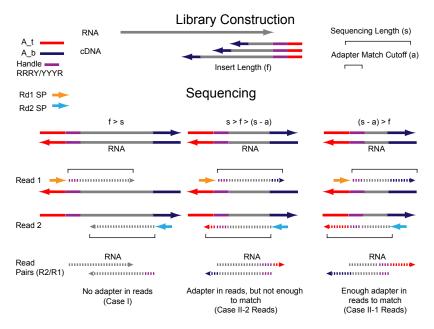
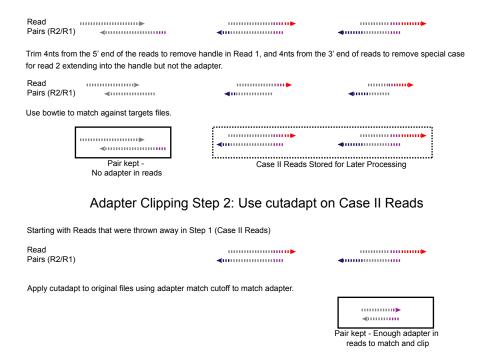
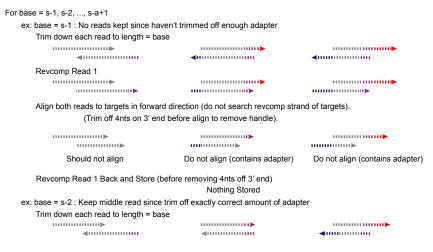
Adapter Trimmer Algorithm



Adapter Clipping Step 1: Use bowtie to separate Case I and Case II Reads



Adapter Clipping Step 3: Trim Search, Look for Revcomp on remaining Case II Reads



11111111111111111 		
	ard direction (do not search revcomp str	and of targets)
	and direction (do not scarer revealing strong and before align to remove handle).	and of targets).
Ob a del mark alliana	Aliana d	De not alian (contains a denter)
Should not align	Aligned	Do not align (contains adapter)
Revcomp Read 1 Back and Store	(before removing 4nts off 3' end)	
	Stored	
: base = s-a+1 : No reads kept since Trim down each read to length = b	e have trimmed off too much adapter (go	2nts into handle)
minimum		
∢	∢	4
Revcomp Read 1		
	ard direction (do not search revcomp stra	and of targets).
· ·	and before align to remove handle).	
Should not align	Do not align (seqs don't match)	Do not align (contains adapter)
At each step temporarily store rea	ds that do not align so can search throug	gh those for speedups.
	Final Processing	
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		hey are due to mutations that spats can har
_	cluding those with no matches in case to b remove handle sequence in R2 in shor	•
_	•	•
Remove 4nts from 3' end of R2 to Store	•	•
Remove 4nts from 3' end of R2 to	•	•
Remove 4nts from 3' end of R2 to Store From Step 1:	o remove handle sequence in R2 in shor	•
Remove 4nts from 3' end of R2 to Store From Step 1:	o remove handle sequence in R2 in shor	•
Remove 4nts from 3' end of R2 to Store From Step 1:	o remove handle sequence in R2 in shor	•
Remove 4nts from 3' end of R2 to Store From Step 1:	o remove handle sequence in R2 in shor	•
Remove 4nts from 3' end of R2 to Store From Step 1:	o remove handle sequence in R2 in shor	•
Remove 4nts from 3' end of R2 to Store From Step 1:	o remove handle sequence in R2 in shor	•
Remove 4nts from 3' end of R2 to Store From Step 1:	o remove handle sequence in R2 in shor	rt reads.
Remove 4nts from 3' end of R2 to Store From Step 1:	o remove handle sequence in R2 in shor	rt reads.
Remove 4nts from 3' end of R2 to Store From Step 1: From Step 2:	o remove handle sequence in R2 in shor	rt reads.
Remove 4nts from 3' end of R2 to Store From Step 1:	o remove handle sequence in R2 in shor	rt reads.
Remove 4nts from 3' end of R2 to Store From Step 1: From Step 2:	o remove handle sequence in R2 in shor	rt reads.
Remove 4nts from 3' end of R2 to Store From Step 1: From Step 2:	o remove handle sequence in R2 in shor	rt reads.