

Using Git for Programming Projects

Setting up a Project

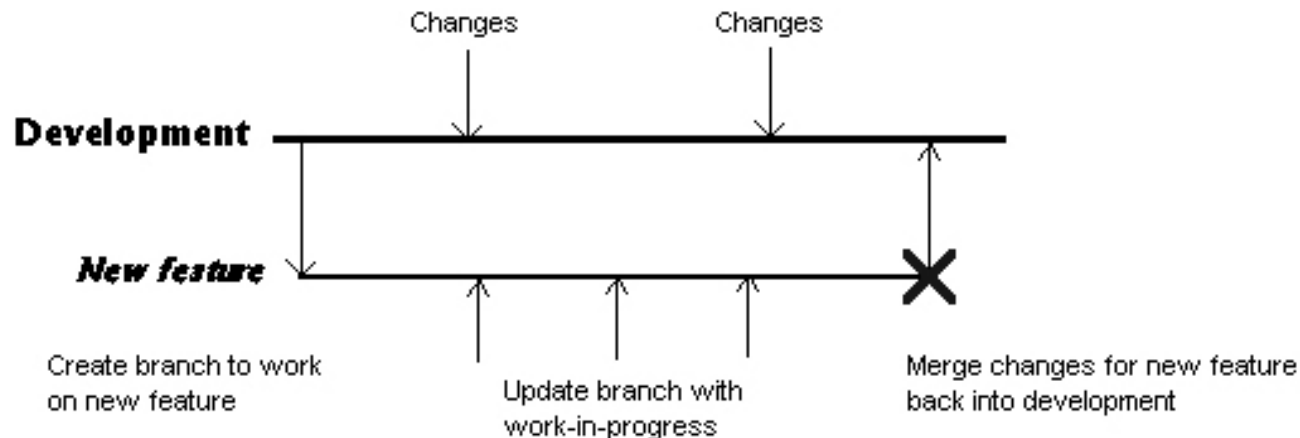
- At the beginning of a Project, it's a good opportunity to set the workflows for the team to use during the project implementation
- These workflows may include:
 - Choose CVS
 - Setup Repository
 - Set folder structure

What is a CVS

- Concurrent Versions System
- Facilitates Collaboration on Projects
- Provides
 - Central location where the project is stored
 - Tools to synchronize project between local machine and server
- Examples: **Git**, Svn, Mercurial, Perforce

CVS Terminology

- Repository: Server where Project is stored
- Revision: Version of the Project
- Master Branch/Trunc: Reference branch
- Branch: Fork of the Project



Git

- Popular Open source CVS
- Integrated on many IDE (Netbeans/Eclipse/Xcode)
- Command-line tool <http://git-scm.com>
- BitBucket.com: Free repository online
- GitHub.com: Another free repository online
- Fun Introduction Tutorial (15 minutes)
<http://try.github.io/levels/1/challenges/1>

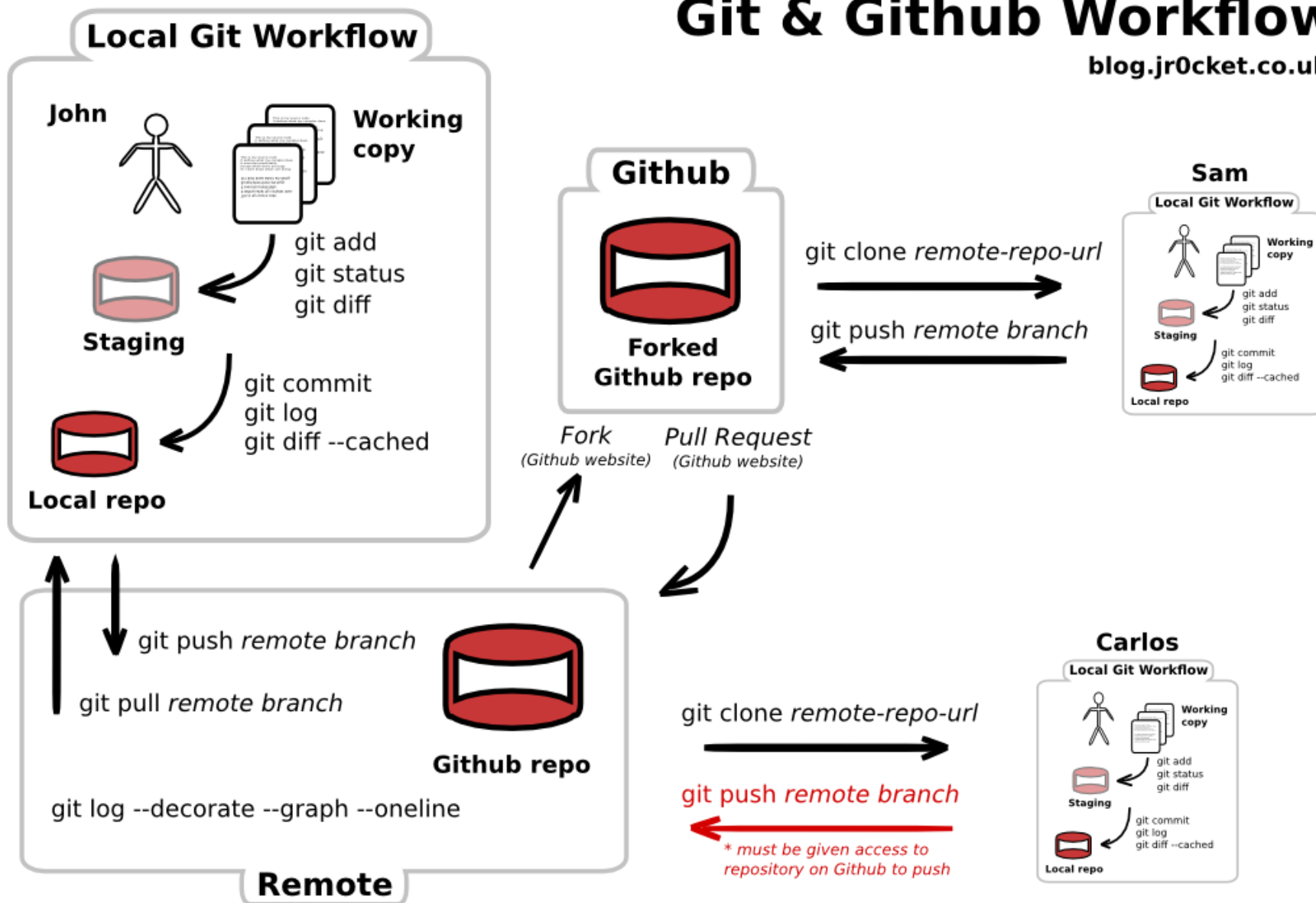
Some Git Commands

- Clone: Fetch Project from Remote Repository
- Add: Add files for next commit
- Commit: Create new revision
- Pull: Update local Project to latest revision
- Push: Update repository with local commits
- Status: View files staged to be committed

... see the documentation for more commands ...

Git & Github Workflow

blog.jr0cket.co.uk



Setup Git Repository

1. Create account on GitHub
2. Create new repository with a Readme file
3. Get a copy of the git repository locally
`git clone [repository name]`
4. Add index.html file in the git folder
5. Commit the file locally
`git add index.html`
`git status` (you should see index.html staged for commit)
`git commit -m "Added index.html"`
6. Push your local git repository to the server
`git push [repository name] master`
7. Goto Step 4 for more changes

Folder Structure

/website

 /content

 /css

 /js

 index.html

 page2.html

 ...