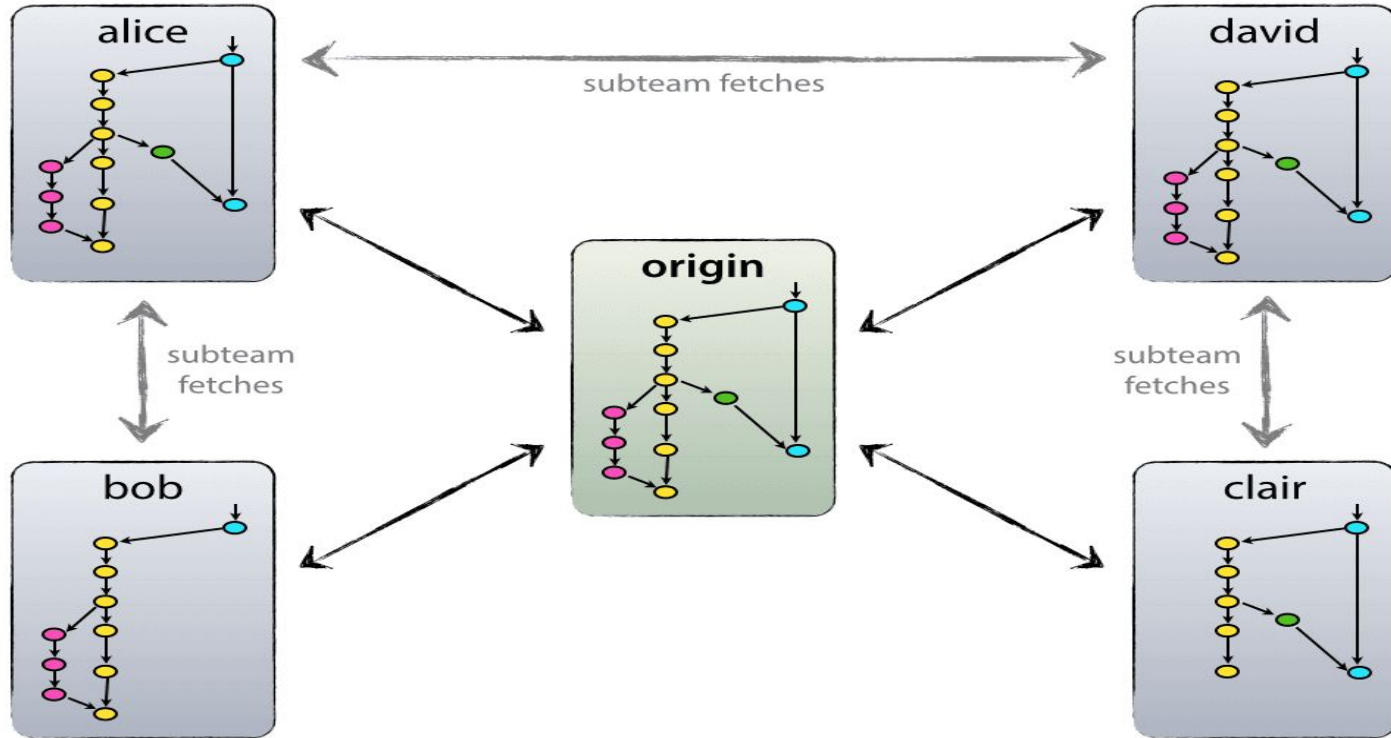


A Successful Git Branch Modeling

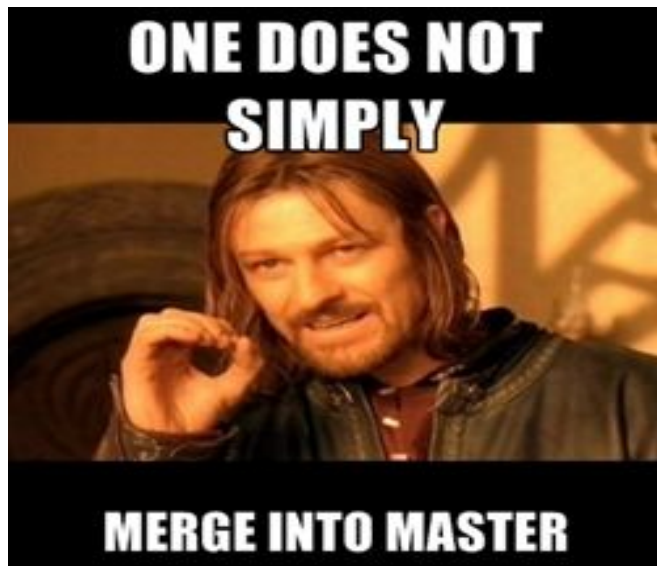


Decentralized but Centralized



Main Branches

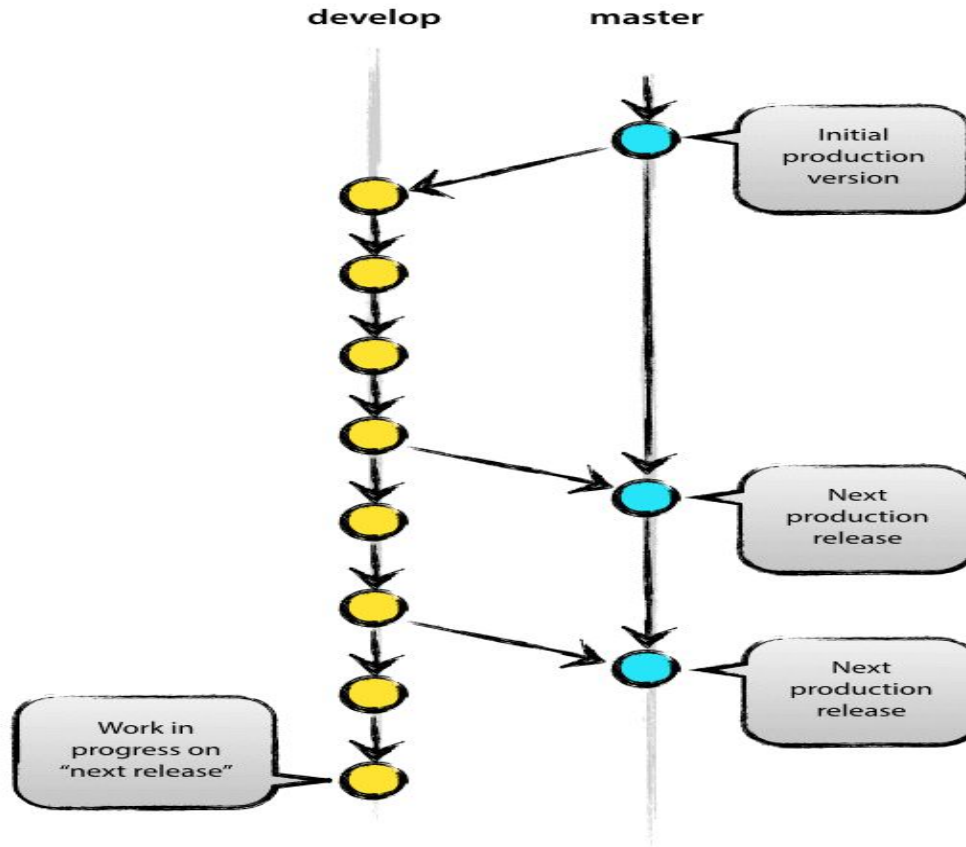
Master



Develop



Main Branches (cont'd)

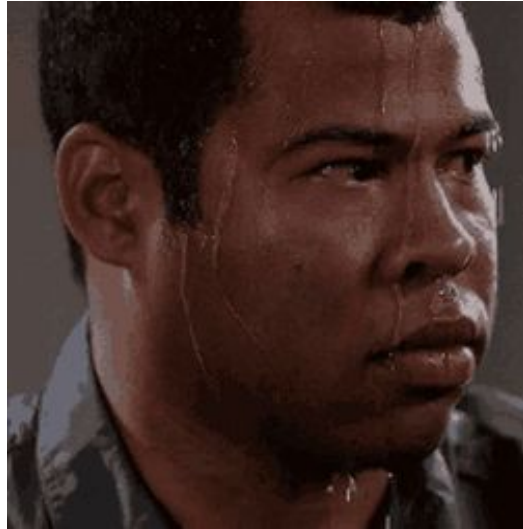


Supporting Branches

Feature



Release



Hotfix



Feature Branch

May branch off from:

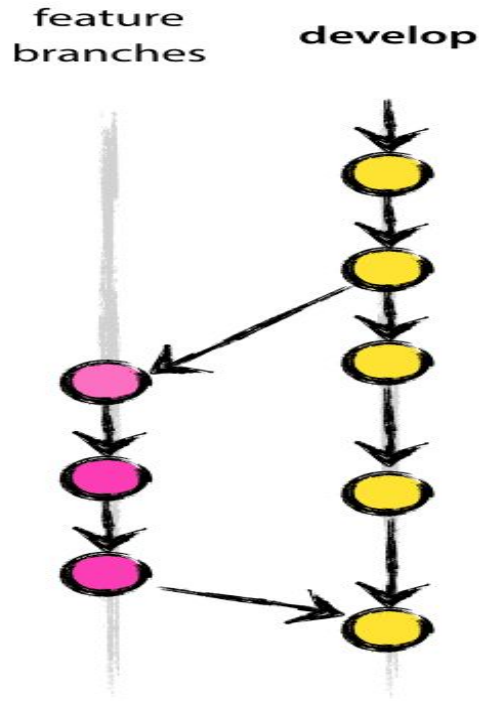
develop

Must merge back into:

develop

Branch naming convention:

anything except master, develop
release-*, or hotfix-*



Feature Branch (cont'd)

I) Creating a feature branch

```
$ git checkout -b myfeature develop
```

II) Incorporating a finished feature on develop

1.

```
$ git checkout develop
```
2.

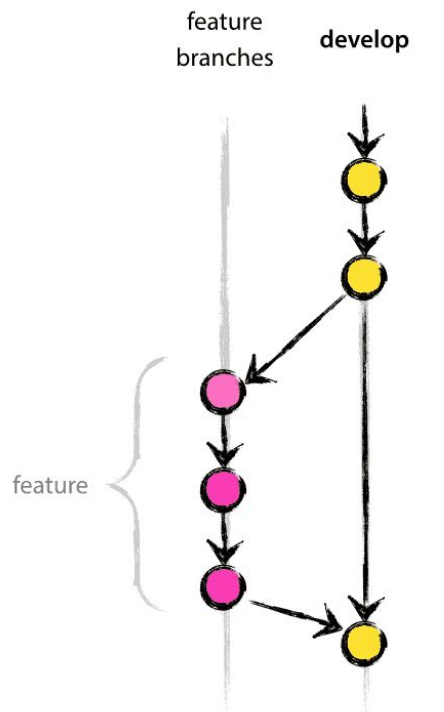
```
$ git merge --no-ff myfeature
```
3.

```
$ git branch -d myfeature
```
4.

```
$ git push origin develop
```

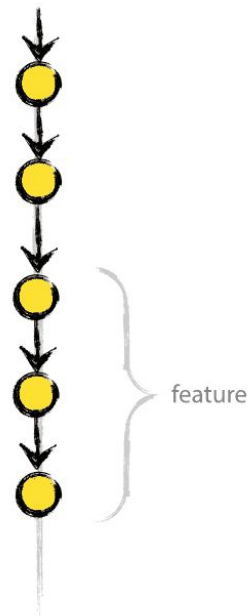


Feature branch (cont'd)



`git merge --no-ff`

develop



`git merge`
(plain)



Release Branch

May branch off from:

develop

Must merge back into:

develop and **master**

Branch naming convention:

release-*

When the code is going pretty well and ready for release.

Me:



Release Branch (cont'd)

→ Creating a release branch

1. `$ git checkout -b release-1.2 develop`

Switched to a new branch "release-1.2"

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(-)



Release Branch (cont'd)

First two steps in Git:

I. Merge to master and tag

1. `$ git checkout master`
2. `$ git merge --no-ff release-1.2`
3. `$ git tag -a 1.2`

→ Merge back into develop

1. `$ git checkout develop`
2. `$ git merge --no-ff release-1.2`



Hotfix Branch

May branch off from:

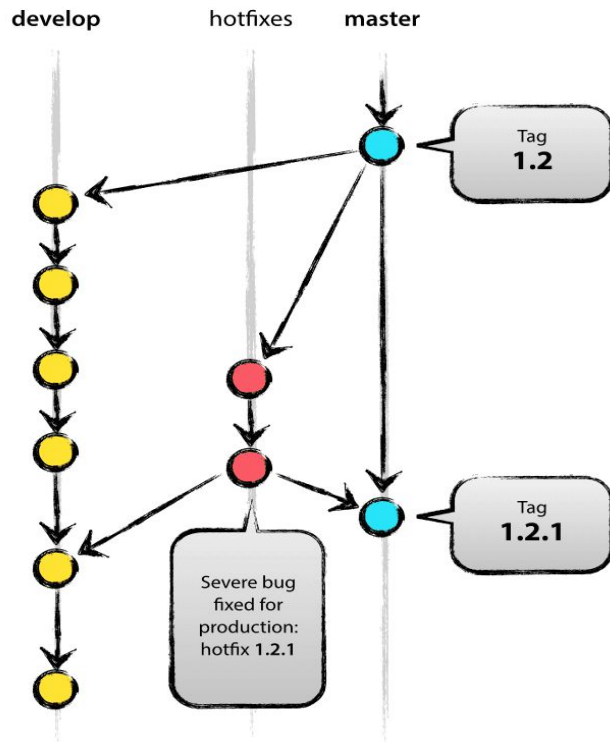
master

Must merge back into:

develop and **master**

Branch naming convention:

hotfix-*



Hotfix Branch (cont'd)

Creating the Hotfix Branch

1. `$ git checkout -b hotfix-1.2.1 master`
2. `$ git commit -a -m "Bumped version number to 1.2.1"`

Then, fix the bug and commit the fix

```
$ git commit -m "Fixed severe production problem"
```



Hotfix Branch

Finishing a hotfix branch

I. Update master and tag the release

1. `$ git checkout master`
2. `$ git merge --no-ff hotfix-1.2.1`
3. `$ git tag -a 1.2.1`

II. Included the bugfix in develop branch

1. `$ git checkout develop`
2. `$ git merge --no-ff hotfix-1.2.1`





THANK YOU!

