

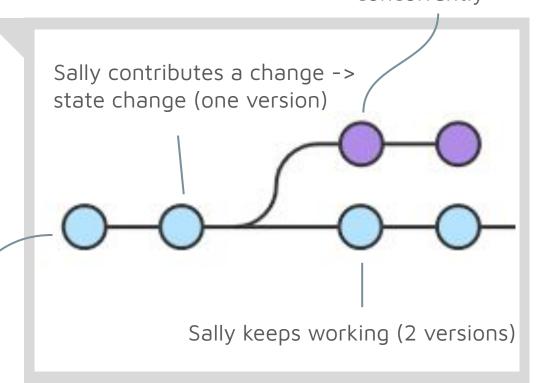
What is Git?

- Version control software
- Tracks changes in any set of files
- Takes snapshots of your project state
- Widely used in industry/classes
- GitHub is a cloud-based web platform that uses Git collaboratively

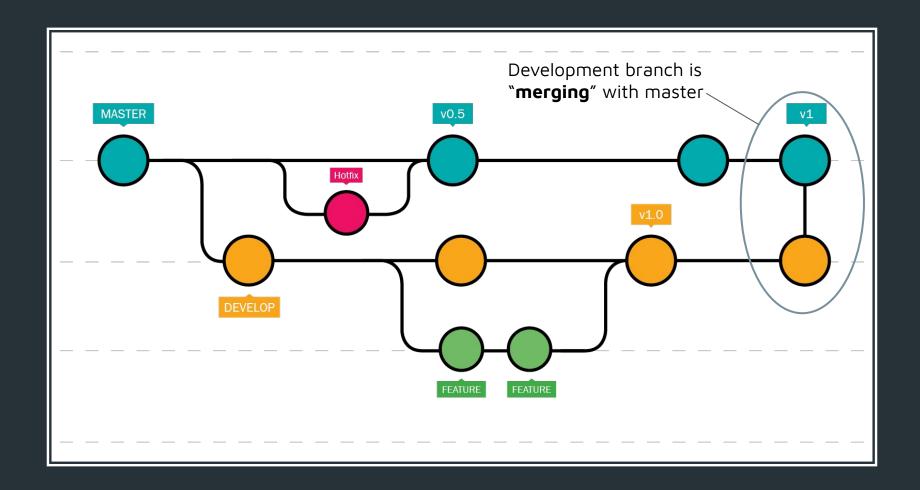
Jill adds a feature concurrently

Git's Branching Model

This is your initial project state (one version)



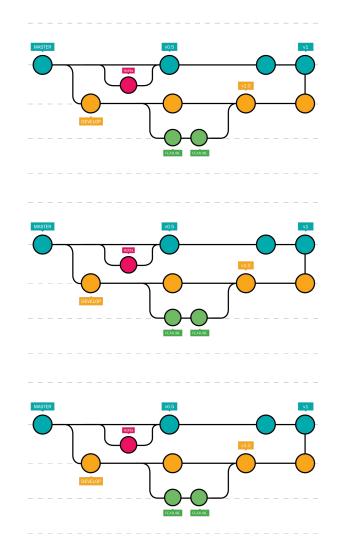
And now, some terminology



Now consider a more complicated example

The fork model: the project files exist in three places

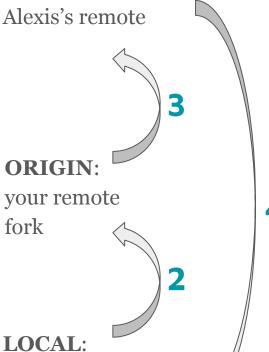
- Original remote project hosted by GitHub (UPSTREAM)
- Your remote fork (copy) of the project hosted by GitHub (**ORIGIN**)
- Your local version of your fork on your personal machine



UPSTREAM:

your copy of

your fork



- Make a change in your local copy
- 2) "**Push**" that change to your remote fork, the origin repo
- 3) Submit changes from your origin to your upstream repo by creating a "Pull Request"
- 4) "**Pull**" from the upstream to update your local copy again
- 5) Repeat

Let's work a real example!