

Git Commit

Since we have finished our work, we are ready move from `stage` to `commit` for our repo.

Adding commits keep track of our progress and changes as we work. Git considers each `commit` change point or "save point". It is a point in the project you can go back to if you find a bug, or want to make a change.

When we `commit`, we should always include a message.

By adding clear messages to each `commit`, it is easy for yourself (and others) to see what has changed and when.

```
git commit -m "Learning git from basics to advance"
```

```
[master (root-commit) 991b3cf] Learning git from basics to advance
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 git_tuto 2.pdf
create mode 100644 git_tuto 3.pdf
create mode 100644 git_tuto 4.pdf
```

The `commit` command performs a commit, and the `-m "message"` adds a message.

The Staging Environment has been committed to our repo, with the message:

```
"Learning git from basics to advance"
```

Git Commit without Stage

Sometimes, when you make small changes, using the staging environment seems like a waste of time. It is possible to commit changes directly, skipping the staging environment. The `-a` option will automatically stage every changed, already tracked file.

And check the status of our repository. But this time, we will use the `--short` option to see the changes in a more compact way:

```
git status --short
```

Note: Short status flags are:

- ?? - Untracked files
- A - Files added to stage
- M - Modified files
- D - Deleted files

We see the file we expected is modified. So let's commit it directly:

```
git commit -a -m "Updated index.html with a new line"
```

```
[master 09f4acd] Updated index.html with a new line
```

```
1 file changed, 1 insertion(+)
```

Warning: Skipping the Staging Environment is not generally recommended.

Skipping the stage step can sometimes make you include unwanted changes.

Git Commit Log

To view the history of commits for a repository, you can use the `log` command

```
git log
```

```
commit 991b3cf5bfda6d4291e9e3271be052ad98147d6c (HEAD -> master)
```

```
Author: naikrahul175 <naikrahul175@gmail.com>
```

```
Date: Tue Jun 21 12:39:18 2022 +0530
```

