

### Description

A specification for adding human and machine readable meaning to commit messages from [Conventional Commits](#)

### Commit message structure

```
<type>[optional scope]: <description>
[optional body]
[optional footer]
```

A commit that has the text **BREAKING CHANGE**: at the beginning of its optional body or footer section introduces a breaking API change

### Types

|                 |   |                    |
|-----------------|---|--------------------|
| fix             | Correct code issue (Patch)              | -                  |
| feat            | Introduce new feature (Minor)           | -                  |
| BREAKING CHANGE | Breaking backward compatibility (Major) | -                  |
| build           | Build system changes                    | Angular convention |
| chore           | Maintenance or tooling                  | Angular convention |
| ci              | Continuous integration adjustments      | Angular convention |
| docs            | Documentation changes made              | Angular convention |
| style           | Code style updates                      | Angular convention |
| refactor        | Code restructuring done                 | Angular convention |
| perf            | Performance improvement made            | Angular convention |
| test            | Testing-related changes                 | Angular convention |

Several types use words based on [Angular's conventional commit](#)

### Specification

- ✔ Commits **MUST** be prefixed with a type, which consists of a noun, feat, fix, etc., followed by the **OPTIONAL** scope, **OPTIONAL !**, and **REQUIRED** terminal colon and space.
- ✔ The type feat **MUST** be used when a commit adds a new feature to your application or library.
- ✔ The type fix **MUST** be used when a commit represents a bug fix for your application.
- ✔ A scope **MAY** be provided after a type. A scope **MUST** consist of a noun describing a section of the codebase surrounded by parenthesis, e.g., fix(parser):
- ✔ A description **MUST** immediately follow the colon and space after the type/scope prefix. The description is a short summary of the code changes, e.g., fix: array parsing issue when multiple spaces were contained in string.
- ✔ A longer commit body **MAY** be provided after the short description, providing additional contextual information about the code changes. The body **MUST** begin one blank line after the description.
- ✔ A commit body is free-form and **MAY** consist of any number of newline separated paragraphs.
- ✔ One or more footers **MAY** be provided one blank line after the body. Each footer **MUST** consist of a word token, followed by either a `:<space>` or `<space>#` separator, followed by a string value (this is inspired by the git trailer convention).
- ✔ A footer's token **MUST** use - in place of whitespace characters, e.g., Acked-by (this helps differentiate the footer section from a multi-paragraph body). An exception is made for **BREAKING CHANGE**, which **MAY** also be used as a token.
- ✔ A footer's value **MAY** contain spaces and newlines, and parsing **MUST** terminate when the next valid footer token/separator pair is observed.
- ✔ Breaking changes **MUST** be indicated in the type/scope prefix of a commit, or as an entry in the footer.



### Specification (cont)

- ✔ If included as a footer, a breaking change **MUST** consist of the uppercase text **BREAKING CHANGE**, followed by a colon, space, and description, e.g., **BREAKING CHANGE:** environment variables now take precedence over config files.
- ✔ If included in the type/scope prefix, breaking changes **MUST** be indicated by a **!** immediately before the **:**. If **!** is used, **BREAKING CHANGE:** **MAY** be omitted from the footer section, and the commit description **SHALL** be used to describe the breaking change.
- ✔ Types other than feat and fix **MAY** be used in your commit messages, e.g., docs: update ref docs.
- ✔ The units of information that make up Conventional Commits **MUST NOT** be treated as case sensitive by implementors, with the exception of **BREAKING CHANGE** which **MUST** be uppercase.
- ✔ **BREAKING-CHANGE** **MUST** be synonymous with **BREAKING CHANGE**, when used as a token in a footer.



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