

▼ \ No newline at end of file

is the warning of `diff` because `diff` is a **line-based** text processor.

- Without the last newline, whenever the next line is appended to this file, the last line must be edited by adding newline to it, which is an unintended edit. This **unintended change** of the last line leads to various problem.

▼ 1st, `diff` works with the whole line, hence, the last line will be marked as modified by the next commit.

- ▶ E.g. wrong lines in diffs between commits without the last newline:

▼ 2nd, the last line of the last commit may be [blamed](#) for the next commit, which is misleading.

- ▶ Some git implementations do this misleading blame: GitHub, GitLab, VS Code
- ▶ Some git implementations tweak themselves to avoid this misleading blame: Ubuntu's `git`, JetBrains IDEs

▼ 3rd, **unintended conflict**: Some text editors and IDEs automatically add the last newline to editing files, making unintended changes which will conflict with appendage to that file in other commits.

- ▼ The conflict will be shown (for resolution) in a very obscure way, due to the difficulty of showing the newline itself.

```
6: Last line without newline
<<<<<<< HEAD
7: Appended line by feature-testEOL-1
=====
>>>>>>> feature-testEOL-2
```

▼ There are two options to fix this issue:

- Force all IDEs to automatically add the last newline.
- ▼ Stop Linux editors, like `vim`, `nano`, from fixing files missing newline at the end of file.
 - This option should be chosen for a project with lots of legacy codes missing the last newline.

▶ [Commands to refactor codes](#)