

# git-sync

## Description

`git-sync` is used for syncing a [personal fork](#) with the upstream repository the personal fork was created from. Syncing here means updating all the branches in the personal fork that are also present in the upstream repository. `git-sync` will by default only update the branches in the remote repository for your personal fork (i.e. your local repository on disk will remain unchanged). `git-sync` can sync both the personal fork *and* a local repository of the personal fork, see the [Examples](#) section that involves the flags `--ff` and `--pull`.

`git-sync` uses multiple strategies to figure out the repository to sync from (i.e. the repository the personal fork was created from):

- If the `--from` option is defined via either configuration or command-line
- If a remote named `upstream` is present for the repository
- If it can connect via REST HTTP APIs for the current forge

The repository to sync to will by default be the repository that the remote named "origin" refers to.

## Usage

```
$ git sync -h
usage: git sync [options]
      --from REMOTE      Fetch changes from this remote
      --to REMOTE       Push changes to this remote
      --branches BRANCHES Comma separated list of branches to sync
  -u, --username NAME   Username on forge
      --pull            Pull current branch from origin after successful sync
  -ff, --fast-forward   Fast forward all local branches where possible
      --verbose        Turn on verbose output
      --debug          Turn on debugging output
  -v, --version        Print the version of this tool
  -h, --help           Show this help text
```

## Examples

Sync a personal fork and explicitly set both the from and to repository:

```
$ git sync --from https://github.com/openjdk/jdk --to git@github.com:edvld/jdk.git
```

Add a remote named "upstream" and rely on `git-sync` to by default pick up the remote named "origin" for the to option:

```
$ git remote add upstream https://github.com/openjdk/jdk
$ git sync
```

Sync a personal fork (relying on "upstream" and "origin" remotes being present) and also pull the latest changes for current active branch from your personal fork:

```
$ git sync --pull
```

Sync a personal fork (relying on "upstream" and "origin" remotes being present) and also [fast-forward](#) *all* branches in the local repository:

```
$ git sync -ff
```

## Configuration

All options to `git-sync` can be configured via `git-config`. For example, to make `git-sync` always [fast-forward](#) all branches in the local repository when syncing, set `sync.fast-forward` to `true`:

```
$ git config --global sync.fast-forward true
```

## Source

See [GitSync.java](#).