Using the Desktop GUI

Using the Mac Desktop client (download and install from https://mac.github.com).

Navigate to
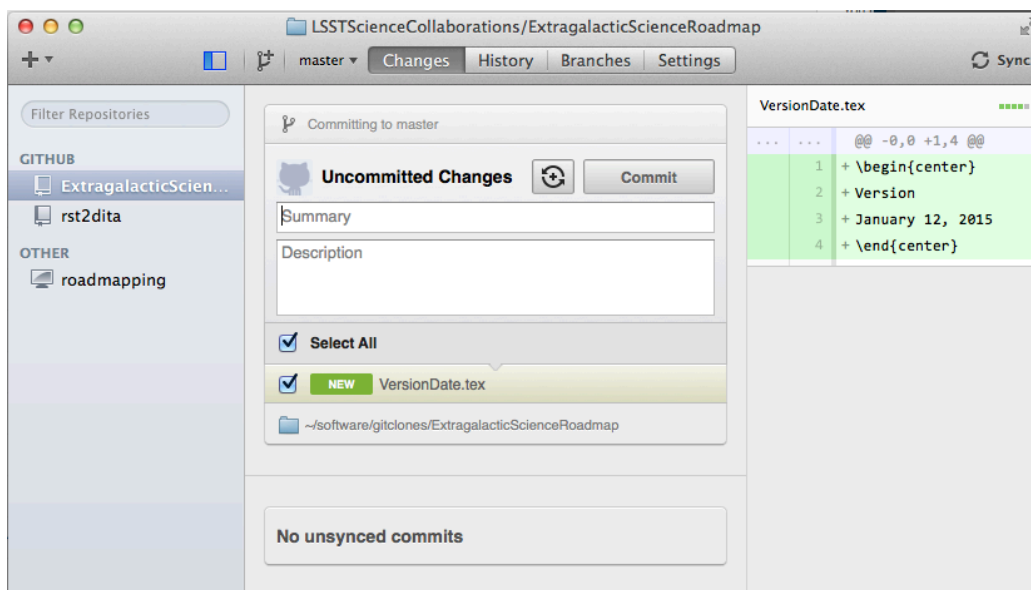 https://github.com/LSSTScienceCollaborations/ExtragalacticScienceRoadmap

Click on the button labeled "Clone in Desktop" and choose a folder on your computer where you want to put the repository.

Once you have cloned it, you can edit your files and run latex locally to make sure everything compiles. Then use the "commit and sync" button on the desktop tool to sync back to the github master.

If you want to sync back up with the master, you can hit the "Sync" button in the top right corner and it will sync your repository with the master. This will pull in any files that have changed on the master— but it won't push any changes from your side that you haven't committed.

Once you have verified that the latex compiles again, you can commit your changes and then push the sync button and it will send your changes back to the master.

Further info on the desktop client is at https://mac.github.com/help.html.

Using the Command Line

Decide where you would like to put the repository on your computer and cd there.

```
git clone
https://github.com/LSSTScienceCollaborations/Extragalacti
cScienceRoadmap.git
```

Edit your files. Verify that the latex compiles. Then type:

```
git commit -m "comments…"
```

Then fetch any changes that have been made in the meantime from the repository and merge them into your version, type:

```
git pull
```

If you run into a merge conflict that you can't fix, you can use

```
git merge --abort
```

to take your local branch back to where it was before you pulled.

At this stage, your changes still reside on your local computer. Once you are happy that everything compiles, you can push the changes back to the github repository:

```
git push origin master
```

If your local copy of a repository is out of sync with, or "behind," the upstream repository you're pushing to, you'll get a message saying `non-fast-forward updates were rejected`. This means that you must retrieve, or "fetch," the upstream changes, before you are able to push your local changes.

Further documentation on git and github and the Desktop client

Further github help is at https://help.github.com/index.html.