```
Miniasm
                                           input read
                                            filename
                                                         to use
      miniasm_and_minipolish.sh reads.fastq.gz 16
NECAT
                        contains read filename,
                     genome size and thread count
      necat.pl bridge config.txt
Raven
                                                     output graph
                                                                          CPU threads
                                                                                      input read
                                                      filename
                                                                             to use
                                                                                       filename
      raven --graphical-fragment-assembly graph.gfa --threads 16 reads.fastq.gz
Redbean
                    output
                               true size of
                                           CPU
                                                   assembly preset
                                                                    input
                                                   (changed to rs for
                    filename
                              the reference
                                          threads
                                                                    read
                     prefix
                                genome
                                           to use
                                                    PacBio reads)
                                                                  filename
      wtdbg2.pl -o dbg -g 5m -t 16 -x ont reads.fastq.gz
```

shasta --input reads.fasta --assemblyDirectory out dir --threads 16

faster read overlapping

(recommended in release notes

for genomes <1 Gbp in size)

canu -p canu -d out_dir -fast genomeSize=5m stopOnLowCoverage=0

enable uneven

coverage mode

these four options tailor Canu to

the computational environment

true size of

the reference

genome

useGrid=false minThreads=16 maxThreads=16_maxMemory=120 -nanopore-raw reads.fastq.gz

true size of the

reference genome

the output

directory name

CPU threads

to use

flye -o out_dir --plasmids --meta --genome-size 5m --threads 16 --nano-raw reads.fastq.gz

CPU threads

prevents premature

termination in cases of

suboptimal input reads

input read filename

input read

filename

input read type (changed to

--pacbio-raw for PacBio reads)

input read type (changed to

-pacbio-raw for PacBio reads)

CPU threads

to use

Canu

Flye

Shasta

output

filename

prefix

output directory

output

directory

enable recovery

input read filename

seqtk seq -A reads.fastq.gz > reads.fasta

of small plasmids