Good commit messages

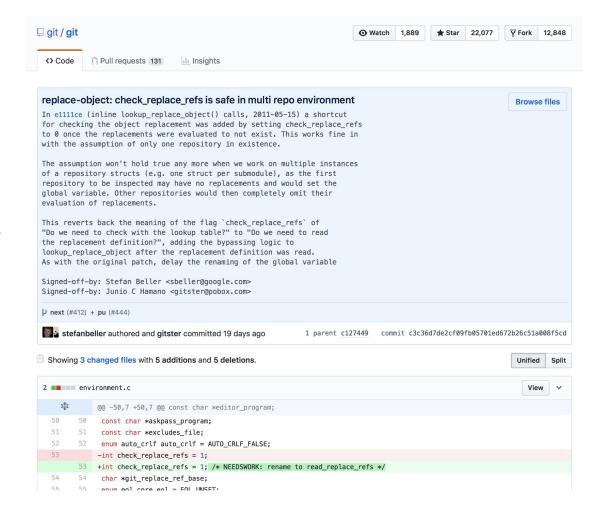
Gwyn Jones, Lead Front End Developer

Why they matter

They communicate the context of a change

"The contributors to these repositories know that a well-crafted Git commit message is the best way to communicate context about a change to fellow developers (and indeed to their future selves). A diff will tell you what changed, but only the commit message can properly tell you why."

Chris Beams. "How to Write a Git Commit Message"



Re-establishing the context of a piece of code is wasteful. We can't avoid it completely, so our efforts should go to reducing it [as much] as possible. Commit messages can do exactly that and as a result, a commit message shows whether a developer is a good collaborator.

Peter Hutterer

What's the point: a vicious cycle

"A project's long-term success rests (among other things) on its maintainability, and a maintainer has few tools more powerful than his project's log. It's worth taking the time to learn how to care for one properly. What may be a hassle at first soon becomes habit, and eventually a source of pride and productivity for all involved."

Chris Beams. "How to Write a Git Commit Message"

We don't get value from our commit history because it's unstructured and inconsistent,

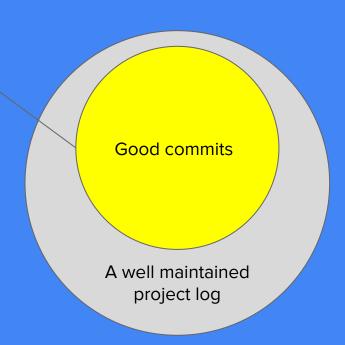
We don't put effort into our commits because we don't get value from them

But this can easily be flipped into a virtuous cycle

Git has many really useful tools that rely upon a well maintained log

- **Blame*** show what revision and author last modified each line of a file
- **Revert** given one or more existing commits, revert the changes that the related patches introduce, and record some new commits that record them
- **Rebase** re-apply commits on top of another base commit
- **Log** (incl. --oneline --graph --decorate)
- **Shortlog** summarises the log in a format suitable for release announcements

*like the name 'git', I believe the intention here is to be humorous. When accompanied by meaningful commit messages Git Blame becomes incredibly useful for understanding the context of a particular change. Good commits are part of a well maintained project log



What they are

The 7 rules of a good commit message

- Separate subject from body with a blank line
- Limit the subject line to 50 characters
- 3. Capitalize the subject line
- 4. Do not end the subject line with a period
- 5. Use the imperative mood in the subject line
- 6. Wrap the body at 72 characters
- 7. Use the body to explain what and why rather than how

Summarize changes in around 50 characters or less

More detailed explanatory text, if necessary. Wrap it to about 72 characters or so. In some contexts, the first line is treated as the subject of the commit and the rest of the text as the body. The blank line separating the summary from the body is critical (unless you omit the body entirely); various tools like `log`, `shortlog` and `rebase` can get confused if you run the two together.

Explain the problem that this commit is solving. Focus on why you are making this change as opposed to how (the code explains that). Are there side effects or other unintuitive consequences of this change? Here's the place to explain them.

Further paragraphs come after blank lines.

- Bullet points are okay, too
- Typically a hyphen or asterisk is used for the bullet, preceded by a single space, with blank lines in between, but conventions vary here

If you use an issue tracker, put references to them at the bottom, like this:

Resolves: #123

See also: #456, #789

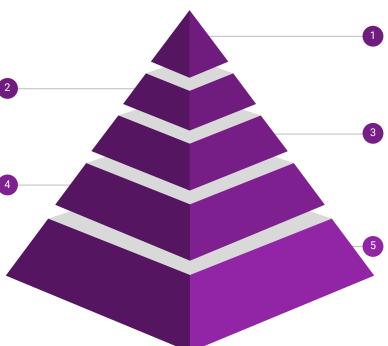
My personal hierarchy of commit 'goodness' needs

Wrap the subject and body

Restricting line length to 50 and 72 respectively makes for easier reading of the project log

Separate subject from body with a blank line

Where the commit warrants a bit more explanation, ensuring there is a blank line between subject and the detail will help the formatting of several Git tools



Subject: capitalize and no full stop

Use the imperative mood in the subject line

This standard helps in two ways: it encourages 'atomic' commits and it helps humans parse the story of the project when it consists of commits from multiple developers

Explain what and why rather than how

This is the most important thing because it communicates the context of the change.