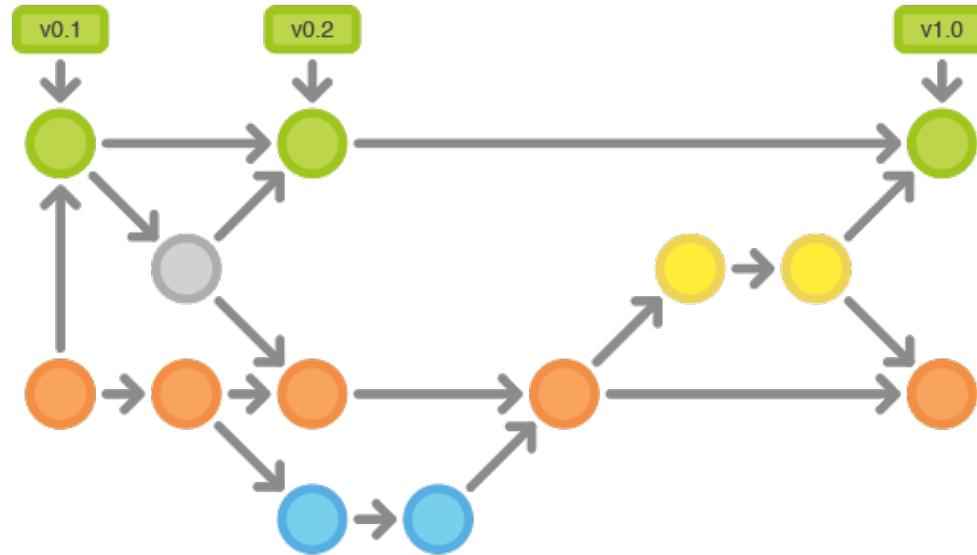




Gitflow Workflow

Max Kenobi

Gitflow workflow



Main branches



master branch

- contains *production-ready code* that can be released
- stores the official release history
- tag all commits with a version number

develop branch

- contains *pre-production code* with newly developed features
- integration branch for new features

Feature branches



feature branch

- used when adding *new features* to your code
- the most common type of branch

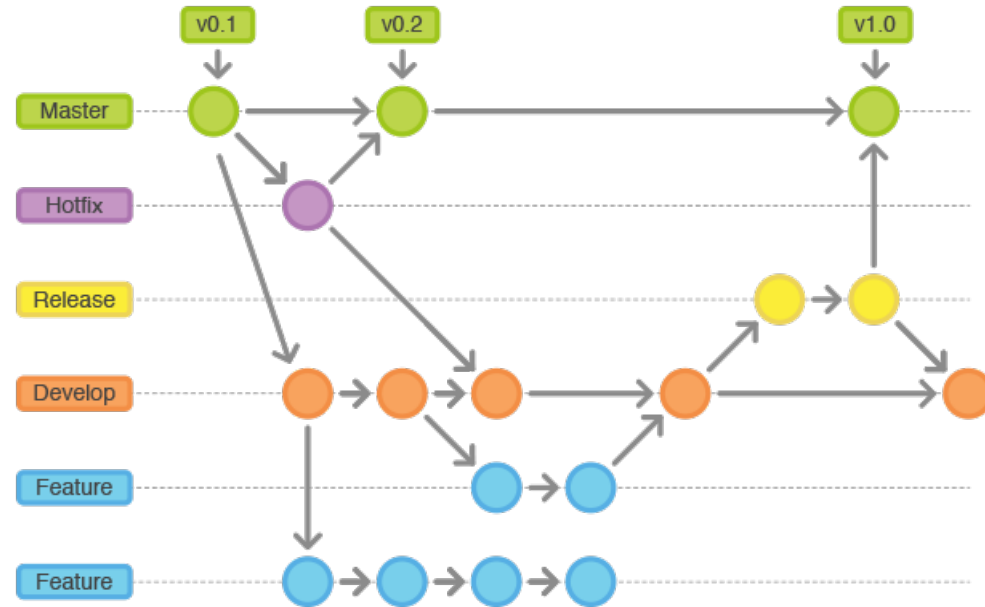
Release branches



release branch

- *preparing new production releases*
- no new features, just finishing touches and minor bugs
- polish the release and work on the new features at the same time

Hotfix branches



hotfix branch

- *quickly patch production releases* (ad hoc release branches)
- address issues without waiting for the next release cycle

Gitflow extension

No need to be a git master!

Initialise gitflow and set default branch names:

> git flow init

Start/finish feature branches:

> git flow feature start <name>

> git flow feature finish <name>

Push/pull a feature branch:

> git flow feature publish <name>

> git flow feature pull <name>

Start/finish release branches:

> git flow release start <release>

> git flow release finish <release>

Start/finish hotfix branches:

> git flow hotfix start <release>

> git flow hotfix finish <release>

[gitflow extension repo](#)
[how to install \(easy\)](#)

Extra rules

1. Feature branches naming convention

feature/<youtrack_task_id>/<short_meaningful_description>

ex. *feature/ML-9999/add_new_awesome_feature*

2. Tags naming convention

<huge_changes_num>.<new_feats_num>.<hotfix_num>

ex. 1.10.2, 2.0.0, etc.

- *huge_changes_num*: changes that affect the whole repo code
- *new_feats_num*: the most commonly changed num, new features
- *hotfix_num*: hotfixes; really hot; in the evenings or on weekends

3. Code review in GitLab UI

- before “git flow feature finish”
- make merge requests into the develop branch

4. Delete old branches

Pros and Cons

Pros

- releases
- support multiple versions
- production-ready code in master
- improved collaboration
- built-in code quality reviews
- clean git history

Cons

- complexity
- slows down the deployment

Additional links

Post by the author: <https://nvie.com/posts/a-successful-git-branching-model/>

<https://www.atlassian.com/git/tutorials/comparing-workflows/gitflow-workflow>

<https://github.com/nvie/gitflow>

<https://leanpub.com/git-flow/read>

