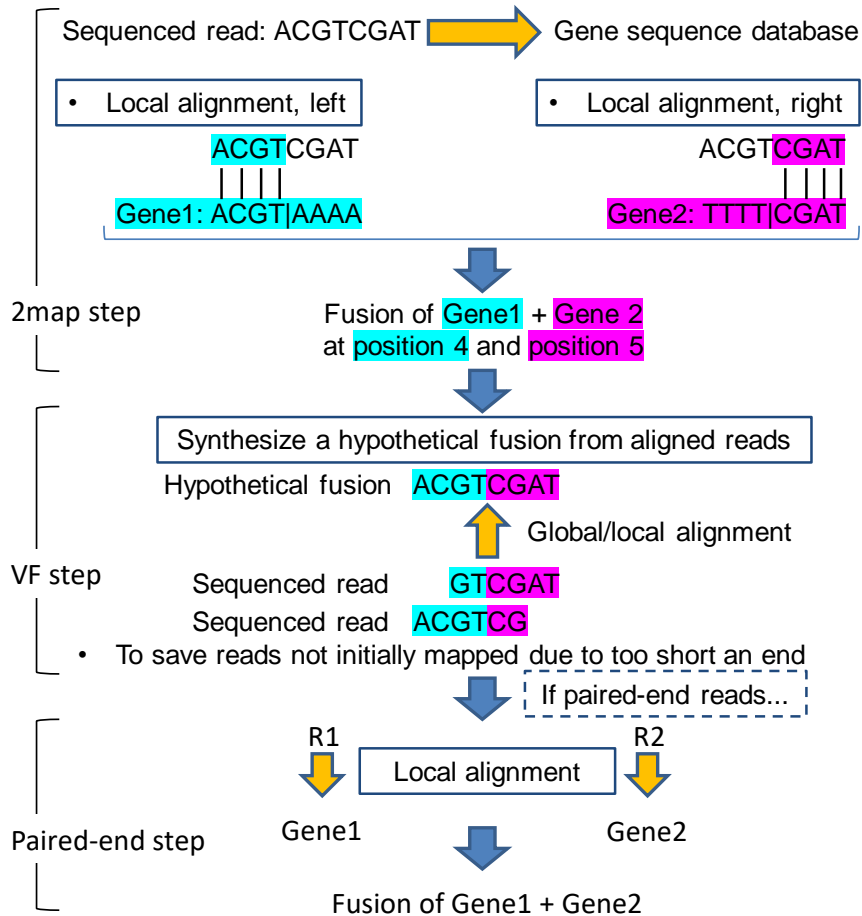


cisFusion



(Kato et al, 2018, *Genome Medicine*)

cisCton

1. Bin definition
 - Definition of the minimum unit for segmentation
 - Typically, the middle points of bed-defined regions
2. GC-content correction
3. Segmentation
 - CBS-based algorithm
 - Non-parametric type of statistic for FFPE
4. Stitching segments
 - Naive CBS takes long computation time
 - Split chromosomes into windows
 - Then, stitch segments using the algorithm for the edge-effect correction in CBS
5. Abortion of abnormal segments
 - For FFPE fluctuations: nullify segments with high fluctuations around the segment median of logR
6. Amplification/deletion decision
 - The baseline regions
 - Excl. known germline CNVs and somatic CNAs
 - Mappability of one
 - Bootstrapping technique for statistical significance