

# Git

A collection of resources.

## External Guides

- [How to Git](#)

## Bare Git Repository in your CS Home directory

[Source documentation](#)

### SSH to a CS server

```
ssh cnetid@linux.cs.uchicago.edu
```

### Initialize a bare repo in your CS home directory

Note that a bare repo cannot be edited directly. You will need to checkout the repository elsewhere in your home directory.

```
$ mkdir $HOME/gitbare/myproject.git  
$ cd $HOME/gitbare/myproject.git  
$ git init --bare --shared
```

### Check out your repository

Even if you are on one of the linux.cs servers you will need to checkout the bare repo.

```
git clone cnetid@linux.cs.uchicago.edu:~/gitbare/myproject.git
```

### Example

```
laptop:~$ ssh kauffman3@linux.cs.uchicago.edu  
kauffman3@linux3:~$ mkdir myproject.git  
kauffman3@linux3:~$ cd myproject.git/  
kauffman3@linux3:~/gitbare/myproject.git$ git init --bare --shared  
Initialized empty shared Git repository in  
/home/kauffman3/gitbare/myproject.git/
```

```
kauffman3@linux3:~/gitbare/myproject.git$ cd
```

### Clone from inside your CS home

```
kauffman3@linux3:~$ git clone
kauffman3@linux.cs.uchicago.edu:~/gitbare/myproject.git
Cloning into 'myproject'...
kauffman3@linux.cs.uchicago.edu's password:
warning: You appear to have cloned an empty repository.

kauffman3@linux3:~$ cd ~/myproject
kauffman3@linux3:~/gitbare/myproject$ touch README
kauffman3@linux3:~/myproject$ git add README
kauffman3@linux3:~/myproject$ git commit -a
[master (root-commit) b549cd7] add readme
Committer: kauffman3 <kauffman3@linux3.cs.uchicago.edu>
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README

kauffman3@linux3:~/myproject$ git push
kauffman3@linux.cs.uchicago.edu's password:
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 212 bytes | 212.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To linux.cs.uchicago.edu:~/myproject.git
 * [new branch]      master -> master
```

### Clone from your laptop or elsewhere

```
laptop:~$ git clone kauffman3@linux.cs.uchicago.edu:~/myproject.git
Cloning into 'myproject'...
kauffman3@linux.cs.uchicago.edu's password:
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0)
Receiving objects: 100% (3/3), done.

laptop:~$ ls -l myproject/
total 0
-rw-rw-r-- 1 kauffman kauffman 0 Jan 19 10:11 README
```

From:

<https://howto.cs.uchicago.edu/> - **How do I?**

Permanent link:

<https://howto.cs.uchicago.edu/vcs:git?rev=1611072745>

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