

Git Branching Cheat Sheet

Created by Xavier Hahn @ [LS Instruments](#)
Based on the « A successful Git branching model » blog
post by Vincent Driessen
<http://nvie.com/posts/a-successful-git-branching-model>

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Feature branches

- Branch from: **develop**
- Merge back to: **develop**
- Naming: anything **except: master, develop, release-*, hotfix-***

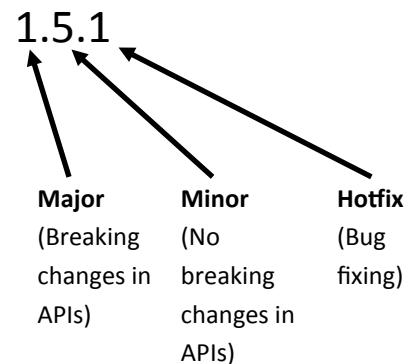
Create

```
$ git checkout -b myfeature develop
Switched to a new branch "myfeature"
```

Incorporate the changes back

```
$ git checkout develop
Switched to branch 'develop'
$ git merge --no-ff myfeature
Updating ea1b82a..05e9557 (Summary of changes)
$ git branch -d myfeature
Deleted branch myfeature (was 05e9557).
$ git push origin develop
```

Version numbers



Release branches

- Branch from: **develop**
- Merge back to: **develop AND master**
- Naming: **release-***

Create

```
$ git checkout -b release-1.2 develop
Switched to a new branch "release-1.2"
$ ./bump-version.sh 1.2
Files modified successfully, version bumped to 1.2.
$ git commit -a -m "Bumped version number to 1.2"
[release-1.2 74d9424]Bumped version number to 1.2
1 files changed, 1 insertions(+), 1 deletions(-)
```

Work

Do bug fixes & commit as usual

Finish

Merge to master

```
$ git checkout master
Switched to branch 'master'
$ git merge --no-ff release-1.2
Merge made by recursive. (Summary of changes)
$ git tag -a 1.2
```

Merge to develop

```
$ git checkout develop
Switched to branch 'develop'
$ git merge --no-ff release-1.2
Merge made by recursive. (Summary of changes)
$ git branch -d release-1.2
Deleted branch release-1.2 (was ff452fe).
```

Hotfix branches

- Branch from: **master**
- Merge back to: **develop AND master**
- Naming: **hotfix-***

Create

```
$ git checkout -b hotfix-1.2.1 master
Switched to a new branch "hotfix-1.2.1"
$ ./bump-version.sh 1.2.1
Files modified successfully, version bumped to 1.2.1.
$ git commit -a -m "Bumped version number to 1.2.1"
[hotfix-1.2.1 41e61bb] Bumped version number to 1.2.1
1 files changed, 1 insertions(+), 1 deletions(-)
```

Work

Write the bug fix & commit as usual

Finish

Merge to master

```
$ git checkout master
Switched to branch 'master'
$ git merge --no-ff hotfix-1.2.1
Merge made by recursive. (Summary of changes)
$ git tag -a 1.2.1
```

Merge to develop

```
$ git checkout develop
Switched to branch 'develop'
$ git merge --no-ff hotfix-1.2.1
Merge made by recursive. (Summary of changes)
$ git branch -d hotfix-1.2.1
Deleted branch hotfix-1.2.1 (was ff452fe).
```