

# Using Git on Windows for PINES/Evergreen Development

## Clone Repository:

- Open Git GUI and click Clone Existing Repository.
- Source Location: `git://git.evergreen-ils.org/evergreen/pines.git`
- Target Directory: (browse to new folder location and append `/pines-git`)
- (may take a while to clone)

## Set up username and email:

- Edit -> Options... -> Global User Name and Email Address
- Exit and restart Git GUI to activate changes

## Set up SSH key:

- Help -> Show SSH Key -> Generate Key (key may exist)
- Copy and Paste public key into email to `gitadmin@evergreen-ils.org` for access to `evergreen/pines.git` and `working/Evergreen.git` repositories

## Create a working copy of PINES rel\_2\_3\_6:

- Branch -> Create...
- Click Match Tracking Branch Name
- Highlight `origin/rel_2_3_6` in the list
- Click Create
- You're now on `rel_2_3_6`
- Branch -> Create...
- Name the branch (lowercase letters/numbers/underscores - no spaces)
- Click Local Branch
- Highlight `rel_2_3_6`
- Click Create

## Make edits:

- Make changes/edits and save them within the source tree
- In Git GUI, click Rescan.
- Your changed/added files should appear in the "Unstaged Changes" window.
- When ready to commit, click Stage Changed & confirm the pop-up.
- Your changed/added files will appear in the "Staged Changes (Will Commit)" window.
- Add a commit message in the window. EG commit message guidelines:  
[http://www.evergreen-ils.org/dokuwiki/doku.php?id=dev:git#commit\\_messages](http://www.evergreen-ils.org/dokuwiki/doku.php?id=dev:git#commit_messages)
- Click Sign Off.
- Your sign-off message with your name/email will appear in the commit message window.
- Click Commit.

**Pushing:**

Once your key has been added to the git server, you can push your branch to the remote repository. To do so, you'll need to set your remote's "push" URL to one that uses SSH rather than git://

- Open Git Bash.
- cd to your git repository's location you set when cloning the repository
- git remote set-url --push origin git@git.evergreen-ils.org:evergreen/pines.git
- Close Git Bash.
- Click Push in Git GUI.

To prevent conflicts, click Remote -> Fetch from -> origin each time you start Git GUI.

**Resources:**

- Git for Windows: <http://git-scm.com/download/win>
- Refer to <http://www.evergreen-ils.org/dokuwiki/doku.php?id=dev:git> for general git information regarding Evergreen.
- Good resource on general usage of Git on Windows:  
<http://nathanj.github.io/gitguide/tour.html>