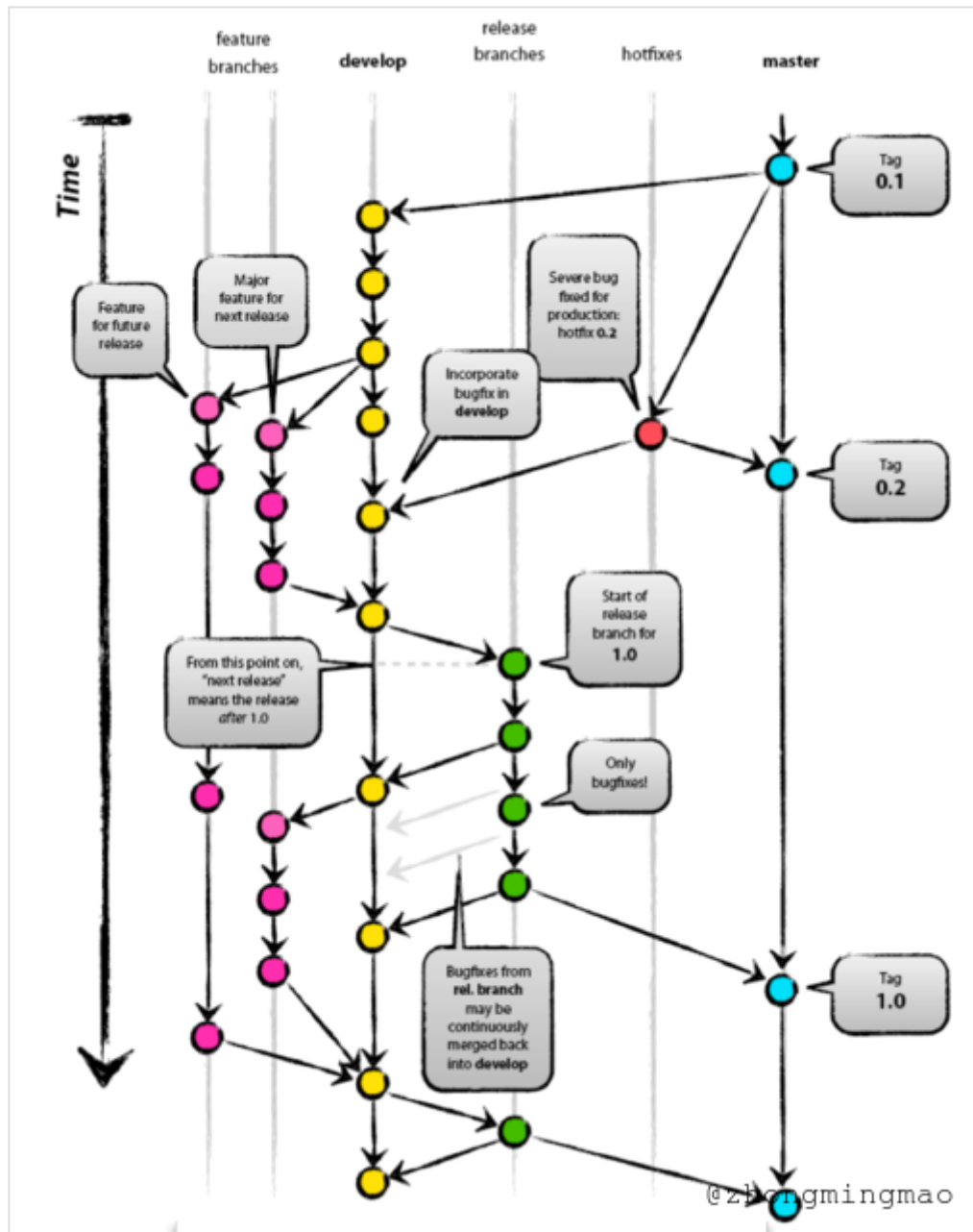


Git Flow



初始化仓库

git flow init : 初始化仓库，支持 GitFlow 分支模型

```
1  $ git clone https://github.com/hzmajia/gitflow-example.git
2  Cloning into 'gitflow-example'...
3  warning: You appear to have cloned an empty repository.
4  Checking connectivity... done.
5
6  $ cd gitflow-example && git flow init
7  No branches exist yet. Base branches must be created now.
8  Branch name for production releases: [master]
9  Branch name for "next release" development: [develop]
10 How to name your supporting branch prefixes?
11 Feature branches? [feature/]
12 Bugfix branches? [bugfix/]
13 Release branches? [release/]
14 Hotfix branches? [hotfix/]
15 Support branches? [support/]
16 Version tag prefix? []
17 Hooks and filters directory? [/home/zhongmingmao/gitflow-example/.git/hooks]
18
19 $ git branch -vv
20 * develop 378941f Initial commit
21   master  378941f [origin/master: gone] Initial commit
22
23 $ git push origin develop
24 Counting objects: 2, done.
25 Writing objects: 100% (2/2), 163 bytes | 0 bytes/s, done.
26 Total 2 (delta 0), reused 0 (delta 0)
27
28 To https://github.com/hzmajia/gitflow-example.git
29   * [new branch]    develop -> develop
30
31 $ git checkout master
```

```

30 $ git checkout master
31 Switched to branch 'master'
32 Your branch is based on 'origin/master', but the upstream is gone.
33   (use "git branch --unset-upstream" to fixup)
34
35 $ git push -u origin master
36 Total 0 (delta 0), reused 0 (delta 0)
37 To https://github.com/hzmajia/gitflow-example.git
38 * [new branch]      master -> master
39 Branch master set up to track remote branch master from origin.
40
41 $ git branch -vv
42   develop 378941f Initial commit
43 * master   378941f [origin/master] Initial commit
44
45 $ git log --oneline --decorate --graph --all
46 * 378941f (HEAD -> master, origin/master, origin/develop, develop) Initial commit

```

Feature分支

git flow feature : Feature分支列表

git flow feature start : 新建一个Feature分支

git flow publish : 将Feature分支推送到远程仓库，并设为 上游分支

git flow feature finish : 完成一个Feature分支，一般是 merge request 或 pull request 的接受者执行

```

1 $ git flow feature start featureA
2 Switched to a new branch 'feature/featureA'
3 Summary of actions:
4 - A new branch 'feature/featureA' was created, based on 'develop'
5 - You are now on branch 'feature/featureA'
6 Now, start committing on your feature. When done, use:
7   git flow feature finish featureA
8
9 $ git branch -vv

```

```
9 $ git branch -vv
10 develop      378941f Initial commit
11 * feature/featureA 378941f Initial commit
12 master       378941f [origin/master] Initial commit
13
14 $ git flow feature
15 * featureA
16
17 $ git flow publish featureA
18 Total 0 (delta 0), reused 0 (delta 0)
19
19 To https://github.com/hzmajia/gitflow-example.git
20 * [new branch]    feature/featureA -> feature/featureA
21 Branch feature/featureA set up to track remote branch feature/featureA from origin.
22 Already on 'feature/featureA'
23 Your branch is up-to-date with 'origin/feature/featureA'.
24 Summary of actions:
25 - The remote branch 'feature/featureA' was created or updated
26 - The local branch 'feature/featureA' was configured to track the remote branch
27 - You are now on branch 'feature/featureA'
28
29 $ git branch -vv
30 develop      378941f Initial commit
31 * feature/featureA 378941f [origin/feature/featureA] Initial commit
32 master       378941f [origin/master] Initial commit
33
34 $ touch featureA && git add . && git commit -m 'featureA'
35 [feature/featureA 6e6605d] featureA
36 1 file changed, 0 insertions(+), 0 deletions(-)
37 create mode 100644 featureA
38
39 $ git branch -vv
40 develop      378941f Initial commit
41 * feature/featureA 6e6605d [origin/feature/featureA: ahead 1] featureA
42 master       378941f [origin/master] Initial commit
43
```

```
44 $ git push origin feature/featureA # git flow publish featureA
45 Counting objects: 3, done.
46 Writing objects: 100% (3/3), 235 bytes | 0 bytes/s, done.
47 Total 3 (delta 0), reused 0 (delta 0)
48 To https://github.com/hzmajia/gitflow-example.git
49   378941f..6e6605d feature/featureA -> feature/featureA
50
51 $ git log --oneline --decorate --graph --all
52 * 6e6605d (HEAD -> feature/featureA, origin/feature/featureA) featureA
53 * 378941f (origin/master, origin/develop, master, develop) Initial commit
54
55 $ git flow feature finish featureA
56 Switched to branch 'develop'
57 Updating 378941f..6e6605d
58 Fast-forward
59   featureA | 0
60   1 file changed, 0 insertions(+), 0 deletions(-)
61   create mode 100644 featureA
62 To https://github.com/hzmajia/gitflow-example.git
63   - [deleted]      feature/featureA
64 Deleted branch feature/featureA (was 6e6605d).
65 Summary of actions:
66 - The feature branch 'feature/featureA' was merged into 'develop'
67 - Feature branch 'feature/featureA' has been locally deleted; it has been remotely deleted from 'origin'
68 - You are now on branch 'develop'
69
70 $ git fetch origin
71
72 $ git branch -vv
73 * develop 6e6605d featureA
74   master 378941f [origin/master] Initial commit
75
76 $ ls
77 featureA
```

Release分支

git flow release : Release分支列表

git flow release start : 新建一个Release分支

git flow publish : 将Release分支推送到远程仓库，并设为 上游分支

git flow release finish : 完成一个Release分支，一般是 merge request 或 pull request 的接受者执行

```
1  $ git flow release start releaseA
2  Branches 'develop' and 'origin/develop' have diverged.
3  And local branch 'develop' is ahead of 'origin/develop'.
4  Switched to a new branch 'release/releaseA'
5  Summary of actions:
6  - A new branch 'release/releaseA' was created, based on 'develop'
7  - You are now on branch 'release/releaseA'
8  Follow-up actions:
9  - Bump the version number now!
10 - Start committing last-minute fixes in preparing your release
11 - When done, run:
12     git flow release finish 'releaseA'
13
14 $ git push -u origin develop
15 Counting objects: 3, done.
16 Writing objects: 100% (3/3), 235 bytes | 0 bytes/s, done.
17 Total 3 (delta 0), reused 0 (delta 0)
18 To https://github.com/hzmajia/gitflow-example.git
19
20 378941f..6e6605d develop -> develop
21 Branch develop set up to track remote branch develop from origin.
22
23 $ git branch -vv
24 develop      6e6605d [origin/develop] featureA
25 master       378941f [origin/master] Initial commit
26 * release/releaseA 6e6605d featureA
```

```
26
27 $ git flow release
28 * releaseA
29
30 $ git flow publish releaseA
31 Total 0 (delta 0), reused 0 (delta 0)
32 To https://github.com/hzmajia/gitflow-example.git
33 * [new branch]    release/releaseA -> release/releaseA
34 Branch release/releaseA set up to track remote branch release/releaseA from origin.
35 Already on 'release/releaseA'
36 Your branch is up-to-date with 'origin/release/releaseA'.
37 Summary of actions:
38 - The remote branch 'release/releaseA' was created or updated
39 - The local branch 'release/releaseA' was configured to track the remote branch
40 - You are now on branch 'release/releaseA'
41
42 $ git branch -vv
43   develop      6e6605d [origin/develop] featureA
44   master       378941f [origin/master] Initial commit
45 * release/releaseA 6e6605d [origin/release/releaseA] featureA
46
47 $ touch releaseA && git add . && git commit -m 'releaseA'
48 [release/releaseA f993ec4] releaseA
49 1 file changed, 0 insertions(+), 0 deletions(-)
50 create mode 100644 releaseA
51
52 $ git flow publish releaseA # git push origin release/releaseA
53 Counting objects: 2, done.
54
55 Compressing objects: 100% (2/2), done.
56 Writing objects: 100% (2/2), 237 bytes | 0 bytes/s, done.
57 Total 2 (delta 0), reused 0 (delta 0)
58 To https://github.com/hzmajia/gitflow-example.git
59   6e6605d..f993ec4 release/releaseA -> release/releaseA
60 Branch release/releaseA set up to track remote branch release/releaseA from origin.
61 Already on 'release/releaseA'
```

```
61 Your branch is up-to-date with 'origin/release/releaseA'.
62 Summary of actions:
63 - The remote branch 'release/releaseA' was created or updated
64 - The local branch 'release/releaseA' was configured to track the remote branch
65 - You are now on branch 'release/releaseA'
66
67 $ git log --oneline --decorate --graph --all
68 * f993ec4 (HEAD -> release/releaseA, origin/release/releaseA) releaseA
69 * 6e6605d (origin/develop, develop) featureA
70 * 378941f (origin/master, master) Initial commit
71
72 $ git flow release finish releaseA
73 Switched to branch 'master'
74 Your branch is up-to-date with 'origin/master'.
75 Merge made by the 'recursive' strategy.
76 featureA | 0
77 releaseA | 0
78 2 files changed, 0 insertions(+), 0 deletions(-)
79 create mode 100644 featureA
80 create mode 100644 releaseA
81 Switched to branch 'develop'
82 Your branch is up-to-date with 'origin/develop'.
83 Merge made by the 'recursive' strategy.
84 releaseA | 0
85 1 file changed, 0 insertions(+), 0 deletions(-)
86 create mode 100644 releaseA
87 To https://github.com/hzmajia/gitflow-example.git
88 - [deleted]      release/releaseA
89
89 Deleted branch release/releaseA (was f993ec4).
90 Summary of actions:
91 - Release branch 'release/releaseA' has been merged into 'master'
92 - The release was tagged 'releaseA'
93 - Release tag 'releaseA' has been back-merged into 'develop'
94 - Release branch 'release/releaseA' has been locally deleted; it has been remotely deleted from 'origin'
95 - You are now on branch 'develop'
```



```
96
97 $ git branch -vv
98 * develop 269c207 [origin/develop: ahead 3] Merge tag 'releaseA' into develop
99   master 4944ec5 [origin/master: ahead 3] Merge branch 'release/releaseA'
100
101 $ git push origin master
102 Counting objects: 3, done.
103 Compressing objects: 100% (3/3), done.
104 Writing objects: 100% (3/3), 372 bytes | 0 bytes/s, done.
105 Total 3 (delta 1), reused 0 (delta 0)
106 remote: Resolving deltas: 100% (1/1), done.
107 To https://github.com/hzmajia/gitflow-example.git
108   378941f..4944ec5  master -> master
109
110 $ git push origin develop
111 Counting objects: 1, done.
112 Writing objects: 100% (1/1), 238 bytes | 0 bytes/s, done.
113 Total 1 (delta 0), reused 0 (delta 0)
114 To https://github.com/hzmajia/gitflow-example.git
115   6e6605d..269c207  develop -> develop
116
117 $ git branch -vv
118 * develop 269c207 [origin/develop] Merge tag 'releaseA' into develop
119   master 4944ec5 [origin/master] Merge branch 'release/releaseA'
120
121 $ ls
122 featureA releaseA
```

Hotfix分支

git flow hotfix : Hotfix分支列表

git flow hotfix start : 新建一个Hotfix分支

git flow publish : 将Hotfix分支推送到远程仓库，并设为上游分支

git flow hotfix finish : 完成一个Hotfix分支，一般是 merge request 或 pull request 的接受者执行

```
1 $ git flow hotfix start hotfixA
2 Switched to a new branch 'hotfix/hotfixA'
3 Summary of actions:
4 - A new branch 'hotfix/hotfixA' was created, based on 'master'
5 - You are now on branch 'hotfix/hotfixA'
6 Follow-up actions:
7 - Start committing your hot fixes
8 - Bump the version number now!
9 - When done, run:
10   git flow hotfix finish 'hotfixA'
11
12 $ git branch -vv
13   develop      269c207 [origin/develop] Merge tag 'releaseA' into develop
14 * hotfix/hotfixA 4944ec5 Merge branch 'release/releaseA'
15   master       4944ec5 [origin/master] Merge branch 'release/releaseA'
16
17 $ git flow hotfix
18 * hotfixA
19
20 $ git flow publish hotfixA
21 Total 0 (delta 0), reused 0 (delta 0)
22 To https://github.com/hzmajia/gitflow-example.git
23 * [new branch]   hotfix/hotfixA -> hotfix/hotfixA
24 Branch hotfix/hotfixA set up to track remote branch hotfix/hotfixA from origin.
25 Already on 'hotfix/hotfixA'
26 Your branch is up-to-date with 'origin/hotfix/hotfixA'.
27 Summary of actions:
28 - The remote branch 'hotfix/hotfixA' was created or updated
29 - The local branch 'hotfix/hotfixA' was configured to track the remote branch
30 - You are now on branch 'hotfix/hotfixA'
31
32 $ git branch -vv
33   develop      269c207 [origin/develop] Merge tag 'releaseA' into develop
34 * hotfix/hotfixA 4944ec5 [origin/hotfix/hotfixA] Merge branch 'release/releaseA'
35   master       4944ec5 [origin/master] Merge branch 'release/releaseA'
```

```
36 $ touch hotfixA && git add . && git commit -m 'hotfixA'
37 [hotfix/hotfixA e17d475] hotfixA
38 1 file changed, 0 insertions(+), 0 deletions(-)
39 create mode 100644 hotfixA
40
41 $ git flow publish hotfixA
42 Counting objects: 2, done.
43 Compressing objects: 100% (2/2), done.
44 Writing objects: 100% (2/2), 249 bytes | 0 bytes/s, done.
45 Total 2 (delta 0), reused 0 (delta 0)
46 To https://github.com/hzmajia/gitflow-example.git
47 4944ec5..e17d475 hotfix/hotfixA -> hotfix/hotfixA
48 Branch hotfix/hotfixA set up to track remote branch hotfix/hotfixA from origin.
49 Already on 'hotfix/hotfixA'
50 Your branch is up-to-date with 'origin/hotfix/hotfixA'.
51 Summary of actions:
52 - The remote branch 'hotfix/hotfixA' was created or updated
53 - The local branch 'hotfix/hotfixA' was configured to track the remote branch
54 - You are now on branch 'hotfix/hotfixA'
55
56 $ git log --oneline --decorate --graph --all
57 * e17d475 (HEAD -> hotfix/hotfixA, origin/hotfix/hotfixA) hotfixA
58 | * 269c207 (origin/develop, develop) Merge tag 'releaseA' into develop
59 | |
60 | |
61 | |
62 * | 4944ec5 (tag: releaseA, origin/master, master) Merge branch 'release/releaseA'
63 | \
64 | * | f993ec4 releaseA
65 | |
66 | * 6e6605d featureA
67 | /
68 * 378941f Initial commit
69
70 $ git flow hotfix finish hotfixA
```

```
70 $ git flow hotfix finish hotfixA
71 Switched to branch 'master'
72 Your branch is up-to-date with 'origin/master'.
73 Merge made by the 'recursive' strategy.
74 hotfixA | 0
75 1 file changed, 0 insertions(+), 0 deletions(-)
76 create mode 100644 hotfixA
77 Switched to branch 'develop'
78 Your branch is up-to-date with 'origin/develop'.
79 Merge made by the 'recursive' strategy.
80 hotfixA | 0
81 1 file changed, 0 insertions(+), 0 deletions(-)
82 create mode 100644 hotfixA
83 To https://github.com/hzmajia/gitflow-example.git
84 - [deleted] hotfix/hotfixA
85 Deleted branch hotfix/hotfixA (was e17d475).
86 Summary of actions:
87 - Hotfix branch 'hotfix/hotfixA' has been merged into 'master'
88 - The hotfix was tagged 'hotfixA'
89 - Hotfix tag 'hotfixA' has been back-merged into 'develop'
90 - Hotfix branch 'hotfix/hotfixA' has been locally deleted; it has been remotely deleted from 'origin'
91 - You are now on branch 'develop'
92
93 $ git branch -vv
94 * develop c293bc1 [origin/develop: ahead 3] Merge tag 'hotfixA' into develop
95 master 87bca9d [origin/master: ahead 2] Merge branch 'hotfix/hotfixA'
96
97 $ git push origin master
98 Counting objects: 3, done.
99 Compressing objects: 100% (3/3), done.
100 Writing objects: 100% (3/3), 338 bytes | 0 bytes/s, done.
101 Total 3 (delta 1), reused 0 (delta 0)
102 remote: Resolving deltas: 100% (1/1), done.
103 To https://github.com/hzmajia/gitflow-example.git
104 4944ec5..87bca9d master -> master
105
```

```
105
106 $ git push origin master
107 Counting objects: 1, done.
108 Writing objects: 100% (1/1), 238 bytes | 0 bytes/s, done.
109 Total 1 (delta 0), reused 0 (delta 0)
110 To https://github.com/hzmajia/gitflow-example.git
111 269c207..c293bc1 develop -> develop
112
113 $ git log --oneline --decorate --graph --all
114 * c293bc1 (HEAD -> develop, origin/develop) Merge tag 'hotfixA' into develop
115 |\
116 | * 87bca9d (tag: hotfixA, origin/master, master) Merge branch 'hotfix/hotfixA'
117 | |\
118 | | * e17d475 hotfixA
119 | | /
120 * | 269c207 Merge tag 'releaseA' into develop
121 |\
122 | /
123 | * 4944ec5 (tag: releaseA) Merge branch 'release/releaseA'
124 | |\
125 | | * f993ec4 releaseA
126 | | /
127 | /
128 * | 6e6605d featureA
129 | /
130 * 378941f Initial commit
131
```