

# CMSC 389N

# Agenda

- Git workflow overview and description
- Setting Up Git
- Commit and push first changes

# Important Command Line Commands!

cd

ls

git

sudo (may or may not need this depending on how your local environment is configured)

code (need to set this up yourself)

# Important Command Line Commands!

cd- Change directory, must be followed by a folder to enter

ls - List files and folders in current directory

git- Must precede any git commands

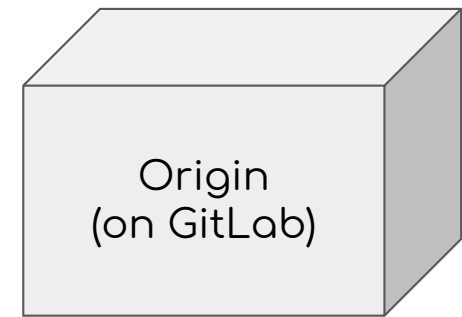
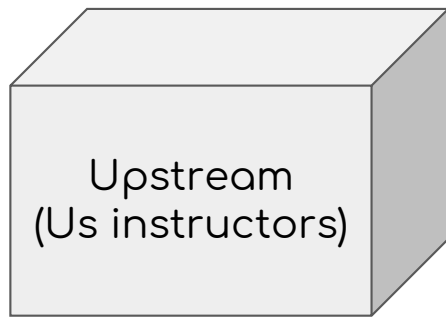
sudo- On linux machines, used whenever permission is needed to execute command

code- Followed by a folder or file, opens it in VScode

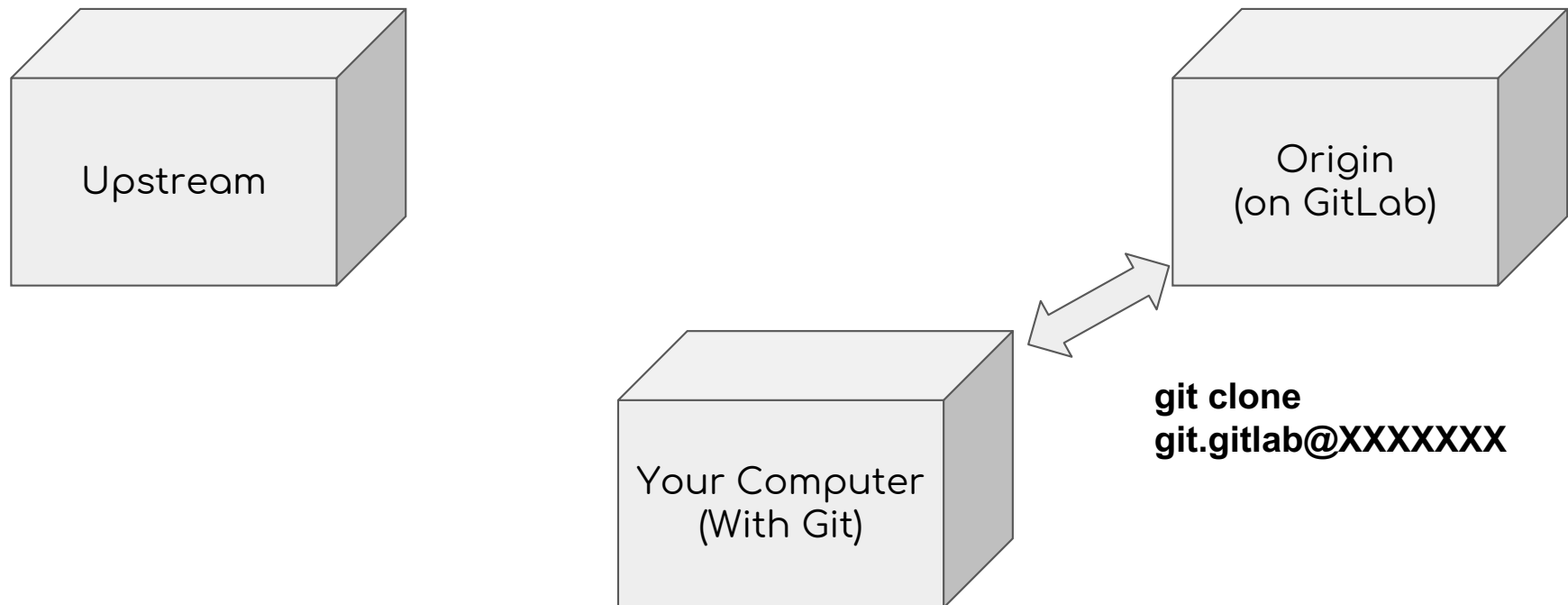
# Git Workflow Overview

There are numerous workflows but this is the one we will be using in our course.

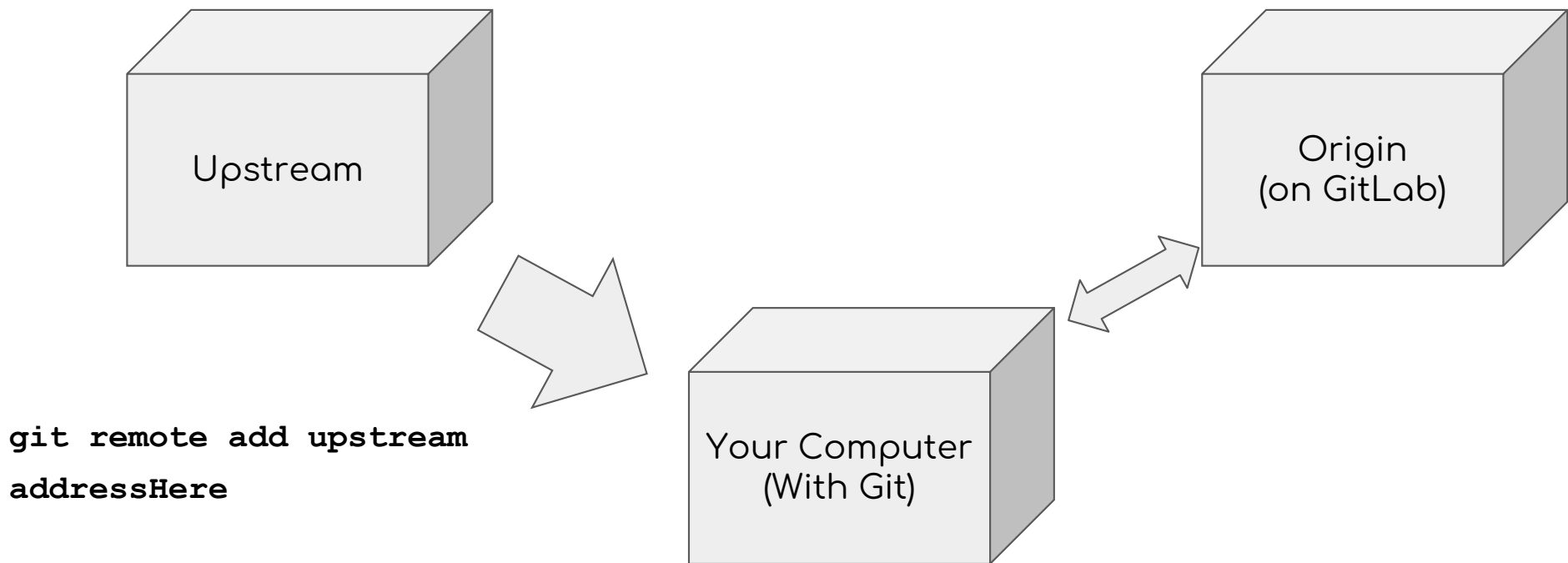
# What are we doing here?



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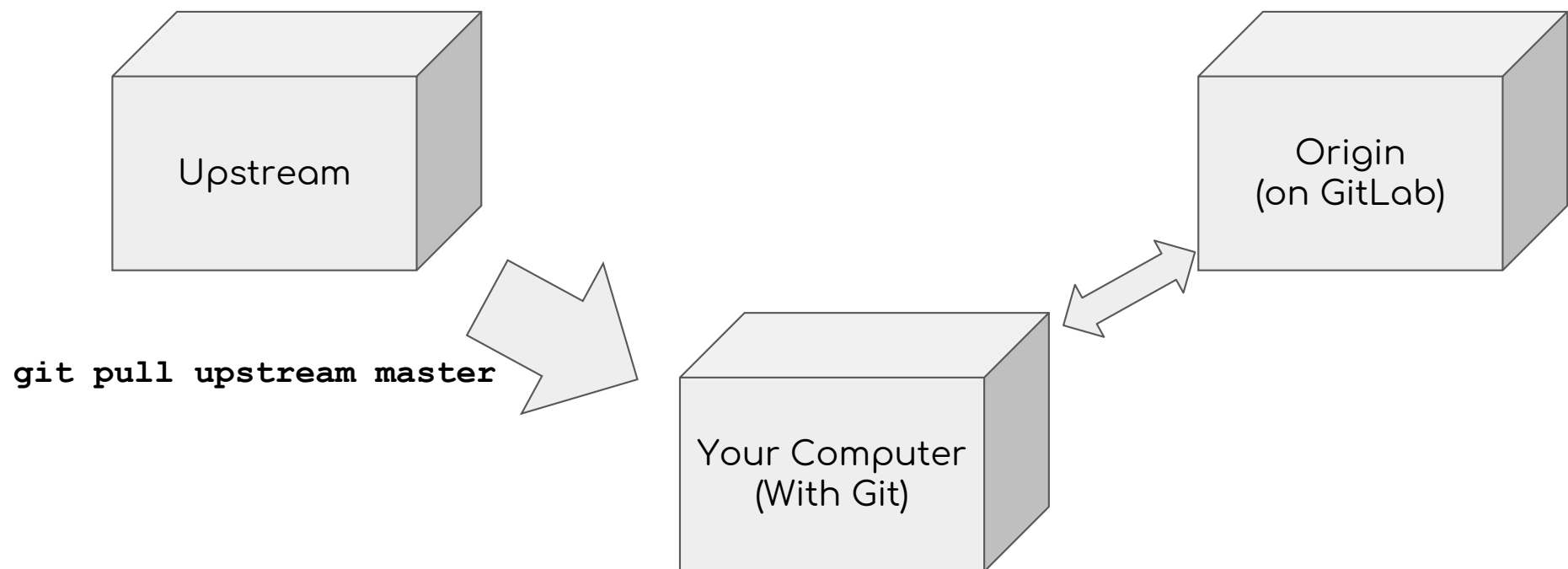


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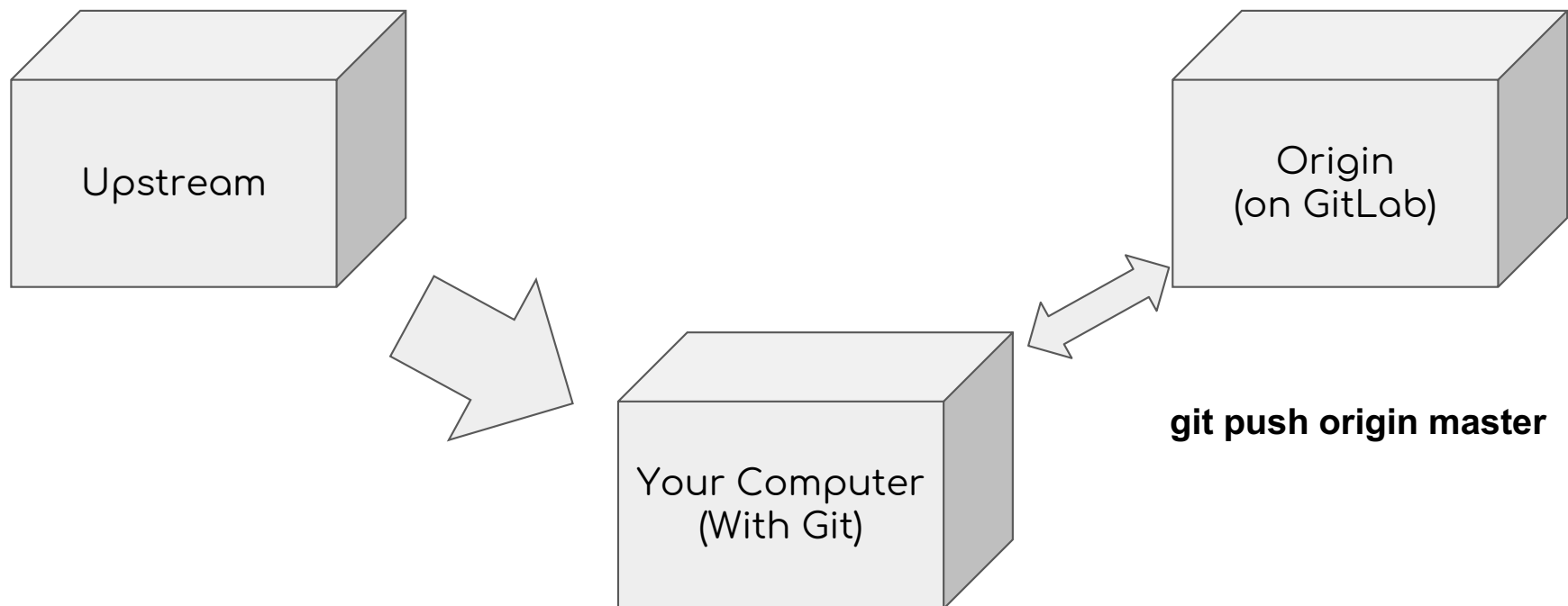




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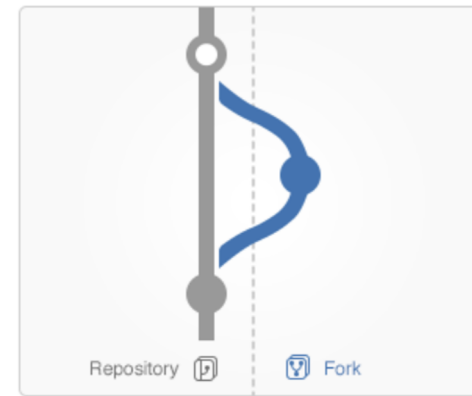
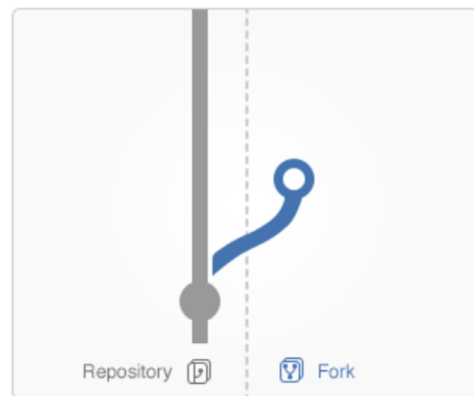


# What are we doing here?



# Other Vocab

- Fork- Making a copy of a branch and allowing you to make changes freely
- Branch- The stream you create by forking
- Master- Main Branch
- Merge- Merges the stream you forked back into the master



# Steps to setup your local git repository

1. Head to gitlab, clone your repository.
2. `git remote add upstream`  
<https://gitlab.cs.umd.edu/arasevic/cmsc389NSummer2021-student.git>
3. `git pull upstream master`
4. `git push origin master`

# Important commands

`git status` → To see if there are any changes to commit

`git fetch upstream master` → See if there is anything to pull

`git pull upstream master` → Actually pulling from upstream

`git remote -v` → see all the remote labels and where they point to

# How To Turn Stuff in!

Once you have origin and upstream set up:

```
git status
```

```
git add filesToCommit // (or --all)
```

```
git commit -m "Modified the README"
```

```
git push origin master
```

## In class exercise

Create a new file, ClassExercise.md and push the changes and make sure you can see them in gitlab!

**In the ClassDemo.md put: Name, date, and the answer to the following question: How much experience do you have with web application development?**

## In class demo

Let's take a look at the source code for the class website and make some changes and deploy them.