git

source/version control with git and github

Outline

- why?

- git basics

- tools

- step-by-step examples

- advanced topics (if time permits)

why source control?

why source control?

- enables team collaboration

- backup

- experiment—unlimited undo

- multiple versions (branches)

- history of changes

- github has a lot of other stuff as well…

why git?

- there are lots of options

  - cvs, svn, mercurial, tfs, etc…

  - they are similar in many ways

- git is fast, free, multi-platform

- git works well if you are on/offline

- github

git basics

- repository

- local vs. remote

- commit / push / pull

- repo structure

repository

- repository == repo

- the "database" with ALL your project files

    - including all past versions and changes

- multiple copies of "the repo"…

local vs. remote

- everyone on the project has a local repo

- there is 1 remote repo (github)

- and there's the working directory

my computer

Working Directory   local repo

github

remote repo
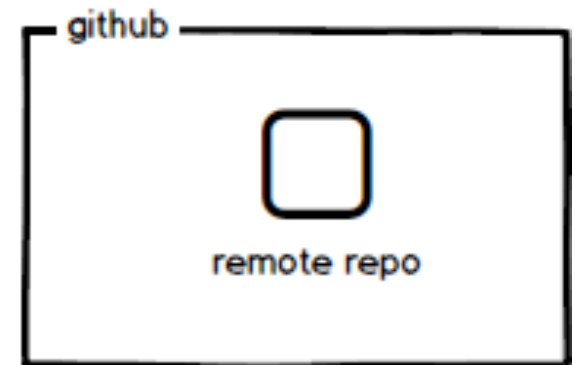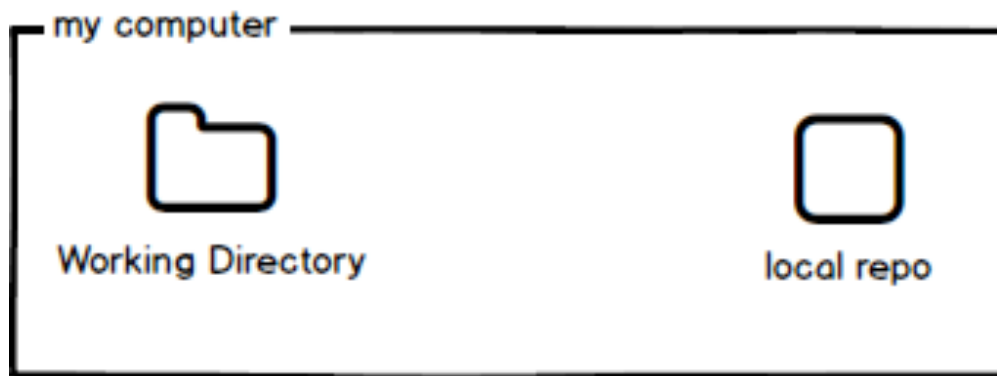
```
14:17:05 shasta:~/dev/src/take2 > ll
total 128
-rw-r--r--@  1 ecrane   staff   18436 Sep 14 14:16 .DS_Store
drwxr-xr-x   3 ecrane   staff     102 Jul 13 12:51 .bundle/
drwxr-xr-x  19 ecrane   staff     646 Sep 11 08:38 .git/
-rw-r--r--   1 ecrane   staff     404 Sep 10 07:09 .gitign
-rw-r--r--   1 ecrane   staff     198 Apr 24  2013 .project
-rw-r--r--   1 ecrane   staff       8 Oct 12  2012 .rspec
-rw-r--r--   1 ecrane   staff     663 Jul 23 09:32 .rvmrc
drwxr-xr-x   3 ecrane   staff     102 Dec 18  2012 .sass-cache/
-rw-r--r--   1 ecrane   staff     268 Apr 20  2012 Capfile
-rw-r--r--   1 ecrane   staff    1868 Sep  2 09:06 Gemfile
-rw-r--r--   1 ecrane   staff    7028 Sep  2 09:06 Gemfile.lock
-rw-r--r--   1 ecrane   staff    3303 Oct 12  2012 README.md
-rw-r--r--@  1 ecrane   staff     267 May 18  2011 Rakefile
drwxr-xr-x   9 ecrane   staff     306 Sep 23  2014 app/
drwxr-xr-x  16 ecrane   staff     544 Sep 11 08:38 config/
-rw-r--r--@  1 ecrane   staff     155 May 18  2011 config.ru
drwxr-xr-x  12 ecrane   staff     408 Jun 26  2012 coverage/
drwxr-xr-x   9 ecrane   staff     306 Aug 24 12:14 db/
drwxr-xr-x   5 ecrane   staff     170 Jul  3  2014 doc/
drwxr-xr-x  10 ecrane   staff     340 Sep 25  2014 lib/
drwxr-xr-x   8 ecrane   staff     272 Sep  7 06:05 log/
drwxr-xr-x  18 ecrane   staff     612 Jul 10 10:13 public/
drwxr-xr-x  12 ecrane   staff     408 May 18  2011 script/
drwxr-xr-x  16 ecrane   staff     544 Sep 23  2014 spec/
drwxr-xr-x   8 ecrane   staff     272 Aug 28  2014 tmp/
drwxr-xr-x   4 ecrane   staff     136 Dec 26  2012 vendor/
14:17:06 shasta:~/dev/src/take2 >
```

```
14:17:06 shasta:~/dev/src/take2 > ll .git
total 1448
-rw-r--r--@   1 ecrane   staff     6148 Mar 27  2014 .DS_Store
-rw-r--r--    1 ecrane   staff        8 Sep 11 08:21 COMMIT_EDITMSG
-rw-r--r--    1 ecrane   staff     1836 Sep 14 14:15 FETCH_HEAD
-rw-r--r--    1 ecrane   staff       28 Sep 11 08:38 HEAD
-rw-r--r--    1 ecrane   staff       41 Sep 11 08:20 ORIG_HEAD
-rw-r--r--    1 ecrane   staff       41 May 18  2011 RENAMED-REF
drwxr-xr-x    2 ecrane   staff       68 May 18  2011 branches/
-rw-r--r--    1 ecrane   staff      524 Sep  2 09:38 config
-rw-r--r--    1 ecrane   staff       72 May  6 07:32 description
-rw-r--r--    1 ecrane   staff   334328 Mar  7  2013 gitk.cache
drwxr-xr-x   12 ecrane   staff      408 May 18  2011 hooks/
-rw-r--r--    1 ecrane   staff   343152 Sep 11 08:38 index
drwxr-xr-x    4 ecrane   staff      136 Jul 20 07:44 info/
drwxr-xr-x    4 ecrane   staff      136 Jul 20 07:42 logs/
drwxr-xr-x  255 ecrane   staff     8670 Sep 10 13:14 objects/
-rw-r--r--    1 ecrane   staff    21164 Sep 10 14:50 packed-refs
drwxr-xr-x    6 ecrane   staff      204 Jul 20 07:42 refs/
14:18:17 shasta:~/dev/src/take2 > []
```
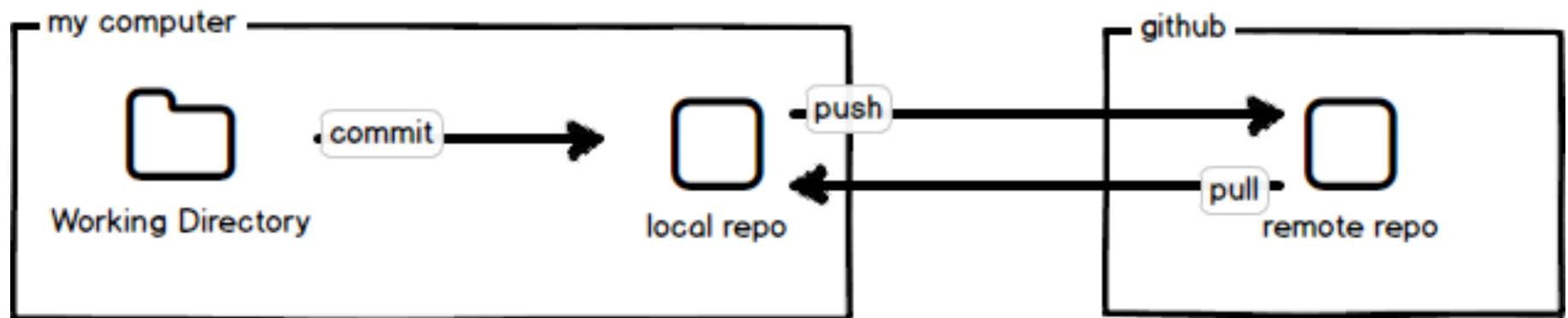
commit / push / pull

- commit: makes changes to your local repo

- push: move changes from your local repo to the remote repo

- pull: get changes from the remote repo to your local repo (and working directory)

repo structure

- flexible

- you might create a separate repo for each project

  - or folders within one repo for each project

- folders for

  - notes, documentation, pics, links, etc.

Branch: **master** ▾   **devops** / +

Create user Doug and add Sudo

timfox1234 authored on May 6

📁 chef/samples	Create user Doug and add Sudo
📁 doc	Starting work on folder structure.
📁 resources	Adds hosts file sample.
📁 scripts	Scripts folder
📄 README.md	Starting work on folder structure.

Merge branch 'master' of github.com:MDeverywhere/status_repo

ecrane authored on Mar 31, 2014

📁	agents	Adds hostname.
📁	config	Adds disk usage agent.
📁	sample_code	Merge branch 'master' of github.com:MDeverywhere/statu
📁	utilities	Adds hostname.
📄	.gitignore	Adds configuration directory with setting for root directory.
📄	README.txt	Initial project created.
📄	__init__.py	Adding some sample code and starting work on utilities.

📁	app	removed statements with balance menu item
📁	config	5.2.0.1
📁	db	Merge branch 'staging' of github.com:MDeverywhere/blender into staging
📁	doc	Main Page adds index link.
📁	lib	Adds all servers to server list in Diagnostic tool.
📁	public	added favicon to public folder.
📁	script	Initial import
📁	spec	Merge branch 'refs/heads/development' into staging
📁	vendor/assets	reverted statement transactions refresh back to polling on page load …
📄	.gitignore	removed gemfile.lock from gitignore
📄	.rspec	Initial rspec work
📄	.rvmrc	Ading ruby 1.9.3-p194 to our project as it has some security fixes
📄	Capfile	First capistrano files
📄	Gemfile	Restoring Gemfile and lock from staging.
📄	Gemfile.lock	Restoring Gemfile and lock from staging.
📄	README.md	readme file update with appropriate attributions.

tools

- CLI - command line interface

  - Terminal on Mac

- GUI

  - GitHub Desktop

  - there are lots of options

- IDE often have built in tools as well

```
14:19:18 shasta:~/dev/src/take2 > git help
usage: git [--version] [--help] [-C <path>] [-c name=value]
           [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
           [-p|--paginate|--no-pager] [--no-replace-objects] [--bare]
           [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
           <command> [<args>]

The most commonly used git commands are:
   add        Add file contents to the index
   bisect     Find by binary search the change that introduced a bug
   branch     List, create, or delete branches
   checkout   Checkout a branch or paths to the working tree
   clone      Clone a repository into a new directory
   commit     Record changes to the repository
   diff       Show changes between commits, commit and working tree, etc
   fetch      Download objects and refs from another repository
   grep       Print lines matching a pattern
   init       Create an empty Git repository or reinitialize an existing one
   log        Show commit logs
   merge      Join two or more development histories together
   mv         Move or rename a file, a directory, or a symlink
   pull       Fetch from and integrate with another repository or a local branch
   push       Update remote refs along with associated objects
   rebase     Forward-port local commits to the updated upstream head
   reset      Reset current HEAD to the specified state
   rm         Remove files from the working tree and from the index
   show       Show various types of objects
   status     Show the working tree status
   tag        Create, list, delete or verify a tag object signed with GPG

'git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>'
to read about a specific subcommand or concept.
14:21:14 shasta:~/dev/src/take2 >
```

+ ∨

master ∨   No Uncommitted Changes   History

Filter Repositories

GitHub

🔒 blender

📱 obliner

Other

🖥 devops

🖥 velaso

Compare ∨   ⟳ Sync

master ●──●──●──●──●──────●──●──●──────●──────●──────●─────────────●────────────◉────────────────○

UI Update
1 month ago by ecrane

UI Cleanup   2 ▸
1 month ago by ecrane

Updates styling for the search.
1 month ago by ecrane

Fixes bug with editing a task and changing the priority of t...
1 month ago by ecrane

Fixes issue with linking from hashtag to the related entity.
1 month ago by ecrane

Adds new style for numeric labels in the app.   8 ▸
1 month ago by ecrane

Fixes bug with Task update when the time entries are not...
1 month ago by ecrane

assets
1 month ago by ecrane

Cleaning up.
1 month ago by ecrane

working on deployment   5 ▸
1 month ago by ecrane

MD **More style updates.**   16 ▸
1 month ago by mdeadmin

MD **Bug fixes**
1 month ago by mdeadmin

MD **Style updates, etc.**   33 ▸
1 month ago by mdeadmin

UI Update

Updates UI of the reassign to project partial on the task view.

👤 ecrane ⟜ a7e0515 🕐 1 month ago ⚙ ∨

app/views/tasks/_reassign.html.erb   ▪▪▪▪▪

```
...    ...    @@ -1,10 +1,27 @@
1      1     <div class="well well-sm">
2      -     <%= form_for @task, :html => { :class => 'form' } do |f| %>
       2     + <%= form_for @task, :html => { :class => 'form-horizontal' } do
             |f| %>
3      3
4      -       <h5>Re-assign to Project</h5>
5      -       <%= collection_select( :task, :project_id,
             @projects, :id, :title ) %>
6      -       <br/>
7      -       <%= f.submit t( :save ), :class => 'btn btn-success' %>
       4   + <div class="container-fluid">
       5   +   <div class="row-fluid">
       6   +     <div class="col-md-12">
       7   +         <h5>Re-assign to Project</h5>
       8   +     </div>
       9   +   </div>
       10  +
       11  +   <div class="row-fluid">
       12  +     <div class="col-md-6">
       13  +       <div class="form-group">
       14  +           <%= collection_select( :task, :project_id,
             @projects, :id, :title,
       15  +                     {}, { :class => 'form-control' } ) %>
       16  +       </div>
       17  +     </div>
       18  +
```

https://desktop.github.com

step-by-step examples

- clone

- status

- add

- commit

- pull

- push

- merge

git clone: get an existing project

Techtonics

① **23** commits	⑂ **2** branches	🏷 **0** releases	👥 **4** contributors

⟳   Branch: **master** ▾   **Techtonics** / +   ☰

Fixed 2 typos

Q   **Qvcool** authored on Feb 11   latest commit **f4761a384d** 📋

📄 README.md	Update README.md	7 months ago
📄 RobotC Program.c	This is stuff.	10 months ago
📄 roboDrive1Joy.c	Update roboDrive1Joy.c	9 months ago
📄 roboDriveComp.c	Update roboDriveComp.c	9 months ago
📄 robotDriving.c	This is stuff.	10 mont
📄 tele2t.c	Fixed 2 typos	7 m
📄 test.txt	testing	11 months ago

📖 **README.md**

<> Code

⊘ Issues   0

⑂ Pull requests   0

▦ Wiki

⌁ Pulse

⊞ Graphs

HTTPS clone URL

https://github.com/(📋

You can clone with HTTPS, SSH, or Subversion. ⑨

⬇ **Clone in Desktop**

⬇ **Download ZIP**

https://github.com/
Techtonics8947/
Techtonics_2015.git

```
> git clone repo_name
```

```
> git clone https://github.com/
Techtonics8947/Techtonics_2015.git
```

```
14:57:36 shasta:~/Dropbox/edu/git > ll
total 16
-rw-r--r--@ 1 ecrane  staff   6148 Sep 14 14:59 .DS_Store
drwxr-xr-x@ 5 ecrane  staff    170 Sep 14 14:59 2015 Git Demo/
14:59:51 shasta:~/Dropbox/edu/git > git clone https://github.com/6tigersrds/Techtonics.git
Cloning into 'Techtonics'...
remote: Counting objects: 65, done.
remote: Total 65 (delta 0), reused 0 (delta 0),      reused 65
Unpacking objects: 100% (65/65), done.
Checking connectivity... done.
15:00:00 shasta:~/Dropbox/edu/git > ll
total 16
-rw-r--r--@  1 ecrane  staff   6148 Sep 14 14:59 .DS_Store
drwxr-xr-x@  5 ecrane  staff    170 Sep 14 14:59 2015 Git Demo/
drwxr-xr-x@ 10 ecrane  staff    340 Sep 14 15:00 Techtonics/
15:00:03 shasta:~/Dropbox/edu/git > ll Techtonics
total 56
drwxr-xr-x@ 13 ecrane  staff    442 Sep 14 15:00 .git/
-rw-r--r--@  1 ecrane  staff     22 Sep 14 15:00 README.md
-rw-r--r--@  1 ecrane  staff   1420 Sep 14 15:00 RobotC Program.c
-rw-r--r--@  1 ecrane  staff   2575 Sep 14 15:00 roboDrive1Joy.c
-rw-r--r--   1 ecrane  staff   2917 Sep 14 15:00 roboDriveComp.c
-rw-r--r--   1 ecrane  staff   1745 Sep 14 15:00 robotDriving.c
-rw-r--r--   1 ecrane  staff   6044 Sep 14 15:00 tele2t.c
-rw-r--r--   1 ecrane  staff      0 Sep 14 15:00 test.txt
15:00:06 shasta:~/Dropbox/edu/git >
```

git status: check the current status of your working folder

Techtonics
- .git
- doc
  - test_file_1.txt
- README.md
- roboDrive1Joy.c
- roboDriveComp.c
- RobotC Program.c
- robotDriving.c
- tele2t.c
- test.txt

test_file_1.txt

```
1   Test File 1
```

```
> git status
```

```
15:19:50 shasta:~/Dropbox/edu/git/Techtonics > git status
On branch master
Your branch is up-to-date with 'origin/master'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)

        doc/

nothing added to commit but untracked files present (use "git add" to track)
15:20:50 shasta:~/Dropbox/edu/git/Techtonics >
```

```
15:22:39 shasta:~/Dropbox/edu/git/Techtonics > git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        new file:   doc/test_file_1.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)

        doc/test_file_2.txt

15:23:39 shasta:~/Dropbox/edu/git/Techtonics >
```

git add: stage modified (or new) files

```
> git add .

> git add doc/test_file_1.txt
```

```
15:27:45 shasta:~/Dropbox/edu/git/Techtonics > git add .
15:28:35 shasta:~/Dropbox/edu/git/Techtonics > git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        new file:   doc/test_file_1.txt
        new file:   doc/test_file_2.txt

15:28:40 shasta:~/Dropbox/edu/git/Techtonics > 
```

git commit: move changes from working directory to local repo

```
> git commit -m "what I did"
```

```
15:28:40 shasta:~/Dropbox/edu/git/Techtonics > git commit -m "adding test files"
[master fe8a41e] adding test files
 2 files changed, 1 insertion(+)
 create mode 100644 doc/test_file_1.txt
 create mode 100644 doc/test_file_2.txt
15:34:17 shasta:~/Dropbox/edu/git/Techtonics > []
```

```
15:34:17 shasta:~/Dropbox/edu/git/Techtonics > git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
nothing to commit, working directory clean
15:51:10 shasta:~/Dropbox/edu/git/Techtonics >
```

git pull: get the latest changes from the remote repo

```
> git pull origin master
```

```
15:51:10 shasta:~/Dropbox/edu/git/Techtonics > git pull origin master
From https://github.com/6tigersrds/Techtonics
 * branch            master       -> FETCH_HEAD
Already up-to-date.
15:53:18 shasta:~/Dropbox/edu/git/Techtonics >
```

git push: put your changes on the remote repo

```
> git push origin master
```

```
7:16:10 shasta:~/Dropbox/edu/git/Techtonics_2015 > git push origin master
Counting objects: 4, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 330 bytes | 0 bytes/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To https://github.com/Techtonics8947/Techtonics_2015.git
   724ee0b..99c3f88  master -> master
```

merge: resolve differences

Techtonics_2015
- .git
- doc
  - test_file_1.txt
  - test_file_2.txt
- README.md

test_file_1.txt

```
1   Test File 1
2
3   I have more to say.  So I've added more content to test
    file 1.
4
```

```
                                              zsh

7:24:35 shasta:~/Dropbox/edu/git/Techtonics_2015 > git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   doc/test_file_1.txt

no changes added to commit (use "git add" and/or "git commit -a")
7:28:46 shasta:~/Dropbox/edu/git/Techtonics_2015 > git add doc/test_file_1.txt
7:28:54 shasta:~/Dropbox/edu/git/Techtonics_2015 > git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   doc/test_file_1.txt

7:28:58 shasta:~/Dropbox/edu/git/Techtonics_2015 > git commit -m "saying more things..."
[master 4ef67d1] saying more things...
 1 file changed, 2 insertions(+)
7:29:21 shasta:~/Dropbox/edu/git/Techtonics_2015 > git pull origin master
remote: Counting objects: 8, done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 8 (delta 0), reused 8 (delta 0), pack-reused 0
Unpacking objects: 100% (8/8), done.
From https://github.com/Techtonics8947/Techtonics_2015
 * branch            master     -> FETCH_HEAD
   383ee4a..51a16ee  master     -> origin/master
Auto-merging doc/test_file_1.txt
CONFLICT (content): Merge conflict in doc/test_file_1.txt
Automatic merge failed; fix conflicts and then commit the resu
[1] 7:29:27 shasta:~/Dropbox/edu/git/Techtonics_2015 >
```

Techtonics_2015

> .git
∨ doc
　　 test_file_1.txt
　　 test_file_2.txt
　　 test_file_3.txt
　 README.md

test_file_1.txt

```
1   Test File 1
2
3   <<<<<<< HEAD
4   I have more to say.  So I've added more content to test
    file 1.
5   =======
6   Someone else added more stuff here.
7   >>>>>>> 51a16eeb23c19f2b18514c93327b49f1b24e6112
8
```
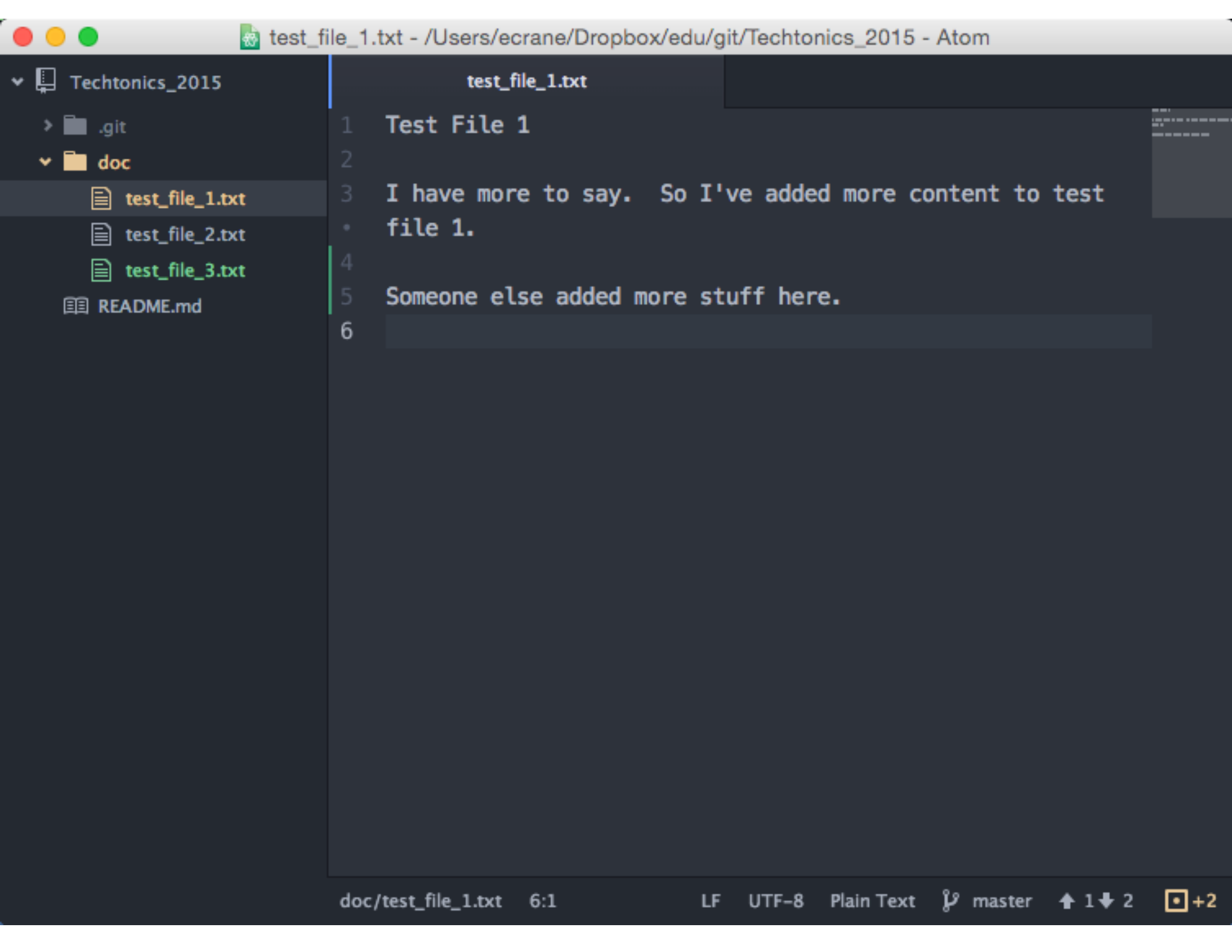
test_file_1.txt - /Users/ecrane/Dropbox/edu/git/Techtonics_2015 - Atom

Techtonics_2015
  > .git
  ∨ doc
      test_file_1.txt
      test_file_2.txt
      test_file_3.txt
  README.md

test_file_1.txt

```
1  Test File 1
2
3  I have more to say.  So I've added more content to test
   file 1.
4
5  Someone else added more stuff here.
6
```

doc/test_file_1.txt   6:1   LF   UTF-8   Plain Text   master   ↑ 1 ↓ 2   +2

```
zsh

[1] 7:29:27 shasta:~/Dropbox/edu/git/Techtonics_2015 > git status
On branch master
Your branch and 'origin/master' have diverged,
and have 1 and 2 different commits each, respectively.
  (use "git pull" to merge the remote branch into yours)
You have unmerged paths.
  (fix conflicts and run "git commit")

Changes to be committed:

        new file:   doc/test_file_3.txt

Unmerged paths:
  (use "git add <file>..." to mark resolution)

        both modified:   doc/test_file_1.txt

7:33:11 shasta:~/Dropbox/edu/git/Techtonics_2015 > git add .
7:33:13 shasta:~/Dropbox/edu/git/Techtonics_2015 > git status
On branch master
Your branch and 'origin/master' have diverged,
and have 1 and 2 different commits each, respectively.
  (use "git pull" to merge the remote branch into yours)
All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

Changes to be committed:

        modified:   doc/test_file_1.txt
        new file:   doc/test_file_3.txt

7:33:17 shasta:~/Dropbox/edu/git/Techtonics_2015 > git commit -m "merging changes"
[master dbbb73a] merging changes
7:33:32 shasta:~/Dropbox/edu/git/Techtonics_2015 >
```

```
7:33:32 shasta:~/Dropbox/edu/git/Techtonics_2015 > git push origin master
Counting objects: 8, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (8/8), 829 bytes | 0 bytes/s, done.
Total 8 (delta 1), reused 0 (delta 0)
To https://github.com/Techtonics8947/Techtonics_2015.git
   51a16ee..dbbb73a  master -> master
7:34:18 shasta:~/Dropbox/edu/git/Techtonics_2015 >
```

step-by-step examples

- clone

- status

- add

- commit

- pull

- push

- merge

git clone: get an existing project

Watch ▾ 5   ★ Star 0   ⑂ Fork 0

Techtonics

ⓣ **23** commits	⑂ **2** branches	◌ **0** releases	⌂ **4** contributors

Branch: **master** ▾   **Techtonics** / +

Fixed 2 typos

Q **Qvcool** authored on Feb 11   latest commit f4761a384d

📄 README.md	Update README.md	7 months ago
📄 RobotC Program.c	This is stuff.	10 months ago
📄 roboDrive1Joy.c	Update roboDrive1Joy.c	9 months ago
📄 roboDriveComp.c	Update roboDriveComp.c	9 months ago
📄 robotDriving.c	This is stuff.	10 months ago
📄 tele2t.c	Fixed 2 typos	7 months ago
📄 test.txt	testing	11 months ago

📖 **README.md**

‹› **Code**

① Issues   0

⑂ Pull requests   0

▥ Wiki

⌁ Pulse

▥ Graphs

HTTPS clone URL

https://github.com/(

You can clone with HTTPS, SSH, or Subversion. ⑦

⬇ **Clone in Desktop**

⬇ **Download ZIP**

No Uncommitted Changes History

master

Pull Request

Filter Repositories

Sync

GitHub
- blender
- ftc_app
- obliner

Other
- devops
- velaso

Clone As: Techtonics

Tags:

src Search

Favorites
- Recents
- iCloud Drive
- Desktop
- ecrane
- Applications
- Documents
- Dropbox

Shared
- Aravis
- caspian
- crane_imac
- Cranehouse Time Ca…
- glenstorm
- MDe Airport 1

Name	Date Modified
▶ 📁 blog	Mar 27, 2014, 8:18
▶ 📁 ftc_app	Today, 3:11 PM
▶ 📁 take2	Sep 10, 2015, 7:0
▶ 📁 take2 copy	Mar 27, 2014, 8:18
▶ 📁 velaso	Jul 30, 2015, 6:49

New Folder   Cancel   Clone

Summary

Description

Commit to master

No Uncommitted Changes | History
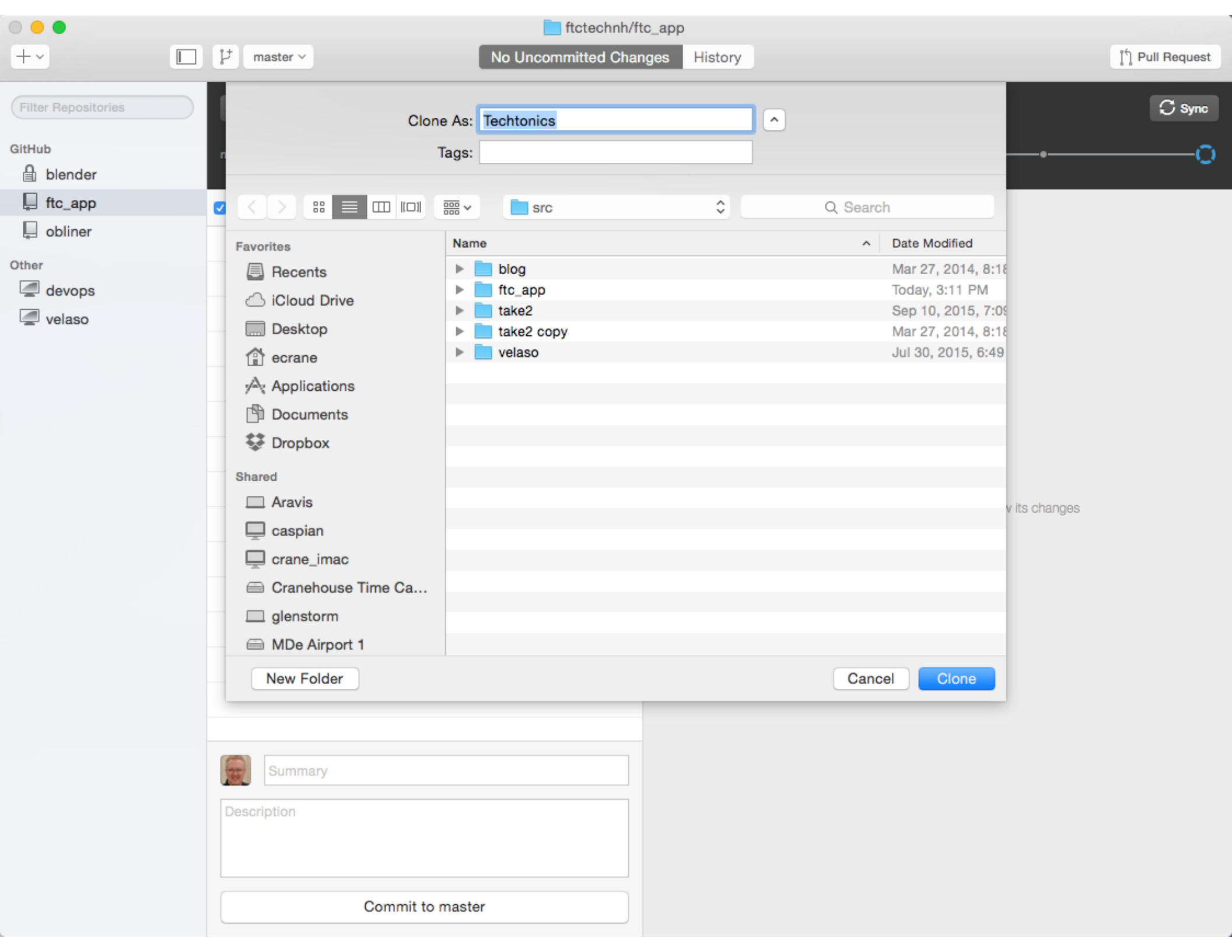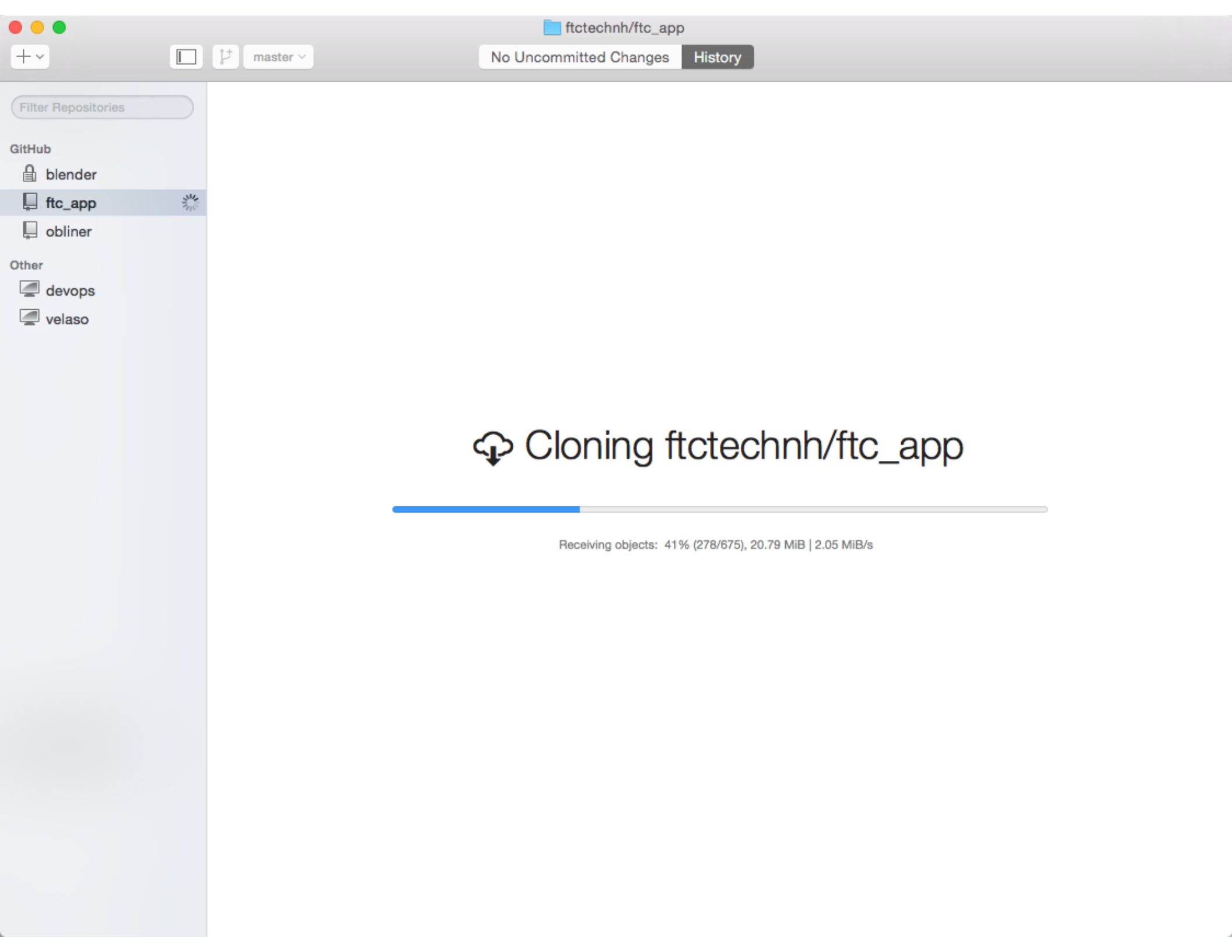
master

Filter Repositories

GitHub
- 🔒 blender
- 🖥 ftc_app
- 🖥 obliner

Other
- 🖥 devops
- 🖥 velaso

☁ Cloning ftctechnh/ftc_app

Receiving objects: 41% (278/675), 20.79 MiB | 2.05 MiB/s

+ ∨

master ∨

Filter Repositories

Compare ▾

GitHub

master ●──●──●──●──────●──●──●──●──●────●

🔒 blender

📖 ftc_app

📖 obliner

📖 **Techtonics**

Other

🖥 devops

🖥 velaso

Q	**Fixed 2 typos** 7 months ago by Qvcool

Q	**still not yet tested (revert to 1.0.0 if not working)** 7 months ago by Qvcool

Q	**Update tele2t.c --not tested** 7 months ago by Qvcool

▦	**Fixed latches, acceleration, flywheel(!), ... ready for co...** 7 months ago by jonjsaju

Q	**Delete tele1t.c** 7 months ago by Qvcool

Q	**Worked on steering** 7 months ago by Qvcool

Q	**Described the functions of variables** 7 months ago by Qvcool

Q	**Update README.md** 7 months ago by Qvcool

Q	Rename tele2t to tele2t.c

Fixed 2 typos

Q Qvcool ⊸ f4761a3 🕐 7 month

tele2t.c

```
      @@ -24,7 +24,7 @@
 24   24
 25   25      #include "JoystickD
 26   26      int handling = 0.4;
 27        -   int accelerationCoo
      27   +  int accelerationCoo
 28   28      int accelerationInt
 29   29      int threshold = 15;
 30   30      int outerServoDownA
      @@ -95,10 +95,10 @@
 95   95            else {
 96   96                rob
 97   97            }
 98        -           acceler
      98   +           acceler
 99   99            }
```

git status: check the current status of your working folder

Techtonics
- .git
- doc
  - test_file_3.txt
- README.md
- roboDrive1Joy.c
- roboDriveComp.c
- RobotC Program.c
- robotDriving.c
- tele2t.c
- test.txt

test_file_3.txt

```
1   333
2
```
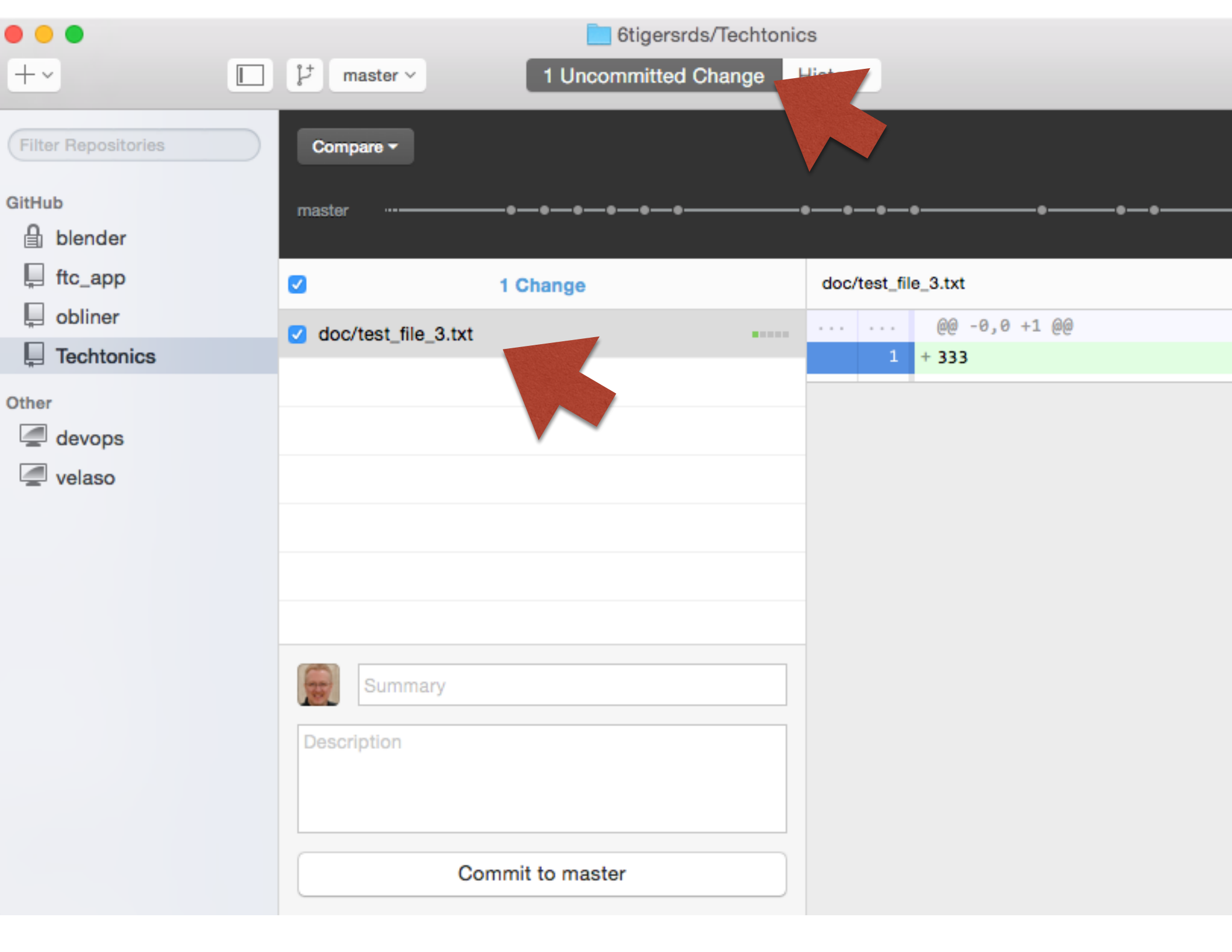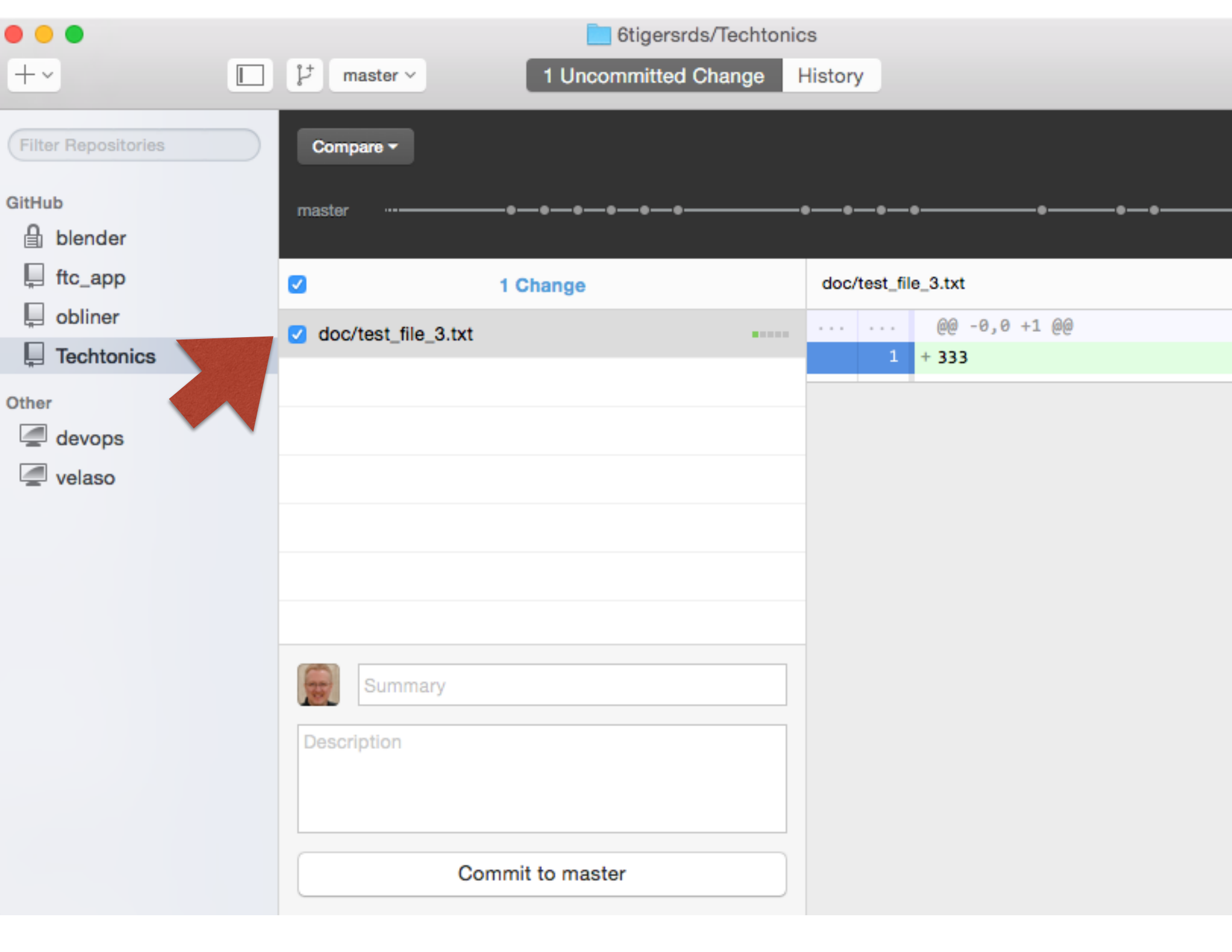
master

1 Uncommitted Change   Hist

Compare

master

Filter Repositories

GitHub

blender

ftc_app

obliner

Techtonics

Other

devops

velaso

1 Change

doc/test_file_3.txt

doc/test_file_3.txt

@@ -0,0 +1 @@

1   + 333

Summary

Description

Commit to master

git add: stage modified (or new) files

1 Uncommitted Change   History

Filter Repositories

Compare ▾

master

GitHub

🔒 blender

📖 ftc_app

📖 obliner

📖 Techtonics

Other

🖥 devops

🖥 velaso

☑ **1 Change**

☑ doc/test_file_3.txt

doc/test_file_3.txt

		@@ -0,0 +1 @@
	1	+ 333

Summary

Description

Commit to master

git commit: move changes from working directory to local repo

✅	**1 Change**		doc/test_file_3.txt	
✅	doc/test_file_3.txt	▪▫▫▫▫	`@@ -0,0 +1 @@`	
			1	`+ 333`

more test files

Description

Commit to master

master

No Uncommitted Changes   History

Pull Request

Filter Repositories

Compare

Sync

GitHub
- 🔒 blender
- 📖 ftc_app
- 📖 obliner
- 📖 **Techtonics**

Other
- 🖥 devops
- 🖥 velaso

master

more test files
Just now by ecrane

Fixed 2 typos
7 months ago by Qvcool

still not yet tested (revert to 1.0.0 if not working)
7 months ago by Qvcool

Update tele2t.c --not tested
7 months ago by Qvcool

Fixed latches, acceleration, flywheel(!), ... ready...
7 months ago by jonjsaju

Delete tele1t.c
7 months ago by Qvcool

Worked on steering
7 months ago by Qvcool

Described the functions of variables
7 months ago by Qvcool

Update README.md

more test files

ecrane   ○ 823a180   🕐 Just now   ⚙ ▾

doc/test_file_3.txt

		@@ -0,0 +1 @@
...	...	
	1	+ 333

git pull: get the latest changes from the remote repo

Show Branches   ⌘B

Open in Finder   ⇧⌘F
Open in Terminal   ⌘T
Open in Atom   ⇧⌘A

Sync   ⌘S
Push   ⌘P
Pull   ⇧⌘P

Undo Most Recent Commit   ⌥⌘Z

Create Pull Request...   ⌘R
View on GitHub   ⌥⌘G

Repository Settings...

Discard Changes to Selected Files...
Restore Discarded Changes

+ ∨   master ∨   Pull Request

Filter Repositories   Compare ∨   Sync

GitHub

🔒 blender   master   ─────O─◯

📖 ftc_app
                 more te⋯   e test files
📖 obliner   2 minute⋯
                                          rane ─◦─ 823a180 🕐 2 minutes ago ⚙ ∨
📖 **Techtonics**
                 Q   Fixed 2   st_file_3.txt   ▪▪▪▪▪
Other   7 month⋯
                                                   @@ -0,0 +1 @@
🖥 devops   Q   still not
                     7 month⋯   1   + 333
🖥 velaso
                 Q   Update tele2t.c --not tested
                     7 months ago by Qvcool

                 ⬛   Fixed latches, acceleration, flywheel(!), ... ready...
                     7 months ago by jonjsaju

                 Q   Delete tele1t.c
                     7 months ago by Qvcool

                 Q   Worked on steering
                     7 months ago by Qvcool

                 Q   Described the functions of variables
                     7 months ago by Qvcool

                     Update README.md

git push: put your changes on the remote repo

Repository	
Show Branches	⌘B
Open in Finder	⇧⌘F
Open in Terminal	⌘T
Open in Atom	⇧⌘A
Sync	⌘S
Push	**⌘P**
Pull	⇧⌘P
Undo Most Recent Commit	⌥⌘Z
Create Pull Request...	⌘R
View on GitHub	⌥⌘G
Repository Settings...	
Discard Changes to Selected Files...	
Restore Discarded Changes	

+ ∨

master ∨

Compare ∨

Filter Repositories

GitHub

blender

ftc_app

obliner

Techtonics

Other

devops

velaso

more tes...
1 minute

Q Fixed 2
7 months

Q still not
7 months

Q Update tele2t.c --not tested
7 months ago by Qvcool

Fixed latches, acceleration, flywheel(!), ... ready...
7 months ago by jonjsaju

Q Delete tele1t.c
7 months ago by Qvcool

Q Worked on steering
7 months ago by Qvcool

Q Described the functions of variables
7 months ago by Qvcool

e test files

rane   ⊶ 823a180   🕒 1 minute ago   ⚙ ∨

st_file_3.txt

@@ -0,0 +1 @@

1   + 333

58

59

60

61

62

63

64

65

master ∨   No Uncommitted Changes   History   Pull Request

Filter Repositories

Compare ∨   Sync

GitHub

🔒 blender

📖 ftc_app

📖 obliner

📖 Techtonics

Other

🖥 devops

🖥 velaso

master ●–○

more test files
2 minutes ago by ecrane   ○

Fixed 2 typos
Q 7 months ago by Qvcool

still not yet tested (revert to 1.0.0 if not working)
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Q 7 months ago by Qvcool

Described the functions of variables
Q 7 months ago by Qvcool

Update README.md

more test files

ecrane ○ 823a180 🕐 2 minutes ago ⚙ ∨

doc/test_file_3.txt

```
...  ...  @@ -0,0 +1 @@
       1  + 333
```

merge: resolve differences

Techtonics_2015
- .git
- doc
  - test_file_1.txt
  - test_file_2.txt
  - test_file_3.txt
- README.md

test_file_2.txt

1

Techtonics_2015

- > .git
- ∨ doc
  - test_file_1.txt
  - test_file_2.txt
  - test_file_3.txt
- README.md

test_file_2.txt

```
1    1
2    2
3    3
4    4
5    5
6    6
7    7
8
```

master ⌄

Compare ▾

Sync

master ●———●——●——●—⊢⊸—○

1 Change

doc/test_file_2.txt

☑ doc/test_file_2.txt

@@ -0,0 +1,7 @@

1 + 1
2 + 2
3 + 3
4 + 4
5 + 5
6 + 6
7 + 7

Summary

Description

Commit to master

GitHub

🔒 blender

📖 ftc_app

📖 obliner

📖 Techtonics_2014

📖 Techtonics_2015

Other

🖥 devops

🖥 velaso

Filter Repositories

er Repositories

ub

blender

ftc_app

obliner

Techtonics_2014

Techtonics_2015

r

devops

velaso

Co

maste

☑

☑ do

Sync Conflicts

Please resolve all conflicted files, commit, then try syncing again.

Close

There were conflicting changes to this file, but not to worry! You can resolve the conflicts in an editor, or show the file in the Finder.
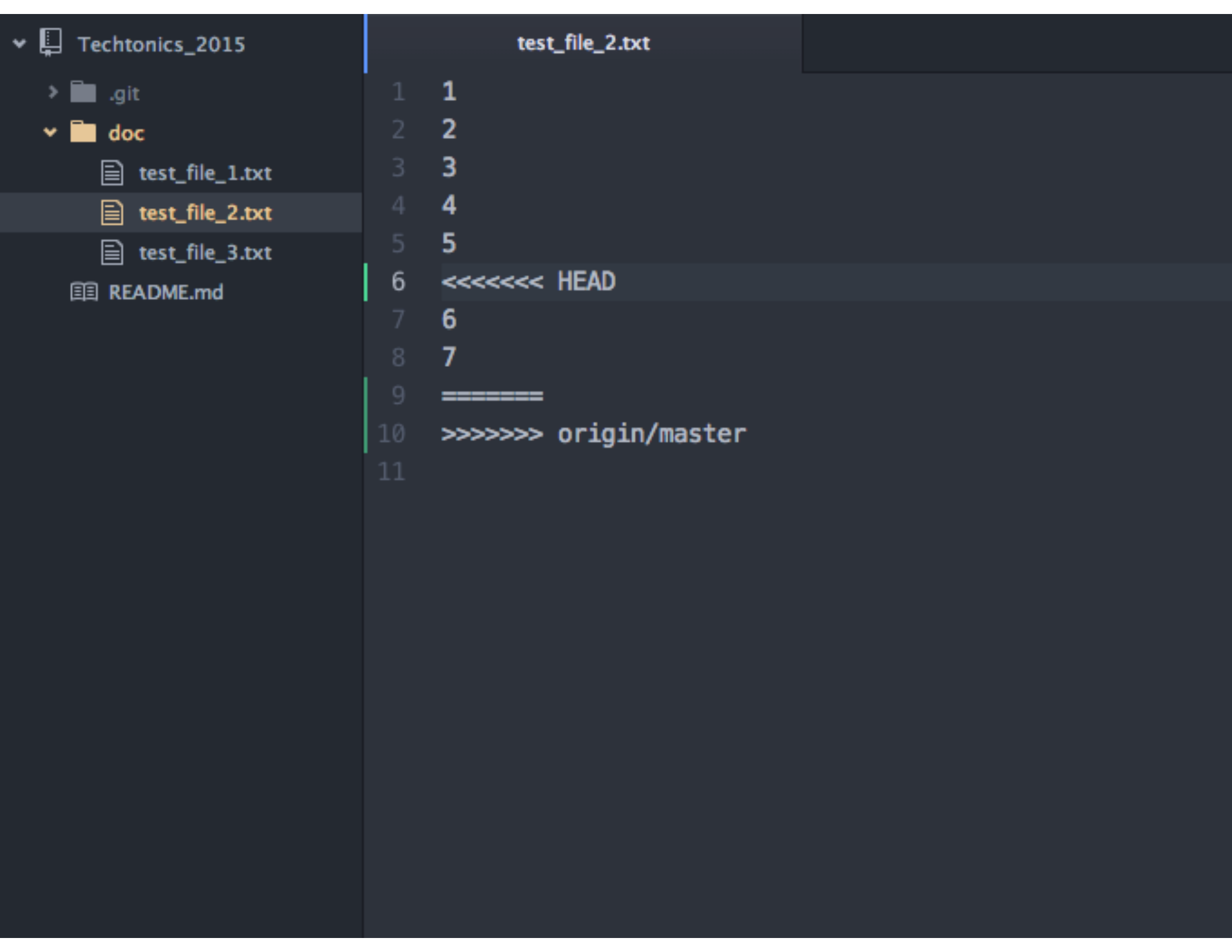
Show in Finder   Open with External Editor

Merge remote-tracking branch 'c

Commit to master

```
Techtonics_2015                    test_file_2.txt
  .git
  doc                    1    1
    test_file_1.txt      2    2
    test_file_2.txt      3    3
    test_file_3.txt      4    4
  README.md              5    5
                         6    <<<<<<< HEAD
                         7    6
                         8    7
                         9    =======
                        10    >>>>>>> origin/master
                        11
```

Techtonics_2015

- .git
- doc
  - test_file_1.txt
  - test_file_2.txt
  - test_file_3.txt
- README.md

test_file_2.txt

```
1  1
2  2
3  3
4  4
5  5
6  6
7  7
8
```

master ∨ | 1 Uncommitted Change | History | Pull Request

Compare ∨

Sync

master

Filter Repositories

GitHub

🔒 blender

🖥 ftc_app

🖥 obliner

🖥 Techtonics_2014

🖥 Techtonics_2015

Other

🖥 devops

🖥 velaso

☑ 1 Change

☑ doc/test_file_2.txt

doc/test_file_2.txt

There were conflicting changes to this file, but not to worry! You can resolve the conflicts in an editor, or show the file in the Finder.

Show in Finder | Open with External Editor

Merge remote-tracking branch 'c

Conflicts:
    doc/test_file_2.txt

Commit to master

Committed 2 minutes ago
adding content to test file 3 | Undo

master

No Uncommitted Changes   History

Pull Request

Compare

Sync

master

Filter Repositories

GitHub

🔒 blender

📖 ftc_app

📖 obliner

📖 Techtonics_2014

📖 Techtonics_2015

Other

🖥 devops

🖥 velaso

☑ **0 Changes**

No Changes

ProTip! Select a commit above to view its changes

Summary

Description

Commit to master

advanced topics

- .gitignore

- stash

- history

- branching

Resources

- https://en.wikipedia.org/wiki/Version_control

- https://bitbucket.org

- http://www.git-scm.com/doc

- https://codewords.recurse.com/issues/two/git-from-the-inside-out

- https://desktop.github.com