

Reads that support an **alternate** allele

Reads that support a **reference** allele

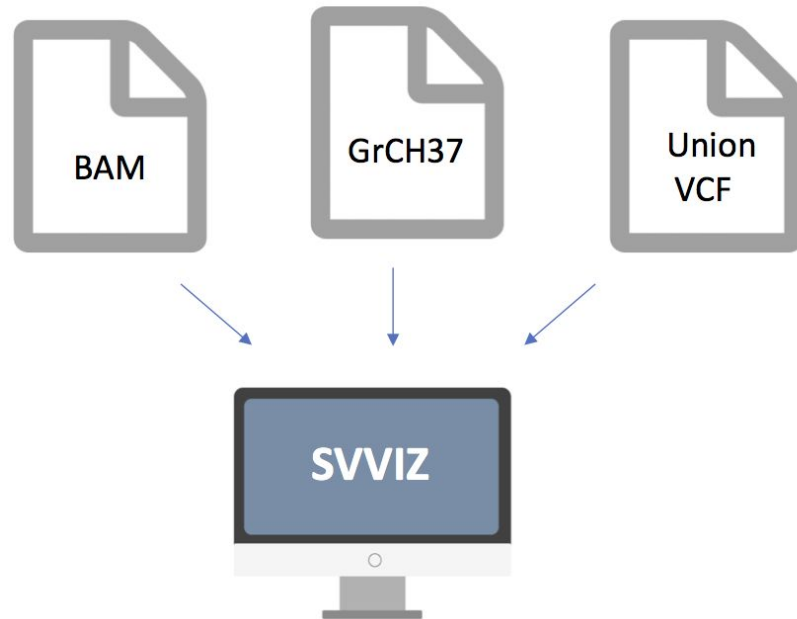
Annotations to note repeats

structural variant breakpoints

1

SVVIZ takes in:

- read data in BAM format from short read and long read sequencing technologies
- reference genome
- putative SVs listed in a VCF



2

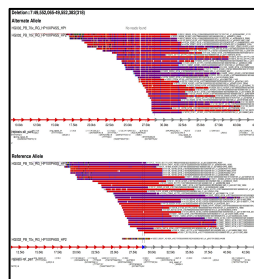
Reads from the BAM file are mapped to **reference allele** (from GrCH37)



Reads from the BAM file are mapped to **alternate allele** (from union VCF). Reads that do not map to the ref or alt allele are placed in an **ambiguous** bin

3

SVVIZ generates read aligned images (right), dotplots, and summary statistics.



Putative SV
Deletions (top)
Insertions (bottom)
DEL/INS:size:uniqueID

PacBio Tracks
-Haplotype separated reads
-HP2 shows evidence of a ~920bp deletion

10X Tracks
-Haplotype separated reads
-HP2 shows evidence of a ~920bp deletion

III250bp Track

Additional Annotations
-Segmental duplications
-Repeats

