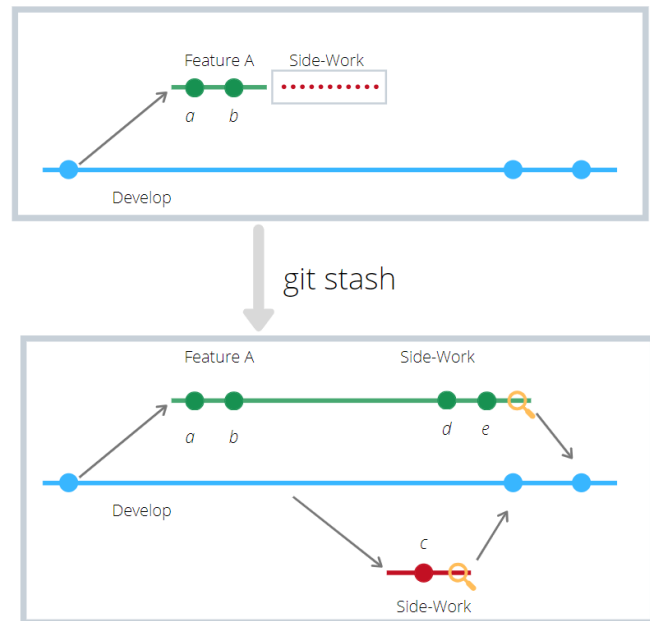




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Technique 1: Stash



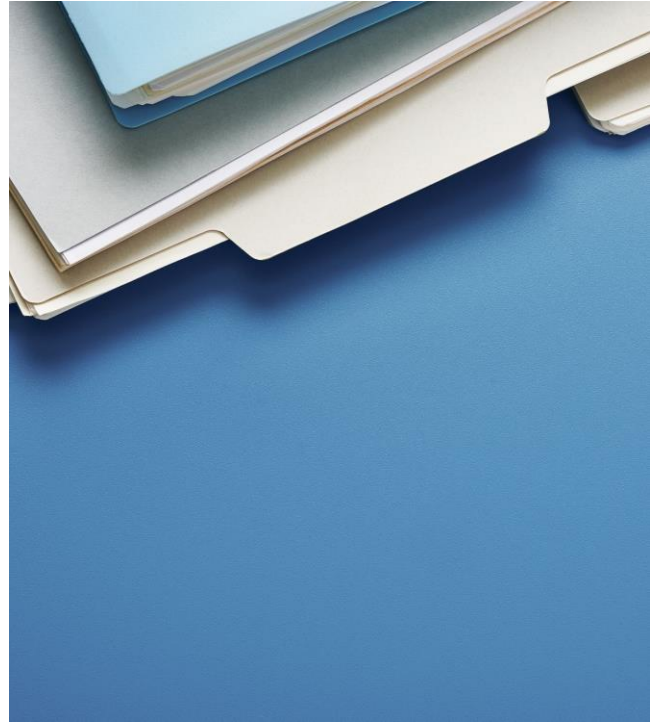
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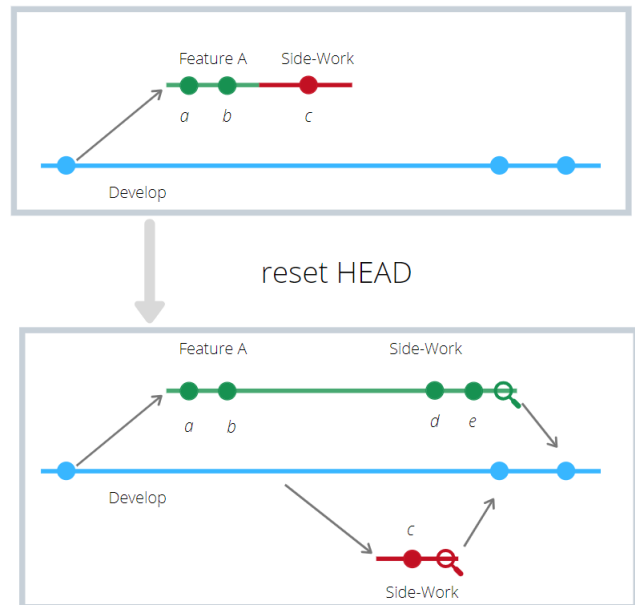
Use git stash

- Git stash allows you to temporary save your current uncommitted changes
- This is handy if you realized you started working on some unrelated part. Then, you can stash your changes, switch to a new branch and commit the changes there – instead, intermingled with your current work.
- Use git stash pop to get the changes back.
- Use stash show to get a list of the files in your stash.



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Technique 2: reset HEAD



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Removing last commit from your large PR

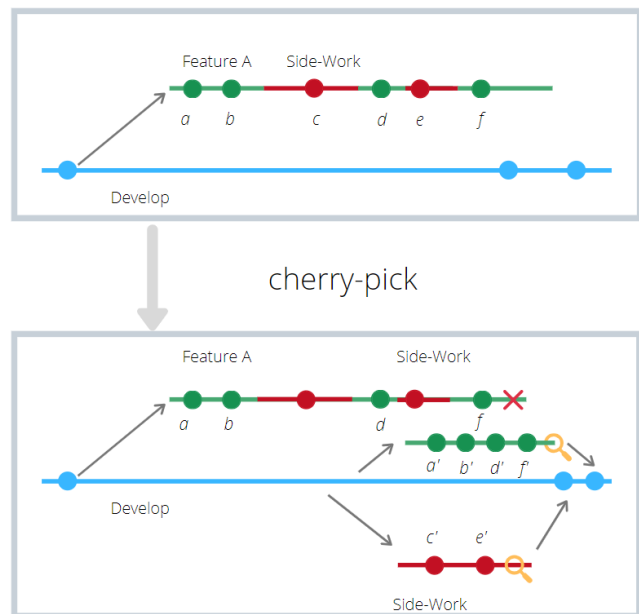
1. If you have already committed your unrelated work, you can checkout a new branch, and reset the HEAD by following these steps:
2. Being on the feature_branch, create the new branch side_work (but not checking it out)
3. Set the HEAD of branch feature_branch back by one commit (to b):
4. `git reset --hard HEAD~1`
5. Rebase all commits that happened between branch feature_branch and branch side_work (which is only commit c) onto develop.
6. `git rebase --onto develop feature_branch side_work`
7. This results in two branches that each contain only related changes.

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Technique 3: cherry-pick



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Cherry-Pick

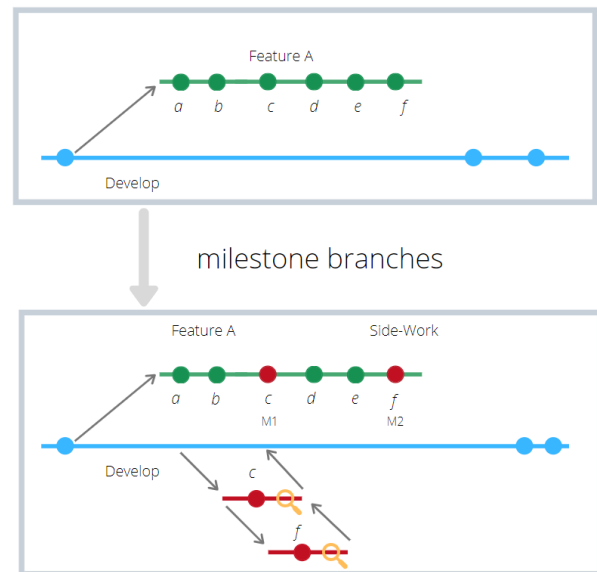
1. Checkout source branch:
`git checkout develop`
2. Create a new branch:
`git checkout -b new_branch`
3. Cherry-pick a subset of commits (eg. regarding some refactoring):
`git cherry-pick [commit_id_1] [commit_id_2]`
4. Create a Merge/Pull Request
5. After this gets accepted, you must update your feature branch (merge master)
6. There's less code to check now
7. Repeat 2-5 until there's little enough code on base Pull Request (or no code at all)

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Technique 4: Milestone Branches



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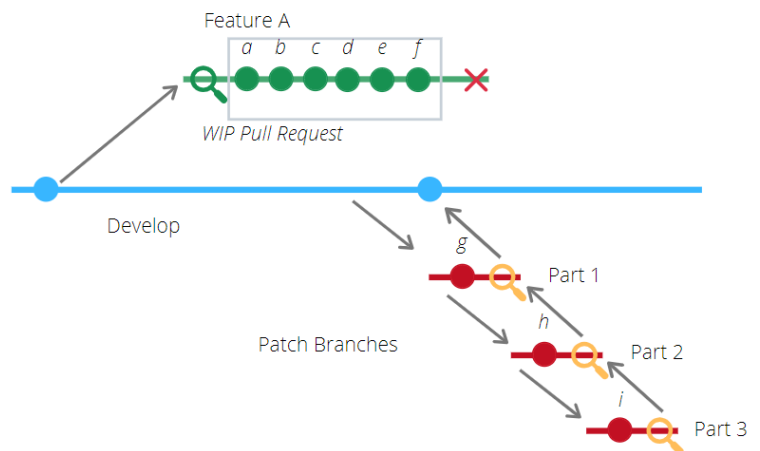
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Milestone Branches

1. Checkout source branch
`git checkout feature_branch`
2. Find milestone commits
3. Check out next earliest milestone commit
`git checkout <commit_id>`
4. Create a new branch
`git checkout -b milestone_branch`
5. Create a WIP-Merge Request
6. Repeat 3-6 until there are no more milestone commits

Technique 5: Patch Branches



Patch Branches

1. Create new feature branch
`git checkout -b somefeature1 manyfeatures`
2. Create unstaged changes
`git reset master`
3. Decide what should go in new commit
`git add --patch`
`git stash --include-untracked --keep-index`
`git commit -m "[somefeature1 - PART1]"`
`git push origin somefeature1`
5. Create a WIP-Merge/Pull Request
6. Create new feature branch
`git checkout -b somefeature2`
`git stash pop`
7. Repeat 3-6 until there are no more changes

Git Patch Mode

Patch Mode

If you use git, you've used the command `git add`. But do you know about git add's "patch mode" using `git add -p` or `git add --patch`?

Patch mode allows you to stage *parts* of a changed file, instead of the entire file. This allows you to make concise, well-crafted commits that make for an easier to read history.

You can stage individual hunks of code changes within one file.

```
git add --patch
•y - Yes, add this hunk
•n - No, don't add this hunk
•d - No, don't add this hunk and all other remaining hunks.
•s - Split the hunk into smaller hunks.
•e - Manually edit the hunk.
```



Technique N: Combinations of Techniques

Stash – Cherry-picking – Milestone checkout – New composition

