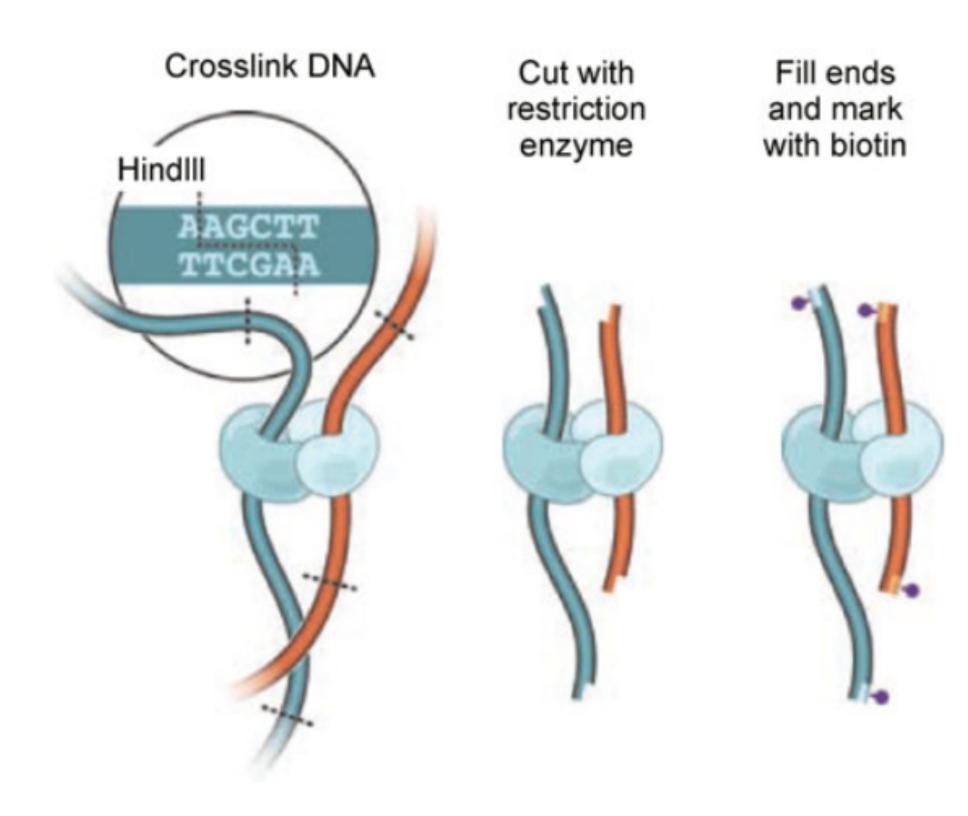
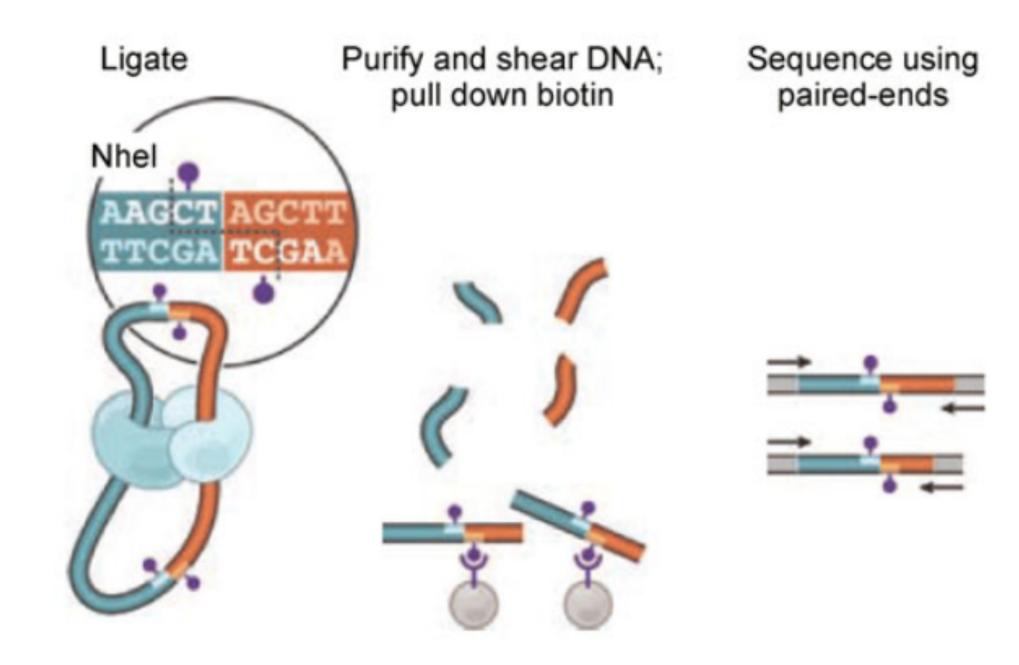




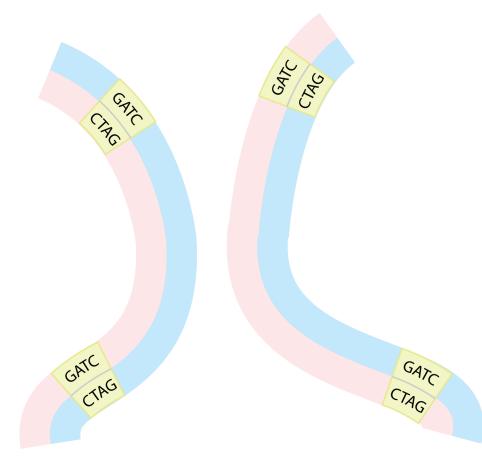
Hi-C experiment



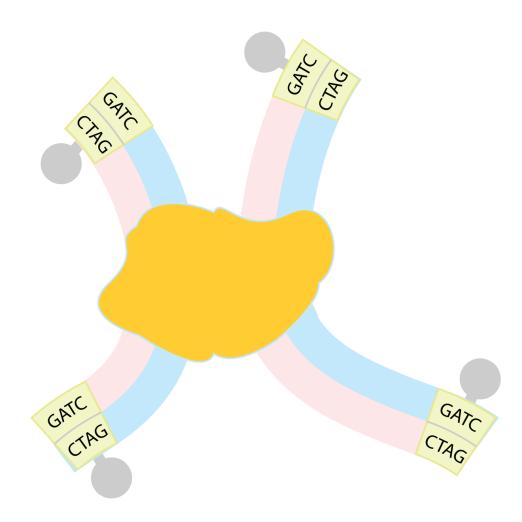




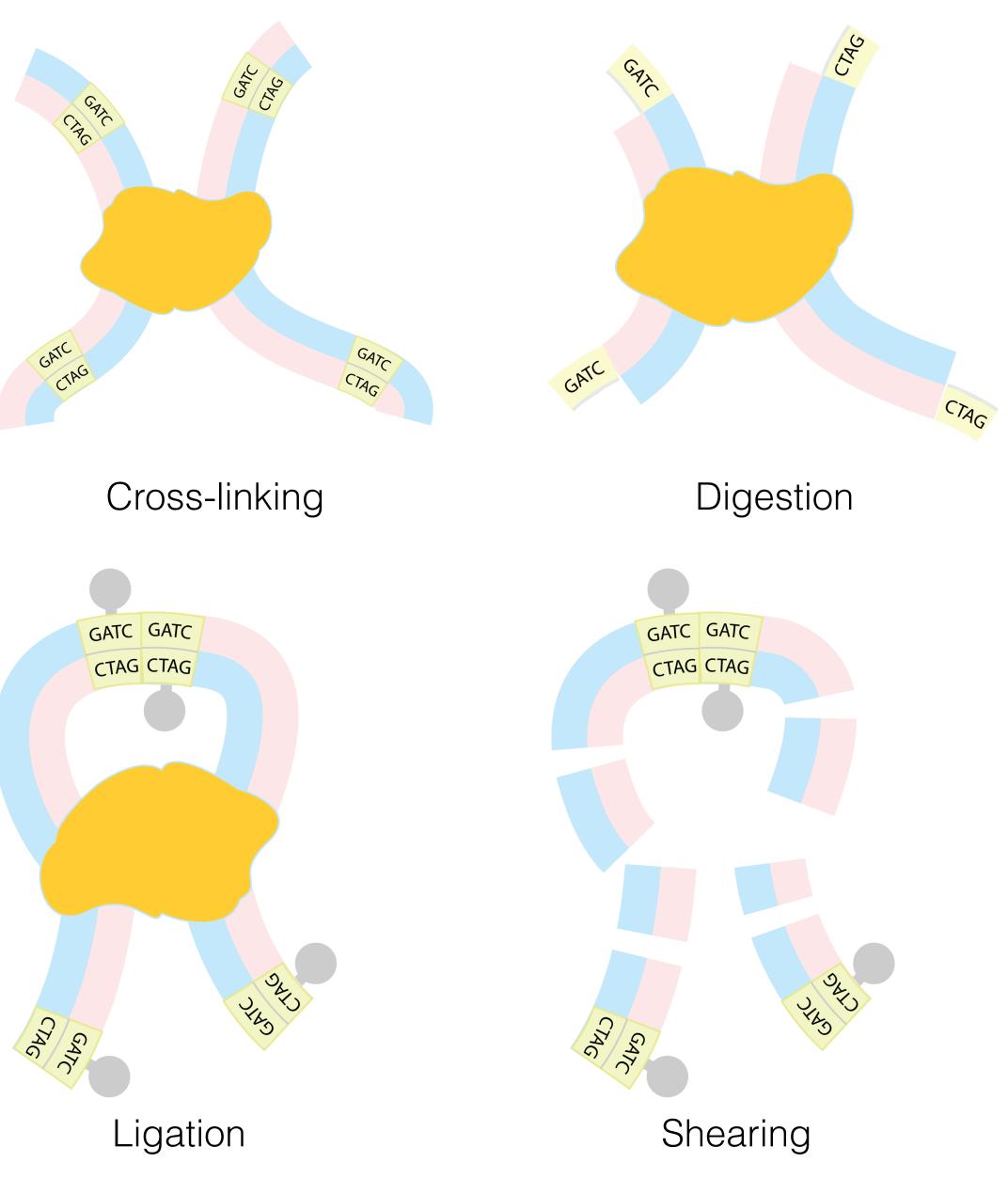
Hi-C experiment

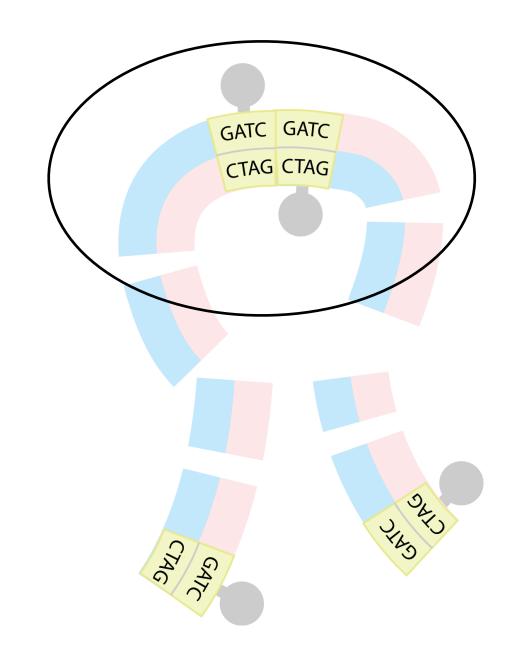


Two pieces of chromatin are close in 3D



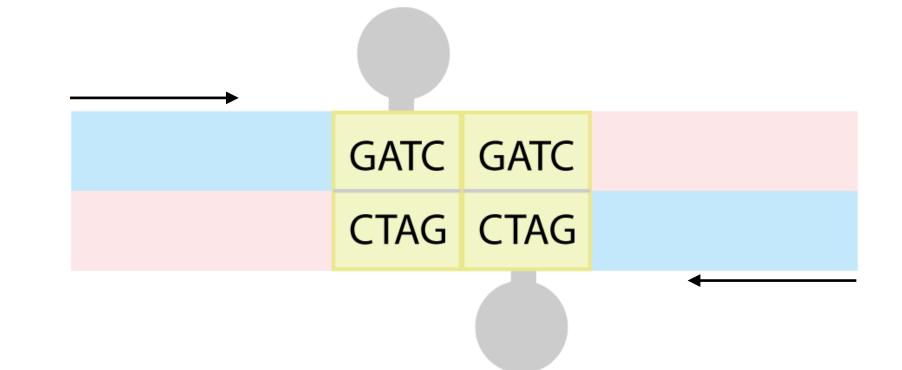
Biotinylation

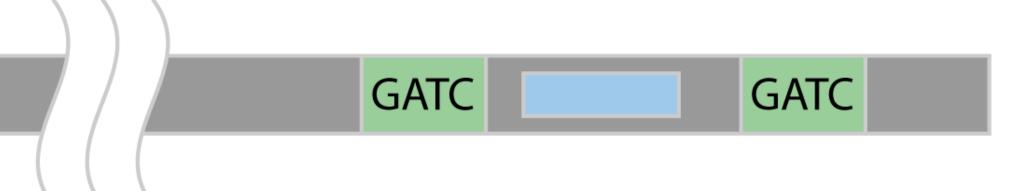


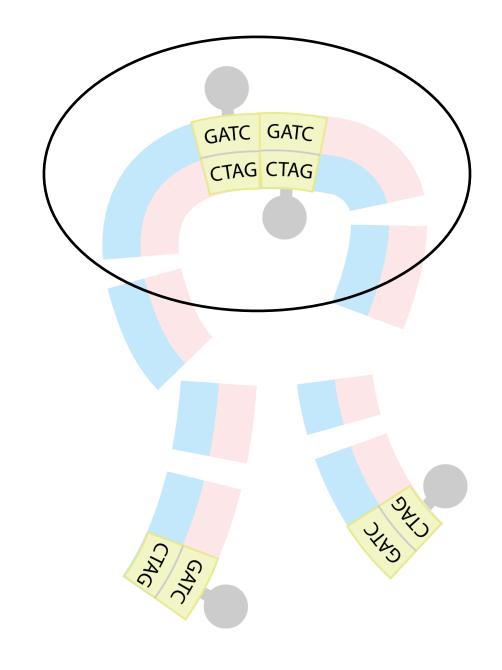




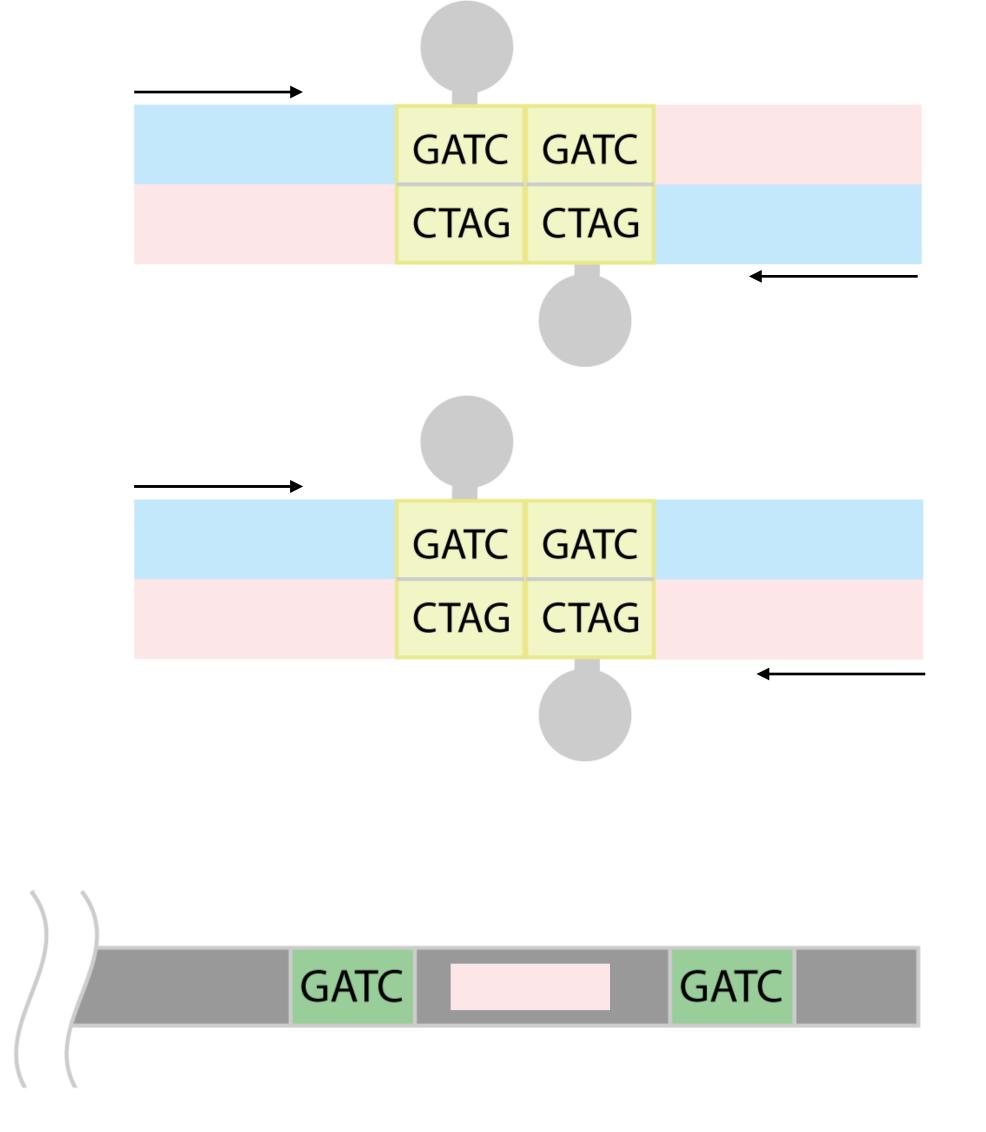
Valid pair

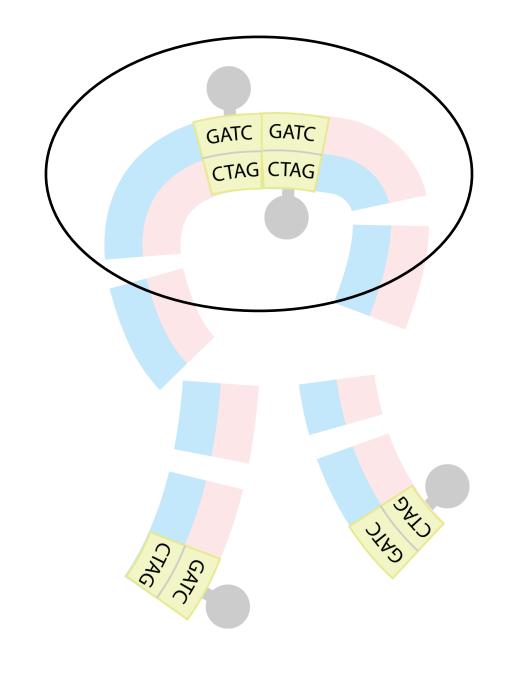




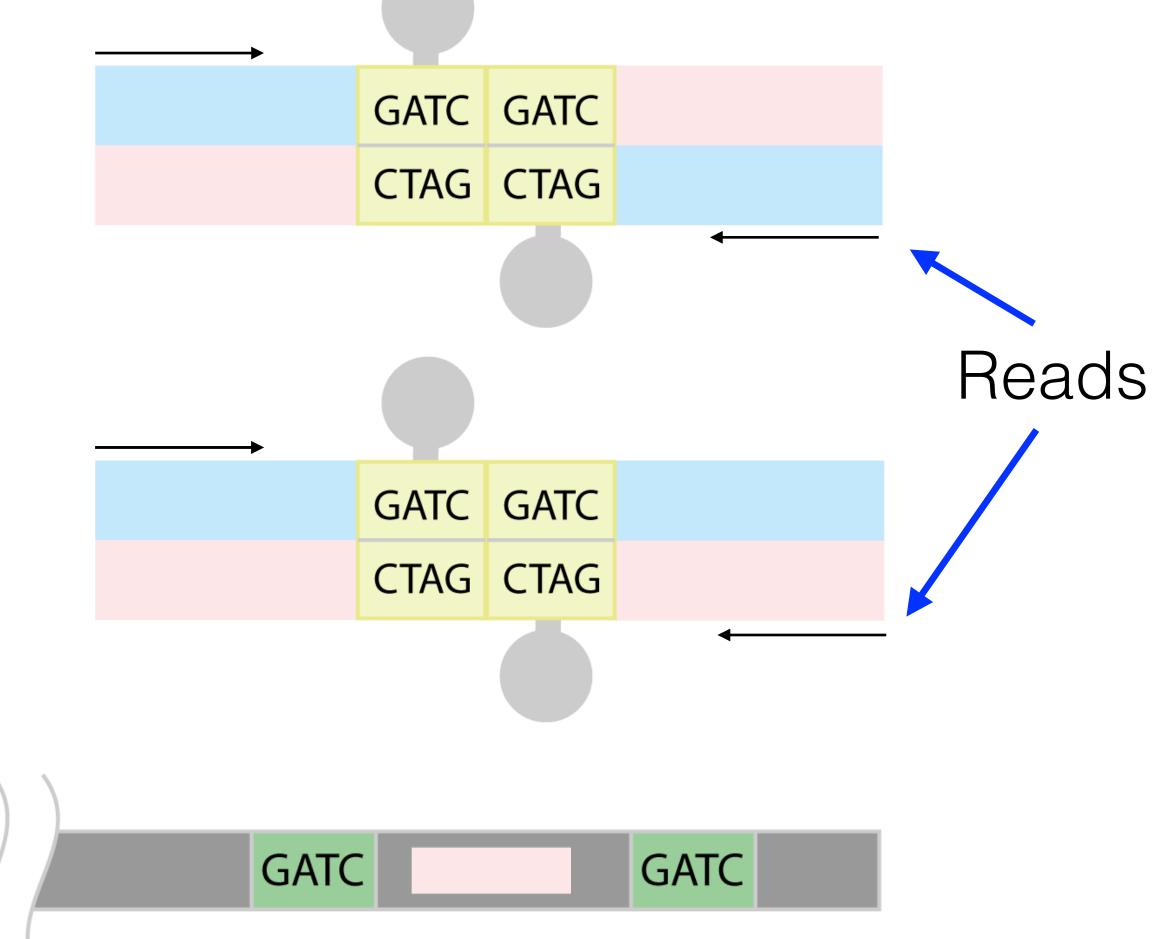


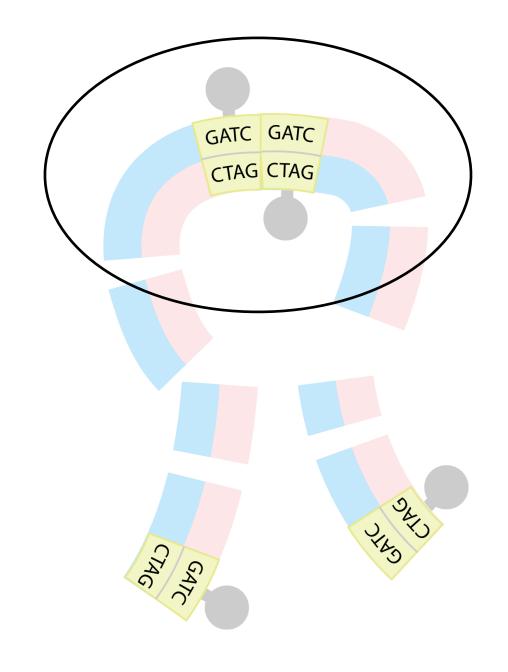


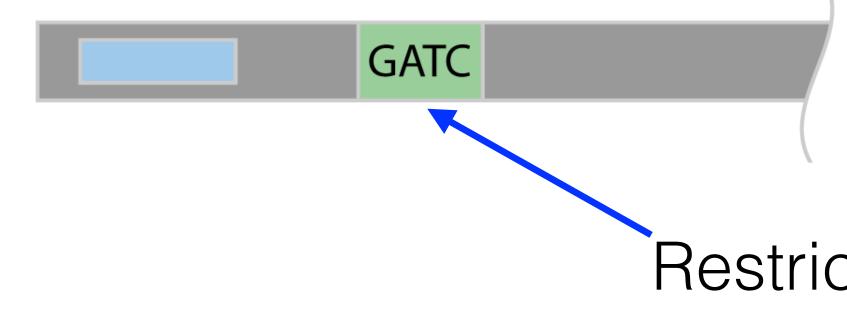


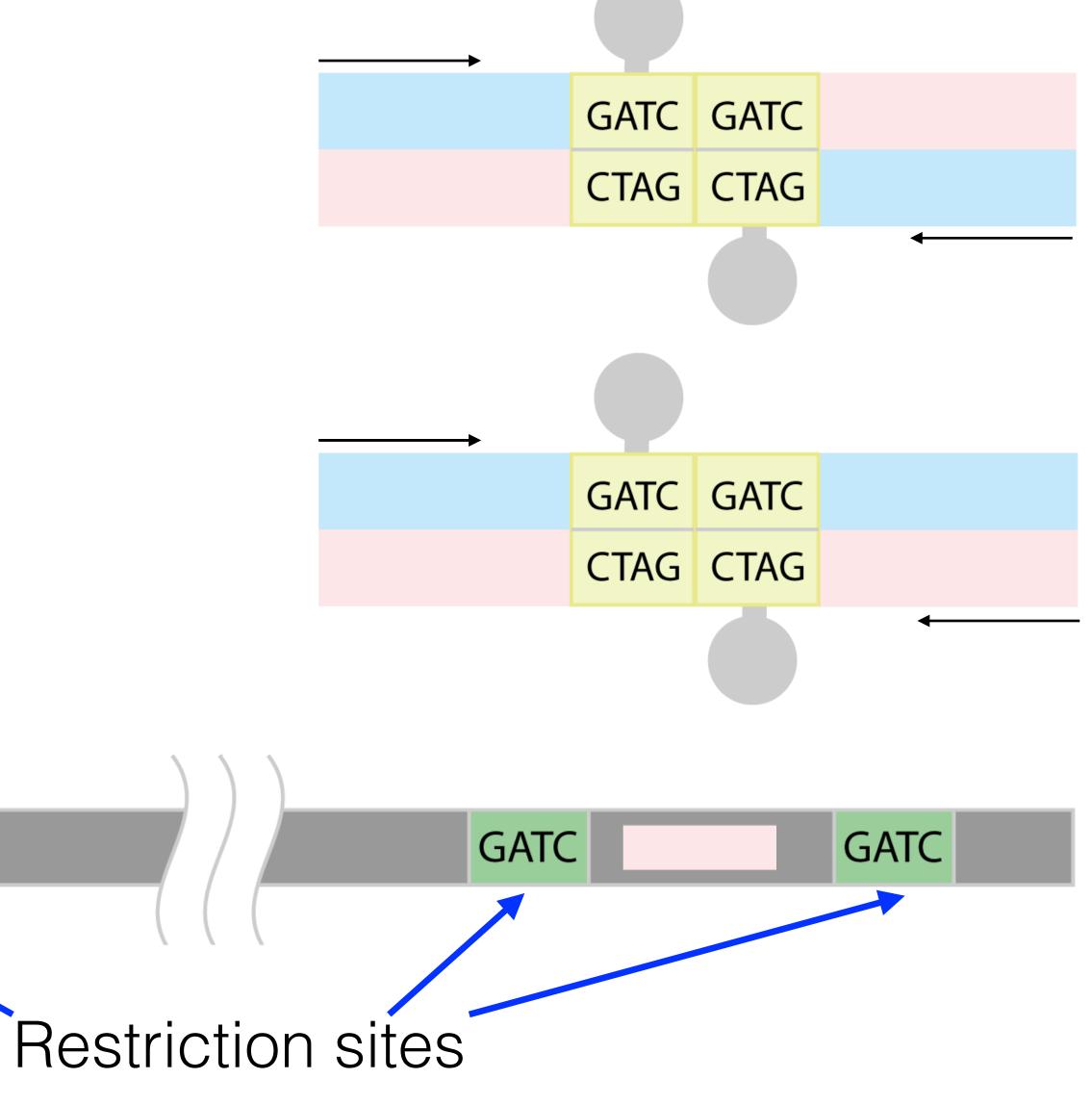


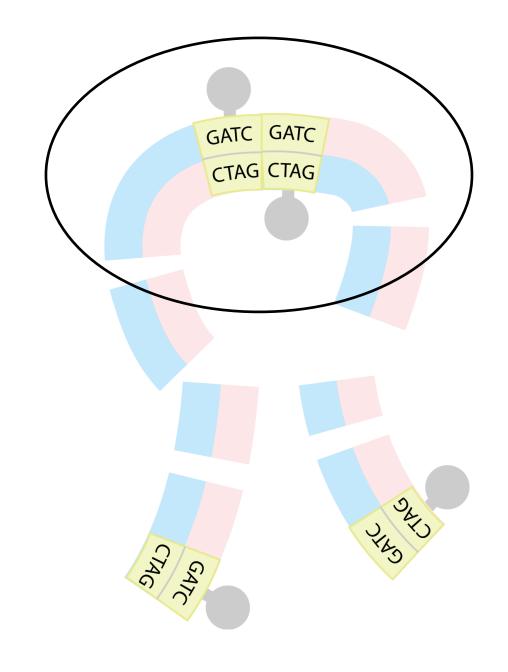






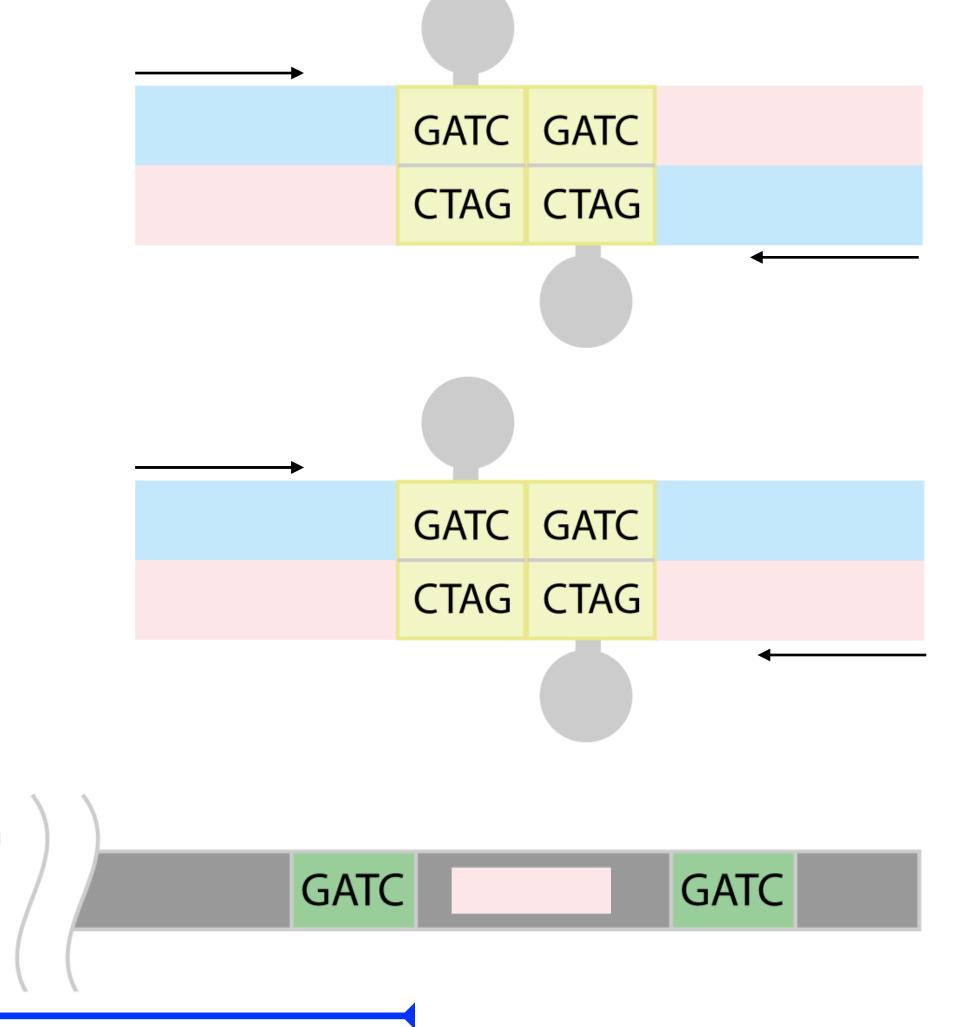




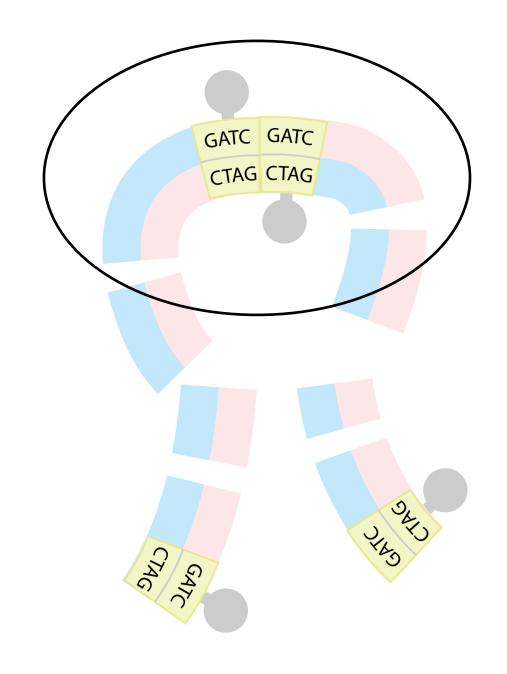


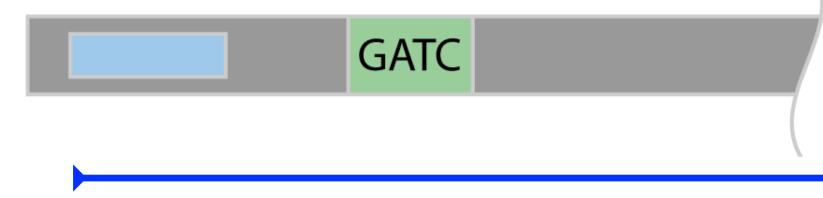




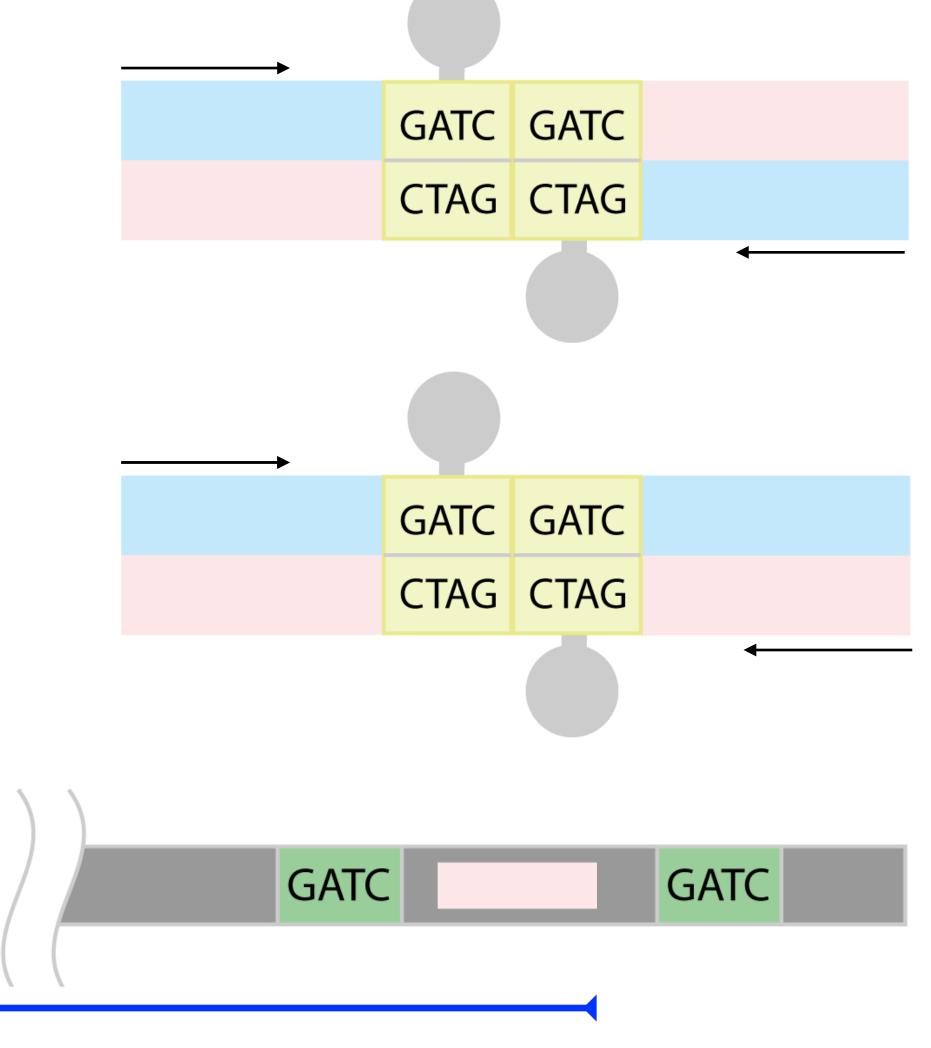


Restriction fragment

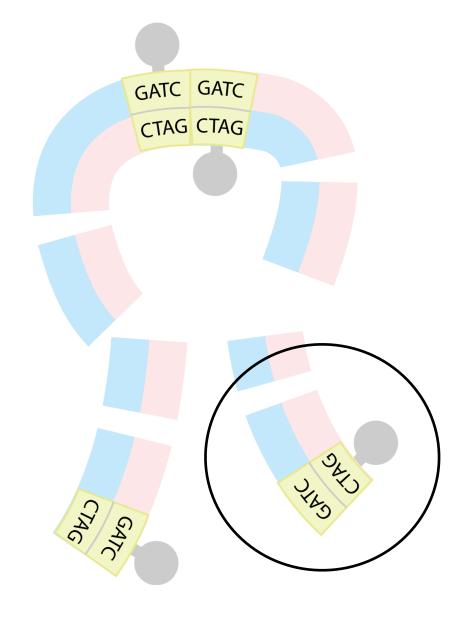




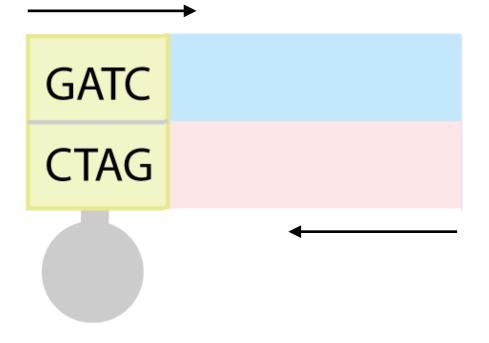


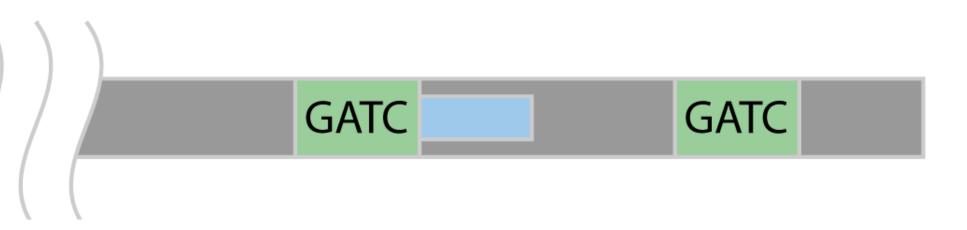


Dangling-end (~15%)

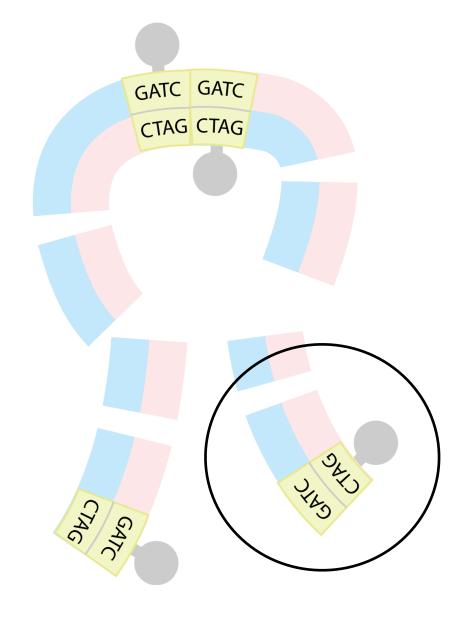


GATC

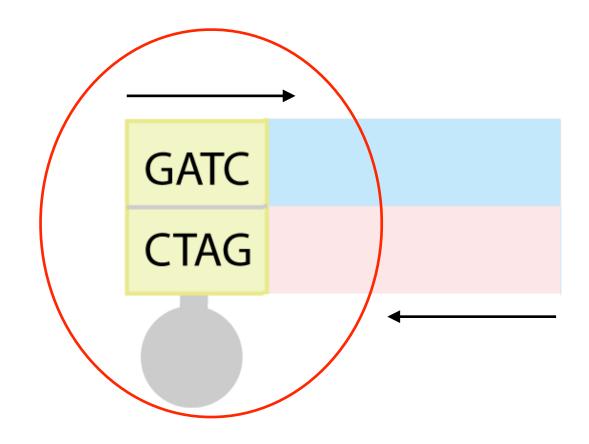


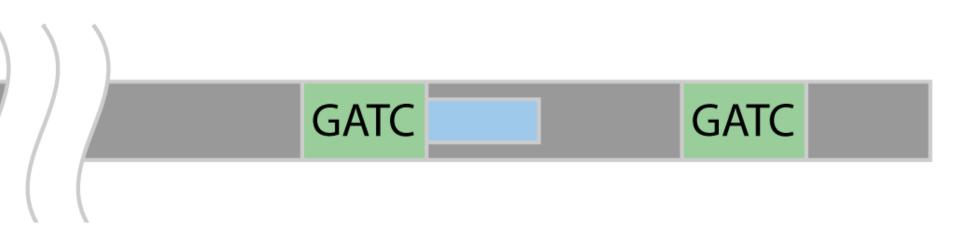


Dangling-end (~15%)

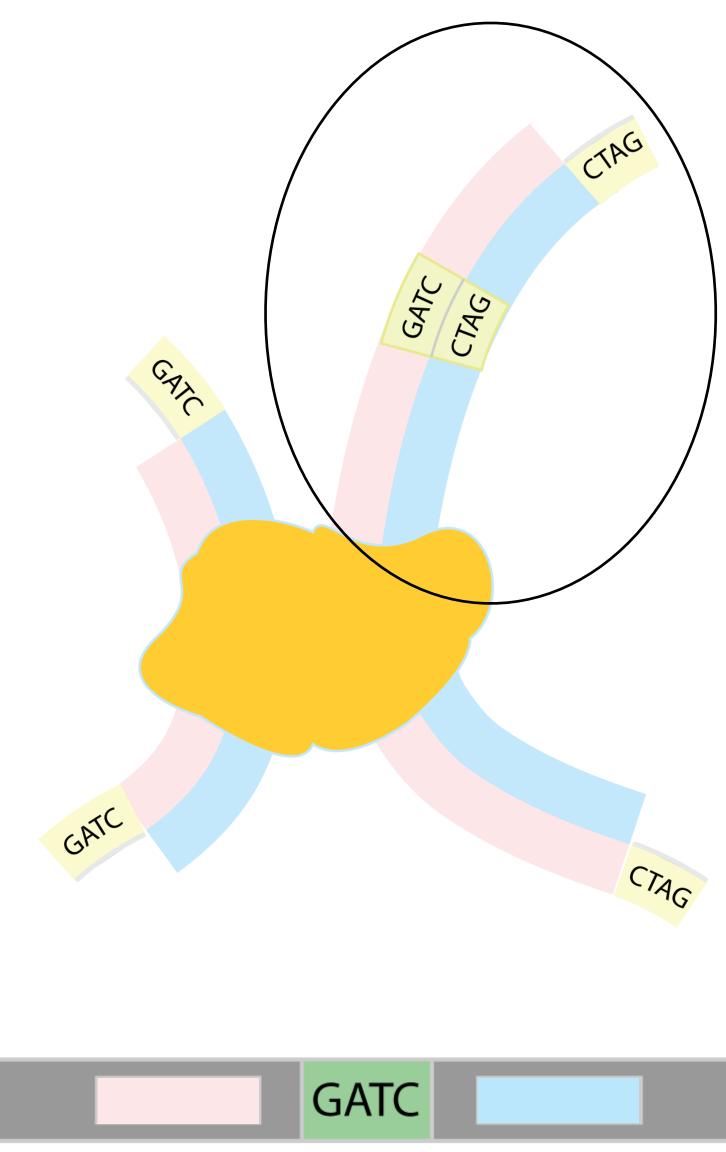


GATC

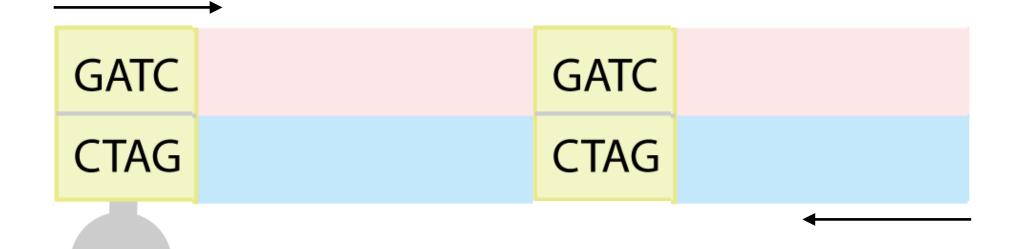




Extra dangling-end (~5%)



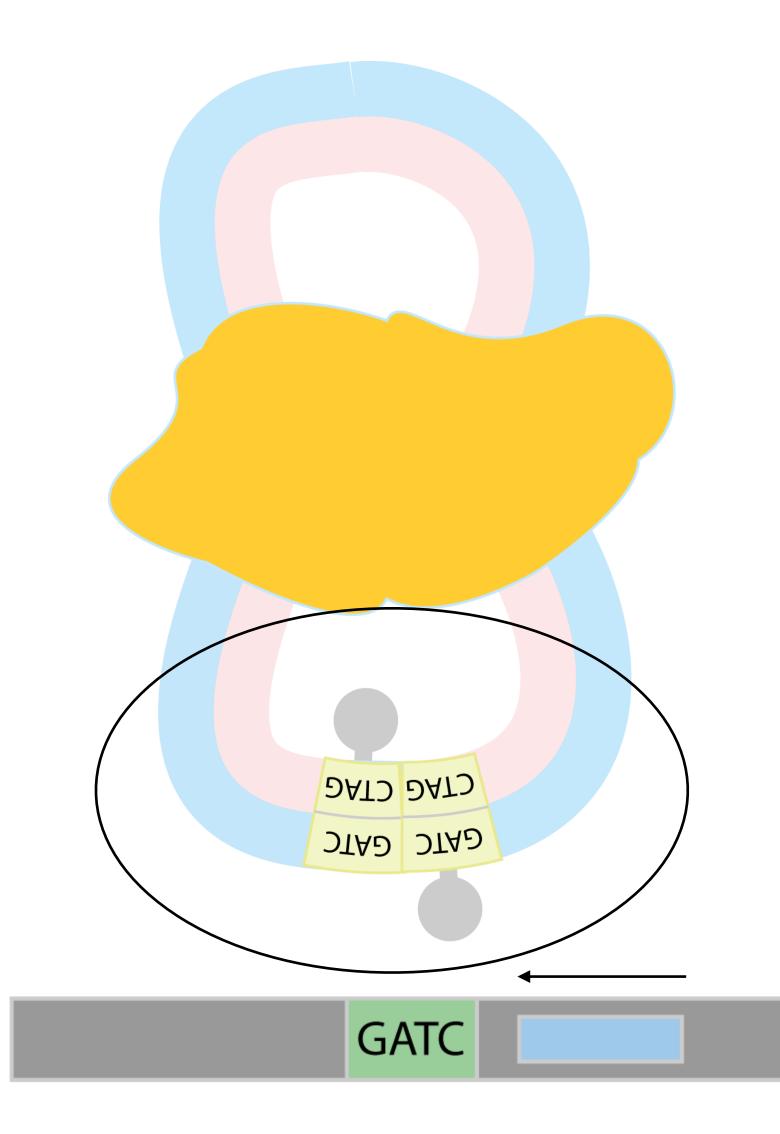
< max_molecule_length</pre>

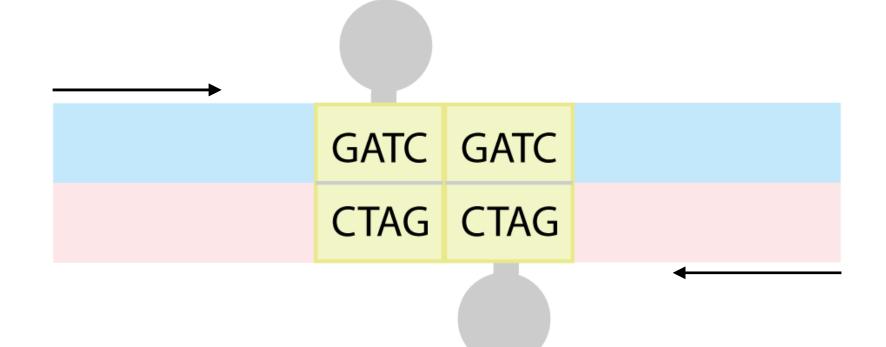






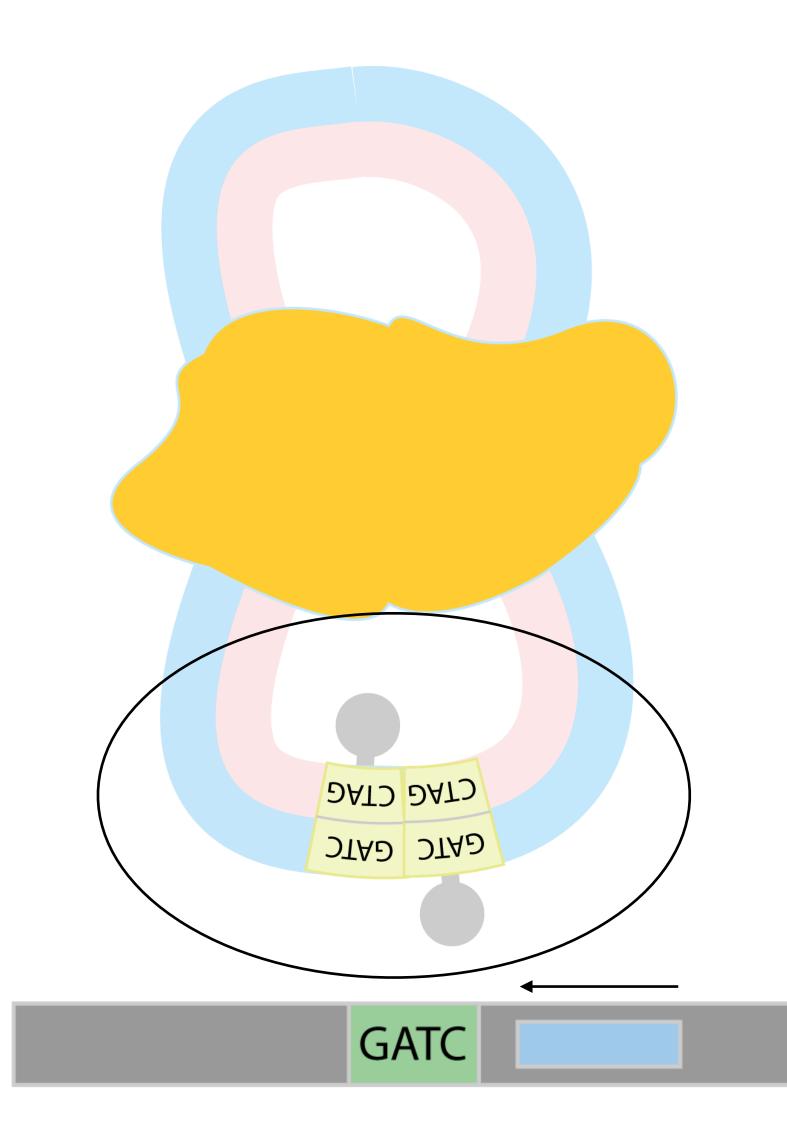
Self-circle (~10%)

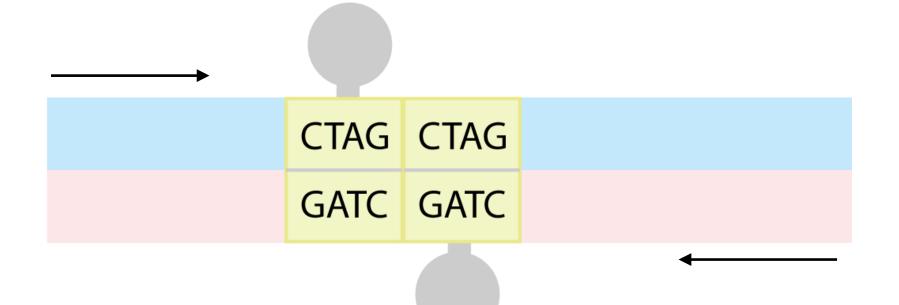




GATC GATC

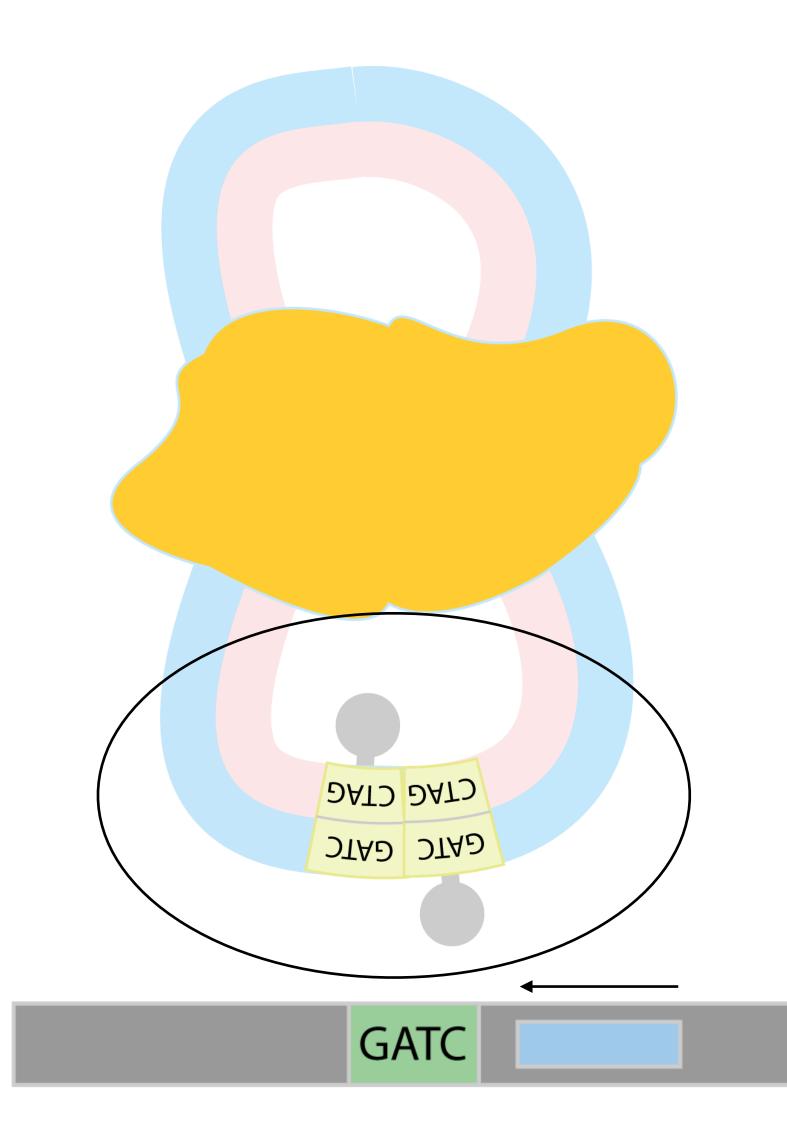
Error (<2%)

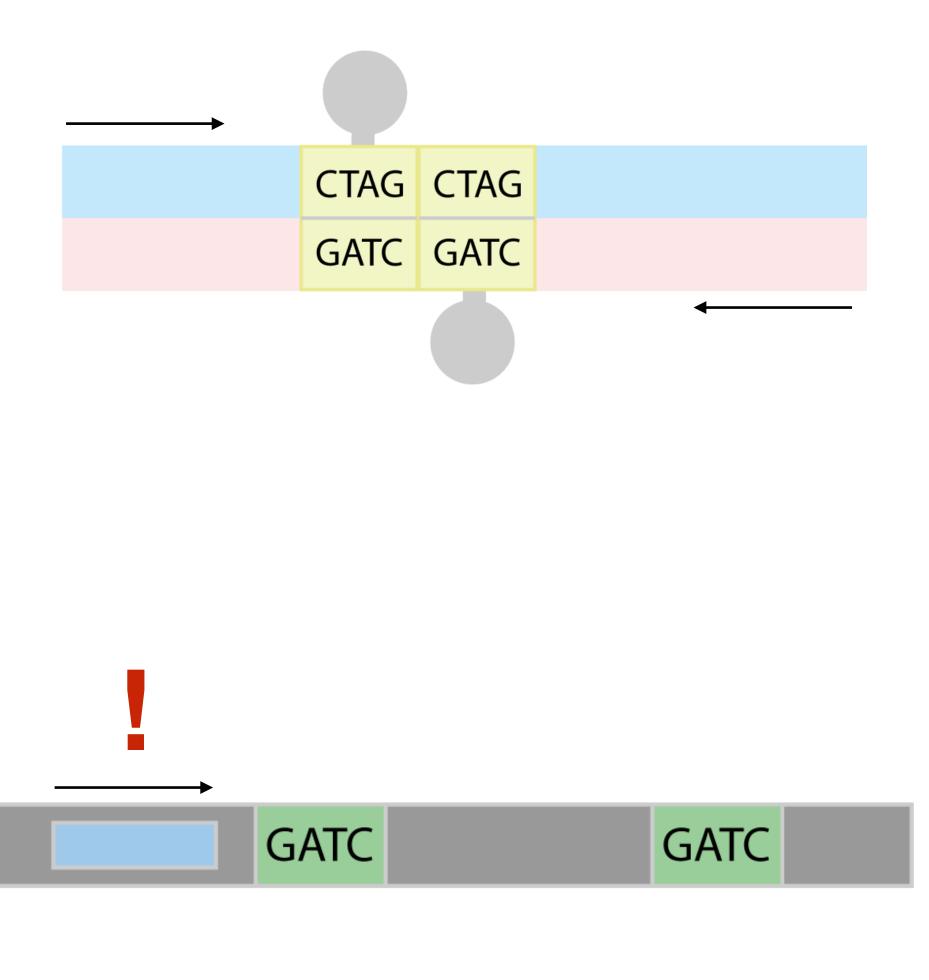




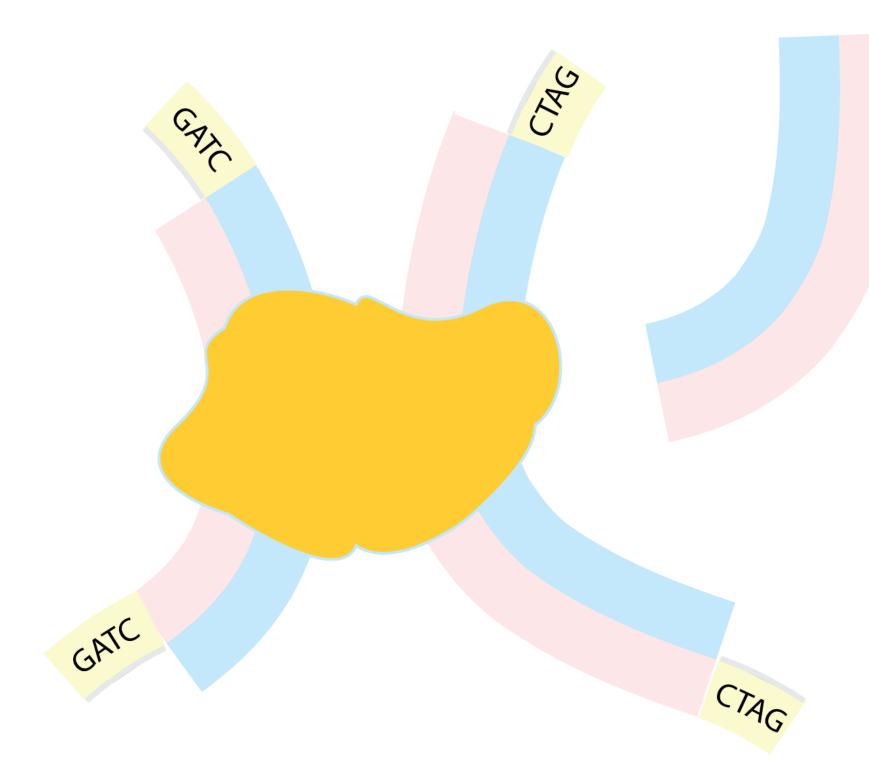


Error (<2%)



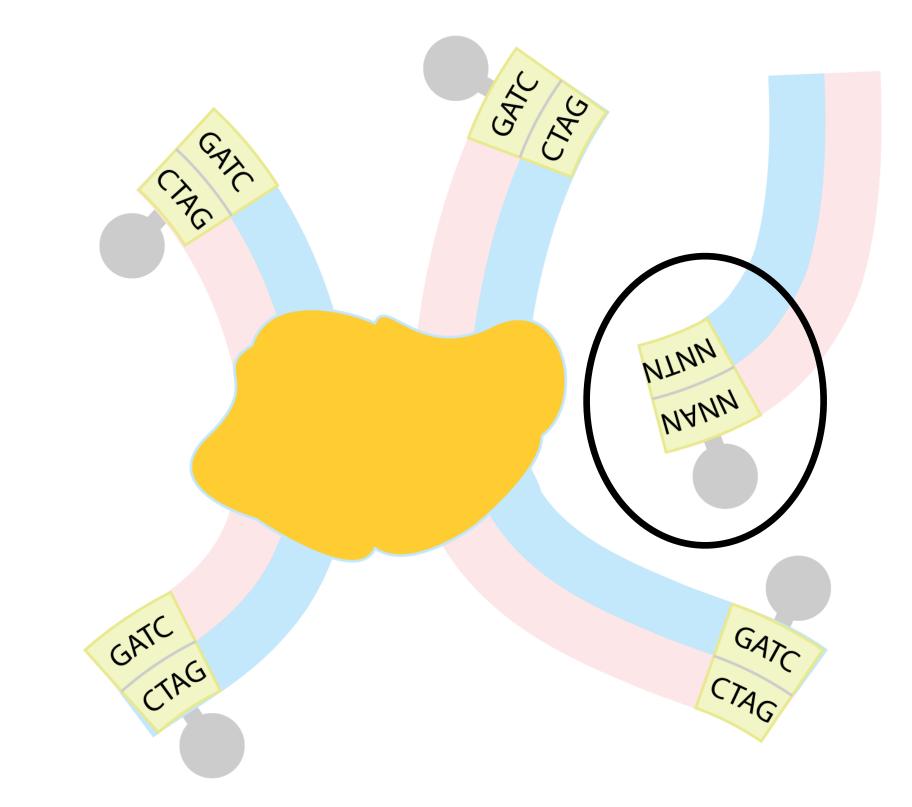


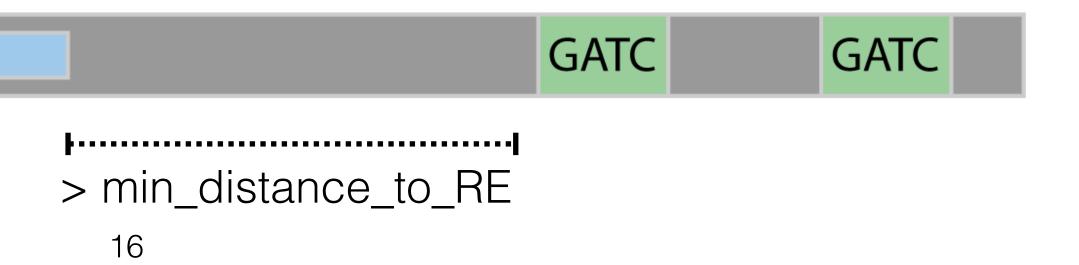
Random break (~20%)



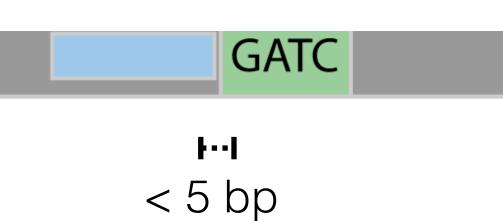
GATC

> min_distance_to_RE





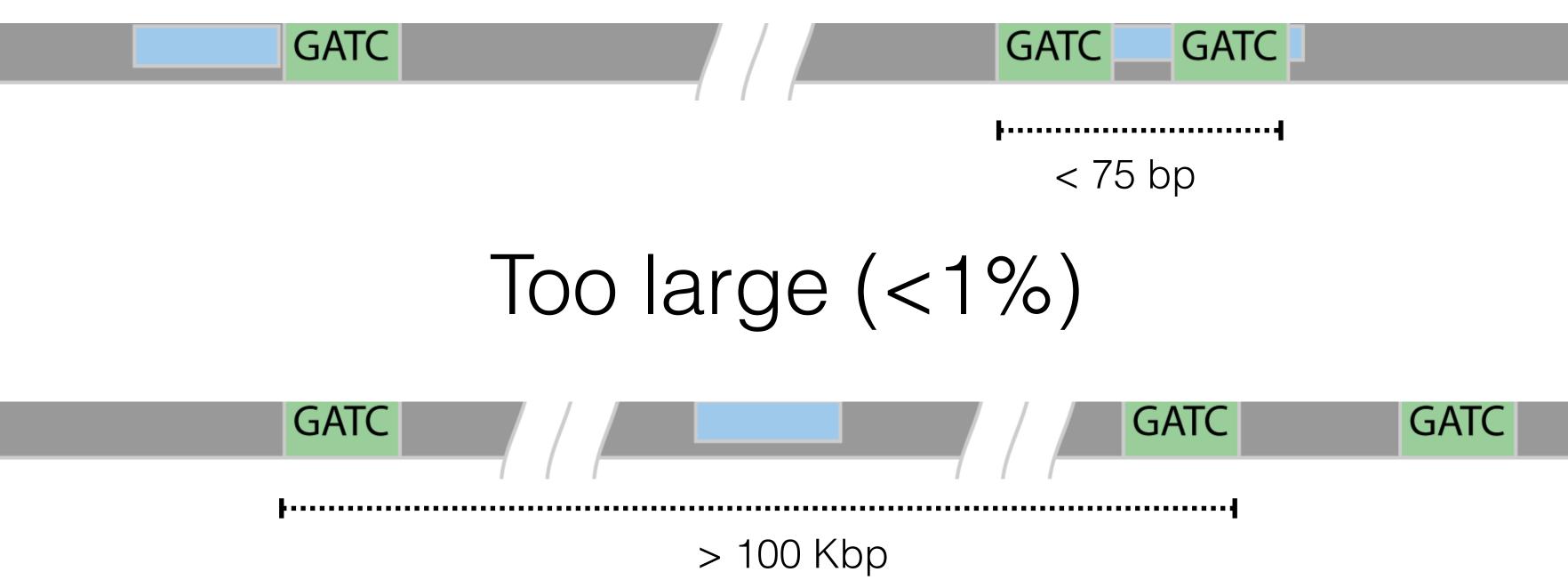
Too close from RE sites (~2%)







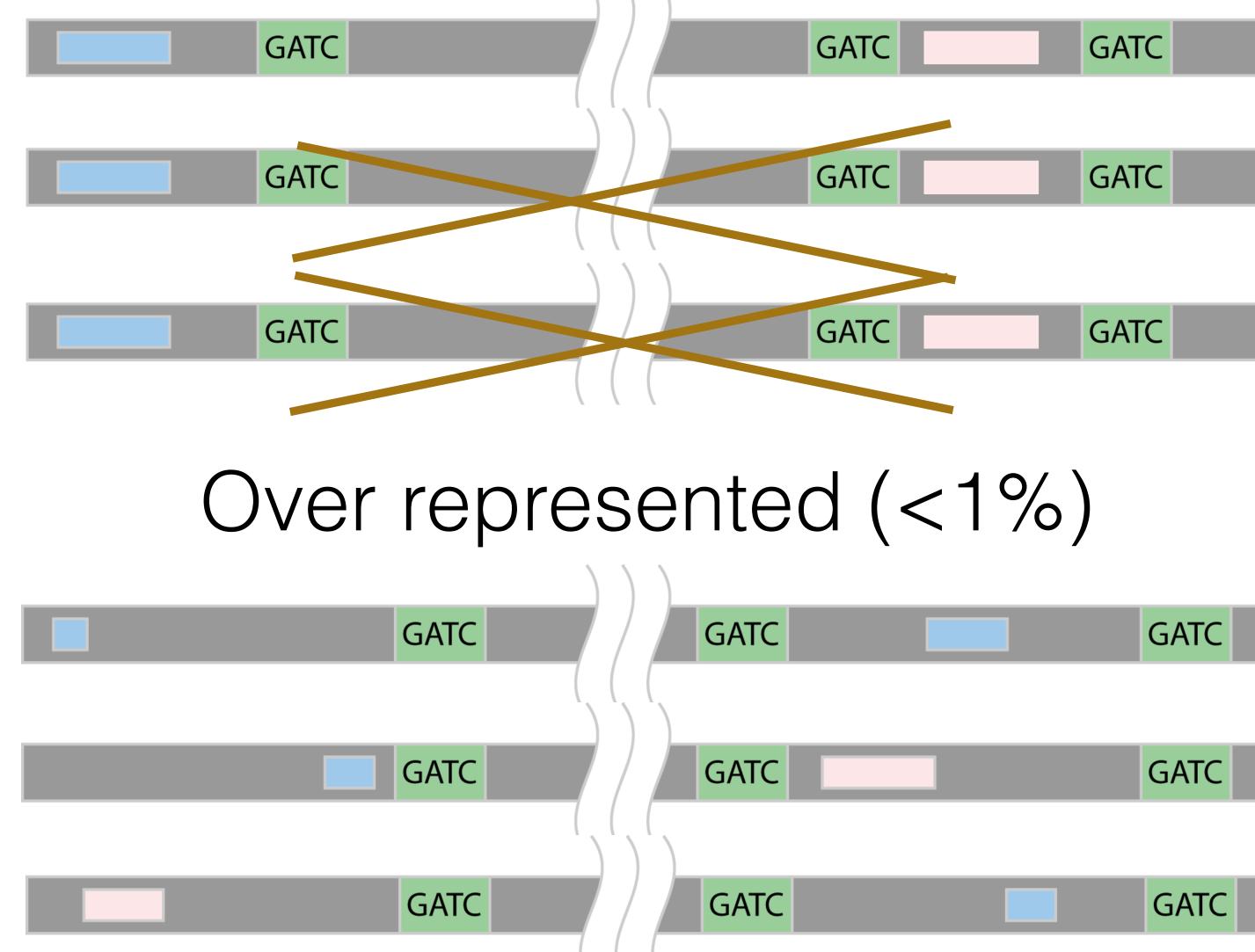






Too short (<1%)

Duplicated (~20%)



		GATC		GATC
	(
		GATC		GATC
()				
		GATC		GATC

How much do we map?

- Valid reads: 80-90% each end => 64-81%total
- 1% multiple contacts
- many of the reads will be lost in the filtering...

intersection = 60% of the intersection, 36% of the