

GitHub for Astronomers

Advance Usage

Summary

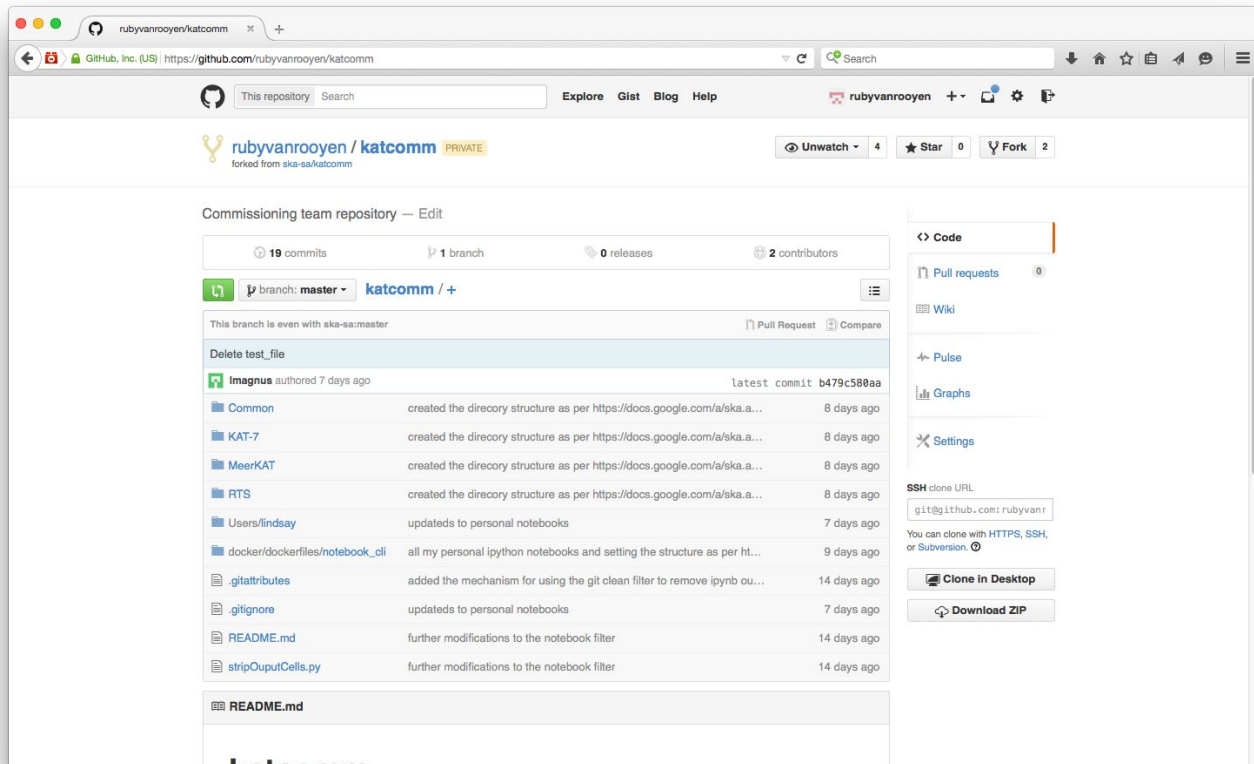
Here's a quick rundown to get set up:

1. Fork the original repo
2. Clone your fork to your computer
3. Add the `upstream` remote pointing to the original repo

Here's a quick rundown to send a feature or bugfix back to the original project:

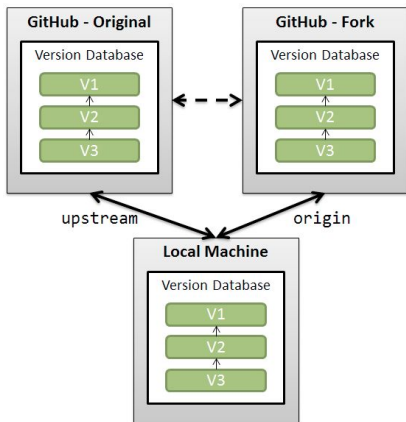
1. Checkout the `master` branch.
2. Pull from the `upstream` remote to merge updates.
3. Create a topic branch for your feature or bug fix.
4. Make your commits, with good commit messages.
5. Push your topic branch back to your fork on Github
6. Send a pull request back to the original repo.
7. Converse with developers, make updates to your topic branch if necessary, and keep pushing back to your fork.
8. Repeat for a new feature or bug fix.

Fork the katcomm repository



Clone and Sync katcomm repository

```
[ruby@McRubyV2-17:51:35]-#1 ~/Projects/gitScience
> git clone git@github.com:rubyvanrooyen/katcomm.git
Cloning into 'katcomm'...
Warning: untrusted X11 forwarding setup failed: xauth key data not generated
X11 forwarding request failed on channel 0
remote: Counting objects: 295, done.
remote: Total 295 (delta 0), reused 0 (delta 0), pack-reused 295
Receiving objects: 100% (295/295), 283.58 KiB | 116
Resolving deltas: 100% (115/115), done.
Checking connectivity... done.
```



```
[ruby@McRubyV2-17:54:51]-#1 ~/Projects/gitScience/katcomm
> git remote -v
origin  git@github.com:rubyvanrooyen/katcomm.git (fetch)
origin  git@github.com:rubyvanrooyen/katcomm.git (push)
```

```
[ruby@McRubyV2-17:54:54]-#1 ~/Projects/gitScience/katcomm
> git remote add upstream git@github.com:ska-sa/katcomm.git
```

```
[ruby@McRubyV2-17:55:46]-#1 ~/Projects/gitScience/katcomm
> git remote -v
origin  git@github.com:rubyvanrooyen/katcomm.git (fetch)
origin  git@github.com:rubyvanrooyen/katcomm.git (push)
upstream git@github.com:ska-sa/katcomm.git (fetch)
upstream git@github.com:ska-sa/katcomm.git (push)
```

```
[ruby@McRubyV2-17:55:53]-#1 ~/Projects/gitScience/katcomm
> git pull upstream master
Warning: untrusted X11 forwarding setup failed: xauth key data not generated
X11 forwarding request failed on channel 0
From github.com:ska-sa/katcomm
 * branch          master      -> FETCH_HEAD
 * [new branch]    master      -> upstream/master
Already up-to-date.
```

Creating a Branch

```
[ruby@McRubyV2-12:52:22]-#1 ~/Projects/gitScience/katcomm
> git branch -v -a
* master                    51af4f1 Merge pull request #3 from rubyvanrooyen/master
  remotes/origin/HEAD       -> origin/master
  remotes/origin/master     51af4f1 Merge pull request #3 from rubyvanrooyen/master
  remotes/upstream/master   51af4f1 Merge pull request #3 from rubyvanrooyen/master
```

```
[ruby@McRubyV2-12:52:24]-#1 ~/Projects/gitScience/katcomm
> git checkout master
Already on 'master'
Your branch is up-to-date with 'origin/master'.
```

```
[ruby@McRubyV2-12:52:36]-#1 ~/Projects/gitScience/katcomm
> git checkout -b mytestbranch
Switched to a new branch 'mytestbranch'
```

```
[ruby@McRubyV2-12:52:52]-#1 ~/Projects/gitScience/katcomm
> git branch -v -a
  master                    51af4f1 Merge pull request #3 from rubyvanrooyen/master
* mytestbranch              51af4f1 Merge pull request #3 from rubyvanrooyen/master
  remotes/origin/HEAD       -> origin/master
  remotes/origin/master     51af4f1 Merge pull request #3 from rubyvanrooyen/master
  remotes/upstream/master   51af4f1 Merge pull request #3 from rubyvanrooyen/master
```

```
[ruby@McRubyV2-13:11:14]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning  
> cp ../../Users/ruby/oh_masars/local_utilities/when-LST.py .
```

```
[ruby@McRubyV2-13:12:49]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning  
> vi when-LST.py
```

```
[ruby@McRubyV2-13:15:11]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning  
> git add when-LST.py
```

```
[ruby@McRubyV2-13:15:37]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning  
> git status  
On branch mytestbranch  
Changes to be committed:  
  (use "git reset HEAD <file>..." to unstage)
```

```
    new file:   when-LST.py
```

```
[ruby@McRubyV2-13:29:58]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning  
> git commit -m "added main function to when-LST.py allow call as function from other python script"  
(mytestbranch 64cb111] added main function to when-LST.py allow call as function from other python script  
1 file changed, 50 insertions(+)  
create mode 100755 KAT-7/planning/when-LST.py
```



```
[ruby@McRubyV2-14:14:43]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
```

```
[ruby@McRubyV2-14:14:50]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git pull upstream
Warning: untrusted X11 forwarding setup failed: xauth key data not generated
X11 forwarding request failed on channel 0
You asked to pull from the remote 'upstream', but did not specify
a branch. Because this is not the default configured remote
for your current branch, you must specify a branch on the command line.
```

```
[ruby@McRubyV2-14:15:02]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git pull upstream master
Warning: untrusted X11 forwarding setup failed: xauth key data not generated
X11 forwarding request failed on channel 0
From github.com:ska-sa/katcomm
 * branch      master      -> FETCH_HEAD
Already up-to-date.
```

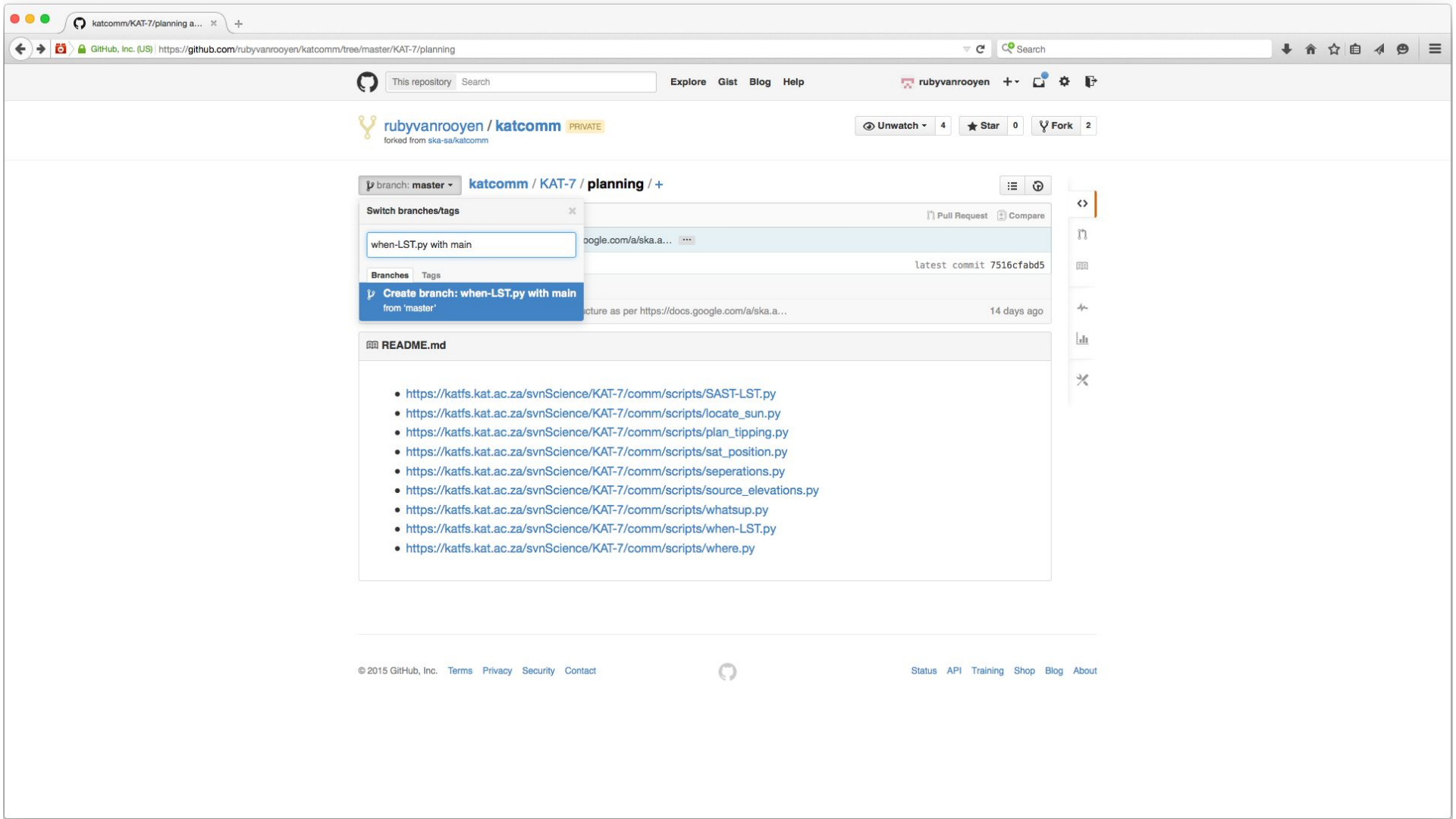
```
[ruby@McRubyV2-14:15:13]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git checkout mytestbranch
Switched to branch 'mytestbranch'
```

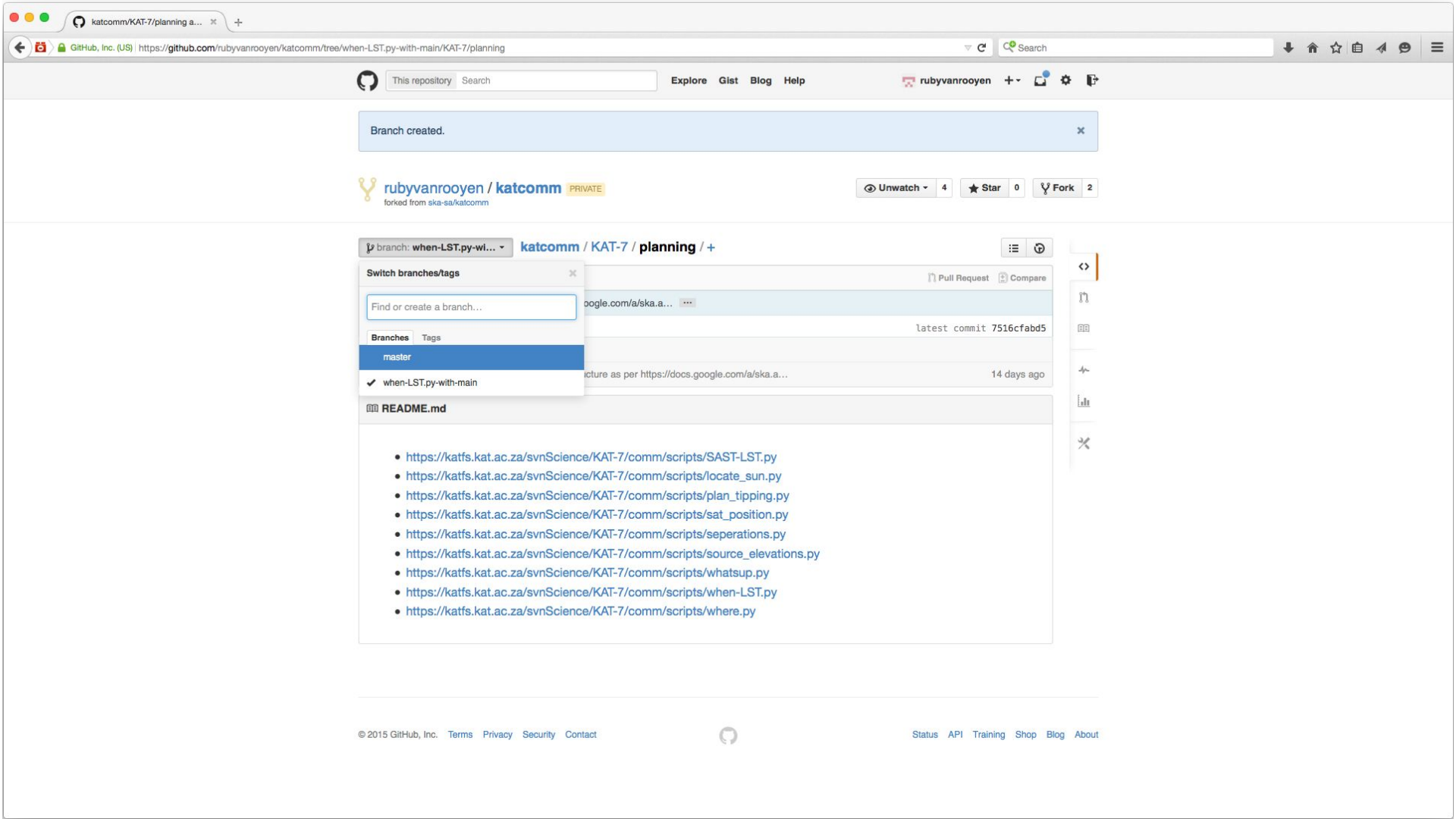
```
[ruby@McRubyV2-14:15:50]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git rebase master
Current branch mytestbranch is up to date.
```

```
[ruby@McRubyV2-14:15:55]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
```

```
[ruby@McRubyV2-14:19:04]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git merge mytestbranch
Updating 51af4f1..64cb111
Fast-forward
 KAT-7/planning/when-LST.py | 50 +++++
 1 file changed, 50 insertions(+)
 create mode 100755 KAT-7/planning/when-LST.py
```

Creating a Branch from GitHub





Branch created.



rubyvanrooyen / **katcomm**
forked from ska-sa/katcomm

PRIVATE

Unwatch 4

Star 0

Fork 2

branch: when-LST.py-wi...

katcomm / KAT-7 / planning / +

Switch branches/tags

Find or create a branch...

Branches Tags

master

✓ when-LST.py-with-main

README.md

- <https://katfs.kat.ac.za/svnScience/KAT-7/comm/scripts/SAST-LST.py>
- https://katfs.kat.ac.za/svnScience/KAT-7/comm/scripts/locate_sun.py
- https://katfs.kat.ac.za/svnScience/KAT-7/comm/scripts/plan_tipping.py
- https://katfs.kat.ac.za/svnScience/KAT-7/comm/scripts/sat_position.py
- <https://katfs.kat.ac.za/svnScience/KAT-7/comm/scripts/seperations.py>
- https://katfs.kat.ac.za/svnScience/KAT-7/comm/scripts/source_elevations.py
- <https://katfs.kat.ac.za/svnScience/KAT-7/comm/scripts/whatsup.py>
- <https://katfs.kat.ac.za/svnScience/KAT-7/comm/scripts/when-LST.py>
- <https://katfs.kat.ac.za/svnScience/KAT-7/comm/scripts/where.py>



```
[ruby@McRubyV2-16:27:05]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git branch -v -a
* master                a0557ab Merge branch 'master' of github.com:rubyvanrooyen/katcomm Cleaning links to large files left in commit
remotes/origin/HEAD      -> origin/master
remotes/origin/master    a0557ab Merge branch 'master' of github.com:rubyvanrooyen/katcomm Cleaning links to large files left in commit
remotes/upstream/master  fbb7a19 Merge pull request #2 from lmagnus/master
```

```
[ruby@McRubyV2-16:27:10]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git fetch origin
Warning: untrusted X11 forwarding setup failed: xauth key data not generated
X11 forwarding request failed on channel 0
From github.com:rubyvanrooyen/katcomm
* [new branch]      when-LST.py-with-main -> origin/when-LST.py-with-main
```

```
[ruby@McRubyV2-16:28:17]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git branch -v -a
* master                a0557ab Merge branch 'master' of github.com:rubyvanrooyen/katcomm Cleaning links to large files left in commit
remotes/origin/HEAD      -> origin/master
remotes/origin/master    a0557ab Merge branch 'master' of github.com:rubyvanrooyen/katcomm Cleaning links to large files left in commit
remotes/origin/when-LST.py-with-main a0557ab Merge branch 'master' of github.com:rubyvanrooyen/katcomm Cleaning links to large files left in commit
remotes/upstream/master  fbb7a19 Merge pull request #2 from lmagnus/master
```

```
[ruby@McRubyV2-16:28:22]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git status
On branch master
Your branch is up-to-date with 'origin/master'.
```

```
[ruby@McRubyV2-16:28:30]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning  
> git checkout -b when-LST.py-with-main origin/when-LST.py-with-main  
Branch when-LST.py-with-main set up to track remote branch when-LST.py-with-main from origin.  
Switched to a new branch 'when-LST.py-with-main'
```

```
[ruby@McRubyV2-16:29:20]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning  
> git status  
On branch when-LST.py-with-main  
Your branch is up-to-date with 'origin/when-LST.py-with-main'.
```

```
[ruby@McRubyV2-16:33:06]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> ls
./          ../          README.md   when-LST.py*

[ruby@McRubyV2-16:33:07]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git add when-LST.py

[ruby@McRubyV2-16:34:07]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git status
On branch when-LST.py-with-main
Your branch is up-to-date with 'origin/when-LST.py-with-main'.

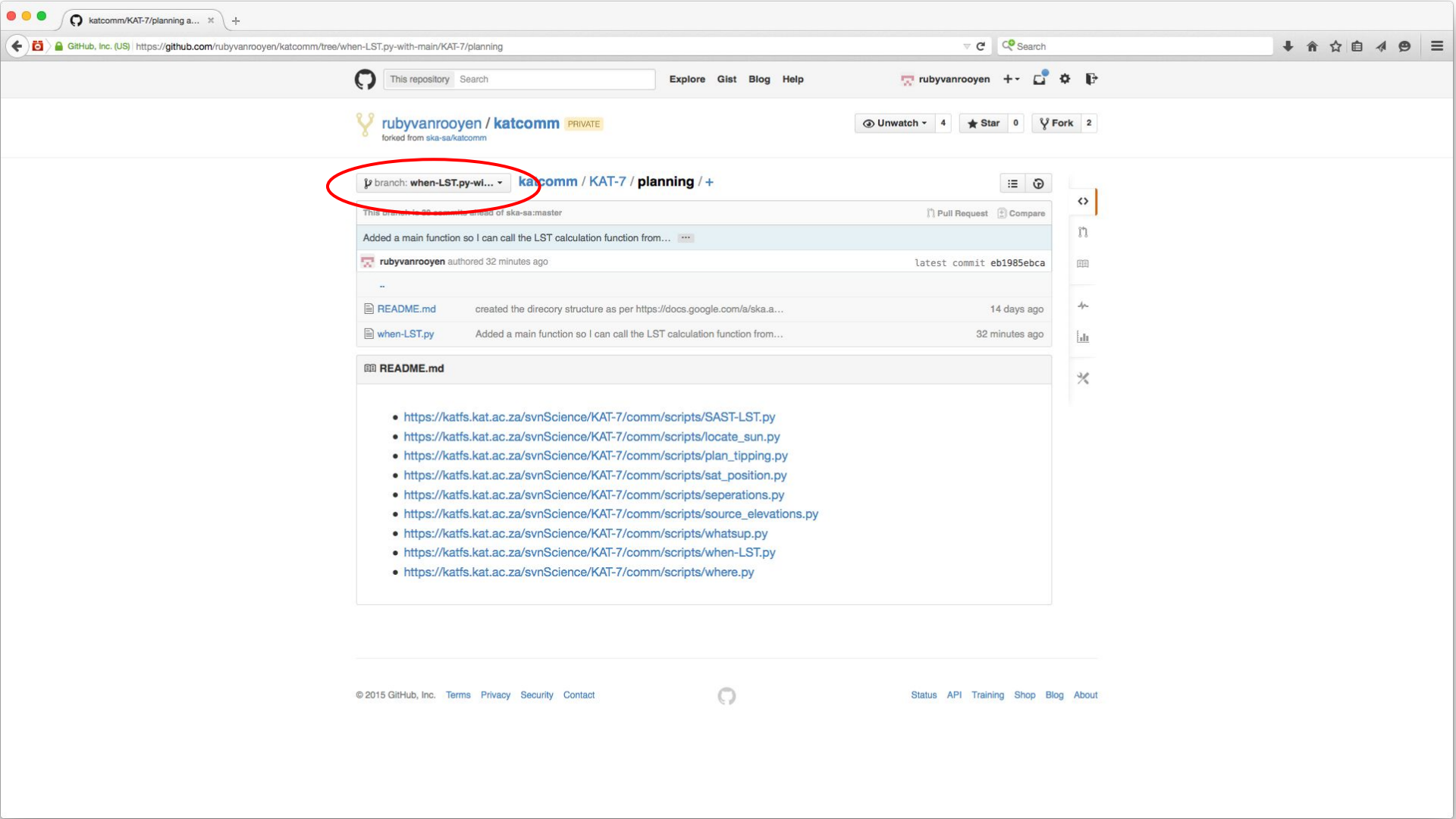
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   when-LST.py
```



```
[ruby@McRubyV2-16:34:13]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning  
> git commit when-LST.py -m "Added a main function so I can call the LST calculation function from another python script"  
[when-LST.py-with-main eb1985e] Added a main function so I can call the LST calculation function from another python script  
1 file changed, 43 insertions(+)  
create mode 100755 KAT-7/planning/when-LST.py
```

```
[ruby@McRubyV2-16:35:38]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning  
> git push origin when-LST.py-with-main  
Warning: untrusted X11 forwarding setup failed: xauth key data not generated  
X11 forwarding request failed on channel 0  
Counting objects: 8, done.  
Delta compression using up to 8 threads.  
Compressing objects: 100% (5/5), done.  
Writing objects: 100% (5/5), 1.33 KiB | 0 bytes/s, done.  
Total 5 (delta 2), reused 0 (delta 0)  
To git@github.com:rubyvanrooyen/katcomm.git  
a0557ab..eb1985e  when-LST.py-with-main -> when-LST.py-with-main
```

```

[ruby@McRubyV2-17:33:48]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git branch -v -a
      master                a0557ab Merge branch 'master' of github.com:rubyvanrooyen/katcomm Cleaning links to large files left in commit
* when-LST.py-with-main    eb1985e Added a main function so I can call the LST calculation function from another python script
  remotes/origin/HEAD      -> origin/master
  remotes/origin/master    a0557ab Merge branch 'master' of github.com:rubyvanrooyen/katcomm Cleaning links to large files left in commit
  remotes/origin/when-LST.py-with-main eb1985e Added a main function so I can call the LST calculation function from another python script
  remotes/upstream/master  af21c75 Merge pull request #2 from lmagnus/master

[ruby@McRubyV2-17:33:58]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.

[ruby@McRubyV2-17:34:08]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git pull upstream
Warning: untrusted X11 forwarding setup failed: xauth key data not generated
X11 forwarding request failed on channel 0
You asked to pull from the remote 'upstream', but did not specify
a branch. Because this is not the default configured remote
for your current branch, you must specify a branch on the command line.

[ruby@McRubyV2-17:34:23]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git pull upstream master
Warning: untrusted X11 forwarding setup failed: xauth key data not generated
X11 forwarding request failed on channel 0
From github.com:ska-sa/katcomm
 * branch      master      -> FETCH_HEAD
Already up-to-date.

[ruby@McRubyV2-17:35:27]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git checkout when-LST.py-with-main
Switched to branch 'when-LST.py-with-main'
Your branch is up-to-date with 'origin/when-LST.py-with-main'.

[ruby@McRubyV2-17:36:20]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git rebase master
Current branch when-LST.py-with-main is up to date.

[ruby@McRubyV2-17:36:29]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.

[ruby@McRubyV2-17:36:43]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git merge when-LST.py-with-main
Updating a0557ab..eb1985e
Fast-forward
 KAT-7/planning/when-LST.py | 43 ++++++++++++++++++++++++++++++++++++++
 1 file changed, 43 insertions(+)
 create mode 100755 KAT-7/planning/when-LST.py

[ruby@McRubyV2-17:36:54]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git push

```

```
[ruby@McRubyV2-14:20:53]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning  
> git status  
On branch master  
Your branch is ahead of 'origin/master' by 1 commit.  
  (use "git push" to publish your local commits)
```

```
[ruby@McRubyV2-14:25:02]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git push origin master
Warning: untrusted X11 forwarding setup failed: xauth key data not generated
X11 forwarding request failed on channel 0
Counting objects: 8, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 1.45 KiB | 0 bytes/s, done.
Total 5 (delta 2), reused 0 (delta 0)
To git@github.com:rubyvanrooyen/katcomm.git
   51af4f1..64cb111  master -> master

[ruby@McRubyV2-14:25:15]-#1 ~/Projects/gitScience/katcomm/KAT-7/planning
> git status
On branch master
Your branch is up-to-date with 'origin/master'.
```

 **rubyvanrooyen / katcomm** PRIVATE
forked from ska-sa/katcomm

 Unwatch 4  Star 0  Fork 2

Overview Yours Active Stale All branches

Search branches...

Default branch
`master` Updated an hour ago by rubyvanrooyen **Default**

Your branches
`when-LST.py-with-main` Updated an hour ago by rubyvanrooyen 0 | 0 [New pull request](#)

Active branches
`when-LST.py-with-main` Updated an hour ago by rubyvanrooyen 0 | 0 [New pull request](#)

