

# Branching & Versioning

# New projects have master



master

# A development branch should be created immediately



Diagram illustrating the initial state of a Git repository with two branches: master and develop. Both branches are represented by green rounded rectangles. The master branch is positioned above the develop branch.

master

develop

Developers should create their own  
branch of develop for features during a  
sprint

master

develop

Developers should create their own  
branch of develop for features during a  
sprint

master

develop

dev/house/fix\_crappy\_code

# Developers should create their own branch of develop for features during a sprint

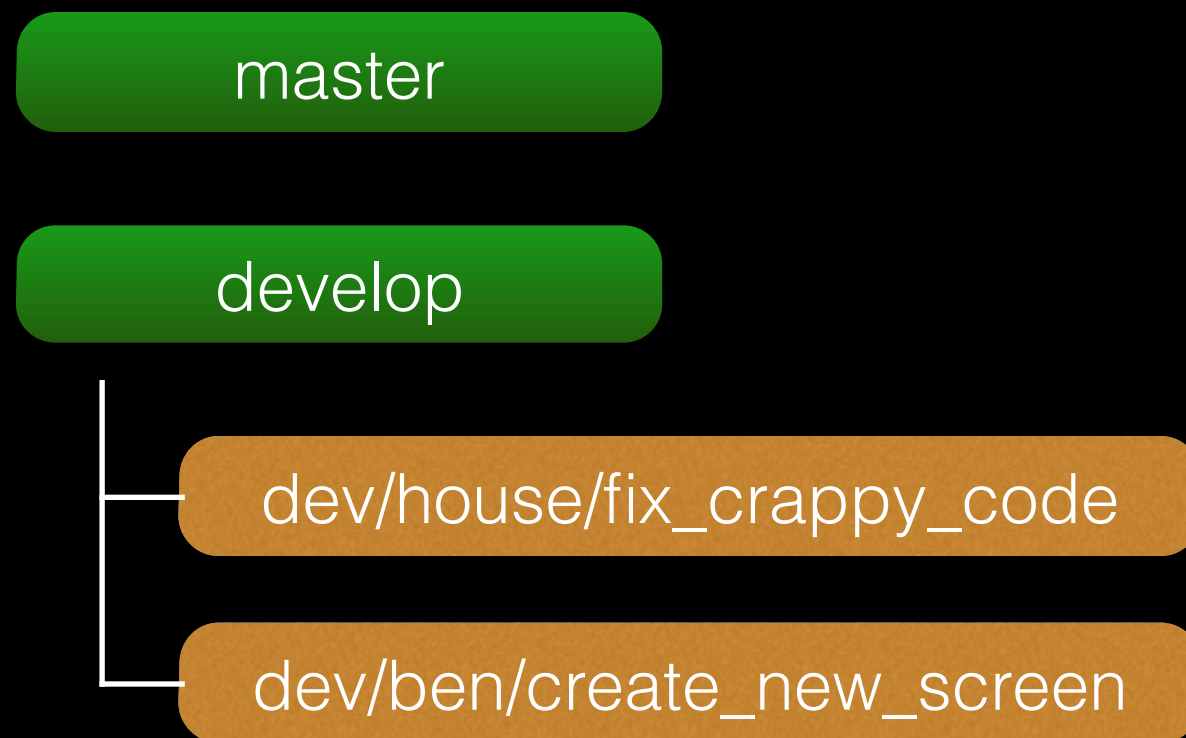
master

develop

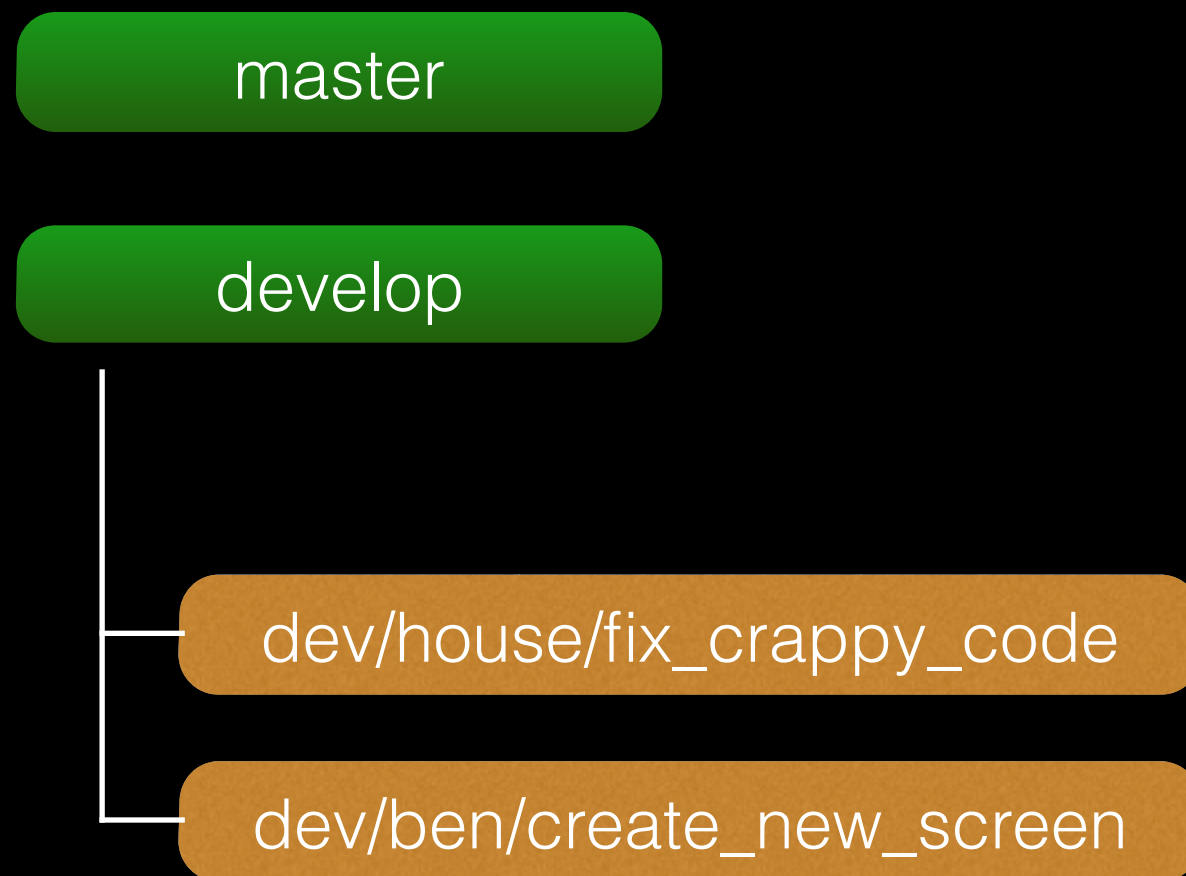
dev/house/fix\_crappy\_code

dev/ben/create\_new\_screen

# Developers should create their own branch of develop for features during a sprint

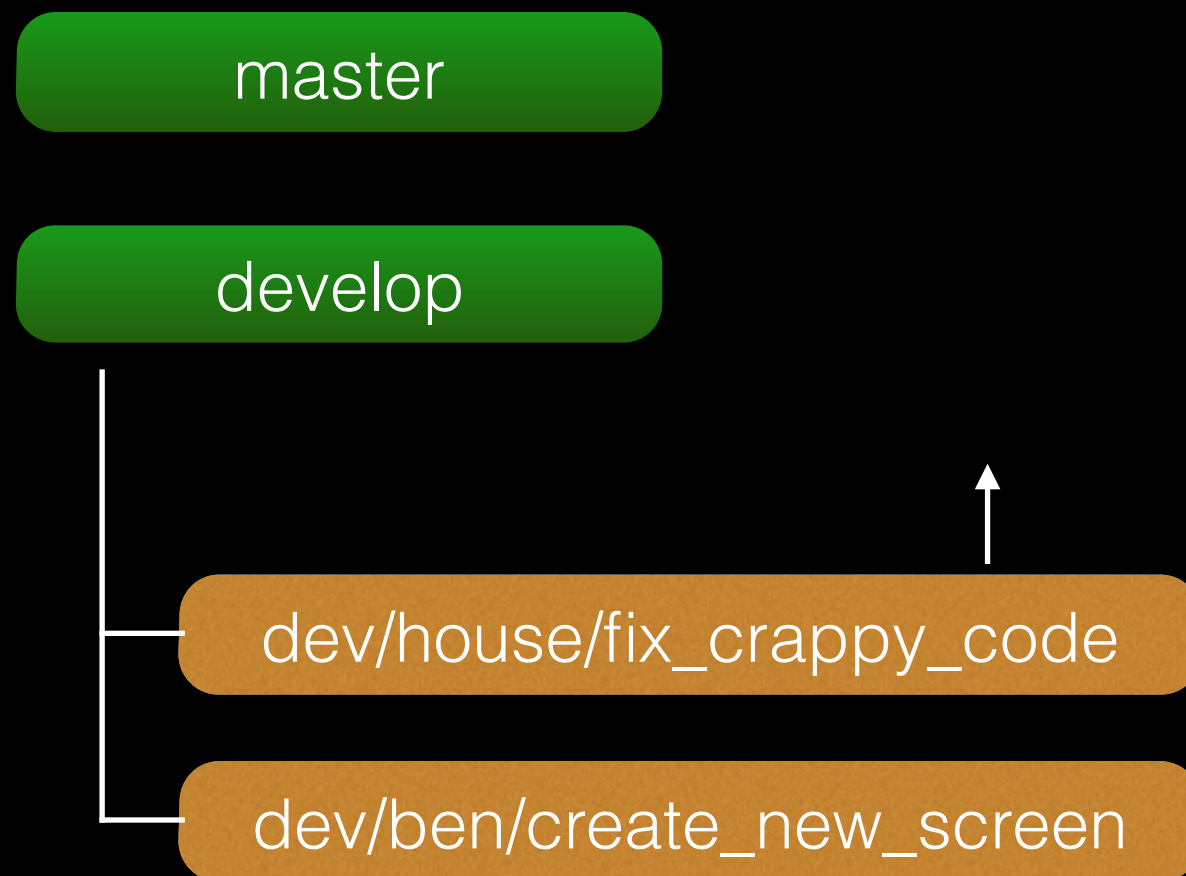


When feature is complete and ready to test, it is merged into develop using a pull request

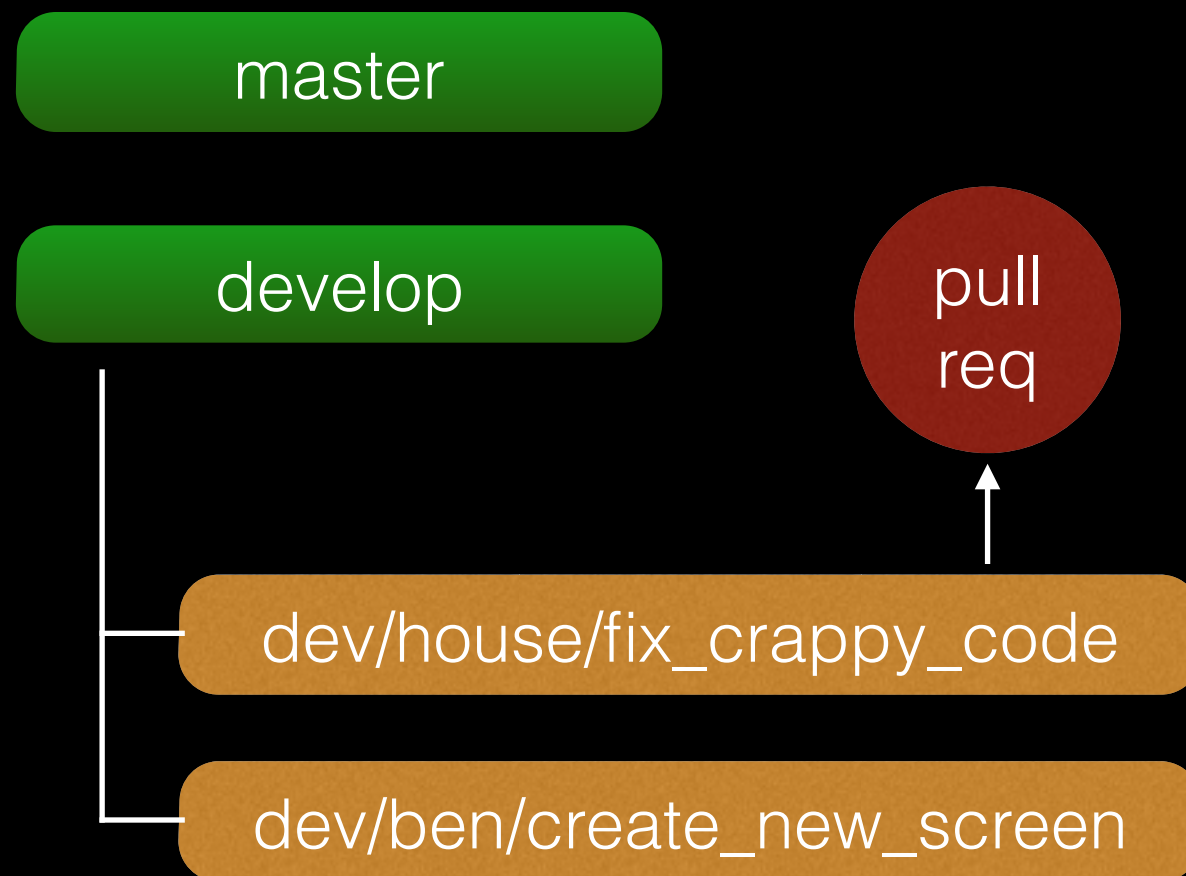




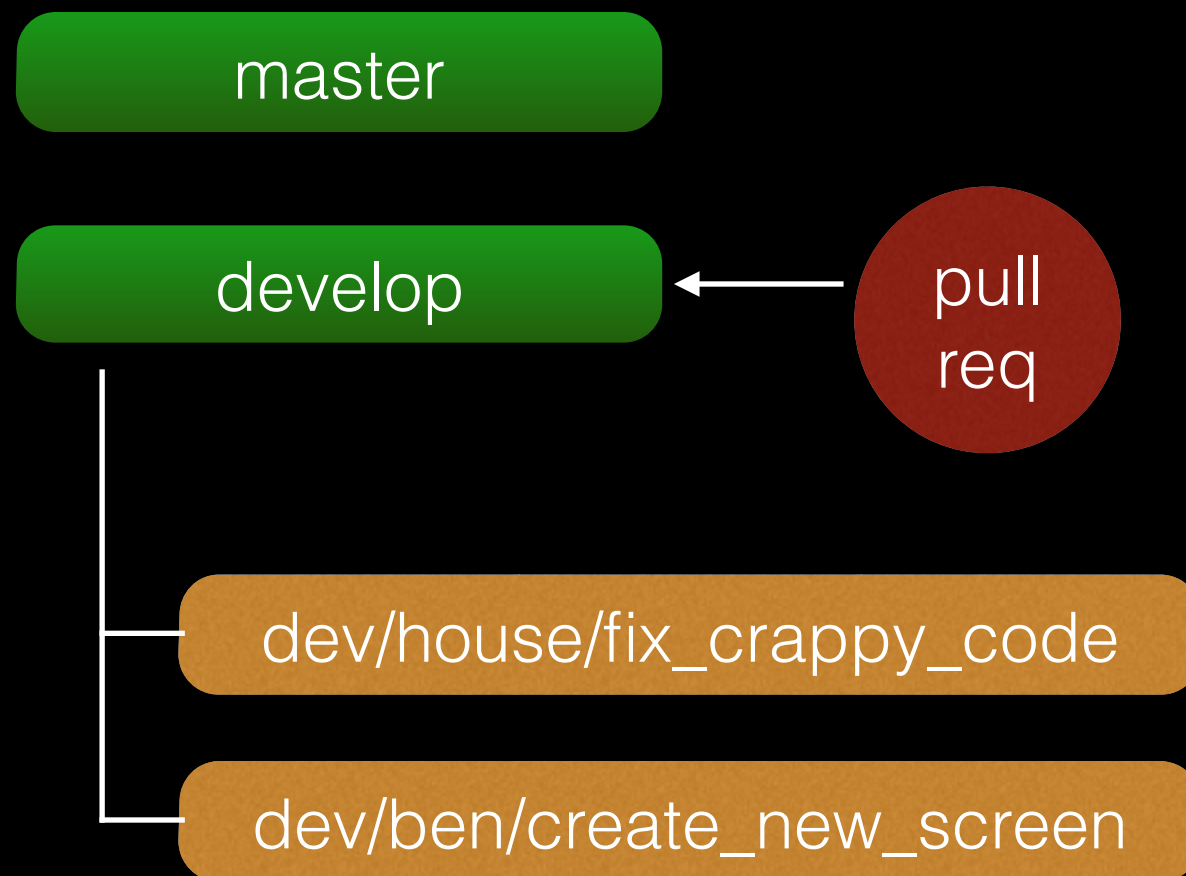
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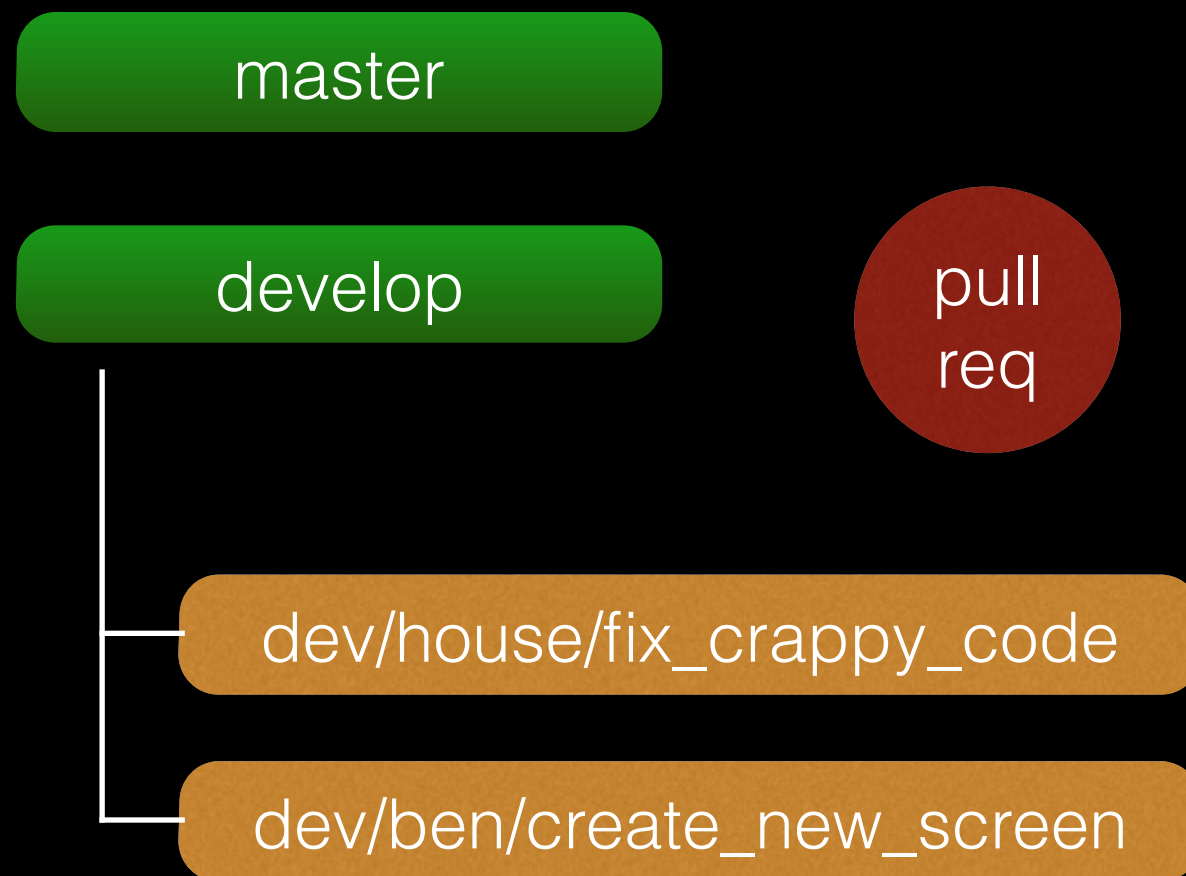
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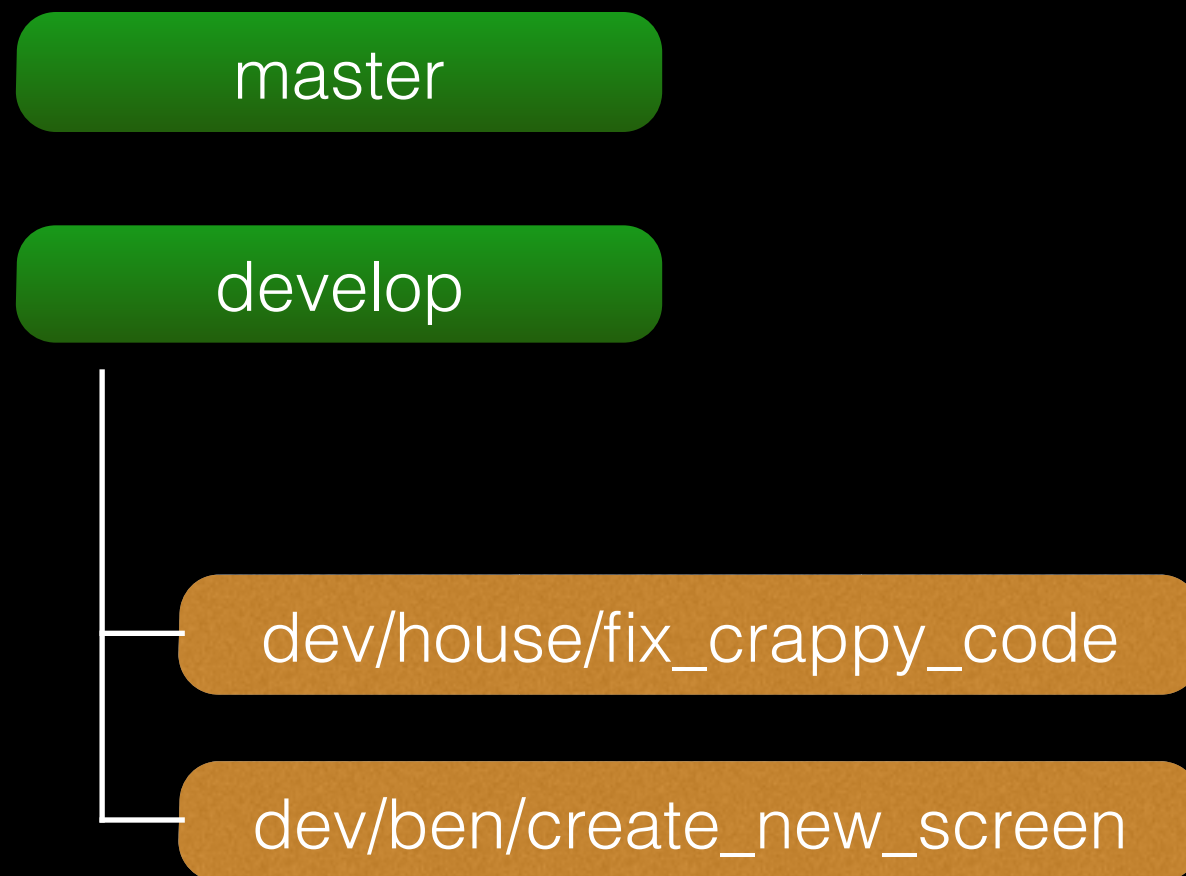
# Code is reviewed, then merged and the branch is deleted



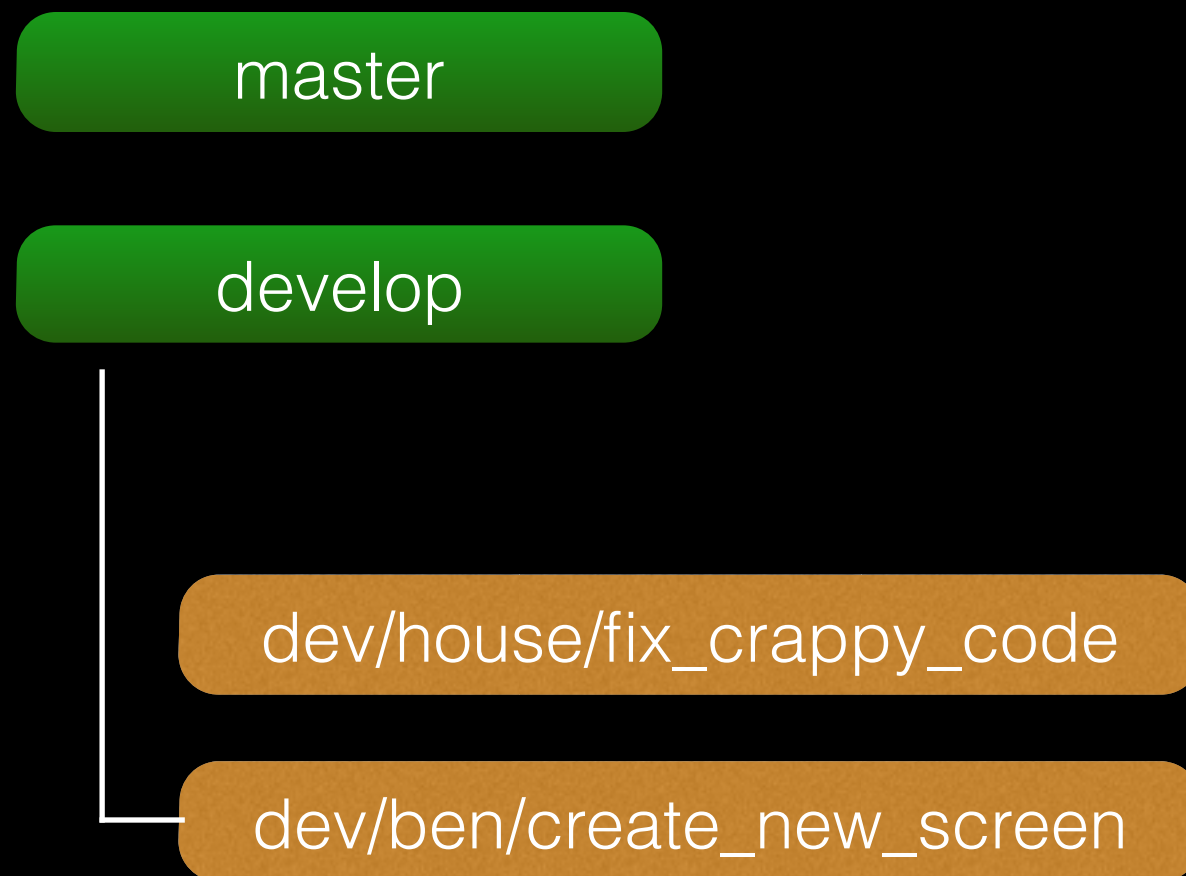
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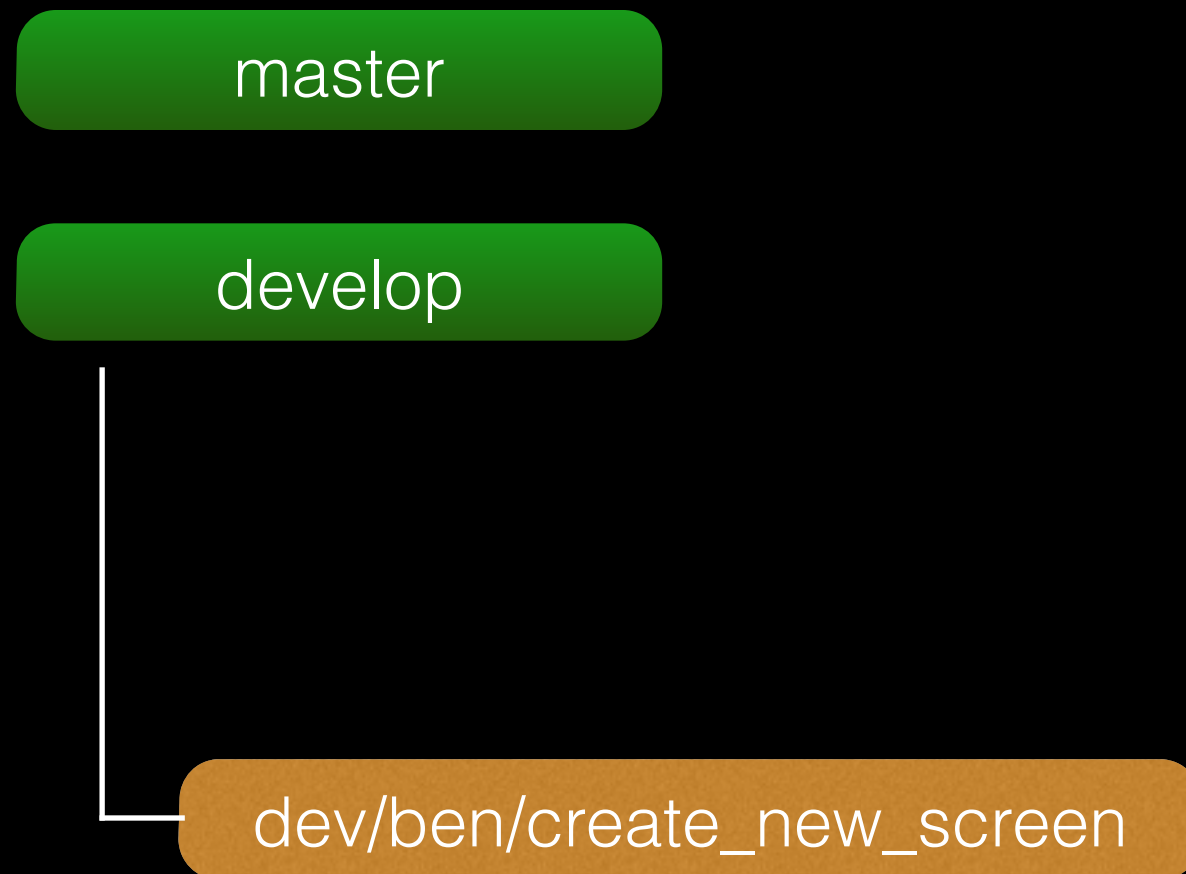
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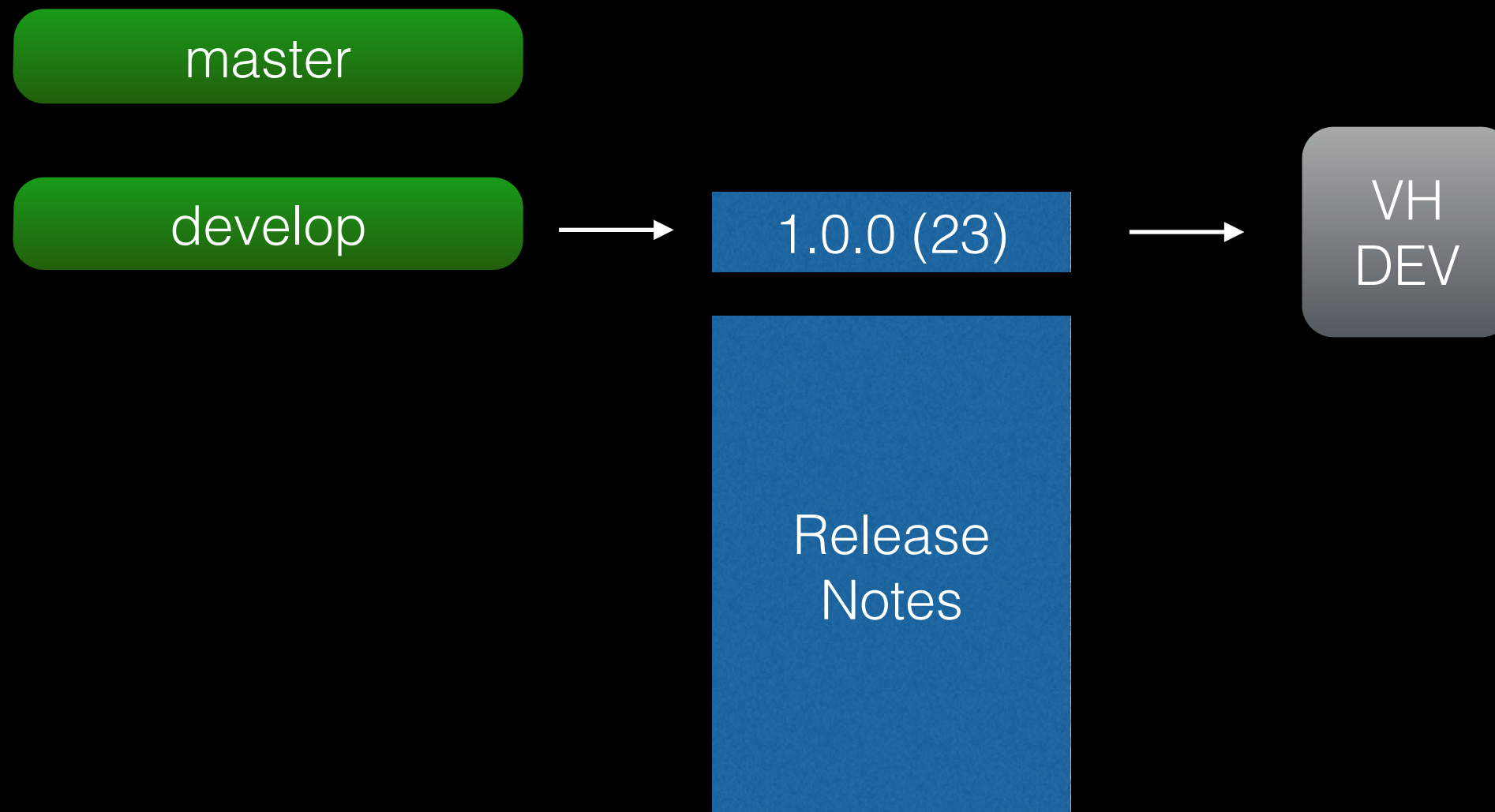
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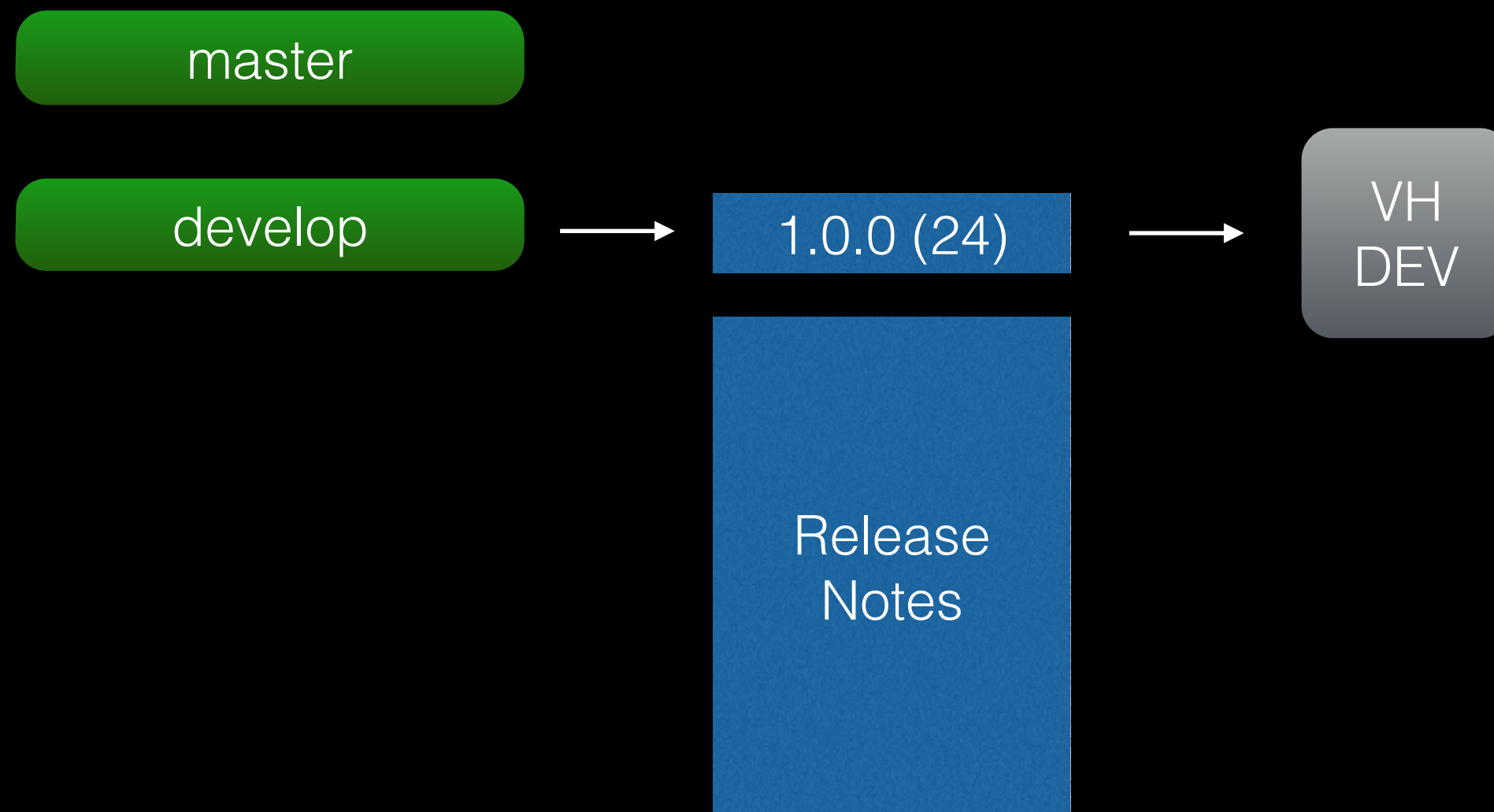


When a dev build is ready for test, the build number and release notes should be updated

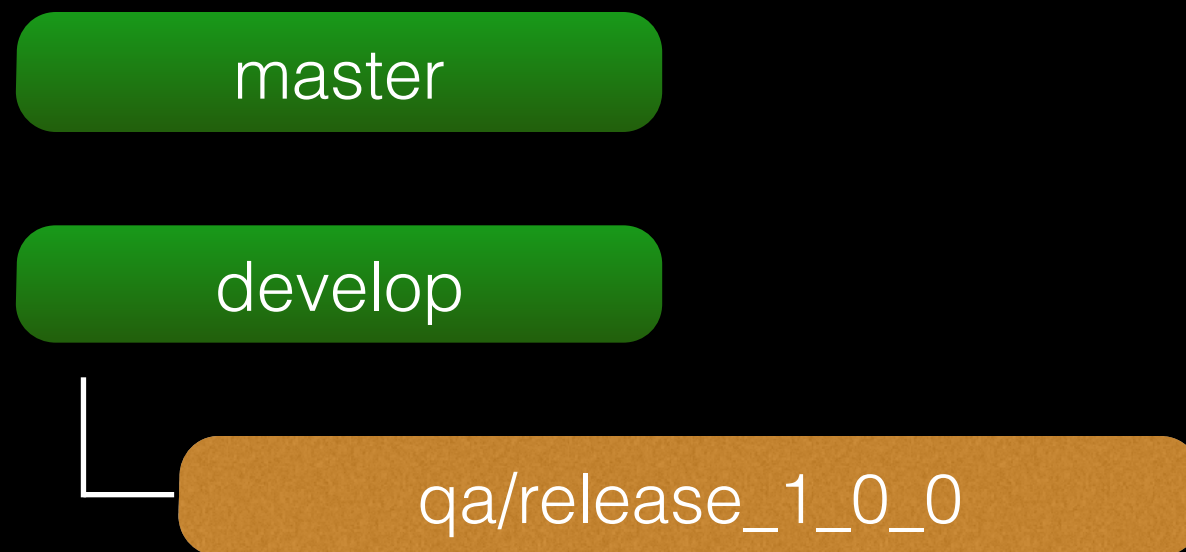




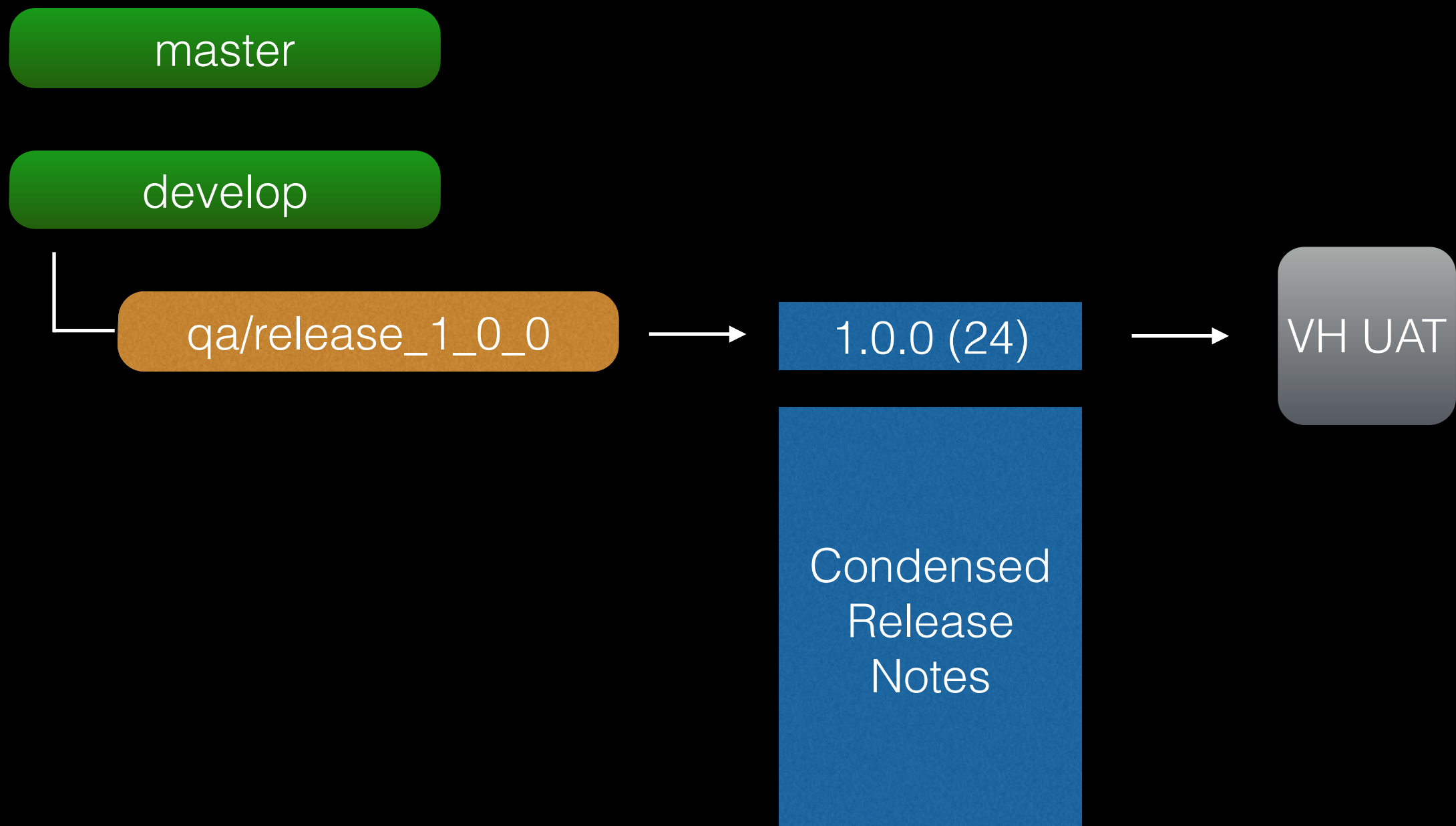
As development continues and new test builds are created, the build number and release notes are updated each time.



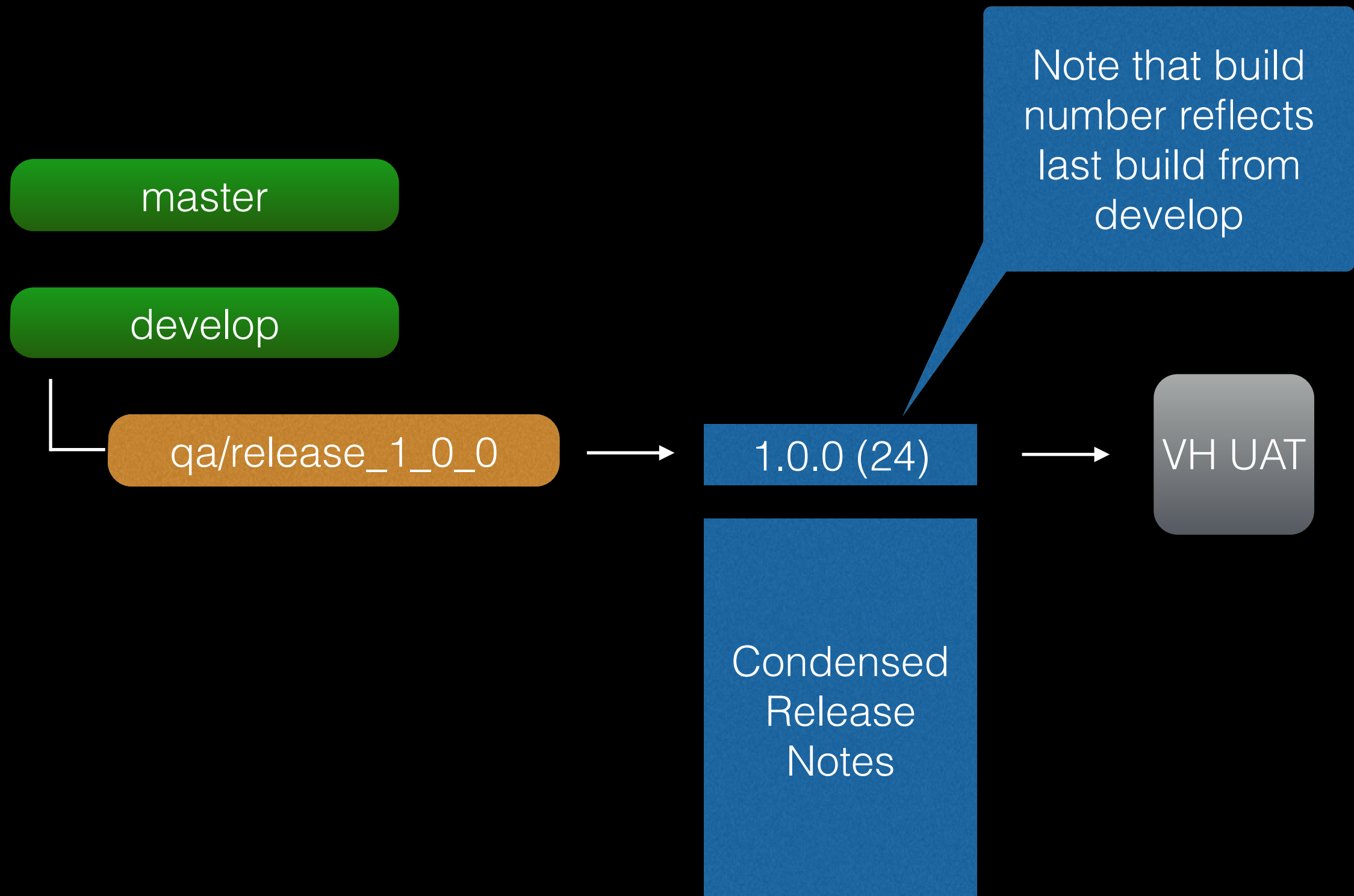
Once it has been decided that a release to UAT should happen, a branch is created from develop



# Now a UAT release build can be created from the release branch



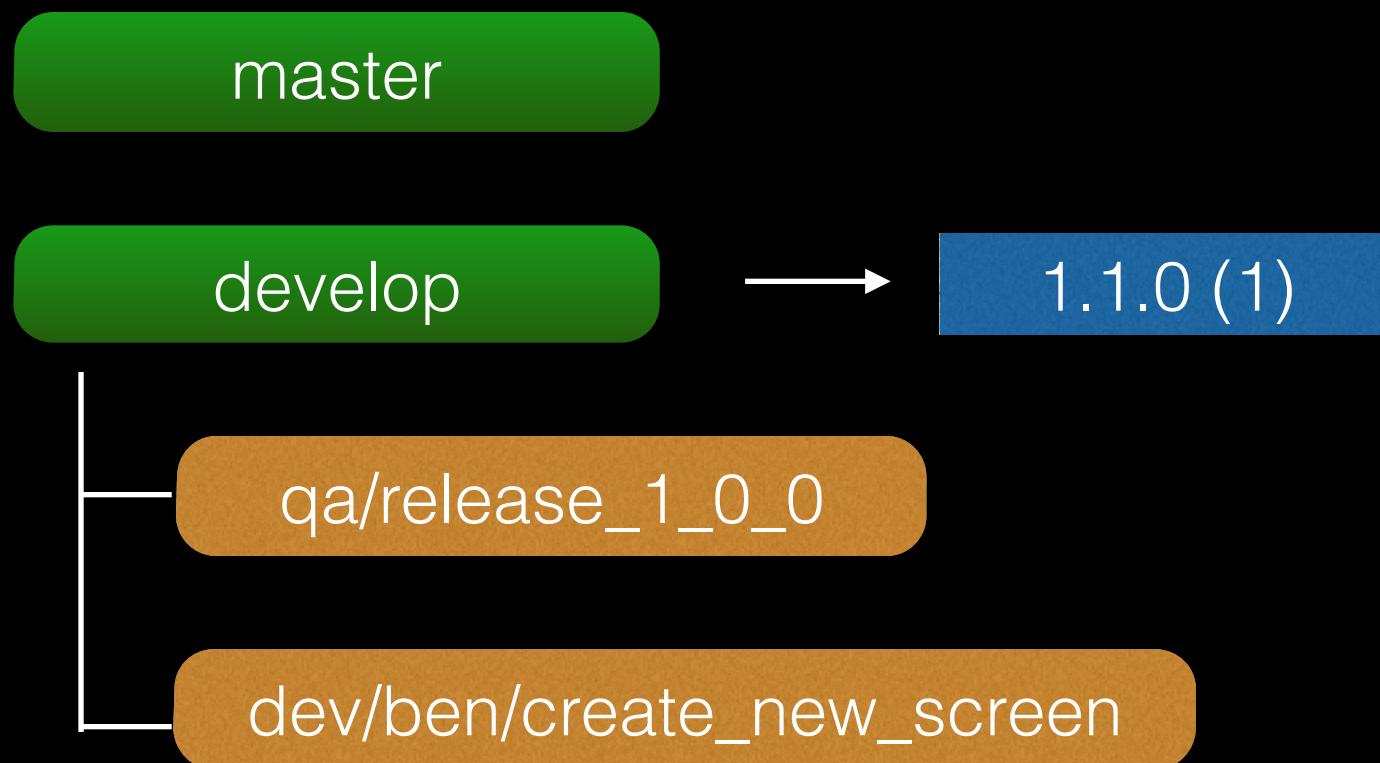
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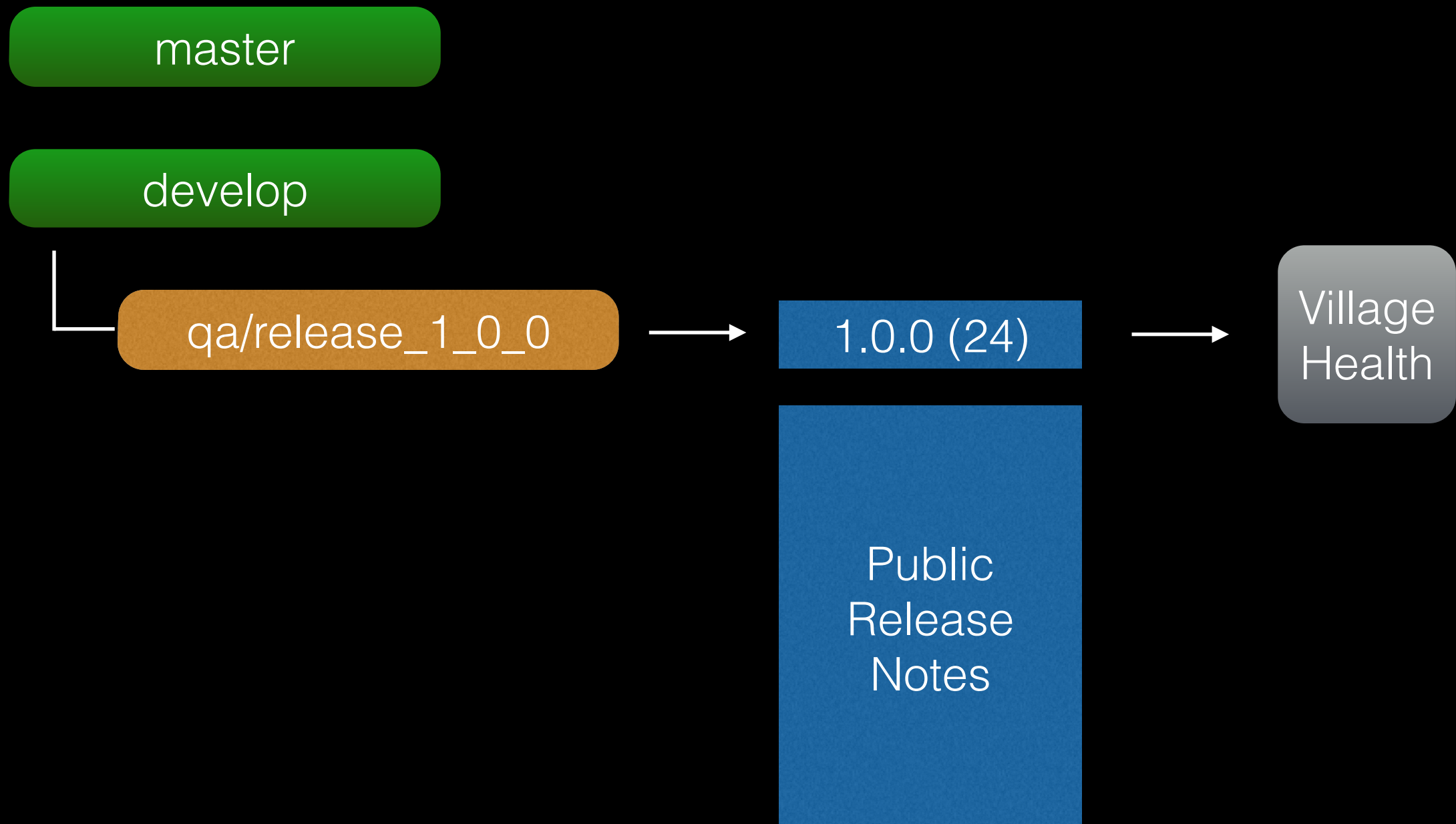
Once release branch is created,  
development can resume on the develop  
branch.



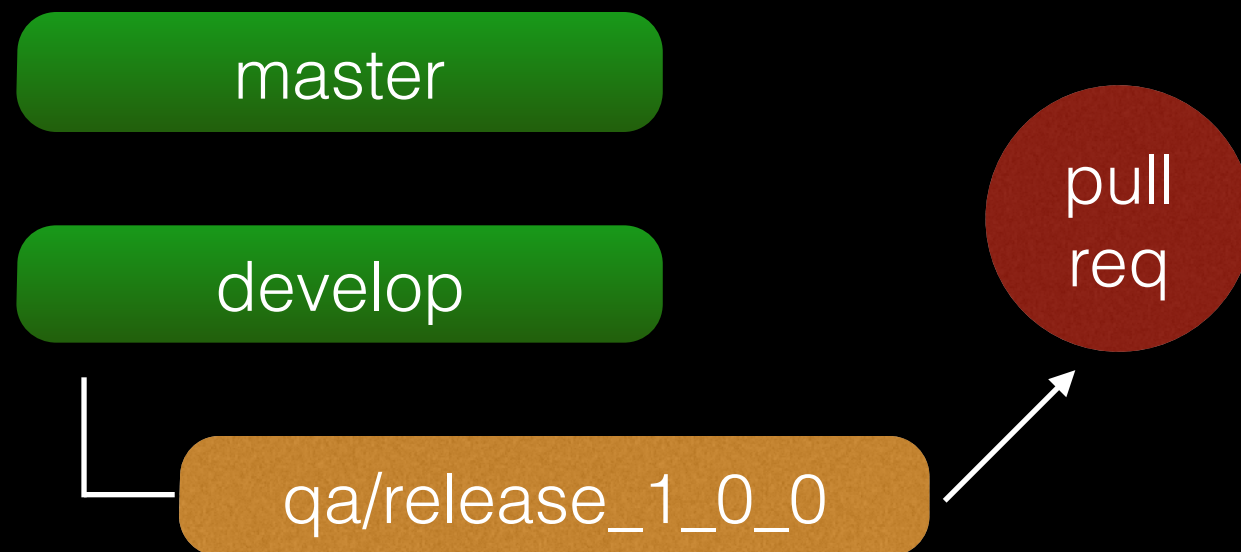
BUT now builds from develop must have a different version number



# When UAT build is verified, a prod build can be created.



# Now release branch gets merged into master, tagged and deleted





# Now release branch gets merged into master, tagged and deleted



# Now release branch gets merged into master, tagged and deleted



# Now release branch gets merged into master, tagged and deleted



# Now release branch gets merged into master, tagged and deleted

master

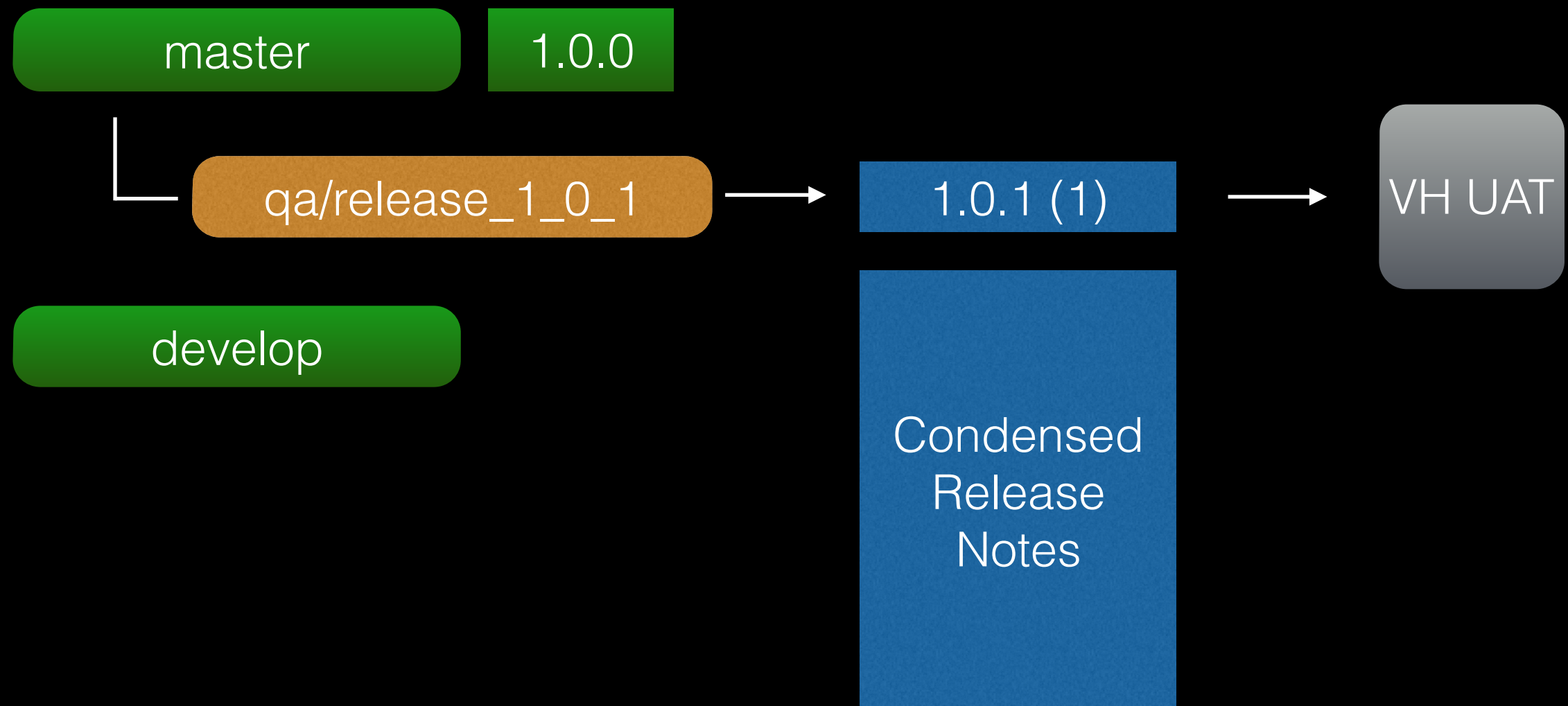
1.0.0

develop

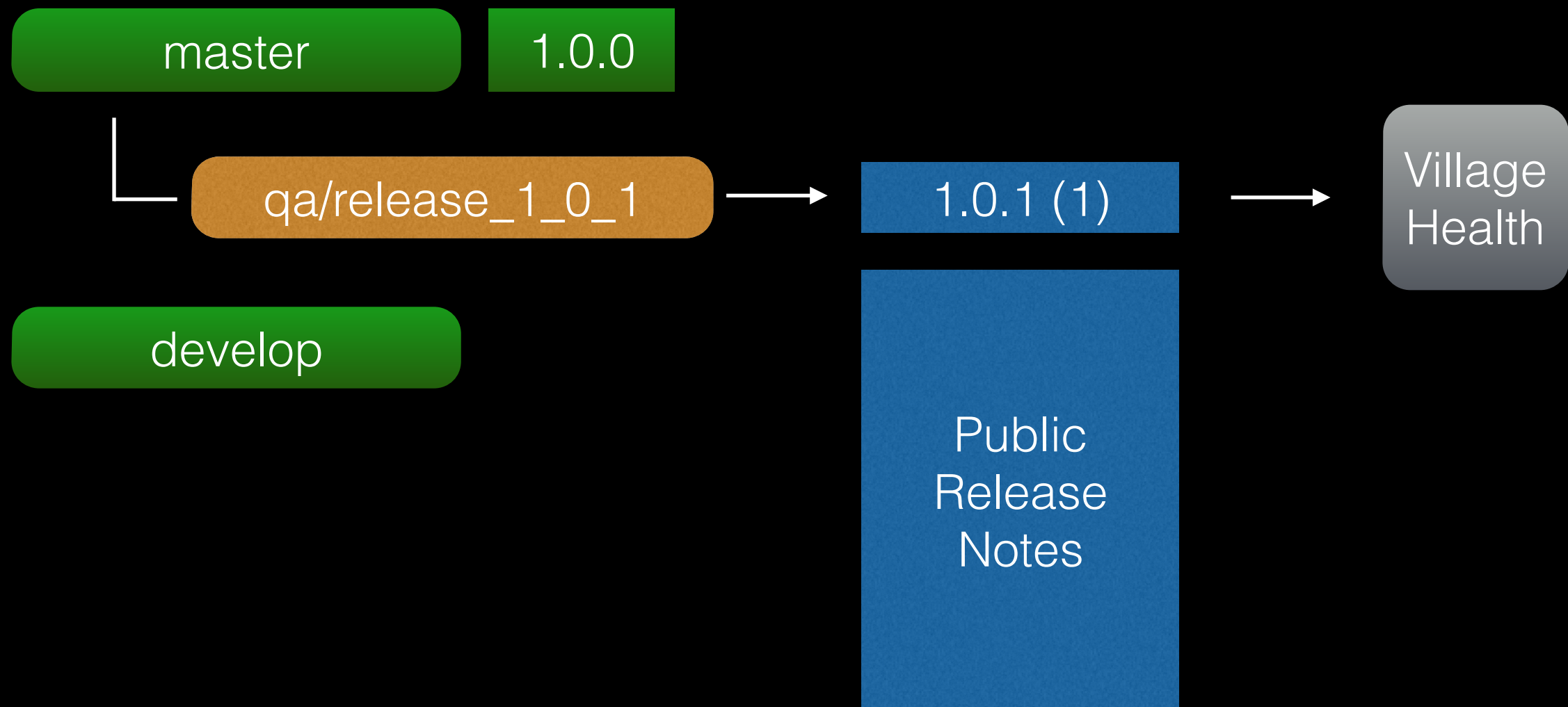
If hot fix work is needed, a new release branch is created from master using version tag



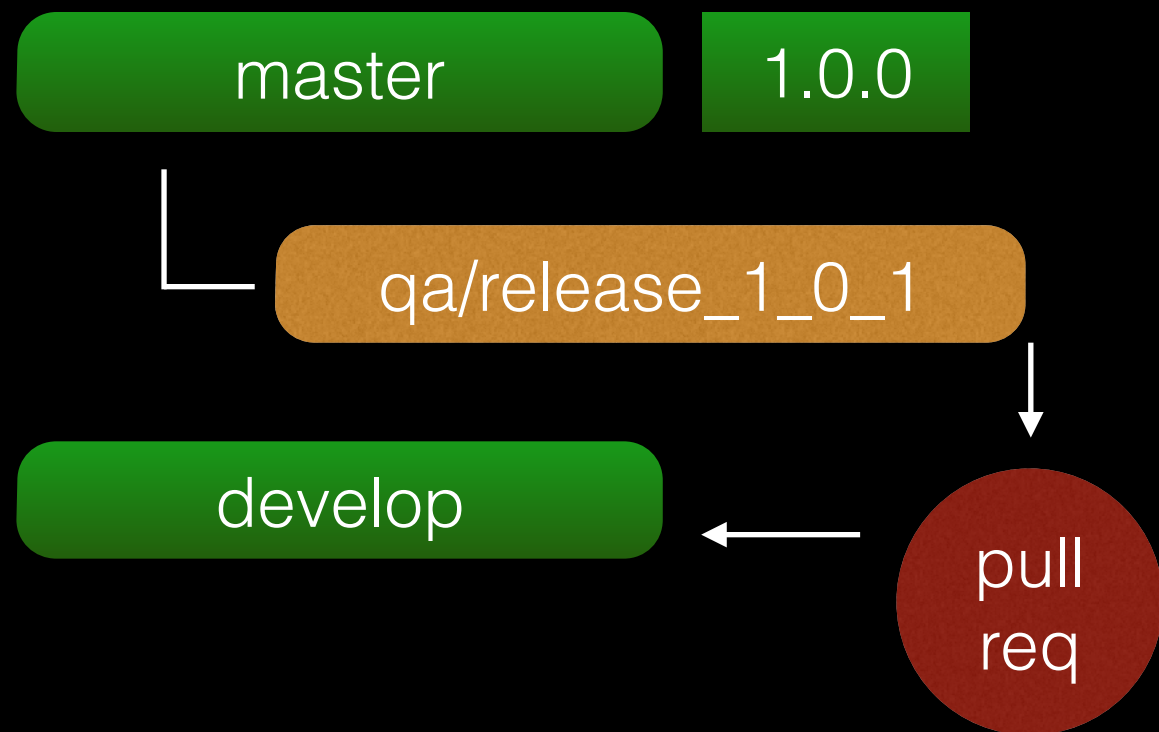
# UAT builds proceed as before



# And PROD build

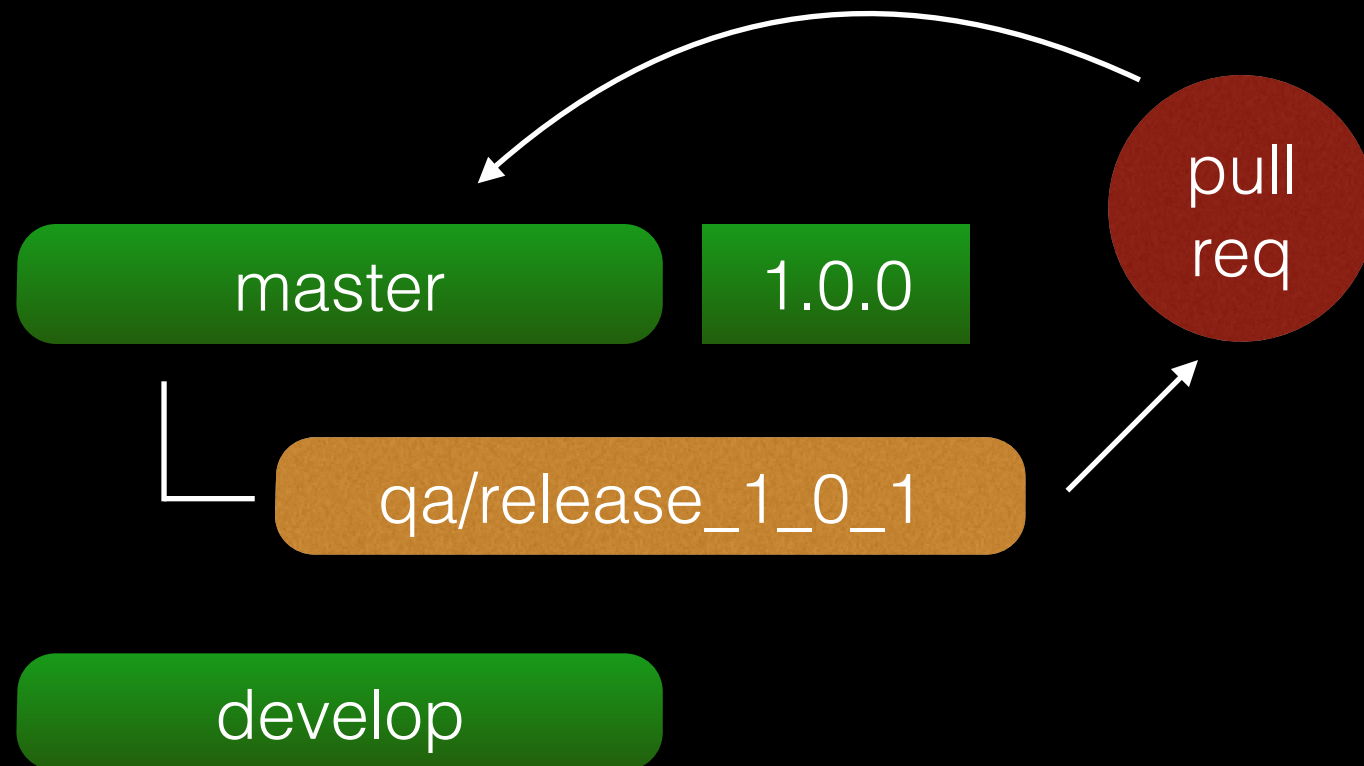


# Code merged into develop if necessary





# And merge back into master



# Master tagged and branch deleted





# Quick notes on version numbers

1.0.0 (24)

10000024

1

Major (significant change)

0

Minor (new features/bug fixes)

0

Release (hotfix)

24

Build (incremented on each build)

# Number #1 rule (NEVER FORGET)

1.0.0

(24)

Major.Minor.Release MUST CHANGE  
EVERY TIME A BUILD IS PROMOTED  
TO PRODUCTION. NO EXCEPTIONS.