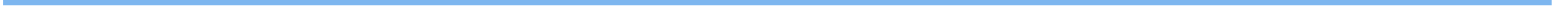


Introduction to .git and GitHub

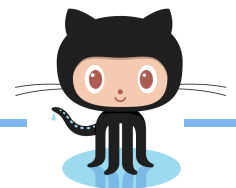
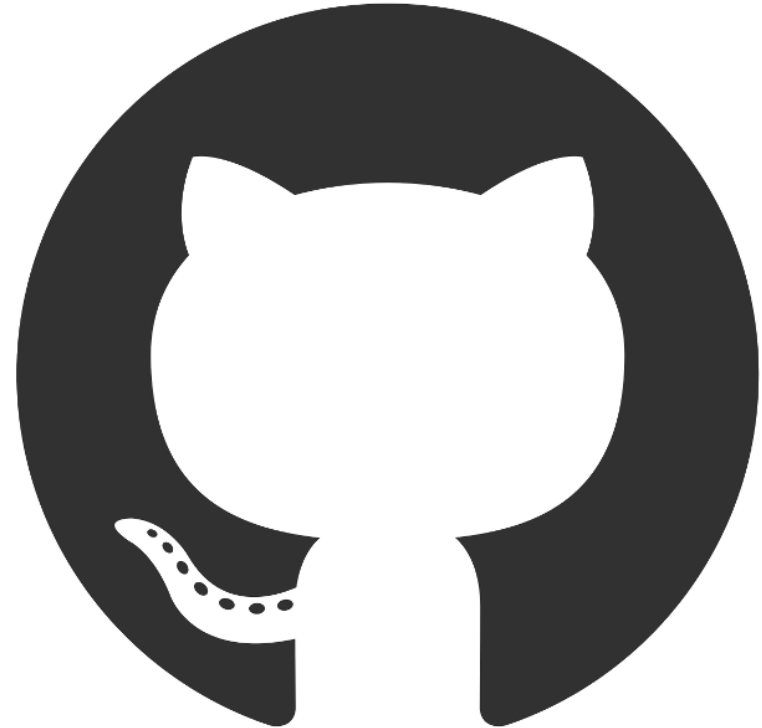


What is .git?

Store files

Share files

Version history



Getting started with GitHub



Install and get account

-> github.com

Username

Pick a username

Email

you@example.com

Password

Create a password

Make sure it's at least 7 characters, including a number, and a lowercase letter.

Sign up for GitHub

By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy statement](#). We'll occasionally send you account related emails.



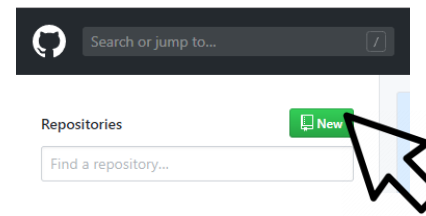
Install and get account

Create repo

Either:

- Create a new directory
- Move into it
- Perform:

`$ git init`




Or:

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner

 alexelthomas ▾

Repository name *

group_example ✓

Great repository names are short and memorable. Need inspiration? How about [legendary-enigma?](#)

Description (optional)

An example repository for everyone to have a go at adding to and pulling from.



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Skip this step if you're importing an existing repository.

☒ Initialize this repository with a README

This will let you immediately clone the repository to your computer.

Add .gitignore: None ▾

Add a license: None ▾



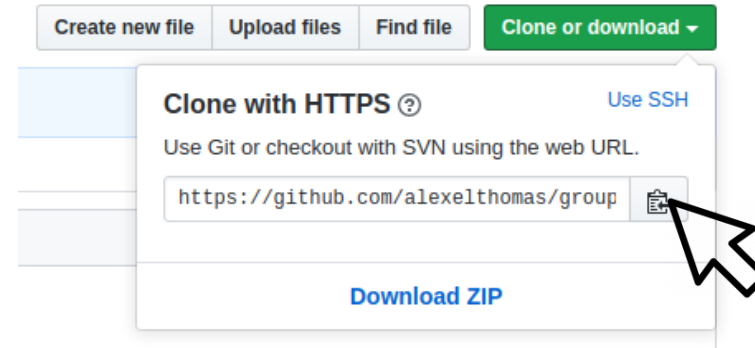
Create repository

Install and get account

Create repo

Clone repo

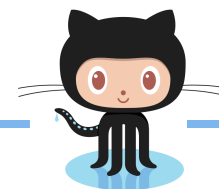
\$ git clone

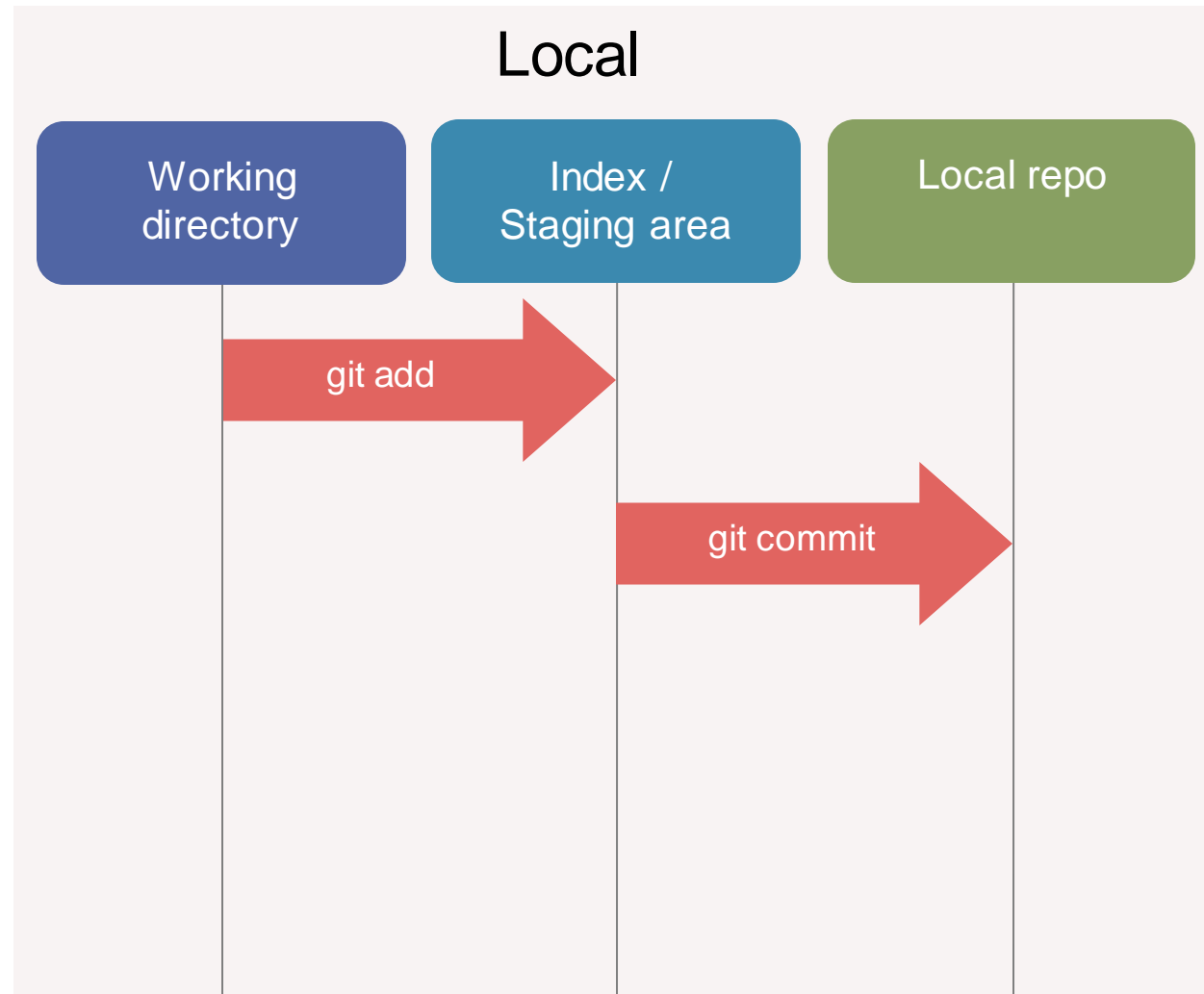


```
alex@alex-BOAMOT-489:~$ git clone https://github.com/alexelthomas/
group_example.git
Cloning into 'group_example'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
```



Basic commands





Install and get account

Create repo

Clone repo

Status

\$ git status

```
alex@alex-BOAMOT-489:~/group_example$ 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)

        GitHub_logo.png

nothing added to commit but untracked files present (use "git add"
to track)
```



Install and get account

Create repo

Clone repo

Status

Add/Remove -> commit

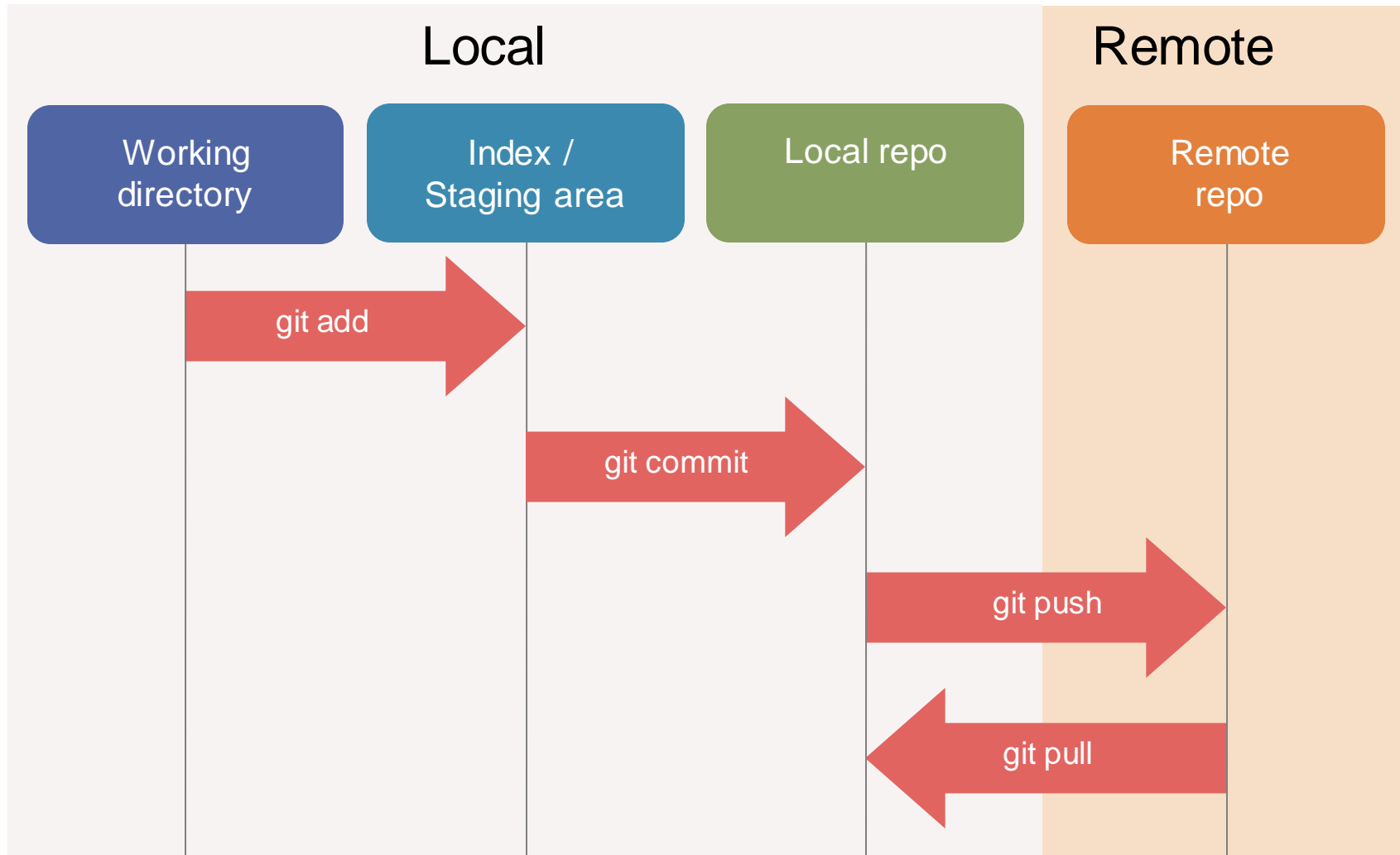
\$ git add

\$ git rm

\$ git commit -m ""

```
alex@alex-BOAMOT-489:~/group_example$ git add GitHub_logo.png
alex@alex-BOAMOT-489:~/group_example$ git rm GitHub_logo.png
rm 'GitHub_logo.png'
alex@alex-BOAMOT-489:~/group_example$ git commit -m "added github
logo"
[master 8297b50] added github logo
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 GitHub_logo.png
```





Install and get account

Create repo

Clone repo

Status

Add -> commit

Push

`$ git push`

```
alex@alex-B0AM0T-489:~/group_example$ git push origin master
Username for 'https://github.com': alexelthomas
Password for 'https://alexelthomas@github.com':
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 7.19 KiB | 7.19 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/alexelthomas/group_example.git
    0c167e8..8297b50  master -> master
```



Install and get account

Create repo

Clone repo

Status

Add -> commit -> push

Pull

`$ git pull`

```
alex@alex-BOAMOT-489:~/group_example$ git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/alexelthomas/group_example
   8297b50..e8ea706  master    -> origin/master
Updating 8297b50..e8ea706
Fast-forward
 gitkraken.svg | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 gitkraken.svg
```



More advanced commands



Branching

Make a new branch

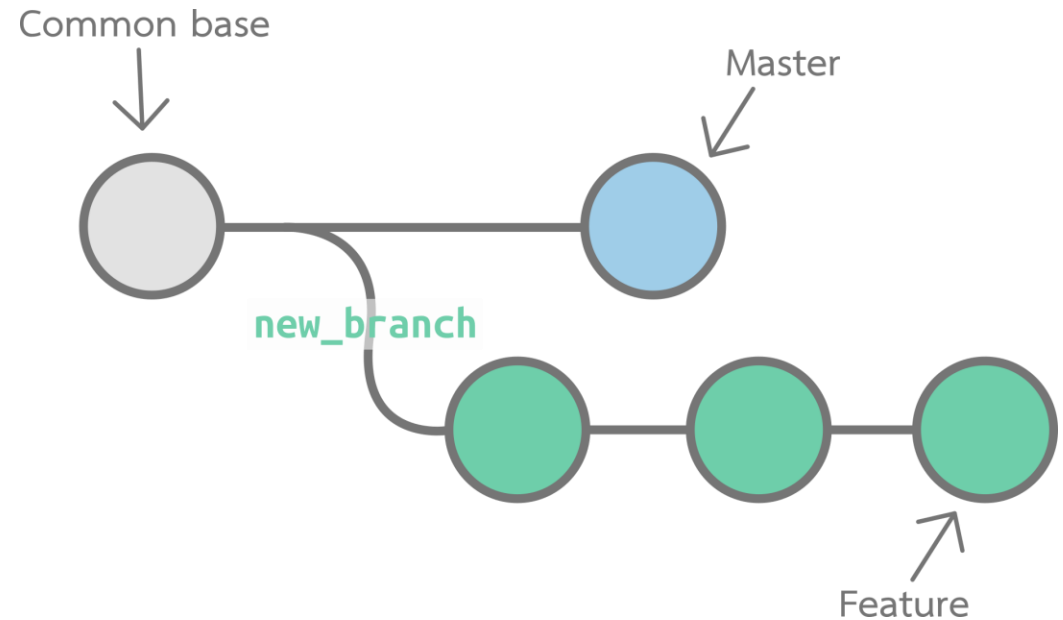
```
$ git checkout -b new_branch
```

Make available to others

```
$ git push origin new_branch
```

Move between branches

```
$ git checkout master
```



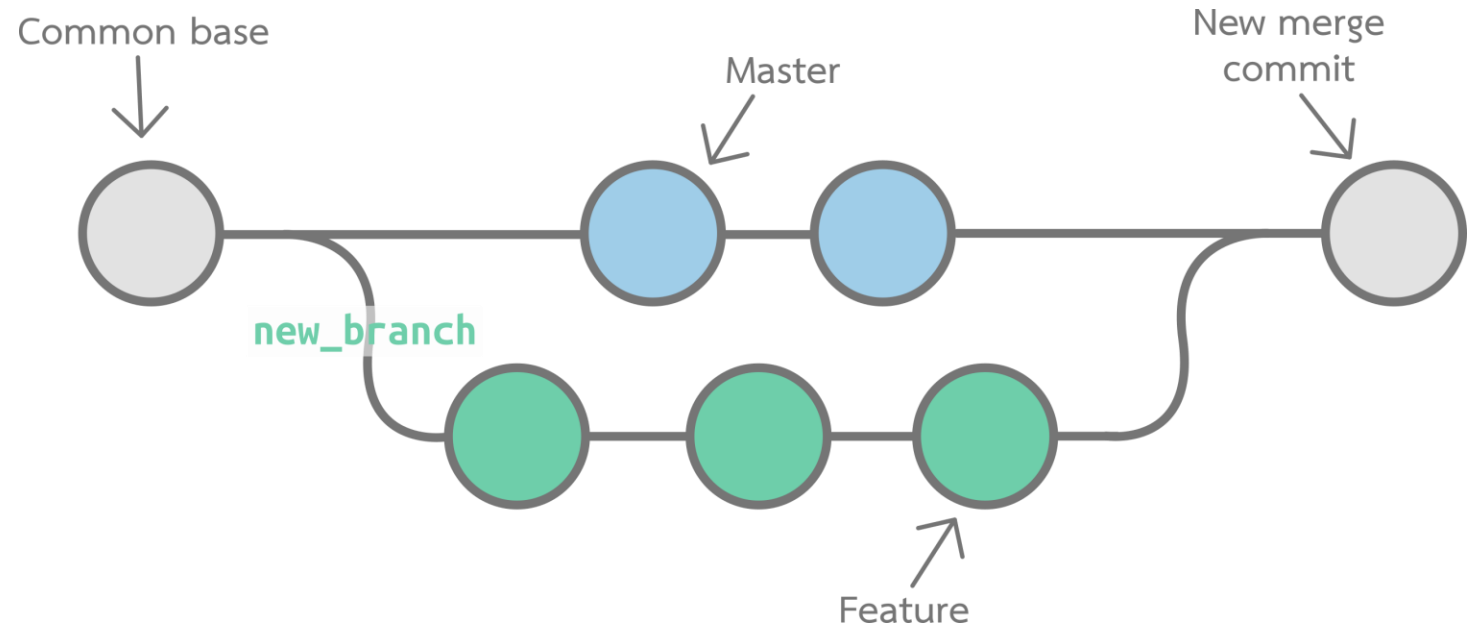
Branching Merging

Merge to your new branch

`$ git merge new_branch`

or

`$ git pull`



Plus more...

To get help:

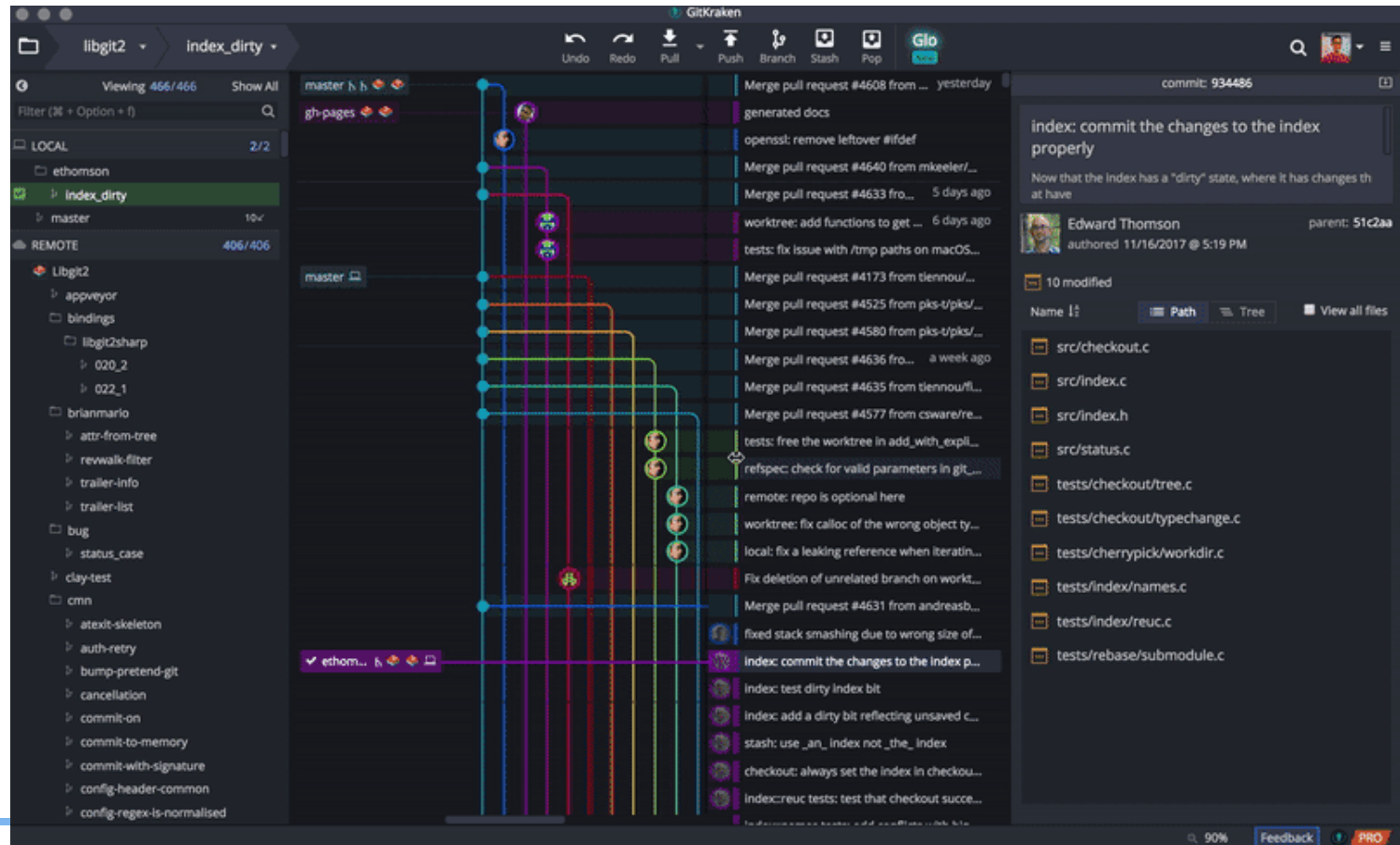
- [Simple beginner's guide](#)
- [Oh Shit, Git!?!](#)
- [Cheat sheet](#)
- Look for step-by-step tutorials.



Interfaces



- Terminal
- [GitKraken](#)
- [gitforwindows](#)



Alternatives

OneDrive

Dropbox

BlueBEAR

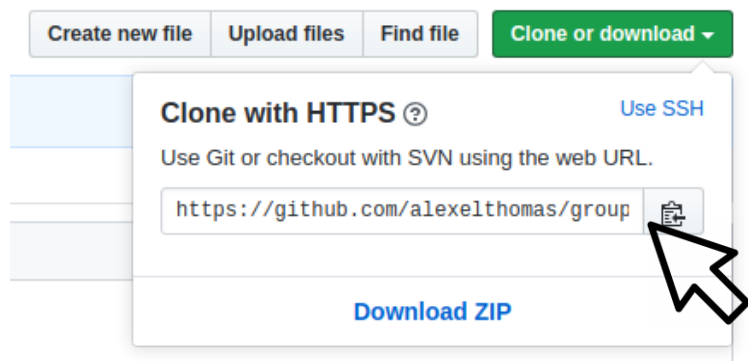
RDS...



Have a go...

Clone repo:

`https://github.com/alexelthomas/group_example.git`



```
alex@alex-BOAMOT-489:~$ git clone https://github.com/alexelthomas/group_example.git
```

Add, commit, push:

```
alex@alex-BOAMOT-489:~/group_example
$ git add GitHub_logo.png
alex@alex-BOAMOT-489:~/group_example
$ git commit -m "added github logo"
On branch master
Your branch is up-to-date with 'origin/master'.

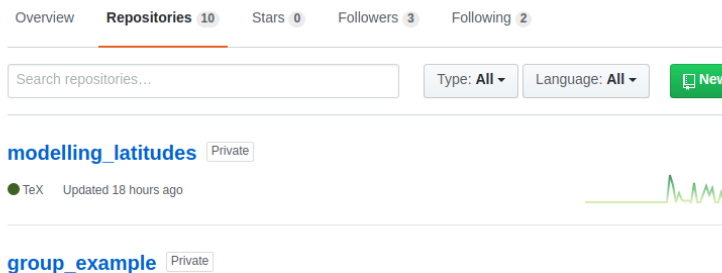
nothing to commit, working tree clean
alex@alex-BOAMOT-489:~/group_example
$ git push
Username for 'https://github.com':
```

Pull:

```
alex@alex-BOAMOT-489:~/group_example
$ git pull origin master
Username for 'https://github.com':
```



alexelthomas



Create repo:

