

## Stash:--

Git stash is temporary storage area.

Often, when you've been working on part of your project, things are in a messy state and you want to switch branches for a bit to work on something else. The problem is, you don't want to do a commit of half-done work just so you can get back to this point later. The answer to this issue is the git stash command.

### Create some sample files

add those files from workspace to stagin/index area

check the `git status` command

### `git stash list`

List the stash entries that you currently have. Each stash entry is listed with its name (e.g. `stash@{0}` is the latest entry, `stash@{1}` is the one before, etc.), the name of the branch that was current when the entry was made, and a short description of the commit the entry was based on.

### `git stash save "stash-1"`

### `git stash list`

`git stash show -p stash@{0}` : To check the what and all files in stash memory.

Show the changes recorded in the stash entry as a diff between the stashed contents and the commit back when the stash entry was first created. When no `<stash>` is given, it shows the latest one. By default, the command shows the diffstat, but it will accept any format known to git diff (e.g., `git stash show -p stash@{1}` to view the second most recent entry in patch form). You can use `stash.showStat` and/or `stash.showPatch` config variables to change the default behavior.

### `git stash pop`

Remove a single stashed state from the stash list and apply it on top of the current working tree state.

### `git status`

### `git stash apply stash-name`

Like pop, but do not remove the state from the stash list.

### `git stash drop stash-name`

Remove a single stash entry from the list of stash entries.

## GIT MERGE / REBASE:

It's simple, with rebase you say to use another branch as the new **base** for your work. If you have for example a branch `master` and you create a branch to implement a new feature, say you name it `cool-feature`, of course the master branch is the base for your new feature.

Now at a certain point you want to add the new feature you implemented in the `master` branch. You could just switch to `master` and merge the `cool-feature` branch:

```
$git checkout master  
$git merge cool-feature
```

but this way a new dummy commit is added, if you want to avoid spaghetti-history you can **rebase**:

```
$git checkout cool-feature  
$git rebase master
```

and then merge it in `master`:

```
$git checkout master  
$git merge cool-feature
```

This time, since the topic branch has the same commits of `master` plus the commits with the new feature, the merge will be just a fast-forward.

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