

REFERENSI CEPAT CONVENTIONAL COMMITS

Format pesan commit, tipe, scope, breaking change

Format

Struktur Pesan Commit

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

Penjelasan Bagian

type Kategori perubahan (feat, fix, dll.)
scope Bagian codebase yang terpengaruh (opsional)
description Ringkasan singkat dalam bentuk imperatif
body Penjelasan detail (opsional, setelah baris kosong)
footer Metadata seperti BREAKING CHANGE atau referensi issue

Aturan

Bentuk imperatif "add feature" bukan "added feature"
Tipe huruf kecil feat: bukan Feat:
Tanpa titik Deskripsi tidak diakhiri dengan "."
Baris kosong Pisahkan body/footer dari deskripsi

Tipe

Tipe Inti (Relevan SemVer)

feat Fitur baru (memicu kenaikan versi MINOR)
fix Perbaikan bug (memicu kenaikan versi PATCH)

Tipe Tambahan (Konvensi Umum)

build Sistem build atau dependensi eksternal
chose Tugas pemeliharaan (tanpa perubahan src/test)
ci Konfigurasi dan script CI
docs Perubahan dokumentasi saja
perf Peningkatan performa
refactor Perubahan kode yang tidak memperbaiki atau menambah fitur
revert Membalikkan commit sebelumnya
style Pemformatan, whitespace (bukan styling CSS)
test Menambah atau memperbaiki test

Scope

Penggunaan Scope

```
feat(auth): add OAuth2 login flow
fix(parser): handle empty input gracefully
docs(readme): update installation steps
refactor(api): extract validation middleware
```

Panduan Scope

Nama modul feat(auth); fix(parser):
Nama layer feat(api); fix(db):
Area fitur feat(search); fix(checkout):
Dependensi build(deps); chore(npm):
Tidak perlu scope Gunakan tanpa scope untuk perubahan lintas-modul

Breaking Change

Menandai Breaking Change

```
feat!: remove deprecated login endpoint
feat(api)!: change response format to JSON:API
fix!: drop Node 14 support
```

Breaking Change Gaya Footer

```
feat(api): change user endpoint response
BREAKING CHANGE: response now returns array
instead of object. Update client parsing.
```

Aturan

! setelah type/scope Penanda breaking change singkat
BREAKING CHANGE: Token footer (selalu huruf besar)
BREAKING-CHANGE: Juga valid (bentuk tanda hubung)
Dampak SemVer Memicu kenaikan versi MAJOR
Tipe apapun Breaking change bisa berlaku untuk tipe apapun

Contoh

Commit Sederhana

```
feat: add email notifications
fix: prevent race condition in checkout
docs: correct typo in contributing guide
style: format with prettier
refactor: simplify error handling logic
```

Dengan Scope

```
feat(blog): add comment threading
fix(auth): refresh token before expiry
test(api): add missing edge case coverage
ci(github): add Node 20 to test matrix
```

Dengan Body dan Footer

```
fix(parser): handle nested quotes correctly
```

Previously, nested quotes caused the parser to enter an infinite loop. This adds a depth counter to prevent unbounded recursion.

```
Closes #234
```

Footer

Token Footer

BREAKING CHANGE: Mendeskripsikan perubahan API yang breaking

Closes #123 Auto-close issue saat merge
Fixes #456 Auto-close issue (referensi fix)
Refs #789 Referensi issue tanpa menutupnya
Reviewed-by: name Atribusi reviewer
Co-authored-by: name Atribusi co-author

Beberapa Footer

```
feat(api)!: redesign authentication flow
```

```
Migrate from session-based to JWT auth.
```

```
BREAKING CHANGE: /auth endpoints changed
Closes #101
Refs #98, #99
```

Tooling

Commit Linting

```
npm install -D @commitlint/cli \
  @commitlint/config-conventional
echo "module.exports = { extends: \
  ['@commitlint/config-conventional'] }" \
  > commitlint.config.js
```

Tool Populer

commitlint Lint pesan commit sesuai konvensi
husky Git hooks (jalankan commitlint saat commit)
commitizen (cz) Builder pesan commit interaktif
standard-version Changelog otomatis + kenaikan versi
semantic-release Pipeline rilis otomatis penuh
release-please Alat otomatis rilis dari Google

Setup Commitizen

```
npm install -D commitizen \
  cz-conventional-changelog
npx commitizen init cz-conventional-changelog
# Use: npx cz (or git cz with alias)
```

Pola Umum

Pemetaan Kenaikan Versi

fix: PATCH (1.0.0 → 1.0.1)
feat: MINOR (1.0.0 → 1.1.0)
BREAKING CHANGE MAJOR (1.0.0 → 2.0.0)
docs, style, dll. Tidak ada kenaikan versi

Pengelompokan Changelog

```
## [1.2.0] - 2026-03-27
### Features
- add email notifications (abc1234)
### Bug Fixes
- prevent race condition (#123) (def5678)
```

Format Revert

```
revert: feat(blog): add comment threading
This reverts commit abc1234def5678.
```