

Devops Workflow

lesson #lesson02b

James L. Parry
B.C. Institute of Technology

Lesson Goals

This short lesson introduces some project workflow techniques.

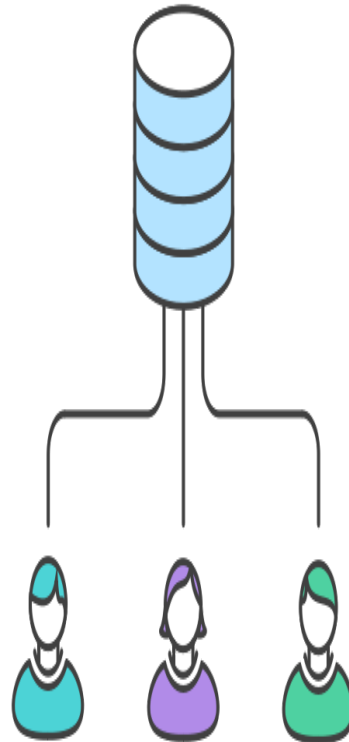
[Atlassian](#) has some great tutorials, and I am using some of their images here.

Github itself has some handy guides, on the [GitHub Flow](#), for instance, and on [forking projects](#).

Centralized Workflow

With a centralized workflow, all the developers on a project share a central repository.

They clone the repository locally, but they all publish changes to the shared repository.

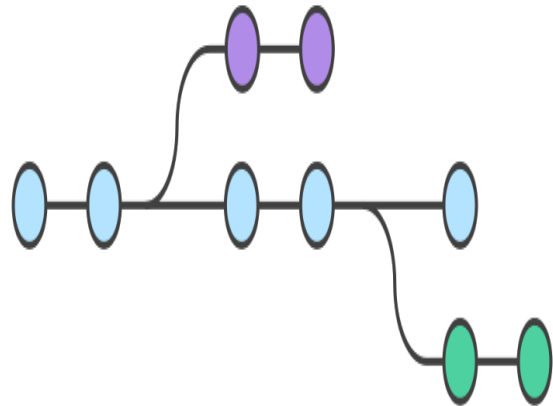


Branching Workflow

Following a branching workflow means that all feature development takes place in dedicated branches, other than "master".

Once a feature is complete, its branch would then be merged into the "master" branch.

Fixing an issue is considered a mini-feature, and would be handled in its own (short-lived) branch.

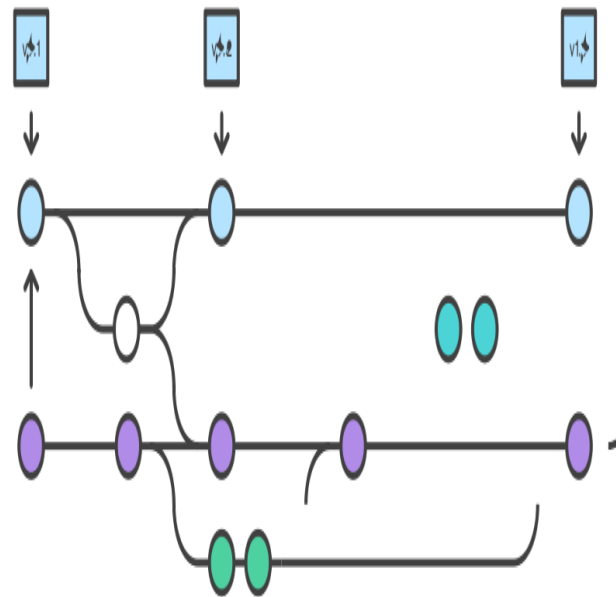


Gitflow Workflow

Gitflow workflow is a strict branching model convention.

You have two main branches, "master" and "develop". The "master" branch is always release-ready, and is usually tagged with a release version number.

All development is done on the "develop" branch, which is merged into the "master" branch to form a new release.

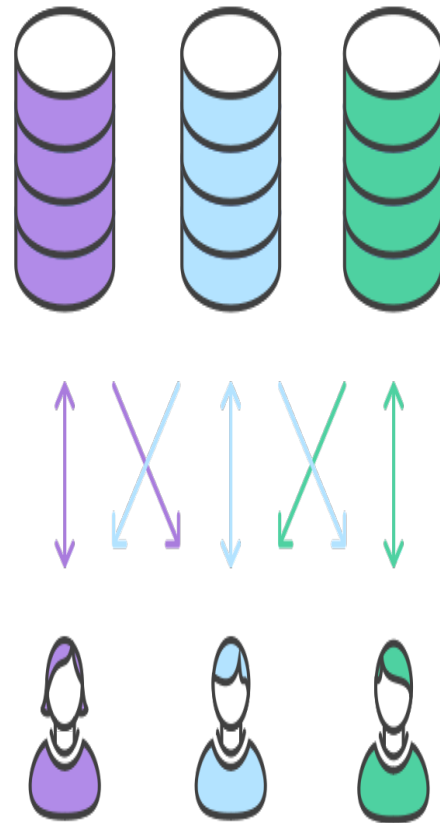


Forking Workflow

With the forking workflow, there is a main repository, and each developer "forks" it to make their own server-side repository, which is then cloned locally.

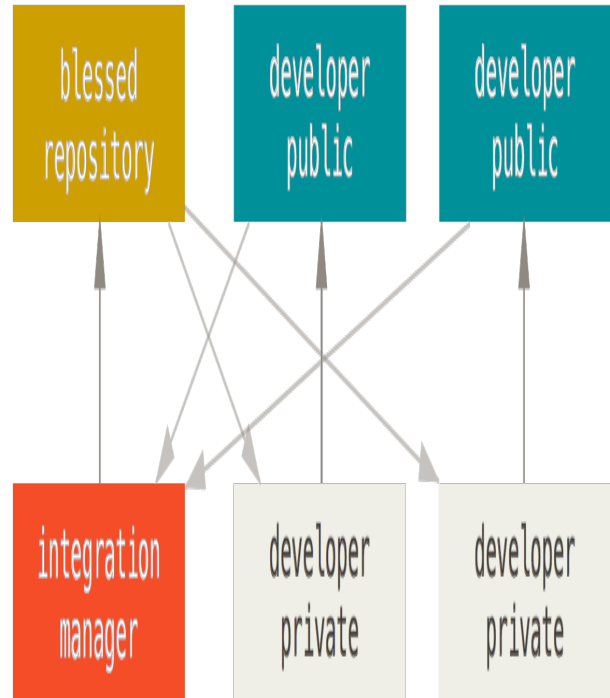
Developers push code changes to their own repository, and trigger a pull request when they are ready to merge their changes into the official repository.

Only the maintainer of the official repository can update it.



Github Workflow

1. Fork a github project
2. Clone your fork locally
3. Create a topic branch
4. Commit changes to your branch
5. Push your changes to your fork
6. Send a pull request to the original project



Congratulations!

You have completed lesson #lesson02b: Devops Workflow

If you would take a minute to [provide some feedback](#), we would appreciate it!

The next activity in sequence is: [tutorial02a](#) Working With a Shared Repository

You can use your browser's back button to return to the page you were on before starting this activity, or you can jump directly to the course [homepage](#), [organizer](#), or [reference](#) page.