

#### Genera

Central repository as communication hub.

Two history branches. Master and develop.

Master branch stores official release history.

Develop branch stores new features.

### Creating a develop branch

Develop branch contains newest features

git checkout -b develop master

git push origin develop

#### Implementing new features

Each new feature resides in own branch.

Feature branches are branched of develop.

git pull origin develop

git checkout -b <new\_feature> develop

Once finished they get merged into develop and pushed upstream.

git checkout develop

git pull origin develop

git merge <new\_feature>

git push origin develop

## Releasing

A release branch is forked of develop. No new features can be added to the release branch only bux fixes, docs and release oriented tasks.

git checkout -b <release\_version> develop

git push origin <release\_version>

Once ready to ship the release branch is merged into master and develop (update develop with possible bug fixes and docs).

git checkout master

git merge <release\_version>

git push origin master

git checkout develop

git merge <release\_version>

git push origin develop

git push origin <release\_version>

Tag the release in master

git tag -a <version\_number> -m
<description\_of\_release> master

git push --tags

# Fixing Bugs

Create a maintenance branch of master

git checkout master

git pull origin master

git checkout -b <issue-#issue\_number>
master

Once the bug is fixed it is merged into master and pushed upstream

git checkout master

git merge <issue-#issue\_number>

git push origin master

Master should be tagged with new release number

git tag -a <version\_number> -m
<description\_of\_release> master

git push --tags

The bug fix should also be included into develop

git pull origin develop

git checkout develop

git merge <issue-#issue\_number>

git push origin develop

The bug fix should also be merged into the release branch

git pull origin <release\_version>

git checkout <release\_version>

git merge <issue-#issue\_number>

git push origin <release\_version>

Feel free to delete the branch at this point

git branch -d <issue-#issue\_number>

# An overview

