

# fastp

## ↔ input

2\_Reads/1\_Untrimmed/{sample}\_1.fastq.gz  
2\_Reads/1\_Untrimmed/{sample}\_2.fastq.gz

## output →

2\_Reads/2\_Trimmed/{sample}\_trimmed\_1.fastq.gz  
2\_Reads/2\_Trimmed/{sample}\_trimmed\_2.fastq.gz  
2\_Reads/3\_fastp\_results/{sample}.html  
2\_Reads/3\_fastp\_results/{sample}.json

# index\_ref

## ↔ input

1\_References

## output →

1\_References/CattedRefs\_renamed.fna.gz  
1\_References/CattedRefs\_renamed.fna.gz.rev.2.bt2l

# map\_to\_ref

## ↔ input

1\_References/CattedRefs\_renamed.fna.gz  
1\_References/CattedRefs\_renamed.fna.gz.rev.2.bt2l  
2\_Reads/2\_Trimmed/{sample}\_trimmed\_1.fastq.gz  
2\_Reads/2\_Trimmed/{sample}\_trimmed\_2.fastq.gz

## output →

2\_Reads/4\_Host\_removed/{sample}\_M\_1.fastq  
2\_Reads/4\_Host\_removed/{sample}\_M\_2.fastq  
3\_Outputs/1\_QC/1\_BAMs/{sample}.bam  
3\_Outputs/1\_QC/1\_Host\_BAMs/{sample}\_host.bam

# coverM

## ↔ input

3\_Outputs/1\_QC/1\_BAMs/{sample}.bam

## output →

3\_Outputs/1\_QC/2\_CoverM/{sample}\_coverM\_mapped\_host.tsv

# nonpareil

## ↔ input

2\_Reads/4\_Host\_removed/{sample}\_M\_1.fastq  
2\_Reads/4\_Host\_removed/{sample}\_M\_2.fastq

## output →

3\_Outputs/1\_QC/3\_nonpareil/{sample}.npo

# report

## ↔ input

2\_Reads/3\_fastp\_results/ERR922785.json  
3\_Outputs/1\_QC/2\_CoverM/ERR922785\_coverM\_mapped\_host.tsv  
3\_Outputs/1\_QC/3\_nonpareil/ERR922785.npo

## output →

3\_Outputs/1\_QC/\_nonpareil\_metadata.tsv  
3\_Outputs/1\_QC/\_report.tsv

# all

## ↔ input

3\_Outputs/1\_QC/\_nonpareil\_metadata.tsv  
3\_Outputs/1\_QC/\_report.tsv