

SESSION 3

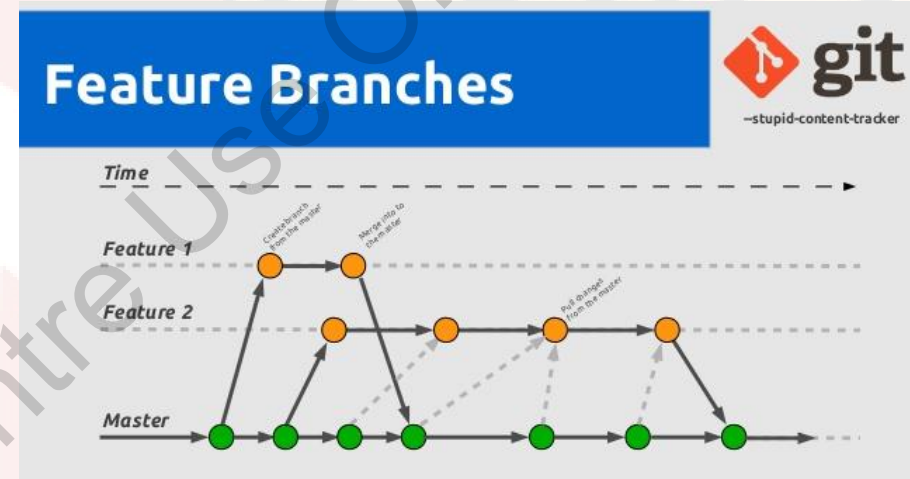
# GIT BRANCHING

# OBJECTIVES

- Identify how to create a new branch
- Outline steps to develop code on multiple branches
- Outline steps to modify a branch
- Identify how to merge and delete branches

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# BASIC BRANCHING AND MERGING



# CREATING A NEW BRANCH

To create your new branch, you can use the following commands:

```
git checkout -b newbranchname
```

```
git checkout master
```

```
git merge newbranchname
```

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# DELETE, RENAME, AND MERGE BRANCHES 1-3

## Deleting a branch

Renaming a Branch

Merging a Branch

To delete a local branch

```
git branch -d the_local_branch
```

To remove a remote branch (if you know what you are doing!)

```
git push origin :the_remote_branch
```

or simply use the new syntax (v1.7.0)

```
git push origin --delete the_remote_branch
```

# DELETE, RENAME, AND MERGE BRANCHES 2-3

Deleting a branch

**Renaming a Branch**

Merging a Branch

## Rename a Local Git Branch

```
1 $ git branch
2 * feature1
3 master
4
5 $ git branch -m feature1 feature2
6
7 $ git branch
8 * feature2
9 master
```

## Rename a Remote Git Branch

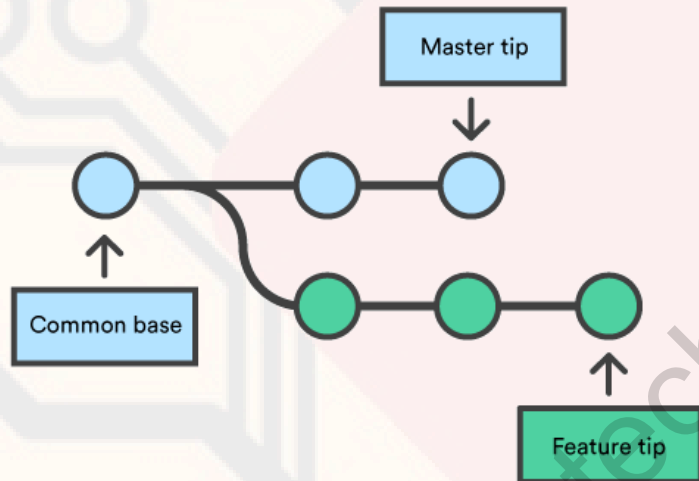
```
1 git push -u origin feature2:feature3
```

# DELETE, RENAME, AND MERGE BRANCHES 3-3

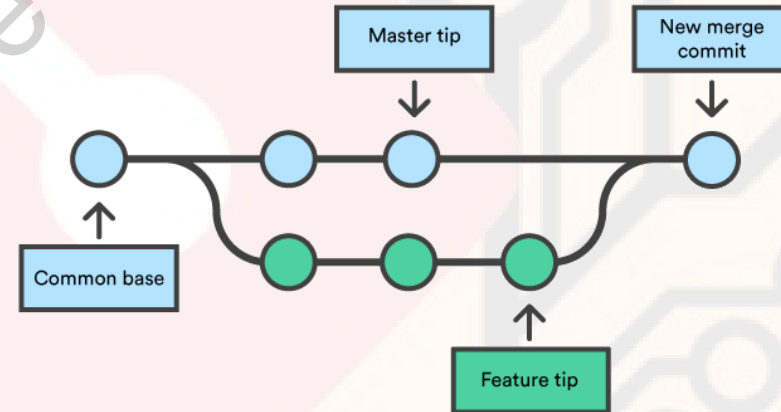
Deleting a branch

Renaming a Branch

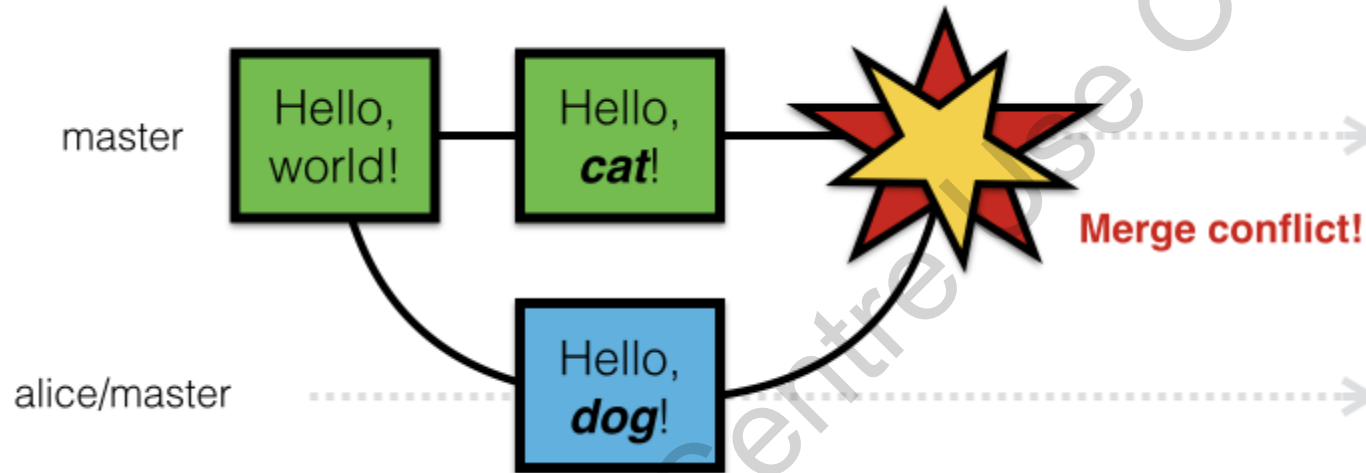
Merging a Branch



Invoke  
Git merge



# MERGE CONFLICTS





# SUMMARY

- Git enables you to create branches easily in GIT
- You can delete, modify, and rename branches
  - Commands
  - Concepts
- Merging branches is easier in GIT
- Merge conflicts can be avoided