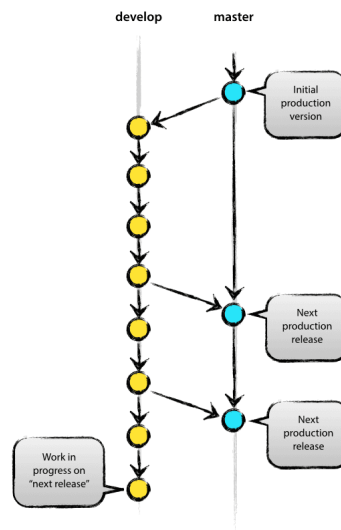# Git Flow Summary

Main branches
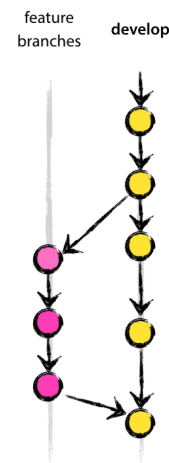
- `master` - *production-ready*
- `develop`

Supporting branches

- Feature branches
- Release branches
- Hotfix branches

Feature branches

- May branch off from: `develop`
- Must merge back into: `develop`
- Branching naming convention: anything except master, develop, release-*, or hotfix-*
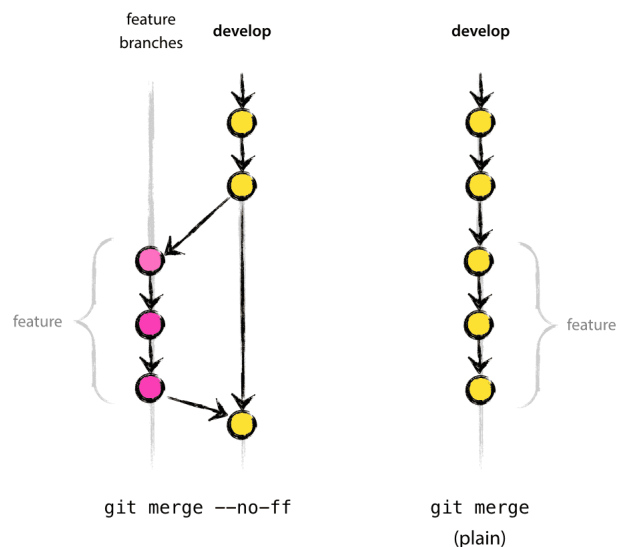
Creating a feature branch

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

Incorporating a finished feature on development

```
$ git checkout develop
$ git merge --no-ff myfeature
$ git branch -d myfeature
$ git push origin develop
```

Release branches

- May branch off from: `develop`
- Must merge back into: `develop` and `master`
- Branching naming convention: `release-*`

Creating a release branch

```
$ git checkout -b release-1.2 develop
$ ./bump-version.sh 1.2
$ git commit -a -m "Bumped version number to 1.2"
```

```
$ git checkout develop
$ git merge --no-ff release-1.2
```

```
$ git branch -d release-1.2
```

Finishing a release branch

```
$ git checkout master
$ git merge --no-ff release-1.2
$ git tag -a 1.2
```

```
$ git checkout develop
$ git merge --no-ff release-1.2
```
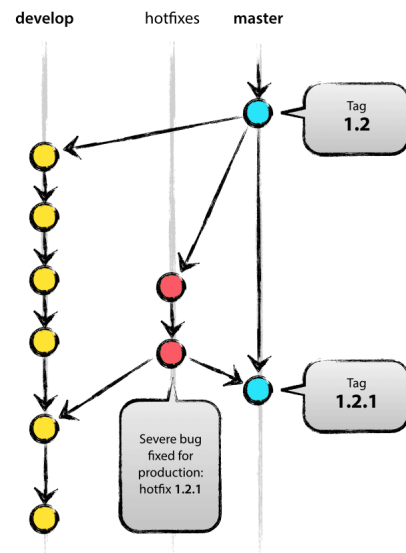
```
$ git branch -d release-1.2
```

Hotfix branches

- May branch off from: `master`
- Must merge back into: `develop` and `master`
- Branching naming convention: `hotfix-*`

Creating the hotfix branch

```
$ git checkout -b hotfix-1.2.1 master
$ ./bump-version.sh 1.2.1
$ git commit -a -m "Bumped version \
  number to 1.2.1"
```

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


Finishing a hotfix branch

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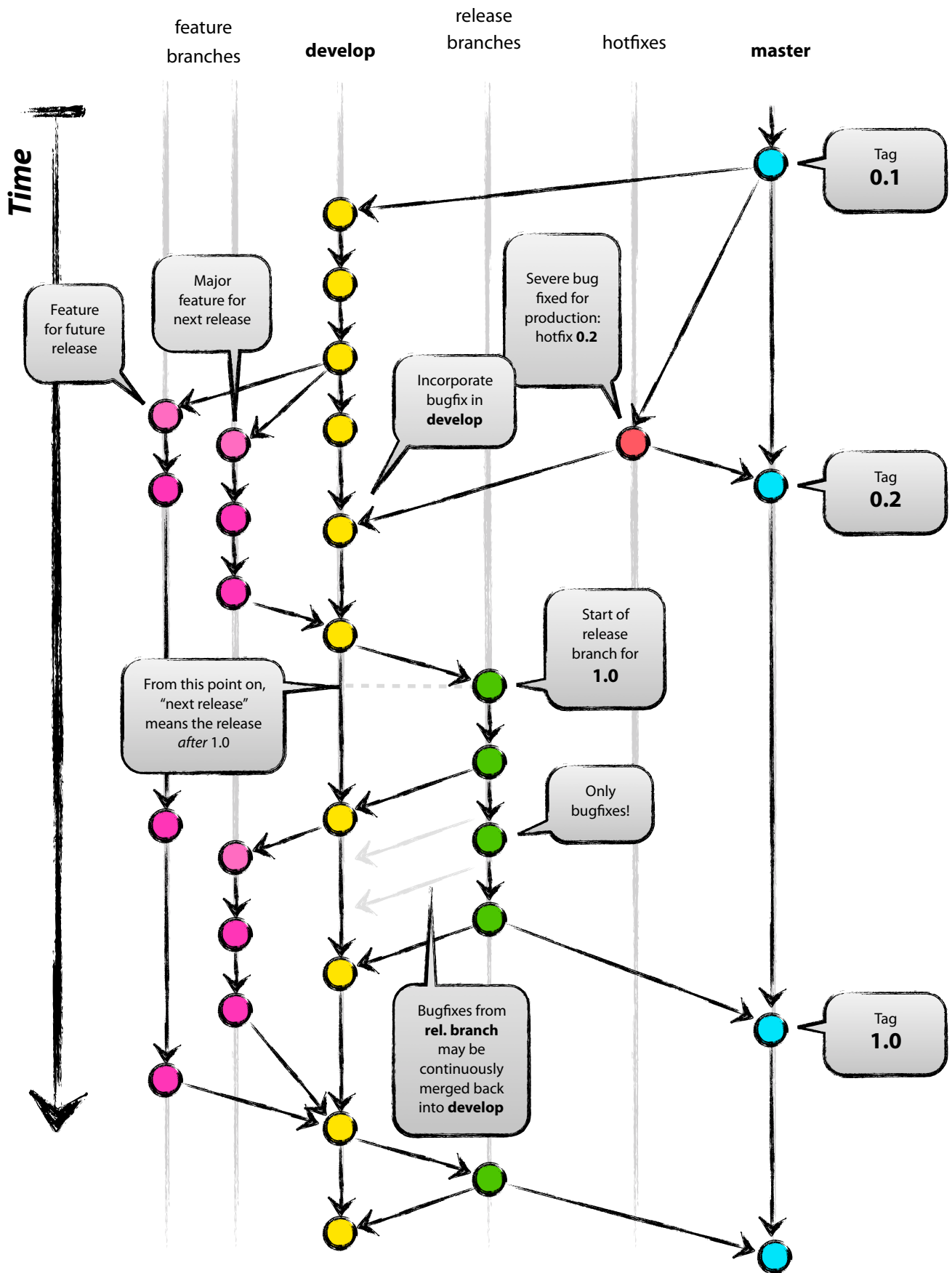
```
$ git checkout develop
$ git merge --no-ff hotfix-1.2.1
```

```
$ git branch -d hotfix-1.2.1
```

feature
branches

release
branches

develop

hotfixes

master

Time

Tag
0.1

Feature
for future
release

Major
feature for
next release

Severe bug
fixed for
production:
hotfix **0.2**

Incorporate
bugfix in
develop

Tag
0.2

Start of
release
branch for
1.0

From this point on,
"next release"
means the release
after 1.0

Only
bugfixes!

Tag
1.0

Bugfixes from
rel. branch
may be
continuously
merged back
into **develop**

Author: Vincent Driessen
Original blog post: http://nvie.com/posts/a-succesful-git-branching-model
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