

## Compiling LAMMPS from Source:

1.) Go to [bitbucket.org](https://bitbucket.org) (you'll have to create an account here before you can continue)

2.) Once you are signed into your account, proceed to the LAMMPS source:  
<https://bitbucket.org/akohlmeyl/lammps>

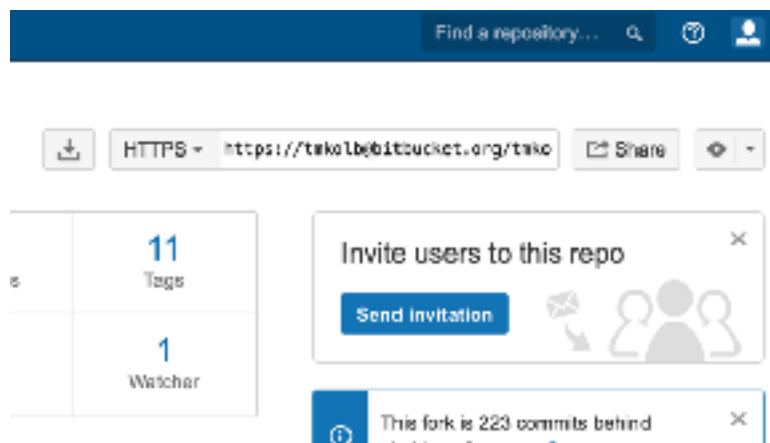
3.) At this point you can either **fork** or **clone** the main source (forking is recommended)

-**forking**: the source will take the most recent source AND your new branch will compare with the original branch you cloned from (when you run updates)

-**cloning**: will also take the most recent files, however, changes in the original are not immediately reflected in your branch

4.) Make an appropriate name for your fork/clone (e.g. lastname\_firstinitial). Now you have your own personal copy of LAMMPS!

5.) Copy the link seen in the upper right hand corner of your out-of-source build (on bitbucket)



6.) Open a terminal window on your machine and navigate to the directory where you would like to house your build of LAMMPS (\$ cd out\_of\_source build)

7.) Input, \$ git clone paste\_url\_here , into your terminal window  
e.g. to my window I typed the following line...

```
git clone https://tmkolb@bitbucket.org/tmkolb/tmkolb-lammps.git
```

8.) In terminal, navigate to the src directory and input, \$ make foo  
(where foo is machine type i.e. make serial)

**To UPDATE your branch (after making changes on bitbucket:**

- 1.) Open a terminal window and navigate to your build of LAMMPS
- 2.) Type 'git pull --all' into your terminal window
- 3.) From the src directory of your build type 'make foo' (where foo is make type i.e. serial)

**To add your own file to a build:**

- 1.) Write the file in the suggested format  
I added a 'fix\_style' file to my build of lammps. And so mimicked a similar 'fix' when writing my file. See this link for instructions:  
[http://lammps.sandia.gov/doc/Section\\_modify.html#mod-6](http://lammps.sandia.gov/doc/Section_modify.html#mod-6)

2.) Put your file in the src directory of your local build

3. Type 'make foo' (i.e. make serial)

If you've written the file correctly, you are now fine to go ahead and use it in your input scripts.