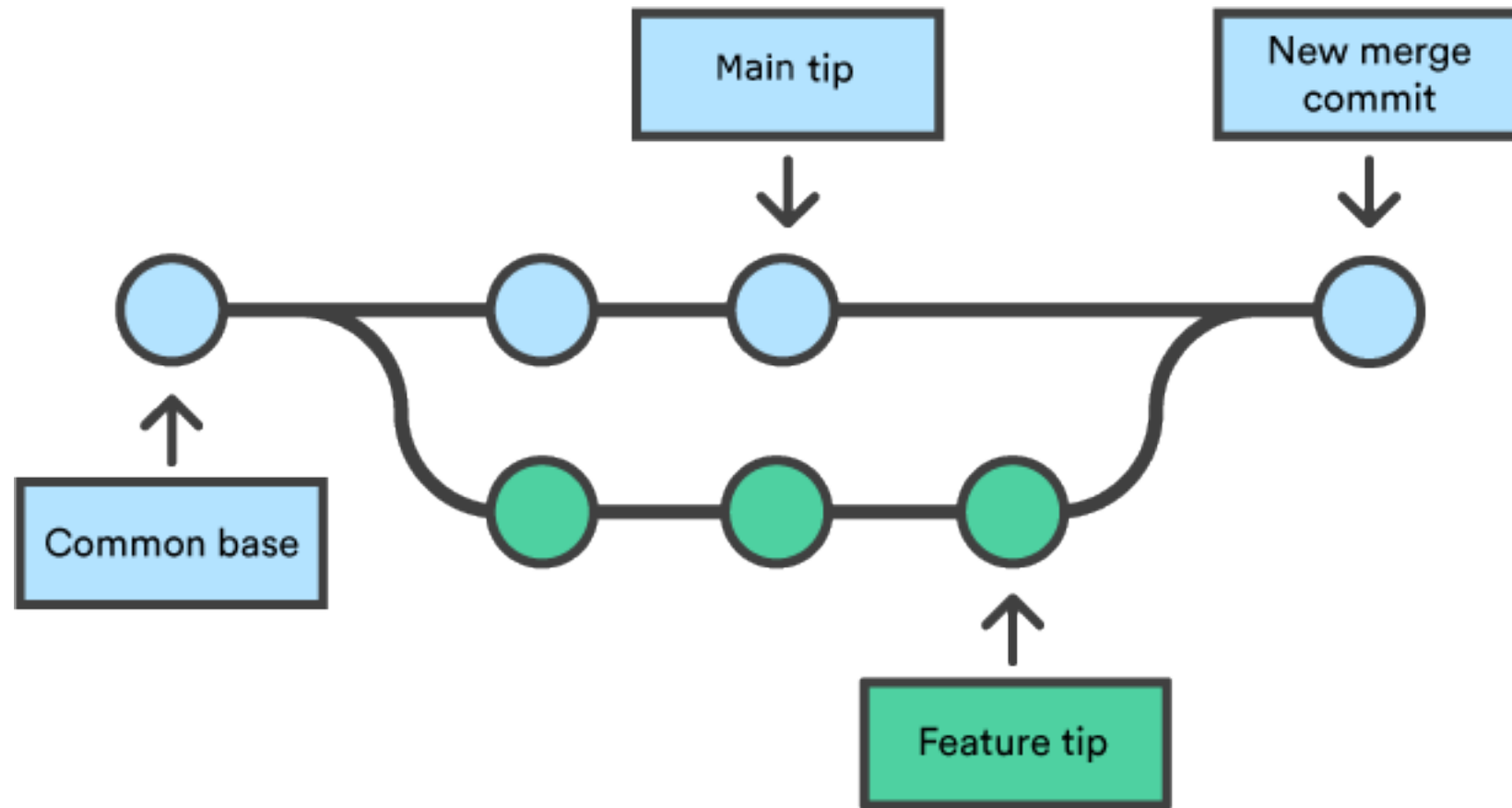
git merge new-feature

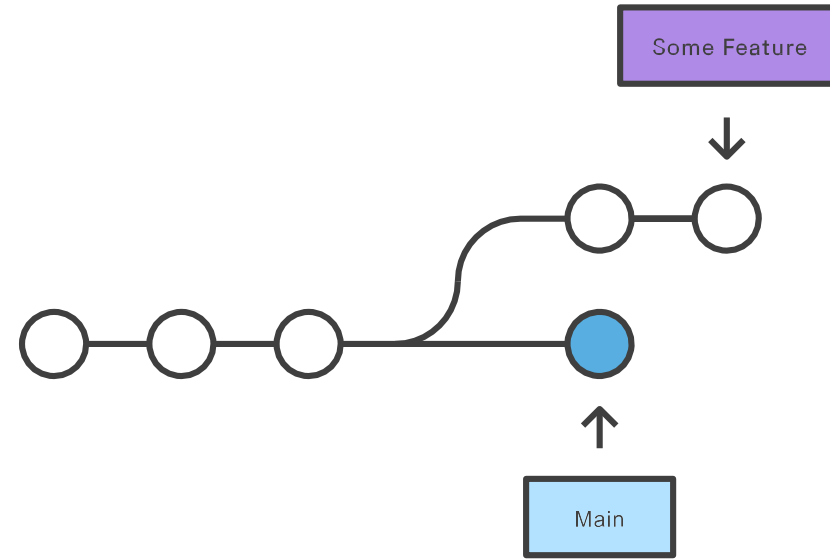
git branch -d new-feature



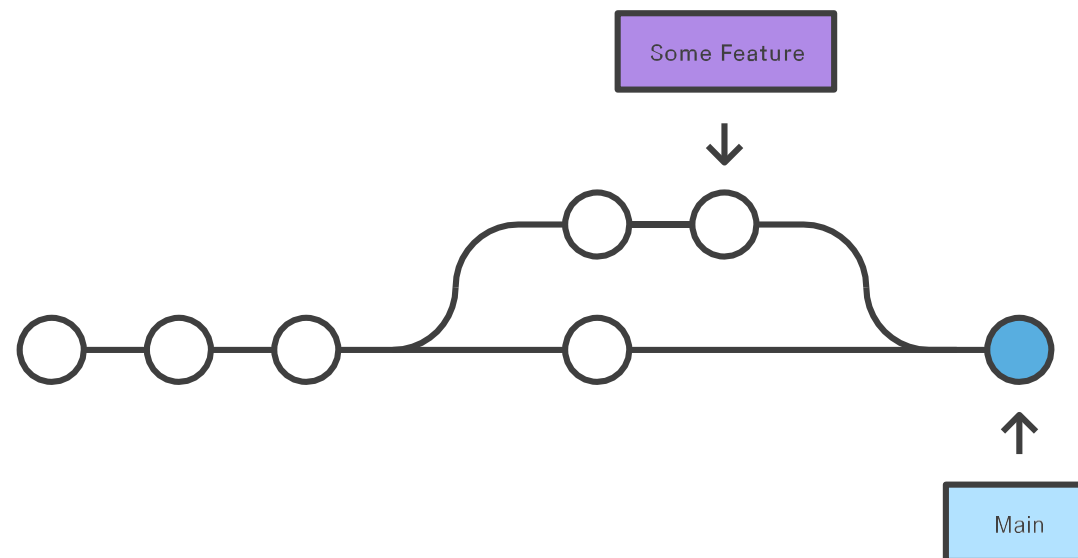








After a 3-way Merge



The background is a solid dark blue. It is decorated with abstract white geometric patterns. In the corners, there are network-like structures consisting of small white dots connected by thin white lines. Additionally, there are several overlapping, semi-transparent white triangles of various sizes scattered across the background.

Thank You!