## Quiz section 9

May 24, 2018

10:56 AM You! hey hannah! I have some recently sequenced sci-ATAC basecalls; wondering if you could point me to your pipeline to begin processing? thanks!

Hannah Pliner Of course. I haven't used the pipeline in a while (hopefully the cluster hasn't messed anything up) but it should be good to go. If you give me your github ID I can add you and you can clone

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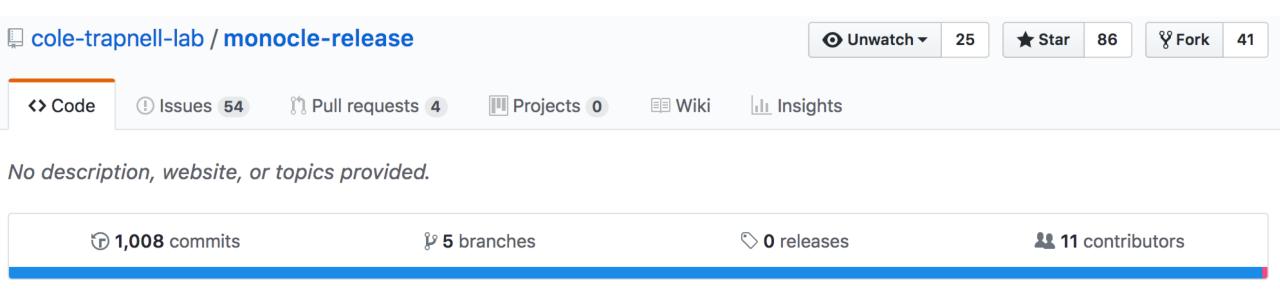
#### Git basics

Git is version control software – it's a way to keep track of how your code changes as you write it (and go back to how it was if you need to!)

```
def cmd exists(cmd):
              return any(
                  os.access(os.path.join(path, cmd), os.X OK)
     @@ -75,6 +76,10 @@ def cmd exists(cmd):
              logging.info('ERROR bedtools not available')
              sys.exit()
          if not cmd_exists("samtools"):
              logging.info('ERROR samtools not available')
              sys.exit()
82 +
83
          # Make sorted bed file from all bams
          qcf = open(qc info, 'a')
          if len(args.bamlist) == 1:
     @@ -85,15 +90,15 @@ def cmd_exists(cmd):
                  args.force_overwrite_all:
                 args.force overwrite all = True
                  logging.info('Merge started.')
                  subprocess.check call('samtools merge %s.merge.bam %s' % (OUTPUT PREFIX,
                  subprocess.check_call('module load samtools/latest; samtools merge %s.merge.bam %s' % (OUTPUT_PREFIX,
```

#### Git basics

Git is also a way to share, collaborate and contribute to code projects In git language, a repository (repo) is a project



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#### Git versus Github

Git is the version control software - it's the software keeping track of the changes/versions

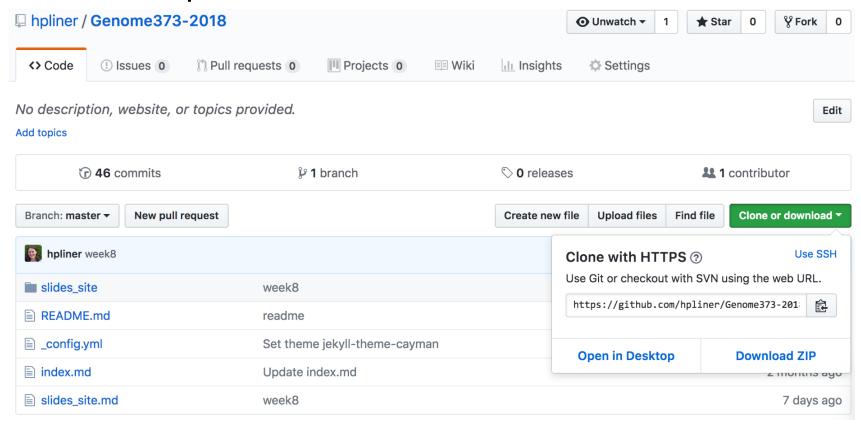
Github is a website that allows you to store the version information off your computer (and therefore share etc)

Github users have IDs (ex. hpliner)

Accounts are free, private repositories are not (you can get a free student account with private repos with your UW email)

#### Git basics

To get someone else's repo, or put your repo on a different computer, you "clone" the repo



## Git commands recap

git clone [repo website link] git pull

git status git init

git add –A git branch [branch name]

git commit -m "message" git checkout [branch name]

git push

Tons of great documentation, including videos, here: https://git-scm.com/doc

# Read the docs!!!!!

## Read the docs!!!!!

Although... if it's just your lab's/friend's software, there might not be much...

Ok, you read the docs, but you still aren't sure exactly what's going on...

Luckily, you learned python in genome 373!