

## Git work flow

- master
  - The stable versions.
  - Must merged from a **release or hotfix branch**
  - The tag naming rule is x.y.z. All the variables start from 0.
  - x is incremented only when a huge update is done
  - y is incremented when some features are added
  - z is incremented when some minor fix or editing is done
  - Merge with a stable release only when there is a significant update.
- develop
  - The HEAD of this branch always reflects the newest develop changes for next release
  - The new features are merged from feature branches
  - Once the develop branch reaches a stable point, a release branch should be created and made ready for the new version
- release-x.y.z
  - The release must be **branched from a develop branch**
  - The release must be **merged into both master and develop**
  - The naming rule for x, y and z is the same as master
  - Only minor bug fixes should be done in the release branch
  - The release branch should be removed after the new version is released on master
- feature branch
  - May be **branched from develop branch**
  - Must be **merged back to develop**
  - The naming of can be anything except `master`, `develop`, `release-*`, or `hotfix-*`
  - Once the feature is merged back to the develop branch, it should be deleted
- hotfix-x.y.z
  - May be branched **from master**
  - Must merged back to both **master and develop(or release when it exists)**
  - naming rule is the same as the current version
  - Opened when significant bug found in the current version and the develop branch is not yet ready
  - Once merged back to master and develop, it should be deleted