

X-SVLen

# Input and results

Input:

ONT based SV callset using cuteSV

hg37

TrioCanu assemblies.

# Method:

For each SV defined by chrom, pos, variant:

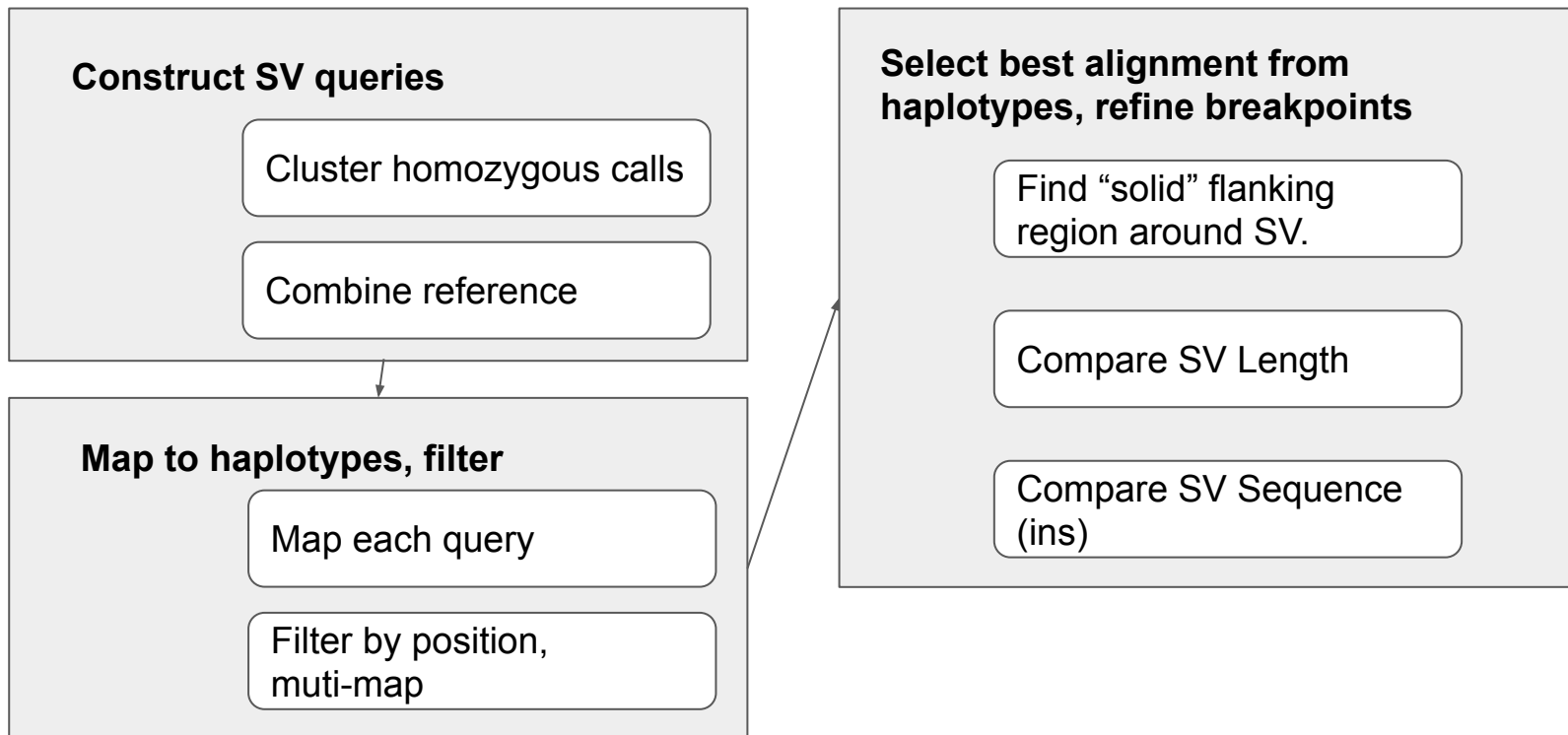
Construct a query as: ref[chrom][pos-prefix:pos] + SV +  
ref[chrom][pos:pos+suffix]

Query:



Map all queries to hap1 and hap2 assemblies.

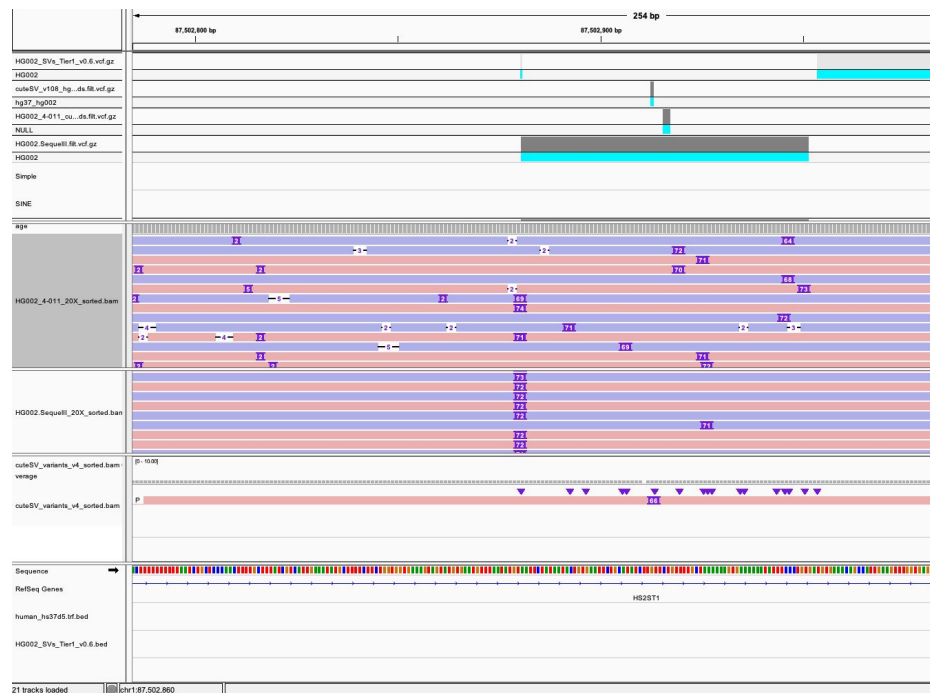
# Workflow



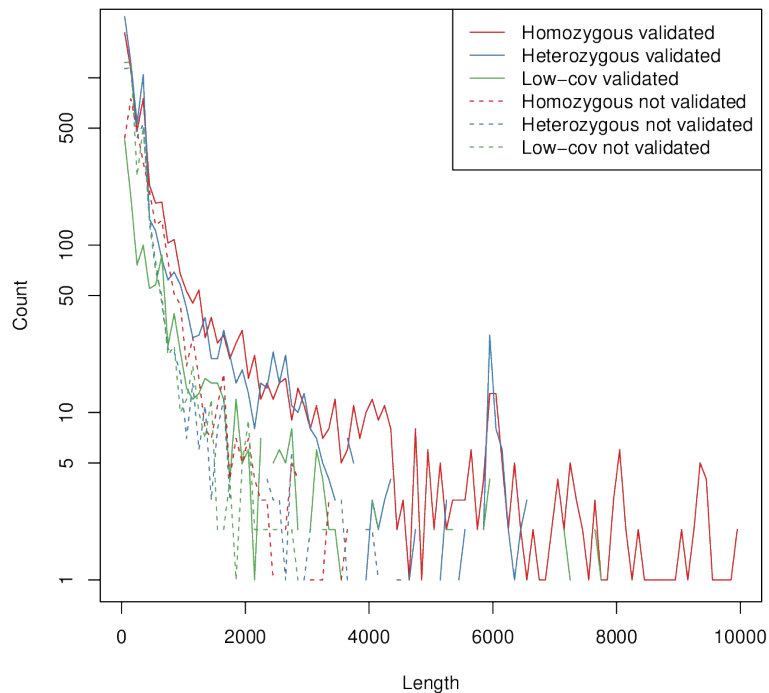
# Assembly calls that overlap contigs.

SVType SVLen	INS		DEL	
	<50	>=50	<50	>=50
number of these calls that overlap assembly contigs	16054	17481	30494	6475

# Example difficult to validate call.



# Annotation of true positives



# Comparison against Truvari

SVType	INS		DEL	
SVLen	<50	>=50	<50	>=50
number of truvari	3351 FP	2835 FP	880 FP	1571 FP
TP/FP/no-call	7200 TP	4095 TP	1925 TP	2099 TP
	15974	80	30196	298
	not_processed	not_processed	not_processed	not_processed
number of assembly				
TP/FP/no-call	28422 FP	12409 FP		



# Thank you!!

Rocio Esteban

Debapriya Sinha

Chunxiao Liao

And all the organizers of the 2020 eHackathon YOU ARE AWESOME