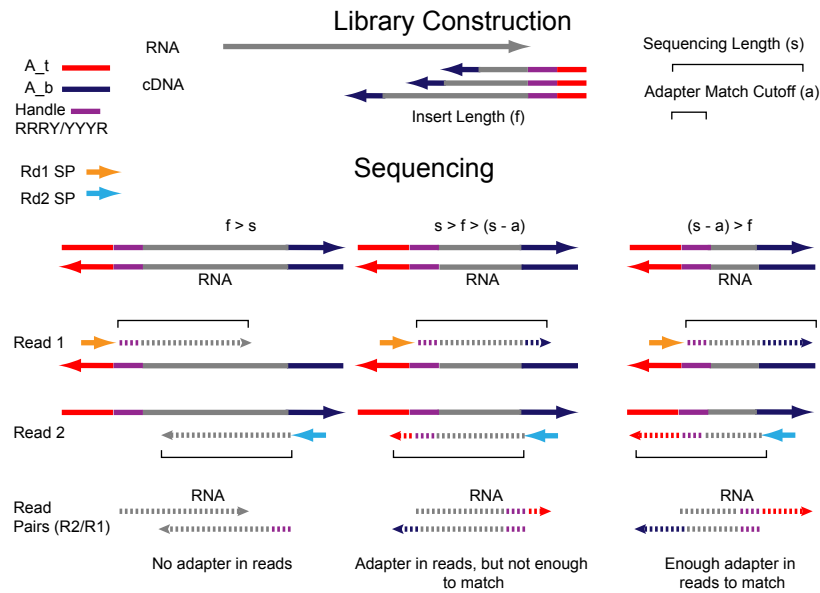


Adapter Trimmer Algorithm



Adapter Clipping Step 1: Trim Base, Look for Revcomp

For base = s-1, s-2, ..., s-a+1

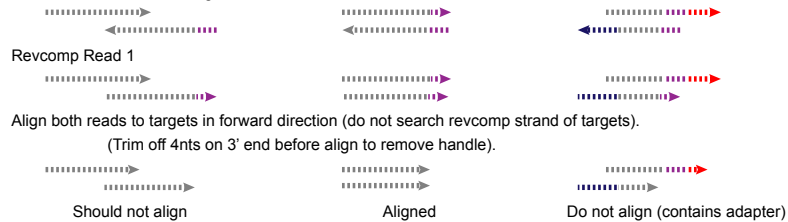
ex: base = s-1 : No reads kept since haven't trimmed off enough adapter

Trim down each read to length = base



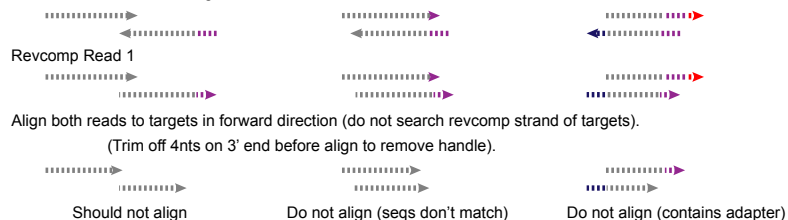
ex: base = s-2 : Keep middle read since trim off exactly correct amount of adapter

Trim down each read to length = base



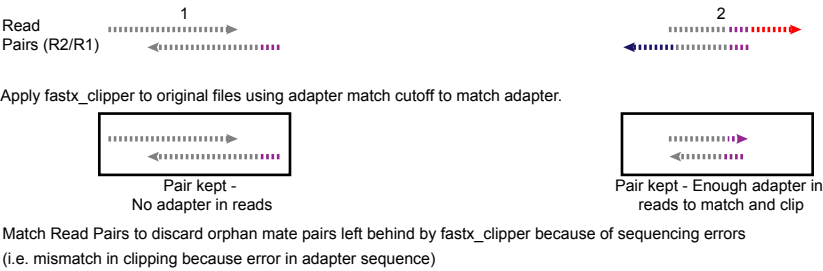
ex: base = s-a+1 : No reads kept since have trimmed off too much adapter (go 2nts into handle)

Trim down each read to length = base



Adapter Clipping Step 2: Use fastx_clipper

Remove reads from input files that were stored in Step 1. (This gets all reads in category 2).
Relabel Reads with Unique Indices (different from indices for reads in Step 1)



Final Processing

Combine all reads in single file.
Remove 4nts from 3' end of R2 to remove handle sequence in R2 in short reads.

Store

From Step 1:



From Step 2:

