

What are we going to see in this session?

- Merge
- Merge branches
 - Merge conflicts
- Git rebase
- Merging on GitHub



Merge

- In the real world, though you are working in different branches you may need to combine it with "Master" branch at one point in time.
- This process is called "Merging Branches"



Merge Branches

- Step 1 : Create code with some features into it
- Step 2 : Commit the code to Master branch as "Version 0"
 - git add
 - git commit -m "Version 0"
- Step 3 : Create new branch and checkout to that branch
 - git branch dev
 - git checkout dev
- Step 4 : Add some additional feature to your code and make commit
 - git add
 - git commit -m "Version 1"
- ✓ Step 5 : Merge your Master branch with dev
 - git checkout <branch-name>
 - git merge dev

Now both branches have same contents.

Version 0	Version 1
#!/bin/bash # Main code a=100; echo "value =" \$a	#!/bin/bash # Main code a=100; echo "value =" \$a # Added feature b=250; echo "value =" `expr \$a + \$b`



Merge Conflicts

Solving conflicts are more like, when two persons modified the same line in an file.

- Step 1: Modify some line in code at Master branch
- ✓ Step 2 : Checkout to dev branch and Modify the same line
- Step 3 : Try merging both branched now
 - git checkout <branch-name>
 - git merge dev
- Step 4 : Solve the conflicts before proceeding.
- ✓ Step 5 : While solving the conflicts you can compare the conflicts and either accept any one of the change.
- ✓ Step 6 : Once conflict is solved, go-ahead and add and commit the files again and then do merge.
 - git add.
 - git commit
- ✓ Command to abort merge if incase required "git merge –abort"



Git Rebase

Git Rebase is going to help us to copy the new changes from one branch to other.

- Step 1: Add some additional feature to your Master branch code.
- Step 2 : Commit the changes
- Step 3 : Checkout to dev branch
- ✓ Step 4 : You might not find the changes which are recently made in Master.
- ✓ Step 5 : To update all changes & updated code use rebase command as below
 - git rebase <branch from where the update code should be copied>



Merging on GitHub

Merging part can be carried out from GUI also in GitHub.



End of this topic!

Any questions?

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