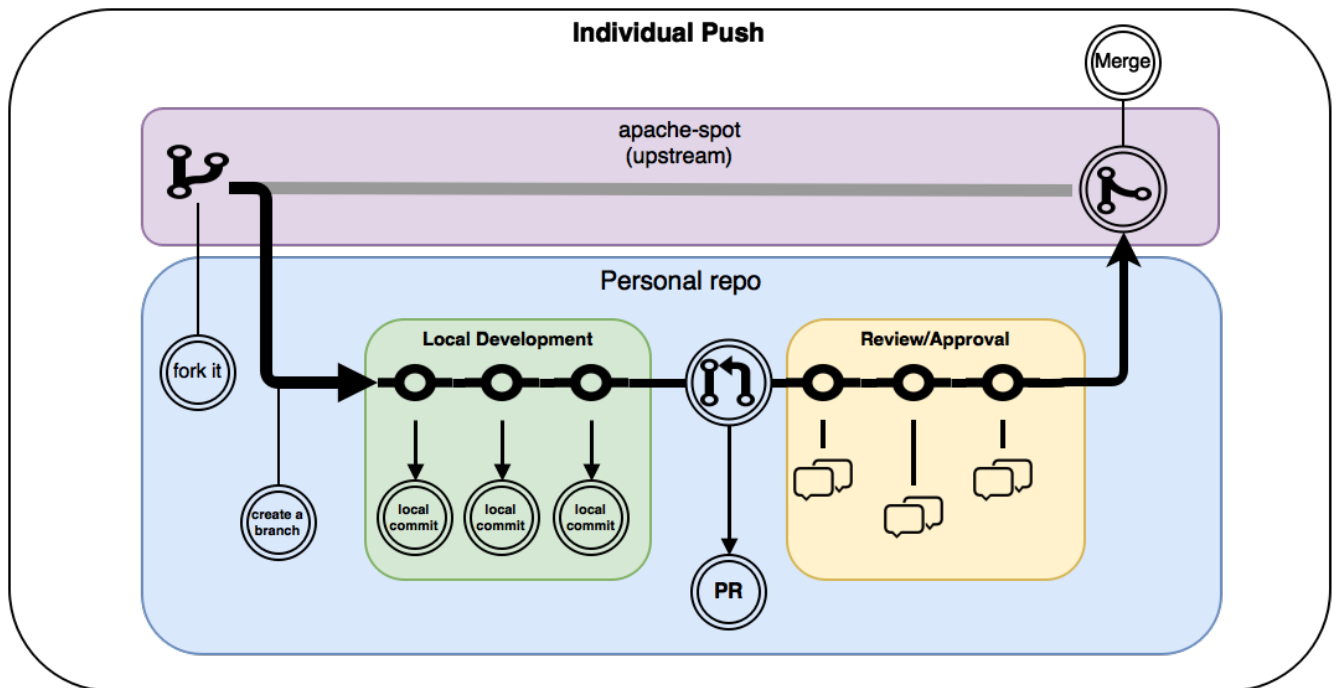# Proposed Apache-Spot (incubating) commit workflow

NOTE: Most of this guide is based on ASF Documentation.

This guide is meant to provide a workflow for committers of Apache Spot. The proposed workflow is for using git with apache-spot codebase.

Depending the nature of the change two different approaches can be used to commit to Apache Spot: **Individual Push** or **Topic Branching**.

Individual Push (most commonly used by the community):

Steps:

1. Fork the GitHub repository at https://github.com/apache/incubator-spot if you haven't already. For more information about Fork please go to: https://help.github.com/articles/fork-a-repo/
2. Clone your fork, create a new branch named after a Jira issue (i.e. **spot-100**).
3. Push commits to your local branch.
4. Test it!!!!
5. Create a pull request (PR) against the upstream repo (master) of apache-spot. For more information about how to create a pull request please go to: https://help.github.com/articles/about-pull-requests/.
6. Wait for the maintainers to review your PR.

Topic Branching (upstream)

What are a topic branches?

> According to the git definition: "*A topic branch is a short-lived branch that you create and use for a single particular feature or related work.*"
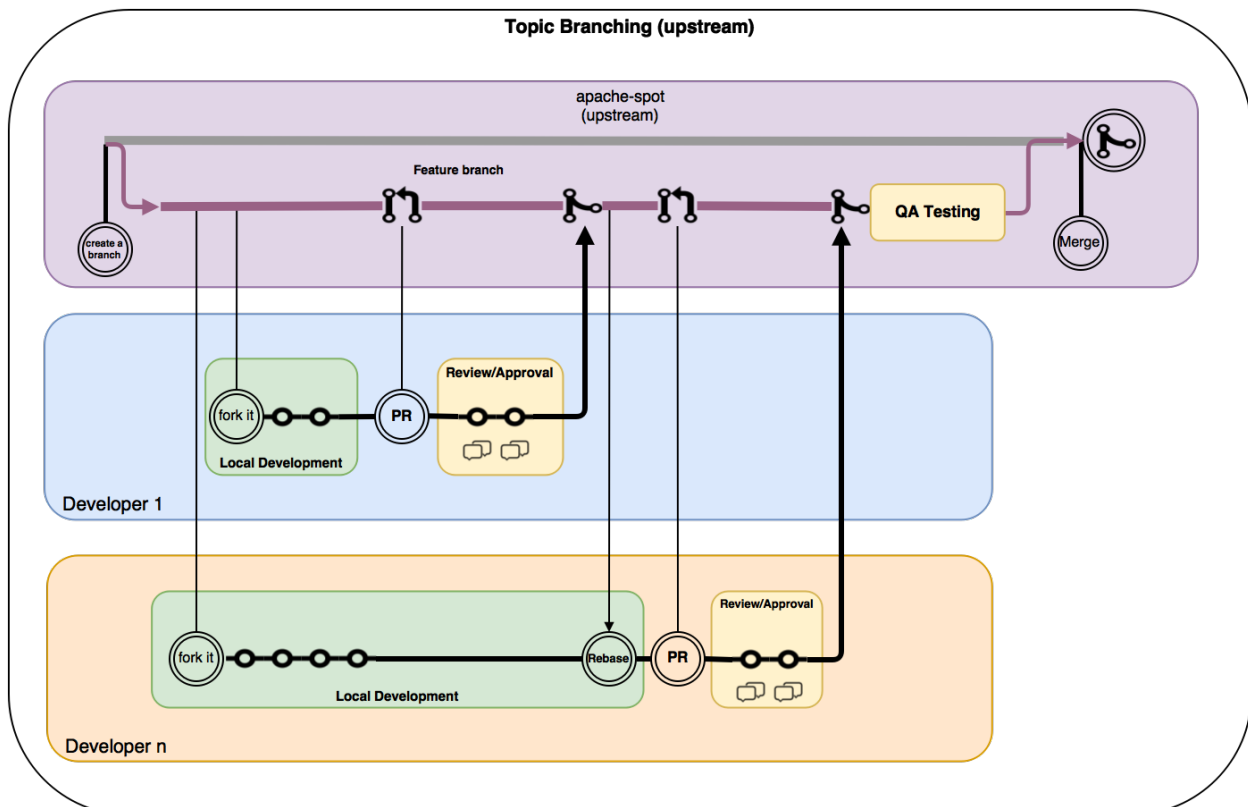> (https://git-scm.com/book/en/v2/Git-Branching-Branching-Workflows#Topic-Branches)

Sometimes a new major feature will have dependencies between modules or developers that can't be separated into individual pushes, when this happen a topic branch will be created to deliver the complete functionality before the merge with the upstream (encapsulated dev environment).

In order to create a topic branch three requirements are needed:

1. A design document must be uploaded using a Jira. This design must be approved by the maintainers.

2. A voting process will be required to approve the topic branch creation, at least 3 maintainers needs to approve it.

3. A commitment to delete the branch after merging it into the upstream branch must be done. The topic branch should only exist while the work is still in progress.

A meaningful name must be given to the branch. It is recommended to use JIRA issue created with the design document to link the branch.

IMPORTANT: There shouldn't be a push without a Jira created previously

Approvals and Voting process:

For code-modification votes, +1 votes are in favour of the proposal, but -1 votes are [vetos](#) and kill the proposal dead until all vetoers withdraw their -1 votes.

Unless a vote has been declared as using [lazy consensus](#) , three +1 votes are required for a code-modification proposal to pass.

Whole numbers are recommended for this type of vote, as the opinion being expressed is Boolean: 'I approve/do not approve of this change.'

Source: https://www.apache.org/foundation/voting.html

Useful links:

- https://www.apache.org/foundation/glossary.html
- [http://www.apache.org/dev/ - committers](http://www.apache.org/dev/)
- http://www.apache.org/dev/git.html
- http://www.apache.org/dev/writable-git