bash

mkdir ~/work

cd ~/work

curl -O -L <https://s3.amazonaws.com/public.ged.msu.edu/ecoli_ref-5m.fastq.gz>

#Kept trying to run gunzip -c ecoli\_ref-5m.fastq.gz, and my terminal kept hanging…small wonder

pip install khmer==2.0

gunzip -c ecoli\_ref-5m.fastq.gz | \

split-paired-reads.py -1 top.R1.fq -2 top.R2.fq

sudo apt-get -y install trimmomatic

wget <https://anonscm.debian.org/cgit/debian-med/trimmomatic.git/plain/adapters/TruSeq3-PE.fa>

TrimmomaticPE top.R1.fq top.R2.fq \

trimmed.R1.fq orphan1 trimmed.R2.fq orphan2 \

ILLUMINACLIP:TruSeq3-PE.fa:2:40:15 \

LEADING:2 TRAILING:2 \

SLIDINGWINDOW:4:2 \

MINLEN:25

interleave-reads.py trimmed.R1.fq trimmed.R2.fq > trimmed-pe.fq

git clone https://github.com/voutcn/megahit.git

cd megahit

make -j 4

~/work/megahit --12 trimmed-pe.fq -o ecoli\_1

cp ecoli\_1/final.contigs.fa ecoli-assembly-trim.fa

cd ~/

git clone https://github.com/ablab/quast.git -b release\_4.2

export PYTHONPATH=$(pwd)/quast/libs/

cd ~/work

~/quast/quast.py ecoli-assembly-trim.fa -o ecoli\_trim\_report

python2.7 ~/quast/quast.py ecoli-assembly-trim.fa -o ecoli\_trim\_report