



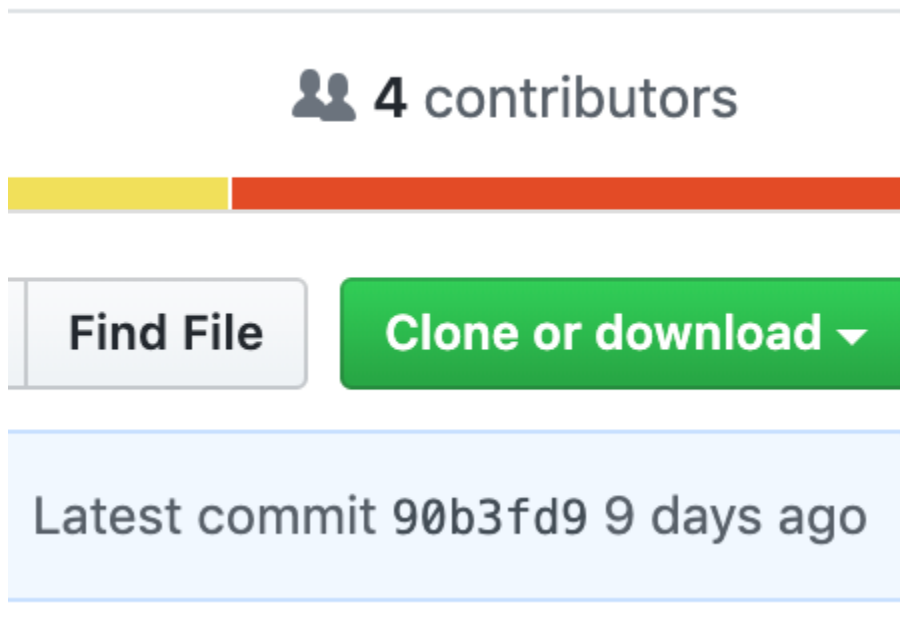
# GitHub Tutorial

## Part 1 Starting From Scratch

You want your own brand new branch!!!!

### Steps

1. Find your repo on github.com
2. Then you gotta click the green button in the below image and copy the link to a clipboard



3. Then open a terminal and navigate to where you want to place the file and type in the following command followed by the link you just copied

```
git clone <link you copied>
```

JavaScript ▾

Note: exclude the <>

4. Now you can do the following command to see what branch you are on

```
git branch
```

JavaScript ▾

and you should get an output that looks like so

```
Ricardos-MacBook-Pro:src ricardo$ git branch * WCTest
codeClimateTest esther-showroom gh-pages hello-world-code lit-
element-baseclass master r3molina/ch820/test-cafe
```

JavaScript ▾

The \* shows what branch I'm currently on (yours should show the \* next to the master)

5. Done

## Part 2. Pulling From a Non Master Branch

### Steps

1. git fetch

2. use `git branch --all` (the `all` flag will show you all the branches on the github) (theres no space between the dashes but this thing formats it as a single line if I remove it)

```
Ricardos-MacBook-Pro:src ricardo$ git branch --all
* WCTest
  codeClimateTest
  esther-showroom
  gh-pages
  hello-world-code
  lit-element-baseclass
  master
  r3molina/ch820/test-cafe
  remotes/origin/HEAD -> origin/master
  remotes/origin/codeClimateTest
  remotes/origin/esther-showroom
```

The Ones in white are the ones you currently have and can switch between freely the red ones on the other hand are the ones we are after

3. `git checkout`

```
git checkout --track origin/<branch your after>
```

JavaScript ▾

for example if I wanted to use `esther-showroom` branch

```
git checkout --track origin/esther-showroom
```

JavaScript ▾

4. Then create a new branch

## **Part 3 Creating a new branch**

1. At this point you should be on some kinda branch
2. run `git checkout -b <follow Part 4>` (note if you are just testing you can name this whatever you want).

## **Part 4 Selecting branch name**

1. Think of a name you want to call this branch it should let everyone know what you are currently working on. For Our project you will do the following steps to select a name.

1. You need to open clubhouse so follow this link

<https://app.clubhouse.io/ucsdscse112sp19teameleven/projects>

2. Select stories from the left bar



DASHBOARD



STATUS



STORIES



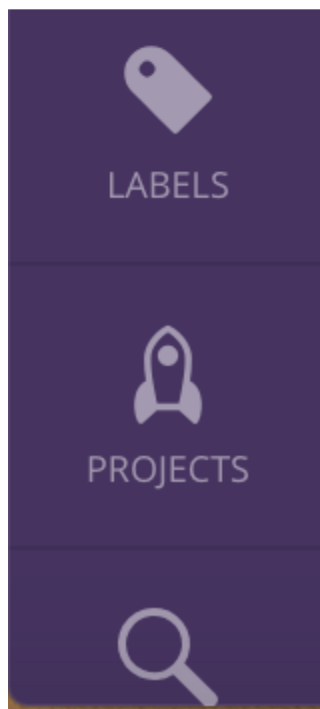
EPICS



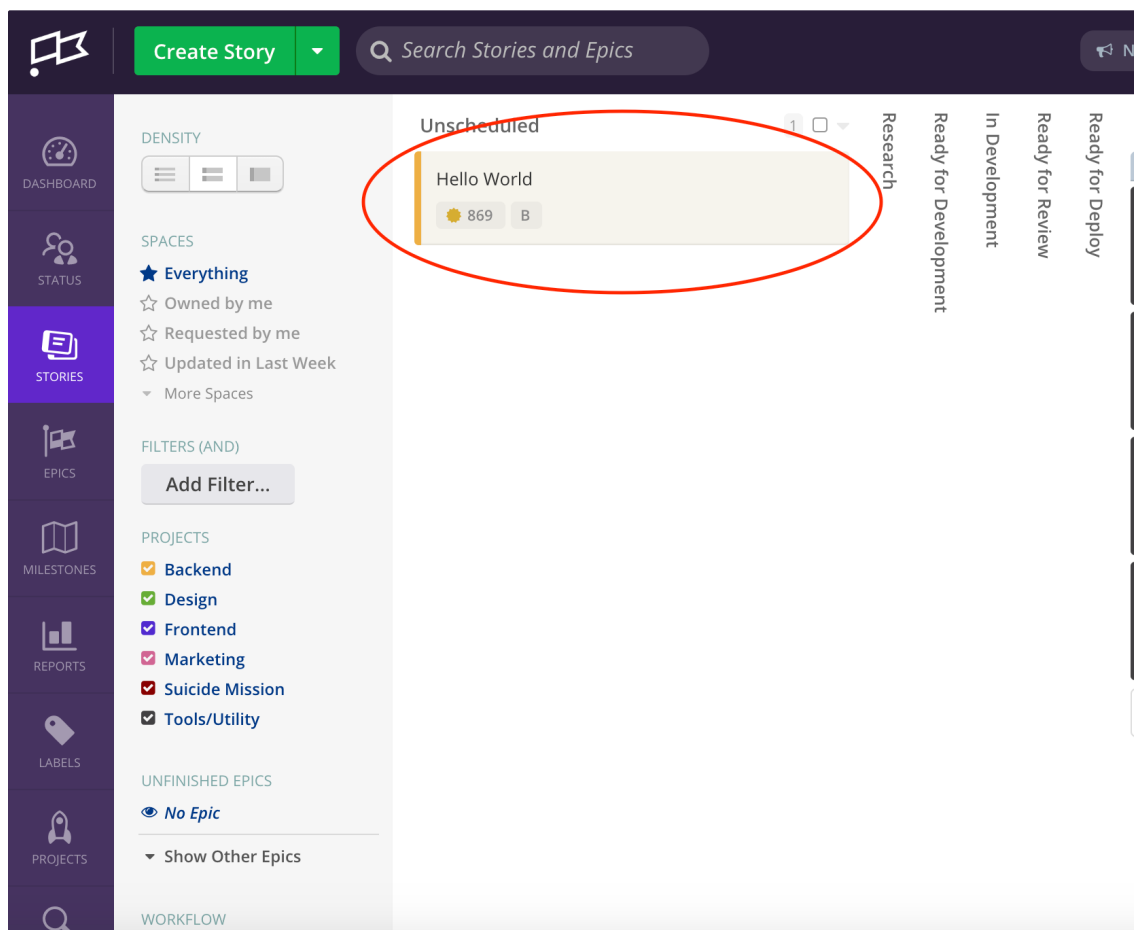
MILESTONES



REPORTS



3. Select the Story you want to work on



#### 4. Click the Git helpers button

## Hello World

No description given.

Edit Description

Tasks

+ Add Task...

External Tickets


+ Add External Ticket...

Story Relationships

+ Add Story Relationship...

Comments & Attachments


Attach Files... Oldest first

 **Ricardo Molina**



Add a comment...

Story Activity


Showing: Important Changes Only Oldest first

 **Esther Zhao** created this story in **Unscheduled**  
May 2 2019, 7:06 pm

Story ID

869  

Permalink


<https://app.clubhouse.io/ucs...> 


Project **Backend**

Epic *None*

Type **Feature**


State **Unscheduled**

Requester  **Esther Zhao**

Owner  **Nobody**

Estimate *Unestimated*

Due *No date*

Followers **1** 

Labels

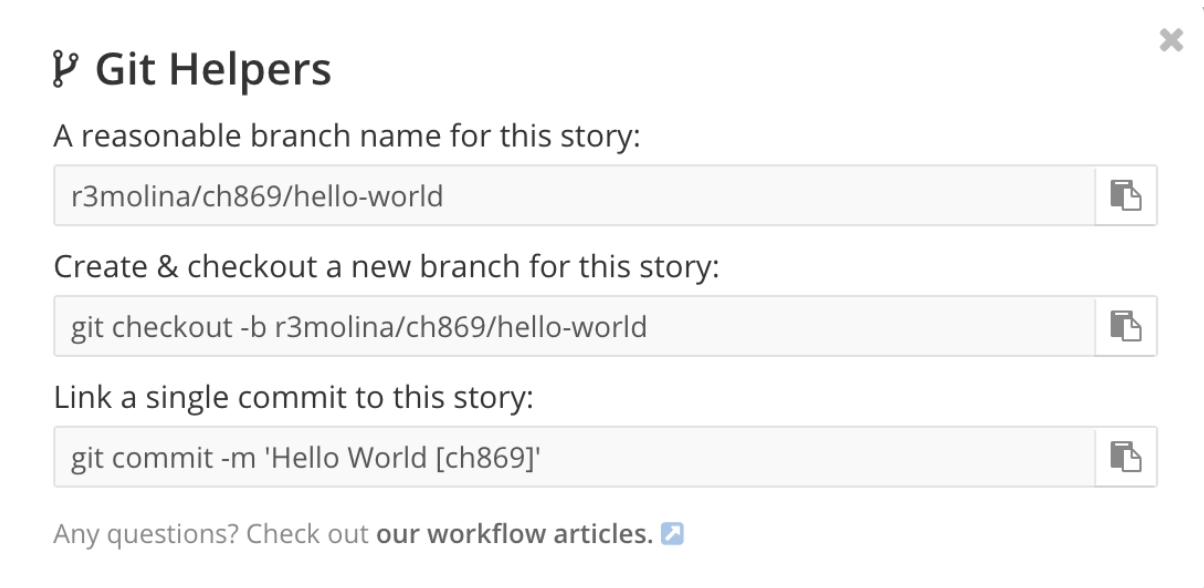
+ Add Labels...

Created

**May 2 2019, 7:06 pm**



5. A new window will appear that looks like this



Option 1. is kinda pointless unless you want to rename your current branch but I've never done this and have no idea if its even possible

Option 2. Is the one you want to use if you copy and past that into the terminal it will create a new branch for you and then from there you simply enter the following commands into the terminal

1. double check your actually on the new branch so do a git branch  
(Instructions are in part 1 step 4)
2. then you will enter the commands git add, git commit -m <option 3 from above> (this is the line that reads git commit -m 'Hello World [ch869]')
  - it should like like this

```
Ricardos-MacBook-Pro:src ricardo$ git add .
Ricardos-MacBook-Pro:src ricardo$ git commit -m "message"
[WCTest 472f8f5] message
5 files changed, 230 insertions(+)
create mode 100644 src/RTutorial.js
create mode 100644 src/test.html
create mode 100644 src/test2.js
create mode 100644 src/to-do-item.js
Ricardos-MacBook-Pro:src ricardo$ g
```

3. now do a git push

```
Ricardos-MacBook-Pro:src ricardo$ git push
fatal: The current branch WCTest has no upstream branch.
To push the current branch and set the remote as upstream, use
git push --set-upstream origin WCTest
Ricardos-MacBook-Pro:src ricardo$
```

on the github as I've never pushed it and plan to just keep it local so if you want to work and play around just never push it)

```
git push --set-upstream origin <your branch name>
```

JavaScript ▾

4. Done

## Part 5 Git Merge

### Steps

1. checkout the branch that you want the changes to appear in
2. then enter the following command

```
git merge < branch you want to merge with (this one will not
be changed)>
```

JavaScript ▾

3. fix merge conflicts
4. done

## Part 6 Cleaning UP

When your all Done with a branch and its fully merged use

```
git branch -d <branch name>
```

JavaScript ▾

to Remove the branch

# Set up SSH Keys

## SSH vs. HTTPS

SSH and HTTPS are the two most commonly used protocols to transfer data between the local and server (GitHub), as you can see when you want to clone a repo:

### Clone with HTTPS ?

[Use SSH](#)

Use Git or checkout with SVN using the web URL.

The biggest advantage of SSH over HTTPS is that once configured, you don't need to login every time to push code. Though you can also save credentials of HTTPS, people tend to use SSH more in a private repo. SSH seems to be faster too.

## Steps

1. Generate a new ssh key. Use default settings by just hitting enter if you never do this before.

```
$ ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
```

Bash ▾

2. Add key to ssh-agent. ssh-agent is a key management software that can automatically manage your authorization process.

```
$ eval "$(ssh-agent -s)" $ open ~/.ssh/config # Use vim or other editor
if you're not using Mac. $ # Add following text to ~/.ssh/config Host *
AddKeysToAgent yes UseKeychain yes IdentityFile ~/.ssh/id_rsa $ ssh-add
-K ~/.ssh/id_rsa
```

Bash ▾

3. Add public key to GitHub.

```
# See your public key. $ cat ~/.ssh/id_rsa.pub > ssh-rsa some-  
encrypted-text your_email@example.com # Copy it. This command is for  
Mac too. # If it doesn't work, use other commands instead or just copy  
it manually. $ pbcopy < ~/.ssh/id_rsa.pub
```

Bash ▾

Now open GitHub Settings <https://github.com/settings/keys>. Click `New SSH Key`, and paste the key here.

4. Test connection.

```
$ ssh -T git@github.com > ...You've successfully authenticated...
```

Bash ▾

## Reference

<https://help.github.com/en/articles/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent>