

Git for Beginners

CDMUG

Introductions



Introduction

- Why Git?
- Why me?
- Who wants to help?

- What is version control?

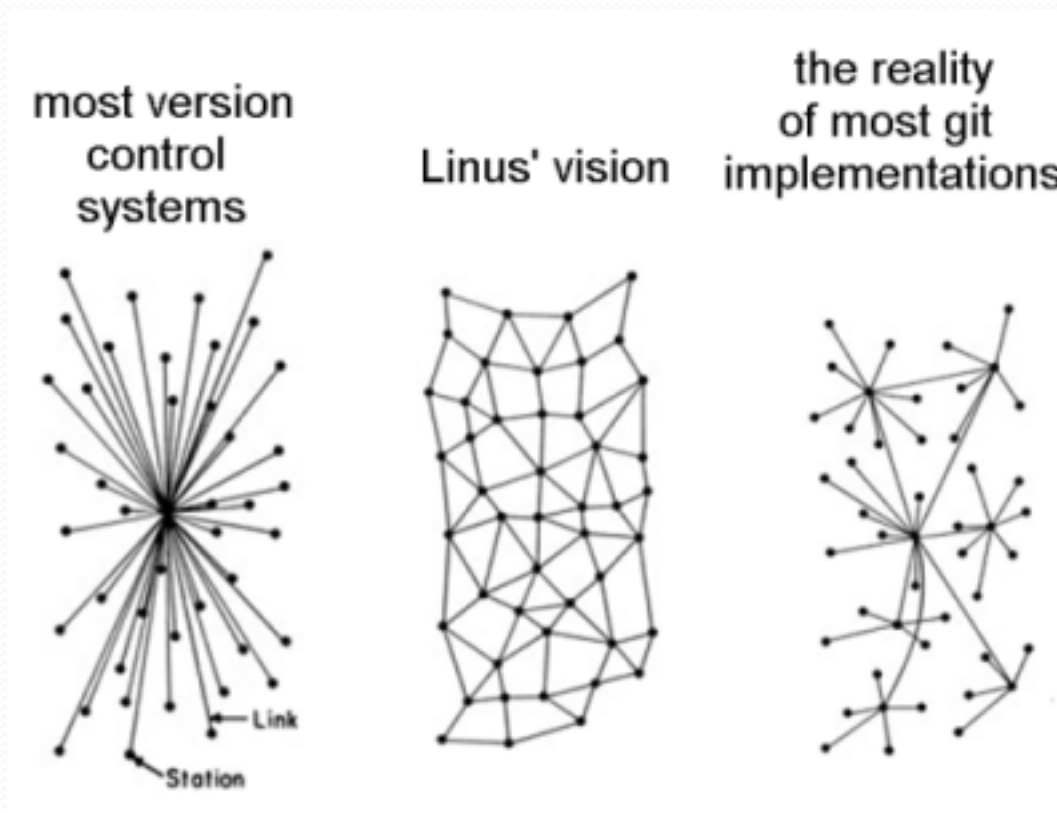


Why use version control?

- Solo
 - Don't play the "Undo game"
 - `mymodule.module`, `mymodule.module_`,
`mymodule.module_2`, `omgwtfwasidoing.module`
- Teams
 - All of the above, plus syncing/overwriting issues

Centralized vs. Distributed

- Or, everything else vs. Git



<http://www.mikitracey.com/2010/09/version-control-that-doesnt-suck/>

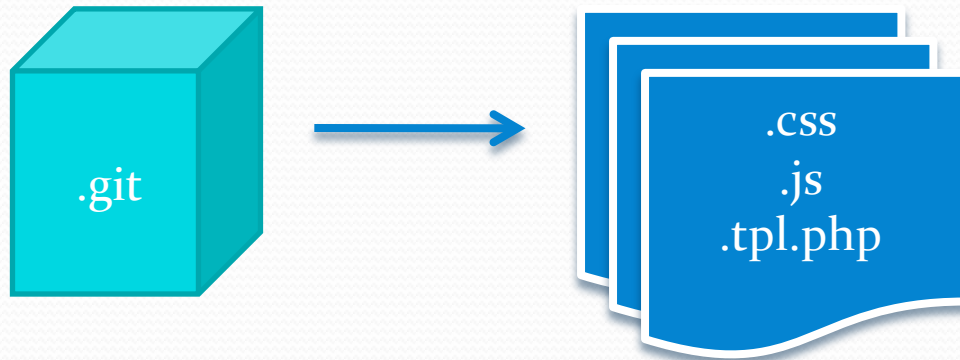
Basic Workflow and Terminology

Repository



Working Tree

- Working Copy

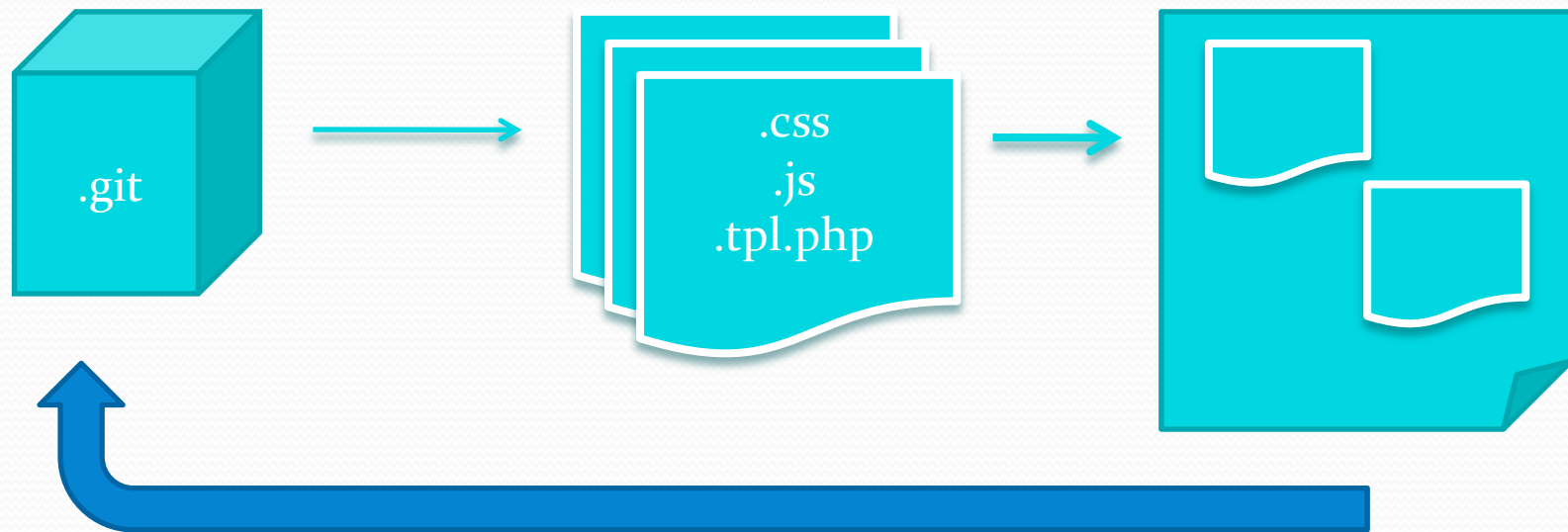


Index

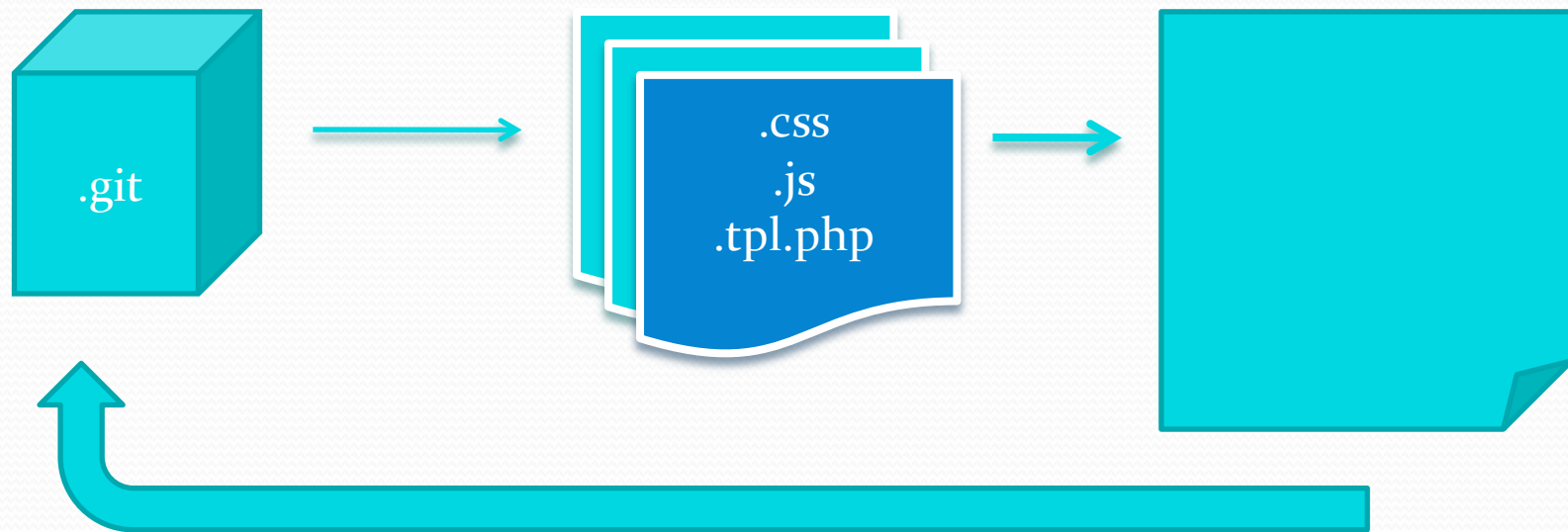
- Staging Area



Commit



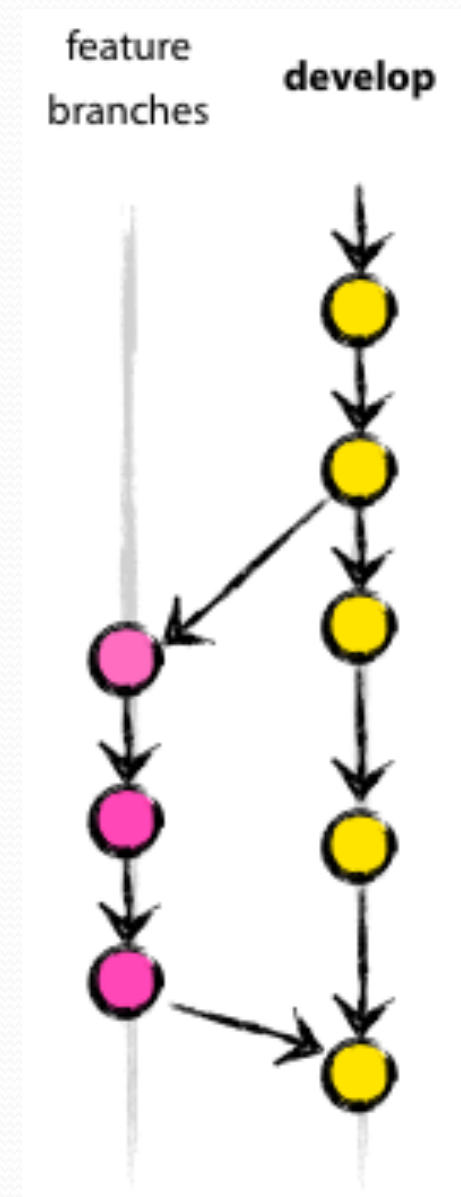
Commit



Essential Features

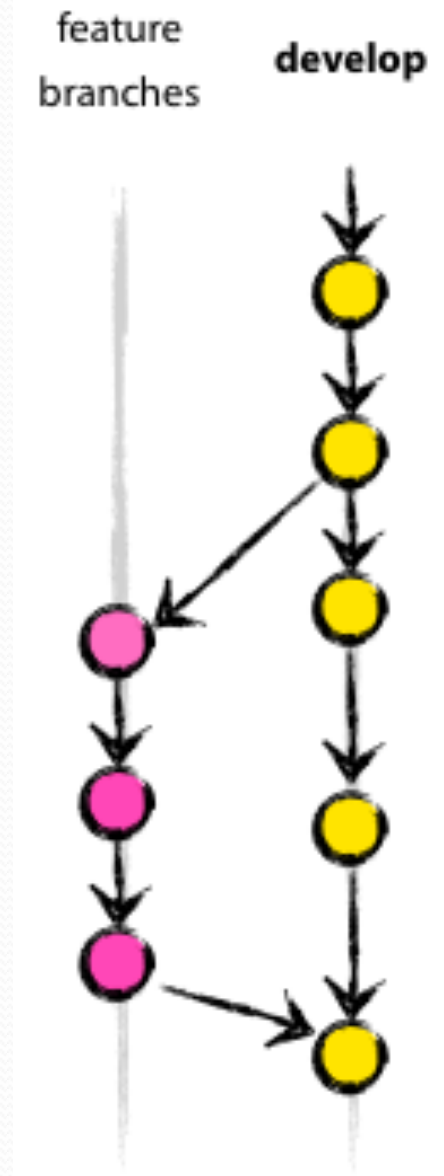
Branching

- Why branch?
 - try different approaches to a problem
 - focus on bug fixes
 - focus on adding new features
- Related terms:
 - Checkout
 - Clone
 - Master and origin



Merging

- Types of merges:
 - Standard
 - Squashed
 - Cherry-picked



Tags

- Not really the same as taxonomy's use of "tags"
- Can serve as useful labels for organizing work
- Create read-only snapshots of a branch

tags

<i>3 months ago</i>	7.0	 commit shortlog log
<i>3 months ago</i>	7.0-rc-4	 commit shortlog log
<i>4 months ago</i>	7.0-rc-3	 commit shortlog log
<i>4 months ago</i>	6.20	 commit shortlog log
<i>4 months ago</i>	7.0-rc-2	 commit shortlog log
<i>4 months ago</i>	7.0-rc-1	 commit shortlog log
<i>5 months ago</i>	7.0-beta3	 commit shortlog log
<i>5 months ago</i>	7.0-beta-3	 commit shortlog log
<i>6 months ago</i>	7.0-beta2	 commit shortlog log
<i>6 months ago</i>	7.0-beta1	 commit shortlog log
<i>7 months ago</i>	7.0-alpha7	 commit shortlog log
<i>8 months ago</i>	5.23	 commit shortlog log
<i>8 months ago</i>	6.19	 commit shortlog log
<i>8 months ago</i>	6.18	 commit shortlog log
<i>9 months ago</i>	7.0-alpha6	 commit shortlog log
<i>10 months ago</i>	6.17	 commit shortlog log

<http://drupalcode.org/project/drupal.git>

Working Collaboratively

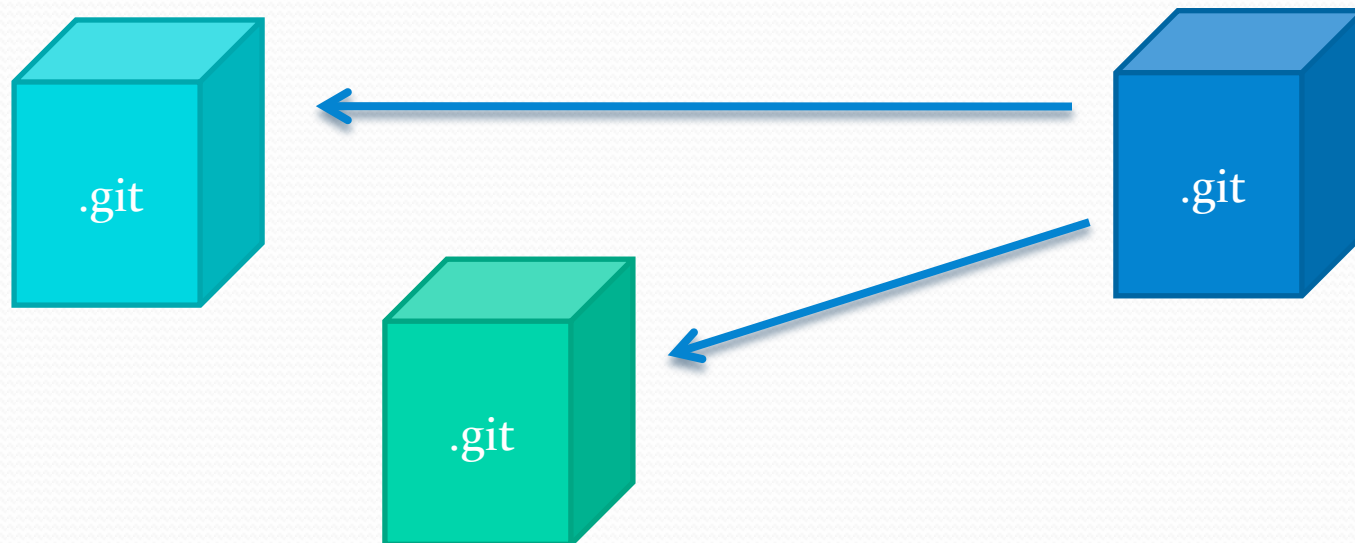
Accessing Remote Repositories

- Security: use ssh
 - Example
- Community: use git://
 - `git://git.drupal.org/project/drupal.git`



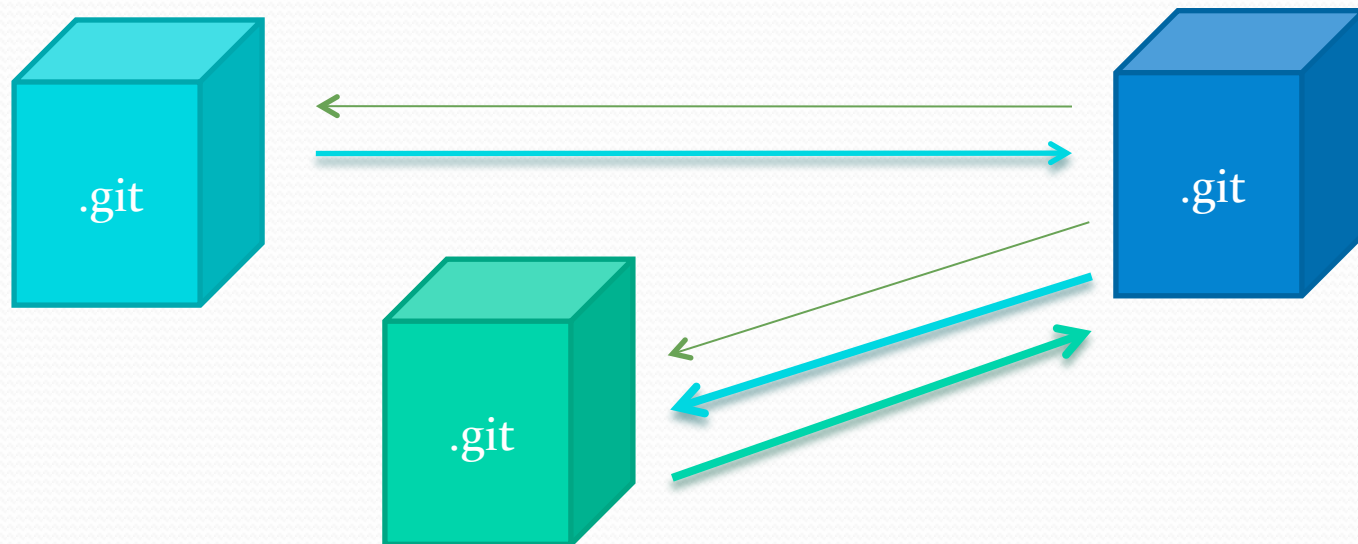
Remember these terms?

- Clone
- Branch
- Merge



And here are some new ones:

- Push
- Fetch
- Pull
 - Fetch and Merge

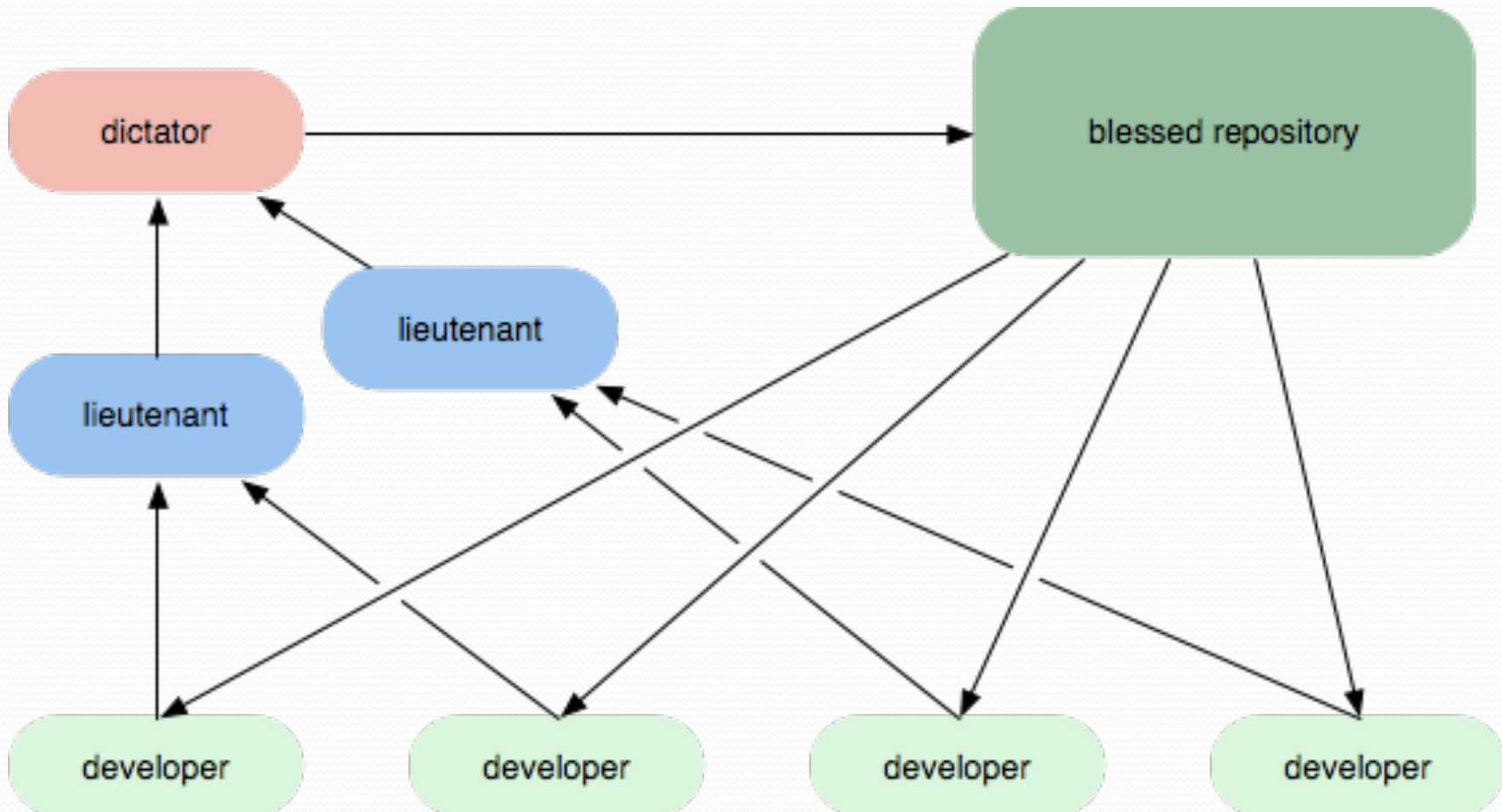




Follow Community Conventions

- Branches
 - 7.X-1.X-dev
- Tags
 - 7.X-1.0

Community Not Required



Demos