

## Raw Reads



**Bowtie2  
or BWA**

## Mapped Reads



to reference

**GATK or  
Samtools**

## Variant Calls

102 . . . . . A	452 . . . . . A
146 . . . . . C	713 . . . . . C
278 . . . . . G	843 . . . . . G
343 . . . . . T	901 . . . . . T