

# Merge

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# Agenda



Introduction



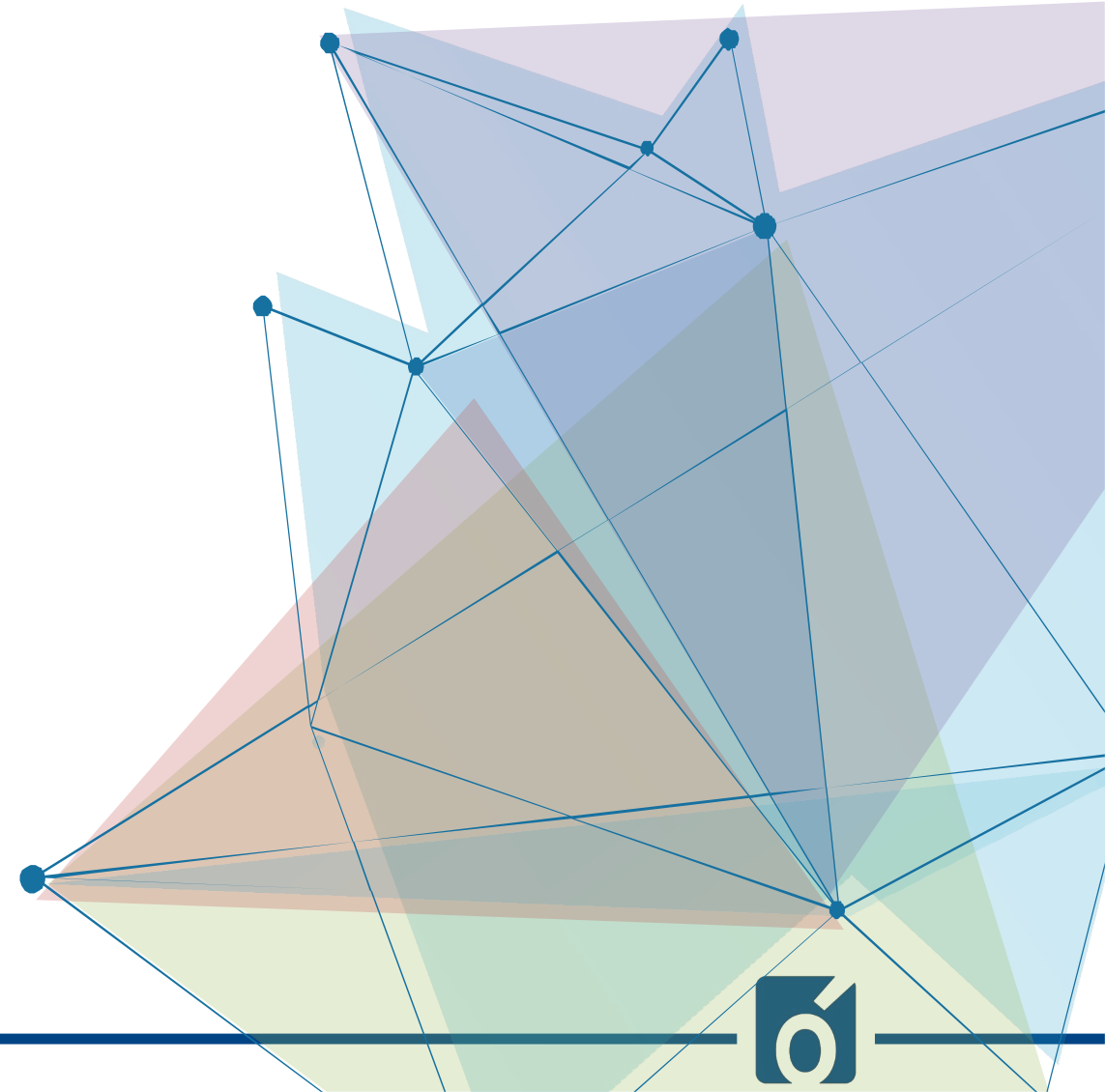
What is Git merge  
command



Some basic  
commands



How it  
Works



# Introduction

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- 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.

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

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**git checkout -b new-feature main**

**git add <file>**

**git commit -m "Start a feature"**

**git add <file>**

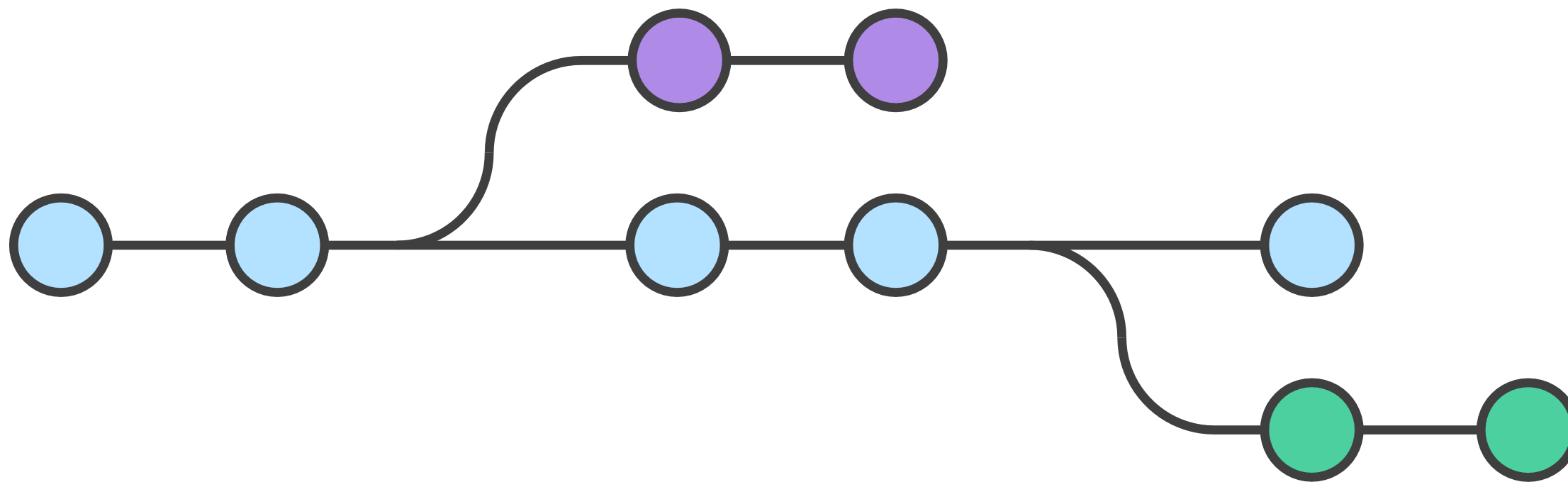
**git commit -m "Finish a feature"**

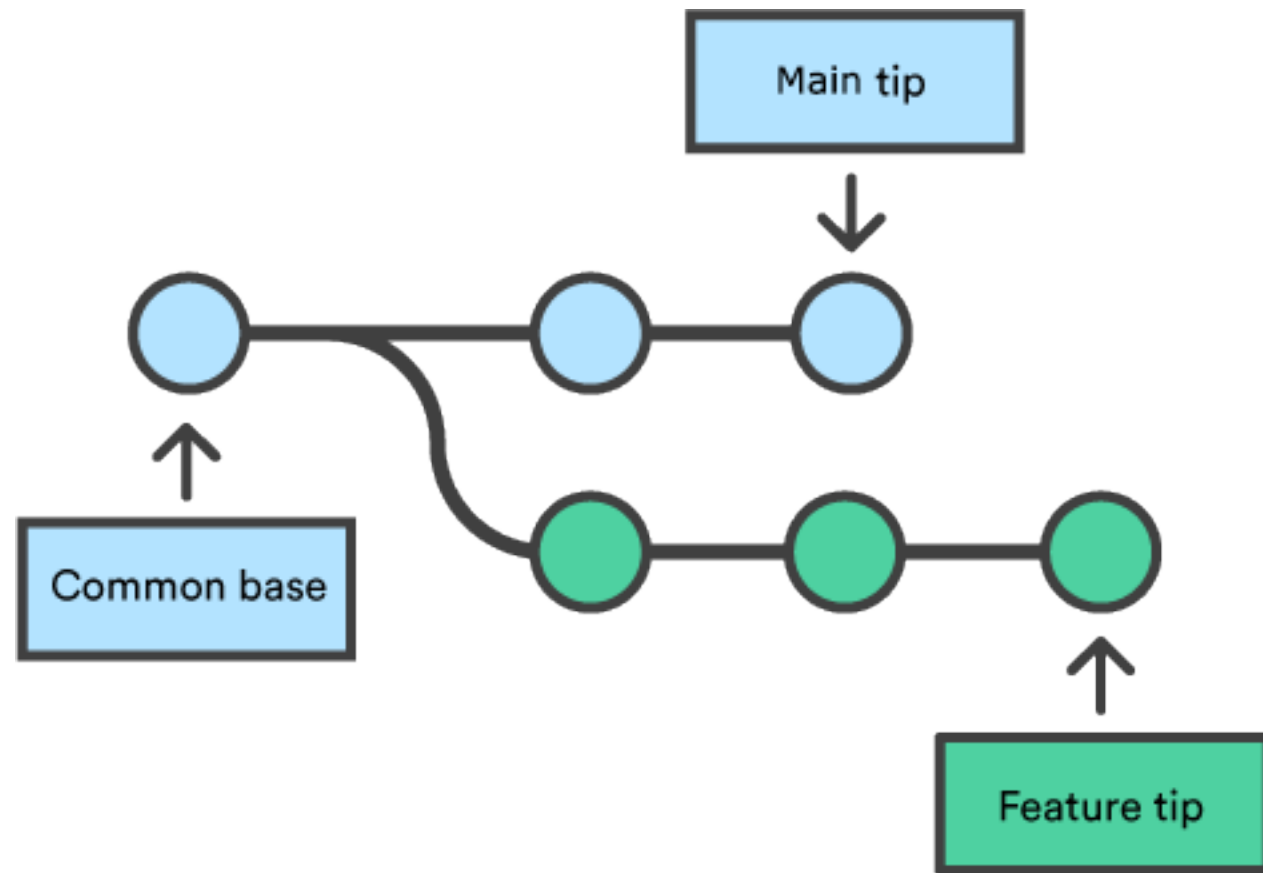
**git checkout main**

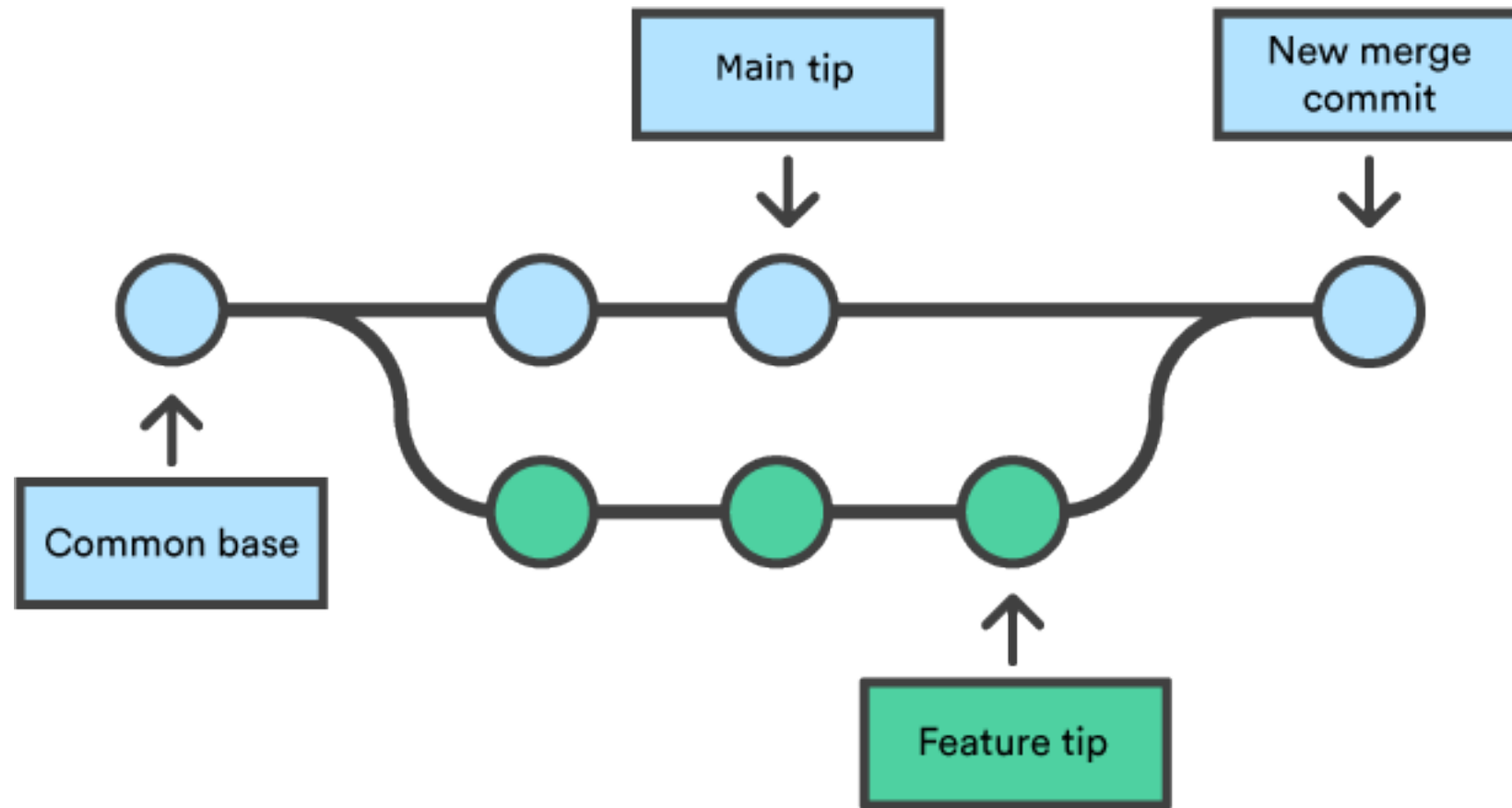
**git merge new-feature**

**git branch -d new-feature**

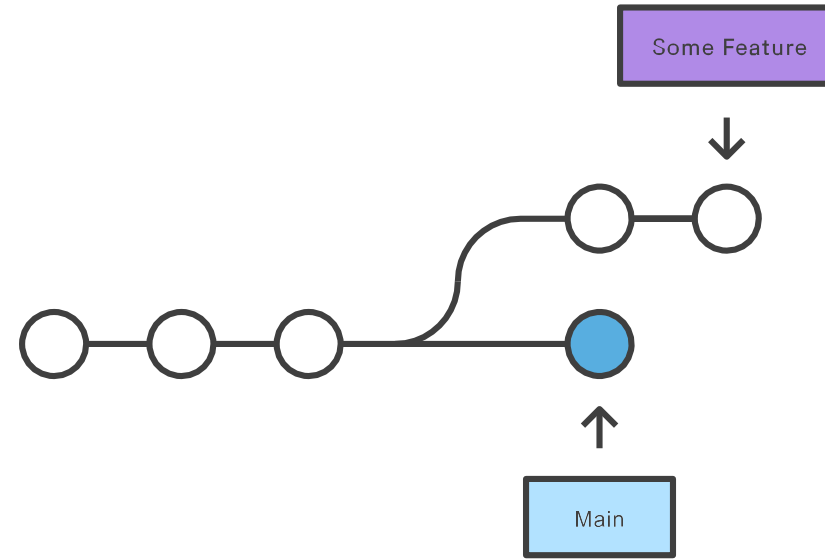




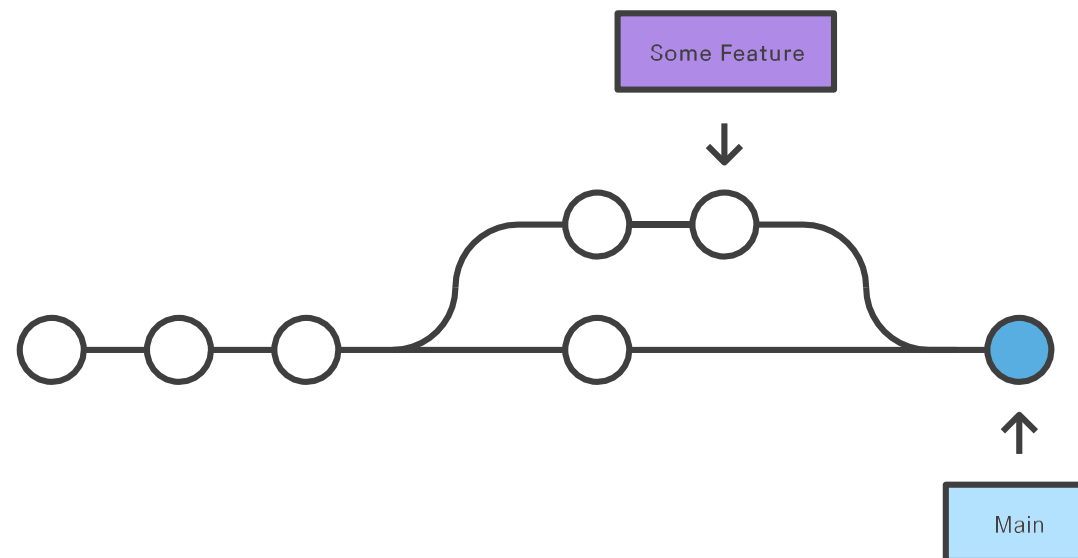








After a 3-way Merge



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!