Version Control at NERSC

Jack Deslippe

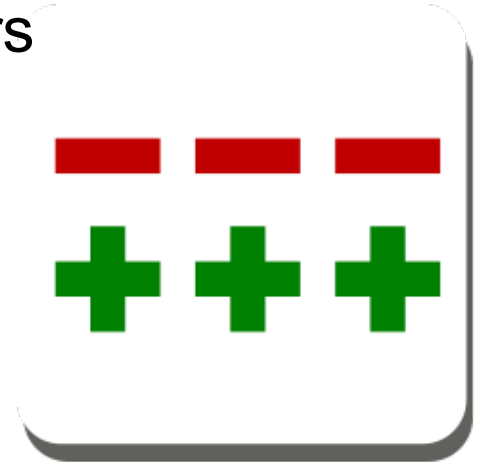
Options at NERSC

SVN

Great for small projects with few developers working on a single branch.

GIT

Great for big projects with many developers working on a variety of branches.



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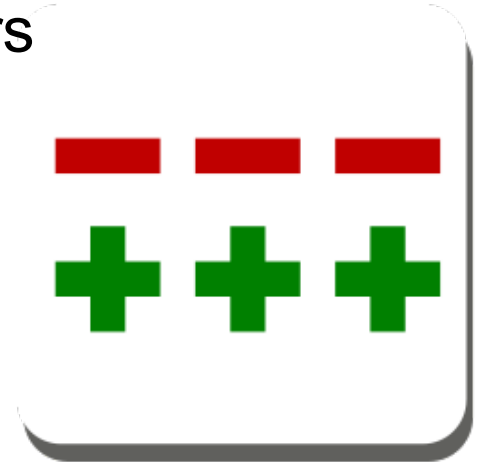
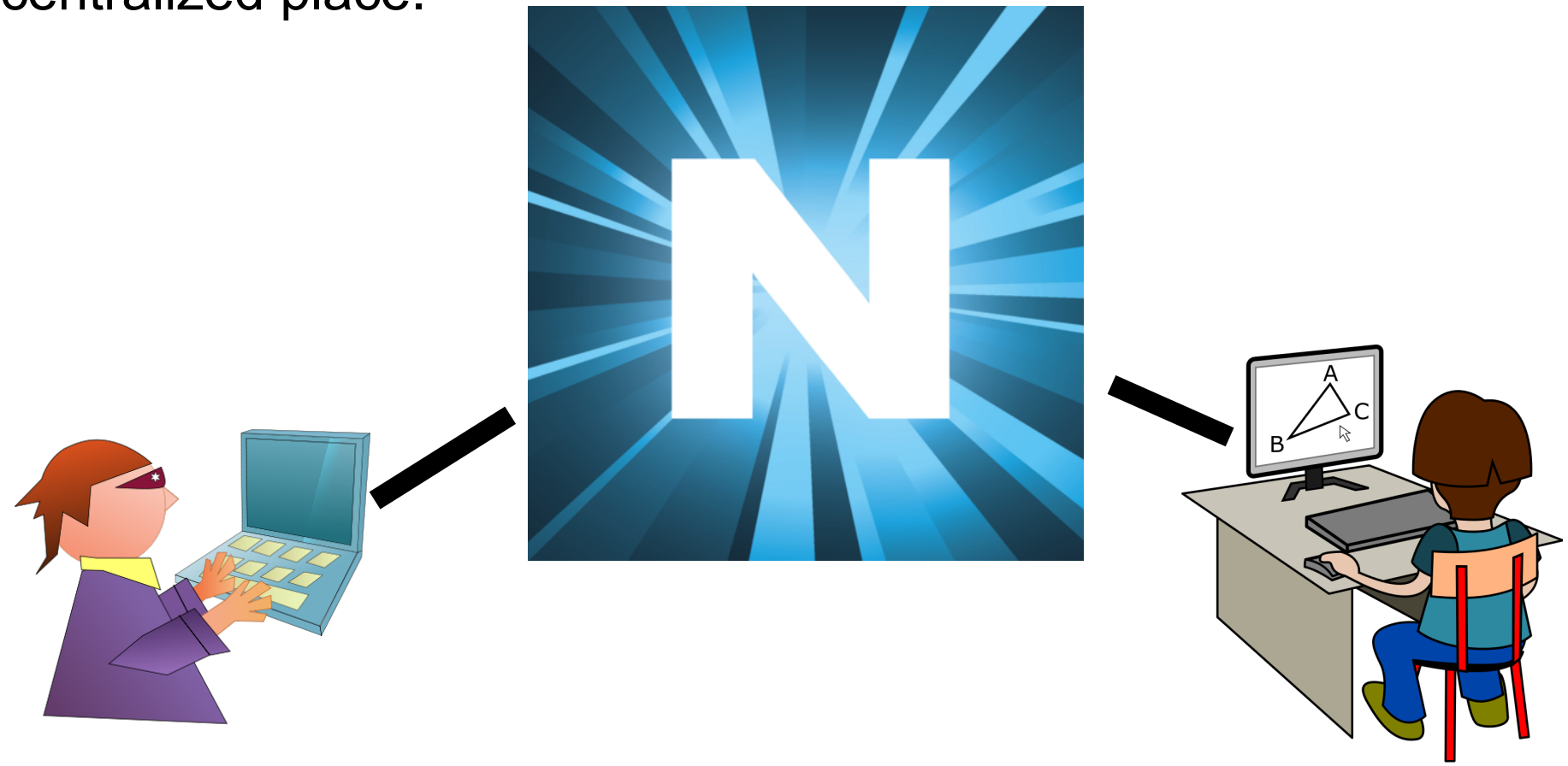


Other options (mercurial, bazaar, CVS) can be used at NERSC to some extent. But you are on your own.

Why host at NERSC?

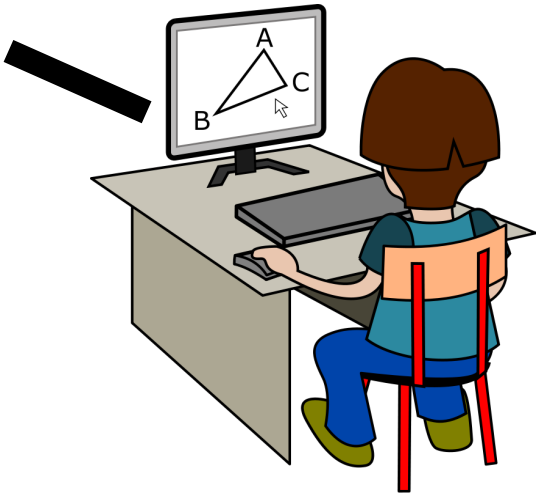
1. NERSC is a centralized place.



Why host at NERSC?

1. NERSC is a centralized place.

2. You can control who has access.



SVN at NERSC

Creating a repository in your **project** directory is easy!

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% svnadmin create --pre-1.5-compatible <svn_repository_name>
```

http://www.nersc.gov/users/software/development-tools/subversion/

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```

Check out your repository:

```
 %  svn co svn+ssh://<;nim_user_name>@portal-auth.nersc.
gov/project/projectdirs/
<project>/<svn_repository_path>/<svn_repository_name>  <local_name>
```

http://www.nersc.gov/users/software/development-tools/subversion/

SVN at NERSC

You can give read-only public access over http://

```
% ln -s /project/projectdirs/<project>/<svn_location> /var/www/svn/<name>

% svn co http://portal.nersc.gov/svn/<name>
```

SVN at NERSC

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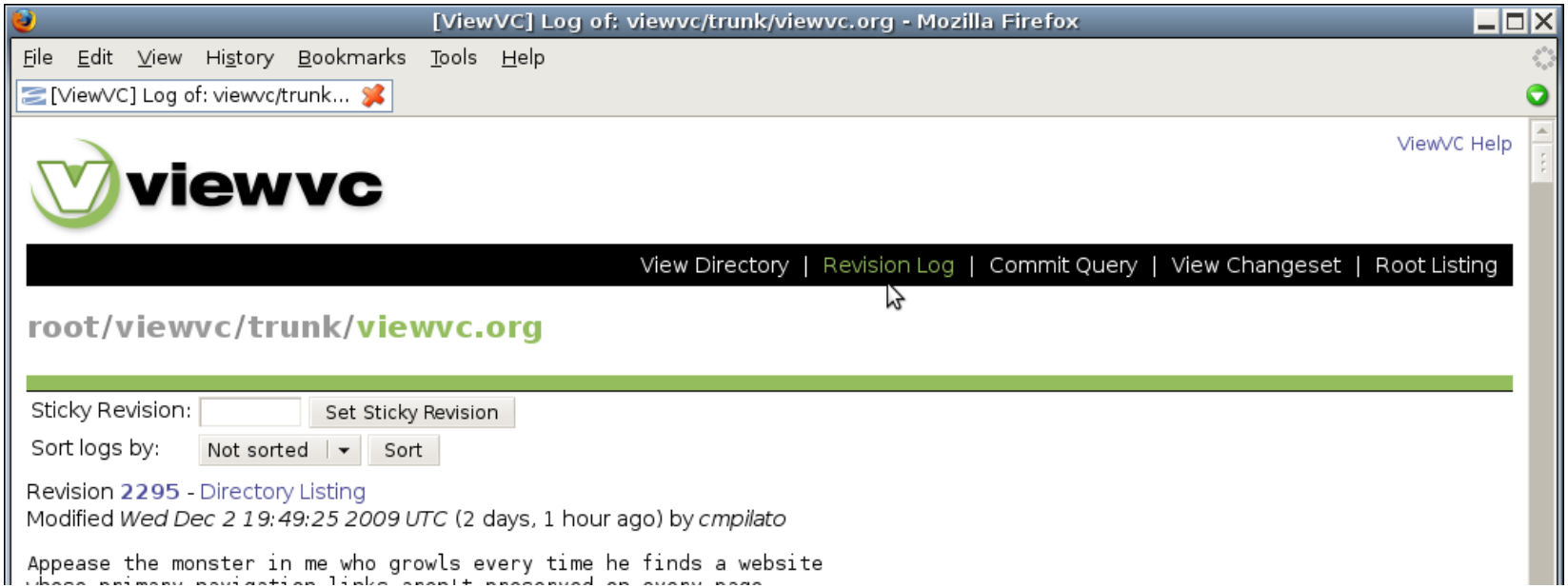


Git at NERSC

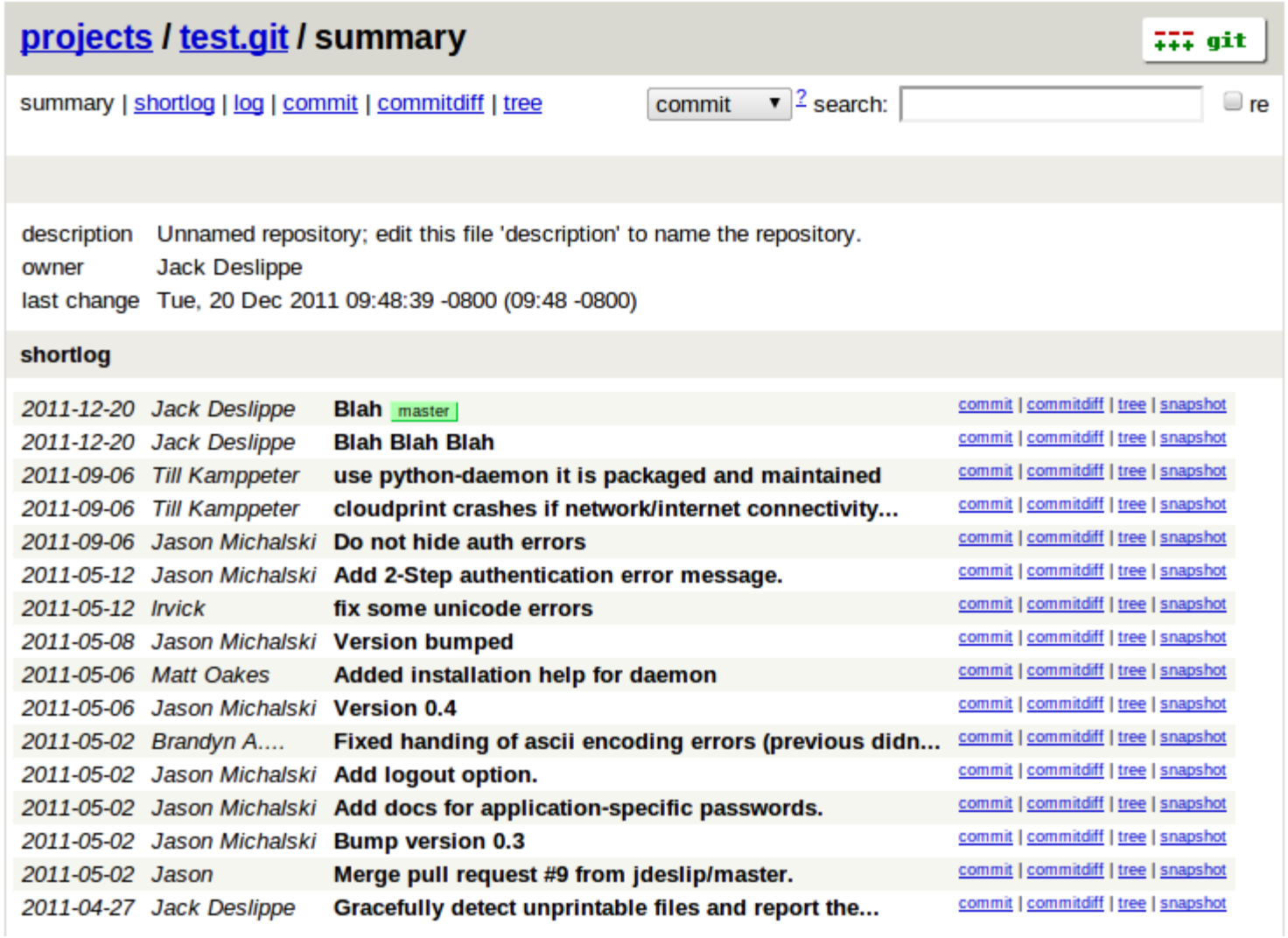
Creating a GIT repo in a **project** directory is pretty easy

```
% mkdir <git_repository_name>.git

% chmod -R ug+rwx <git_repository_name>.git

% cd <git__repository_name>.git ; git --bare init

------

% git clone ssh://portal-auth.nersc.gov${REPO_PATH} <git_repository_name>
```

http://www.nersc.gov/users/software/development-tools/git/

Git at NERSC

gitweb



Summary

Reference URLs

SVN:

http://www.nersc.gov/users/software/development-tools/subversion/

Git:

http://www.nersc.gov/users/software/development-tools/git/