

### Branches

master	Only final releases
develop	Current state of code. Release branch may branch of this one
Release-x.x.xx	A release branch. Tagged at creation with version number. Branches of develop once. No new features after branch off
hotfixes	Only for important bug fixes. Branches of master, tagged at creation
Feature-featurename	Many may exist. Branch of and merge to develop.

### Release Branch

#### Creating release branch

checkout release 1.2 from develop	<code>git checkout -b release-1.2 develop</code>
Bump version to 1.2	<code>./bum-version.sh 1.2</code>
Commit	<code>git commit -a -m "Bumped version number to 1.2"</code>

#### Finishing release branch

Checkout master	<code>git checkout master</code>
Merge	<code>git merge --no-ff release-1.2</code>
tag version (may use -s or -u to sign tag cryptographically)	<code>git tag -a 1.2</code>
Merge back to develop as well	<code>git checkout develop</code> <code>git merge --no-ff release-1.2</code>
delete release branch	<code>git branch -d release-1.2</code>

May branch of `develop`  
Merges into `develop` and `master`  
Naming convention: `release-*`

### Feature Branch

create	<code>git checkout -b myfeature develop</code>
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#### incorporate finished feature

Checkout develop	<code>git checkout develop</code>
Merge feature (no-ff forces new commit)	<code>git merge --no-ff myfeature</code>
Delete feature branch	<code>git branch -d myfeature</code>
Push develop	<code>git push origin develop</code>

Branches of and merges into `develop`.  
Name anything except `master`, `develop`, `release-*` or `hotfix-*`

### Hotfix branches

#### Creating Hotfix Branch

checkout from master	<code>git checkout -b hotfix-1.2.1 master</code>
Bump version	<code>./bump-version.sh 1.2.1</code>
Commit	<code>git commit -a -m "Bumped version number to 1.2.1"</code>

#### Now fix bug

Commit bugfix	<code>git commit -m "Fixed severe production problem"</code>
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#### Finishing a hotfix branch

`git checkout master`  
`git merge --no-ff hotfix-1.2.1`  
`git tag -a 1.2.1`

#### Include fix in develop

`git checkout develop`  
`git merge --no-ff hotfix-1.2.1`

Delete temporary branch  
`git branch -d hotfix-1.2.1`

May branch of `master`  
Merges into `master` and `develop`  
Naming convention: `hotfix-*`

