

# Jujutsu



# What is it?

- New version control software (VCS)
- Separation of **frontend** and **backend**
- Compatible with git
- Slowly replacing git cli at Google (askip)
- Aiming for a simpler workflow

# No branch, only revisions

```
@ ssnutwmu fabien.freling@legrand.com 2024-12-09 14:51:03 ffr/SEC-27087-strength-tests 0c46715b
| storage: Add profile strength unit test
O ozqvvrn fabien.freling@legrand.com 2024-12-09 14:51:03 git_head() 1af7b179
| storage: Take reference instead of smart pointer
◆ qrmnvkpw charles.salvestroni@legrand.com 2024-12-09 11:11:45 master e7bca17f
| (empty) Merge branch 'csa/simplify-admin-commands-package' into 'master'
~ (elided revisions)
```

<revision id> <author> <date> <branch> <commit id>

- @ working copy
- ◆ immutable
- × conflict

# Embrace the DETACHED HEAD

- No need to be at the tip of a branch
- Easy to change the current revision (no rebase step)
- Each revision has a scope, you can switch / split / squash
- You can modify other branches, not only the current one (there is none)

# Immutable revisions

- New concept
- By default `master` is immutable, sane choice
- Clearly express what would create conflict, even local copy cannot change
- You can override it (but don't)

# No staging area, everything is logged

- You need a good gitignore
- You can always switch commits without loss
- You might want to recreate a "staging" commit

# Conflicts are ok

- Conflicts are recorded but never stop a rebase
- Conflicted commits are annotated
- You can safely rebase, deal with conflicts later on
- No need to mark as resolved

# Branches, bookmarks

- Branches (git) = bookmarks (jijutsu)
- Optional during dev
- Mandatory when pushing
- Stick to revision, manual step to update
- Tracked bookmarks are updated during fetch
  - No sync conflict between a local copy and its remote



# Back to git?

- A way back is always possible
- git view gets confused in detached HEAD

# Tooling

- Battery included
  - CLI tool for splitting commits
- Git tools not compatible

# Takeaway

- 🌟 Good when dealing with multiple tracks
- 😞 Need to explicitly specify branch when pushing commits
- Small improvements, not game-changing
- 😞 No ecosystem, but it's growing (TUI)
- Native backend (not ready yet) would remove a lot of friction

# Worth the switch?

 **Not yet**

# References

- [Official website](#)
  - [GUI & TUI](#)