



Team Workflows Workshop

Agenda



- 3 basic ways to contribute to a repo
- Releases vs. Continuous Delivery
- The adhoc workflow
- Basic centralized workflow for releases
- Basic centralized workflow for CD
- Modern Open Source workflow (aka GitHub Flow)
- Git Flow

Disclaimer



Nothing about

- working with remotes
- rebase vs merge



3 basic ways to contribute to a repo

- Pushing
- Pulling
- Patching



Releases vs. Continuous Delivery

- Releases
- Continuous Delivery (CD)



The adhoc workflow

- Shared repository (Centralized)
- Each team member pushes to master
- Deploy master





Basic centralized workflow for releases

- Shared Repo
- master for dev
- Feature branches for features
- Stabilize master for release
- Tag releases
- Bug fixes for releases in branches



Basic centralized Workflow for CD

- master is always ready to deploy
- Feature branches for features, bug fixes
- Merged commit => production!
- staging



Modern Open Source workflow

- One central repo (releases, committers)
- Forks
- Pull requests
- Code review via pull requests
- Committers accept pull requests



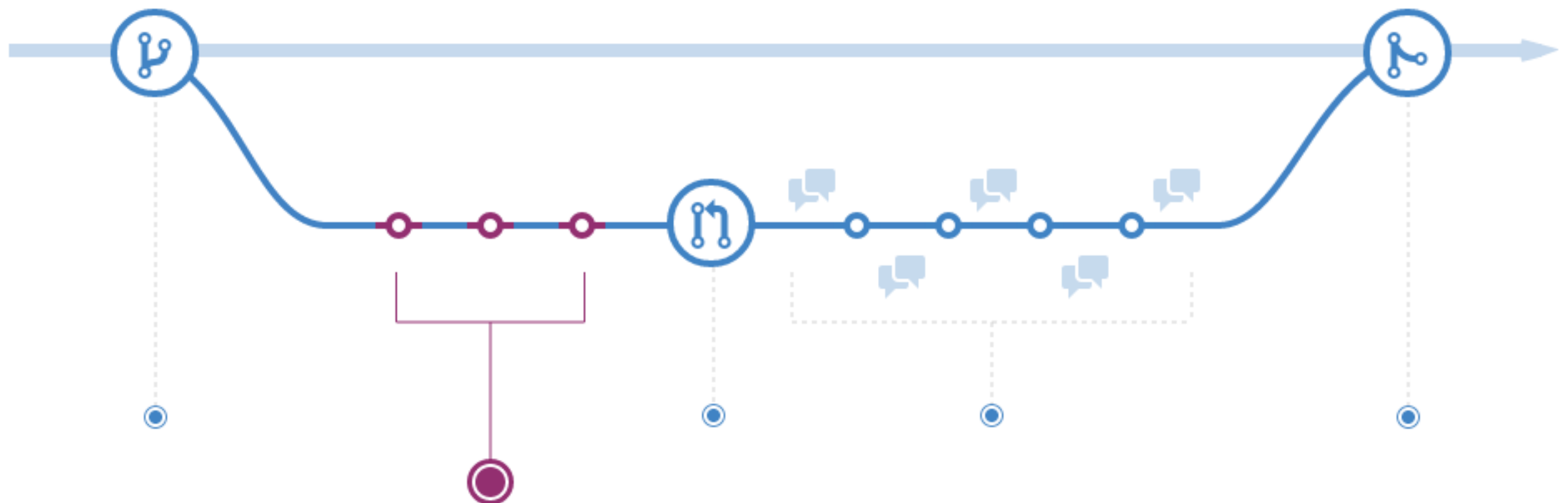
Modern Open Source workflow

1. Fork



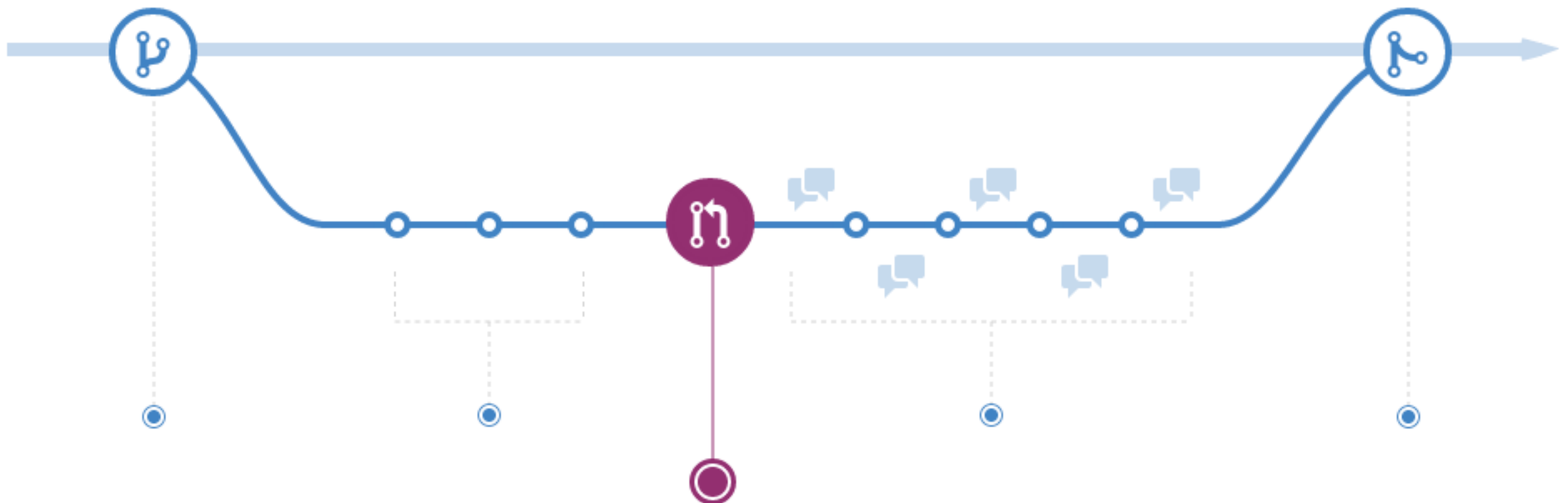
Modern Open Source workflow

2. Commit/push on the fork



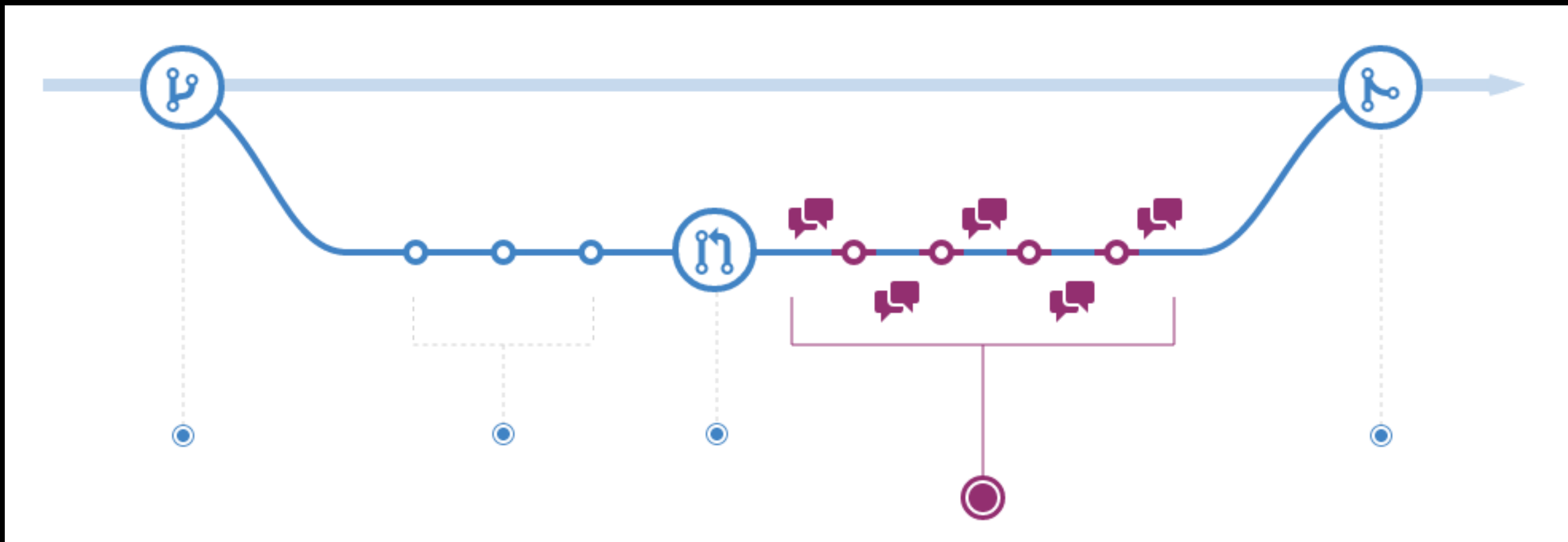
Modern Open Source workflow

3. Send pull request



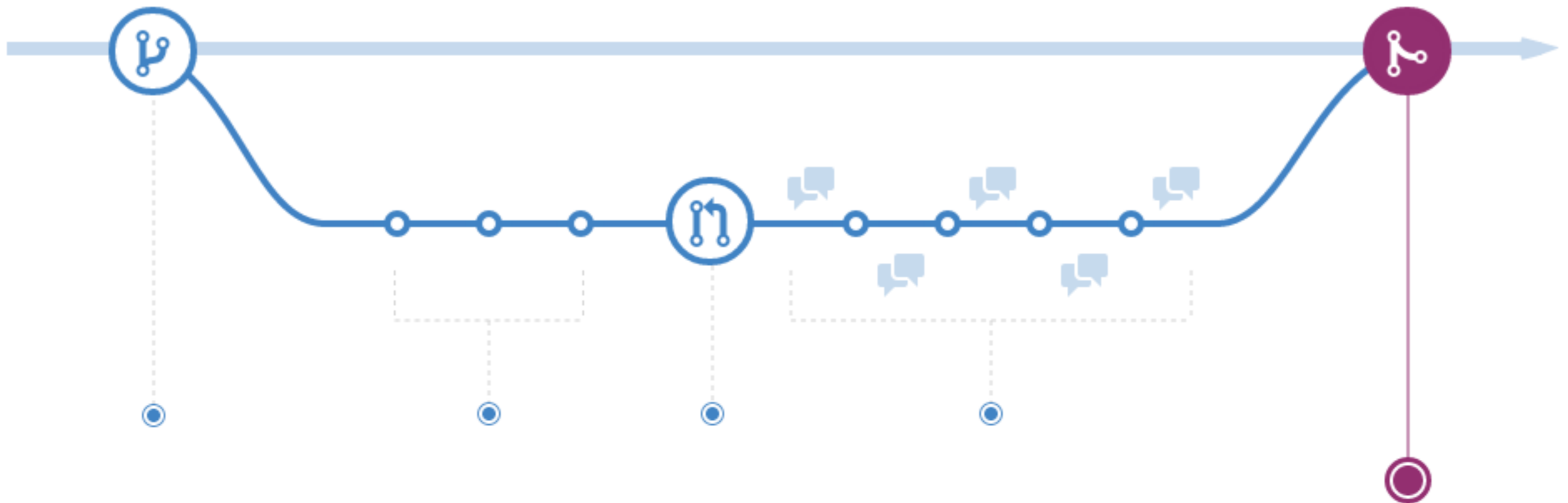
Modern Open Source workflow

4. Discuss pull request: Questions, code review



Modern Open Source workflow

5. Committer merges pull request





Modern Open Source workflow

Try it yourself!

<https://github.com/stefanwille/flexbuzz>



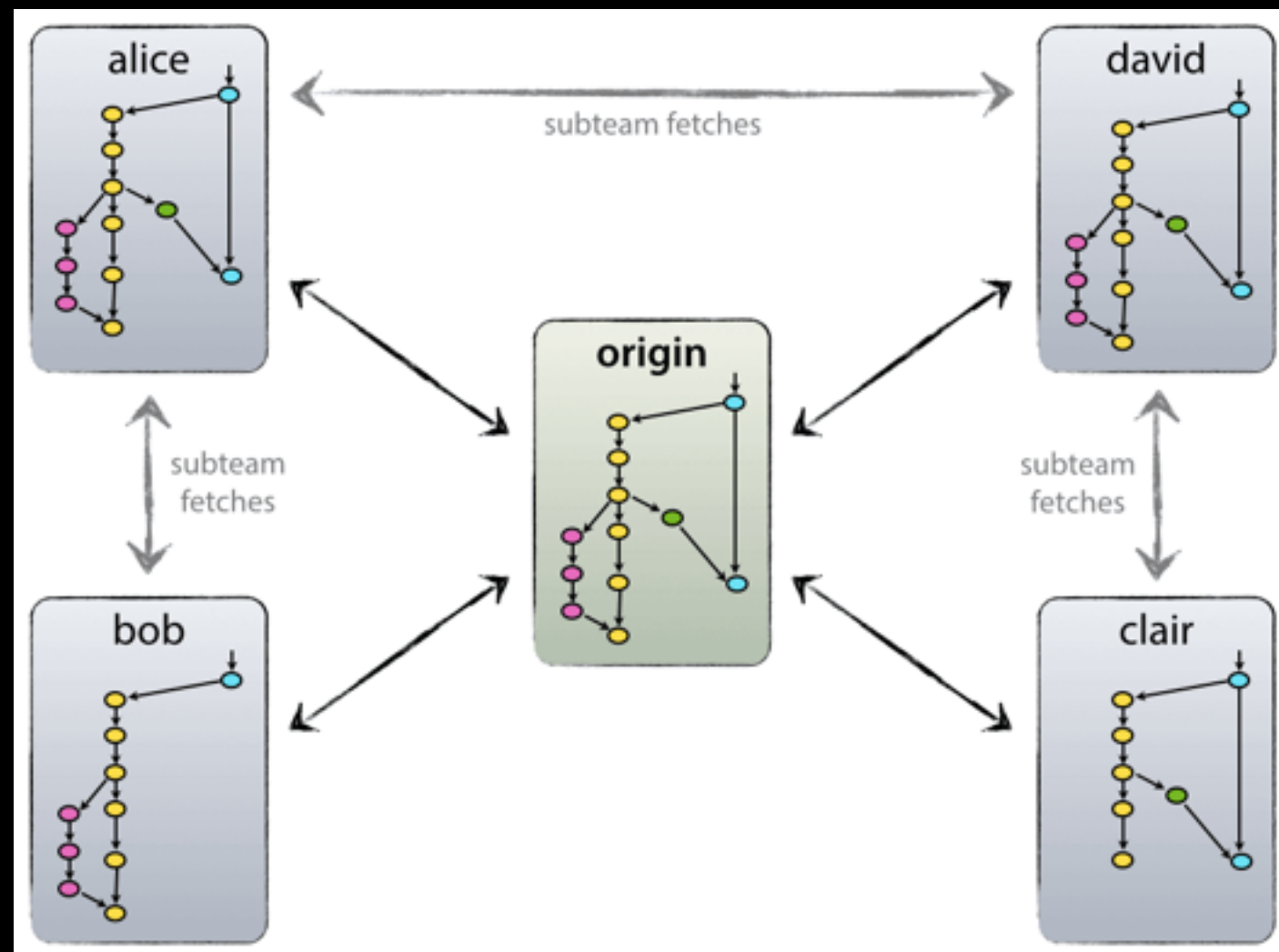


Git Flow

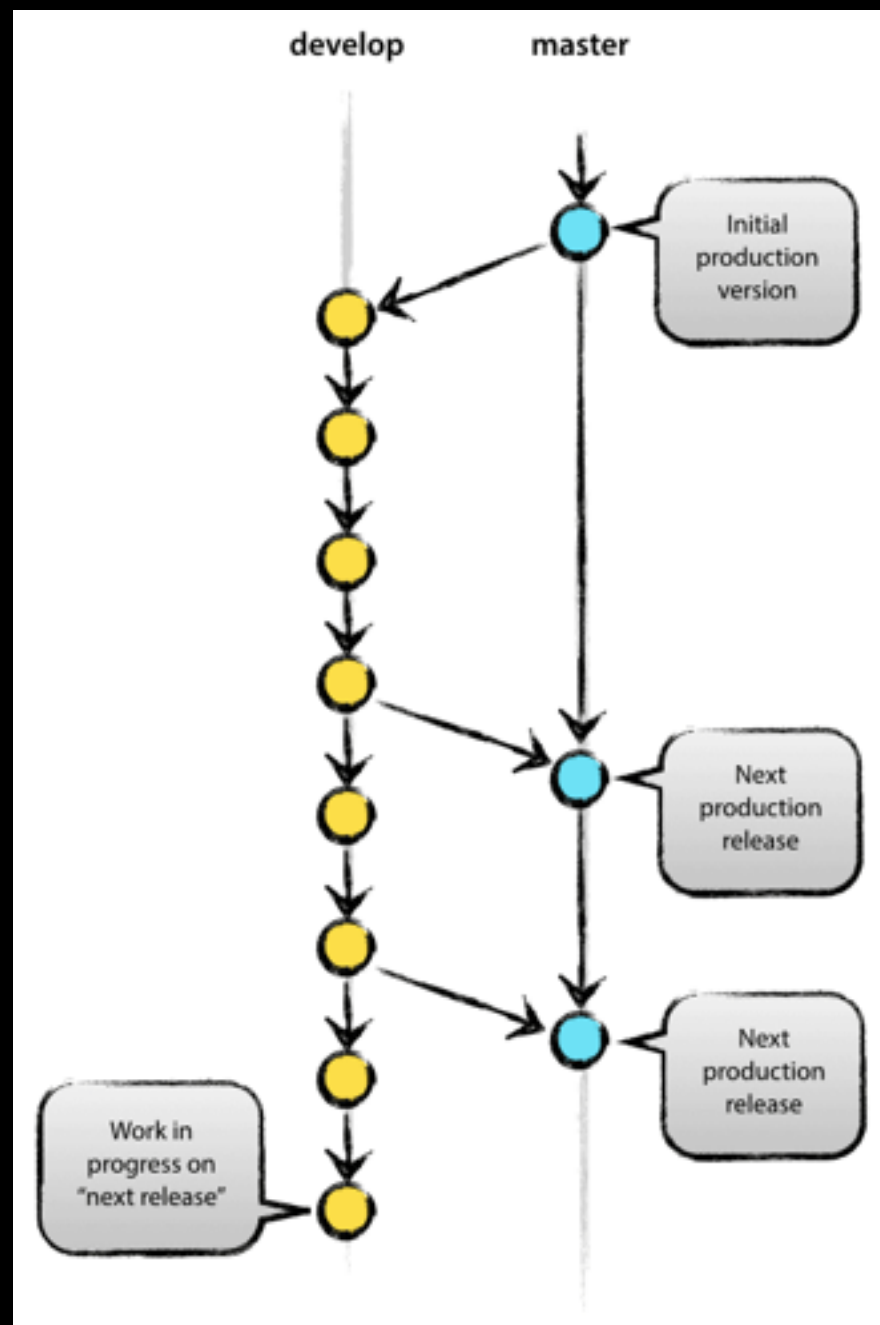
- Release oriented
- Central repo for releases: origin
- Developers have their own forks
- Subteams through pulling from peers

Git Flow

Subteams



Git Flow



develop vs master



Git Flow

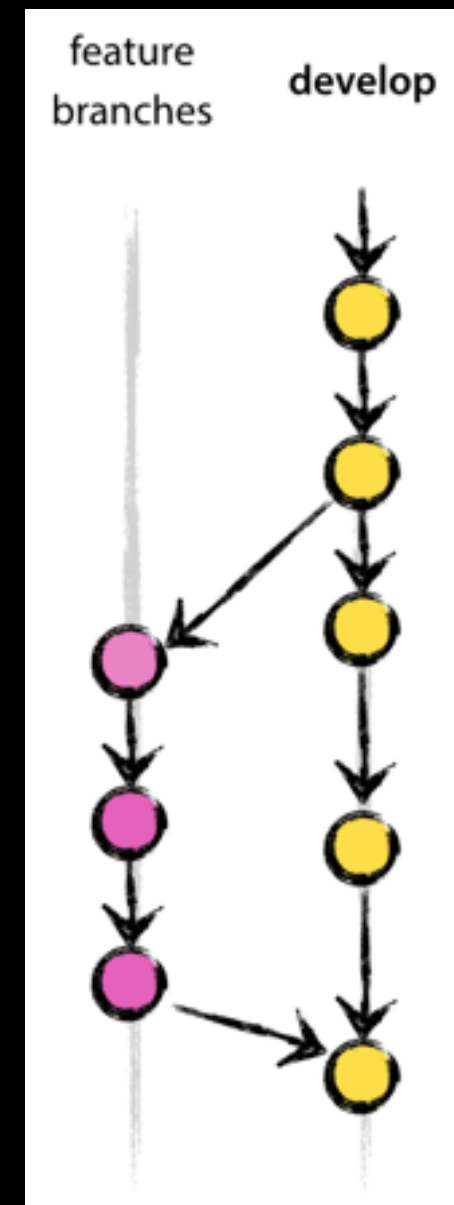
Three types of other branches:

- Feature branch
- Release branch
- Hot fix branch



Git Flow

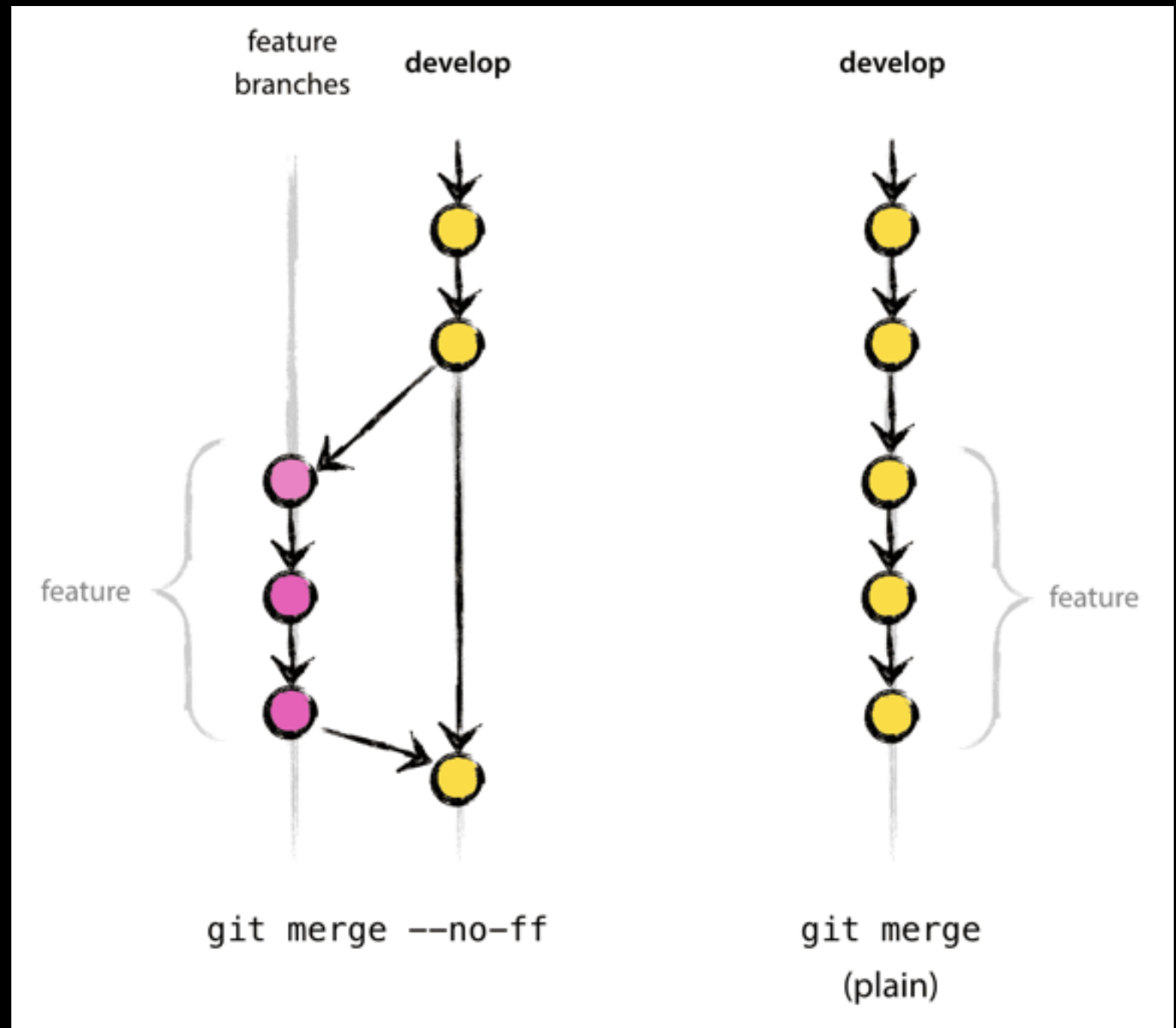
Feature branches





Git Flow

merge with `--no-ff`





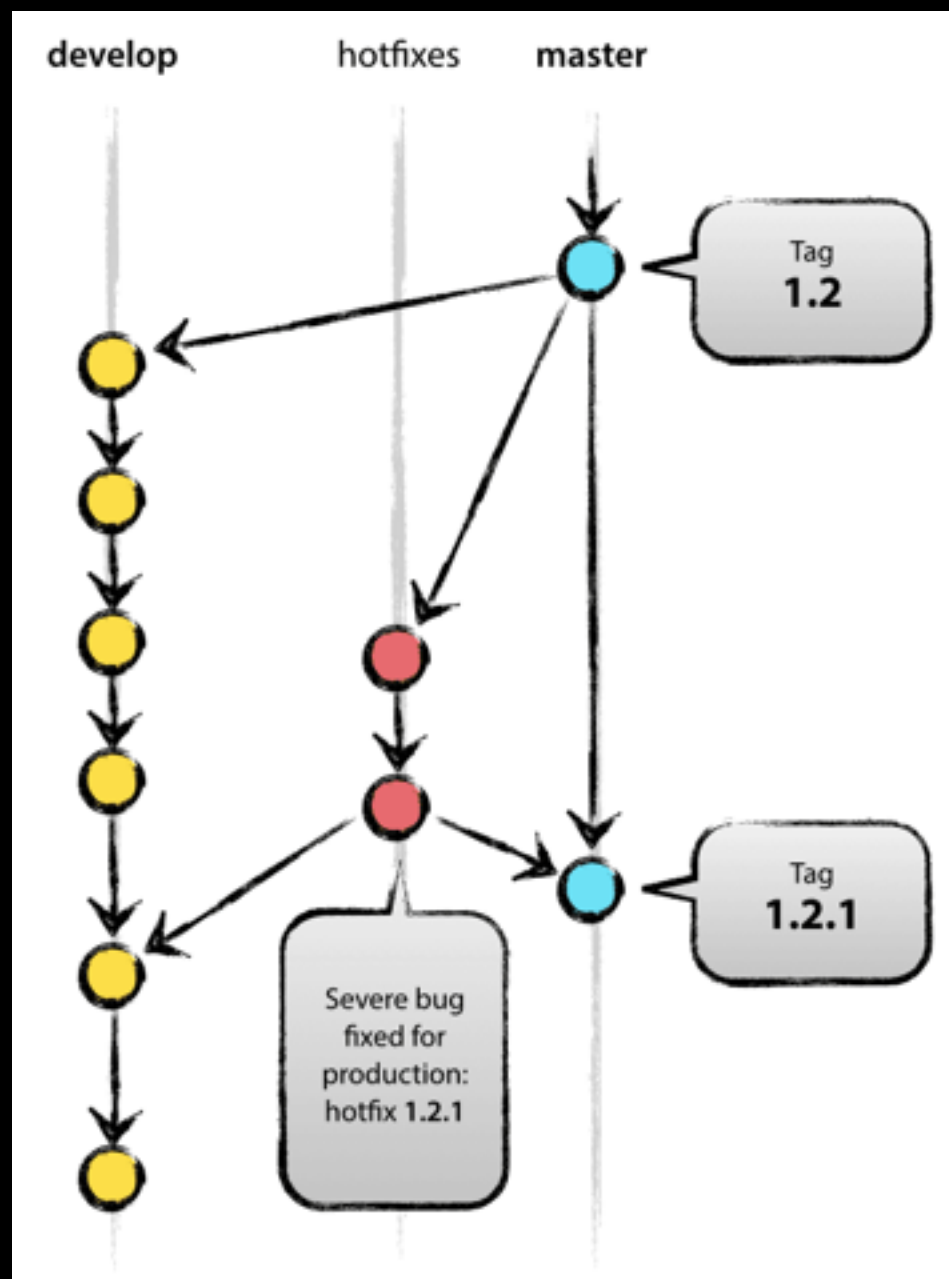
Git Flow

Release branches

- For preparing a release. Frees develop branch for development of following release.
- Branch off develop
- Merge into develop and master
- Naming convention: release-*



Git Flow



Hotfix branches



Questions?





Thanks!

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