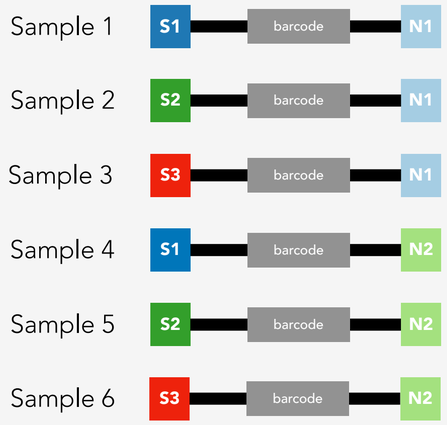
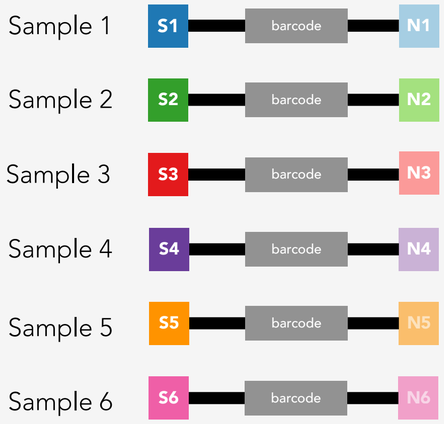
A.

Combinatorial indexing
(prone to index hopping)



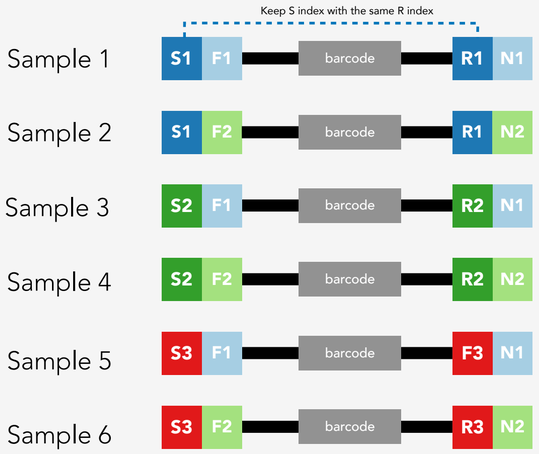
For 96 samples, need
12 forward + 8 reverse = 20 primers

Unique Dual Indexing

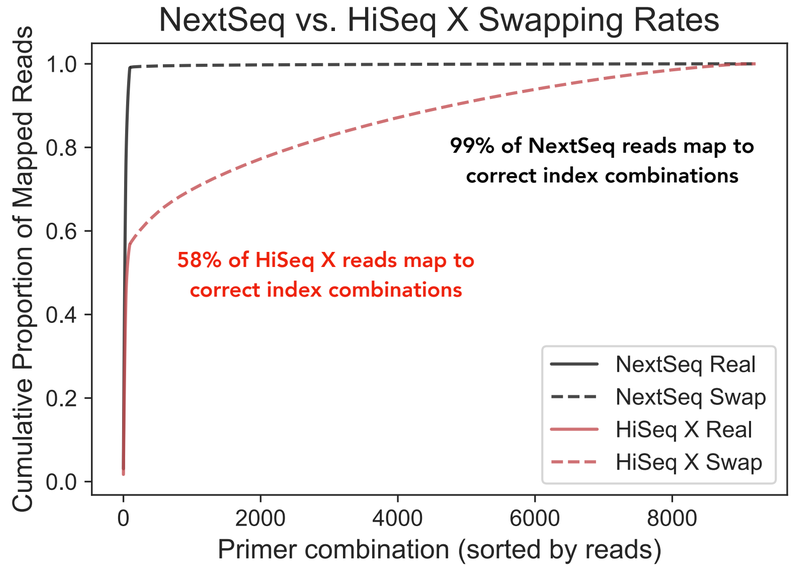


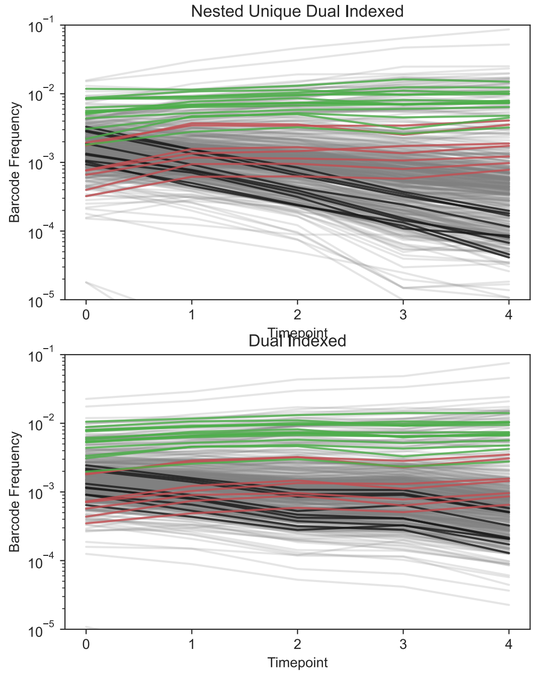
For 96 samples, need
96 forward + 96 reverse = 196 primers

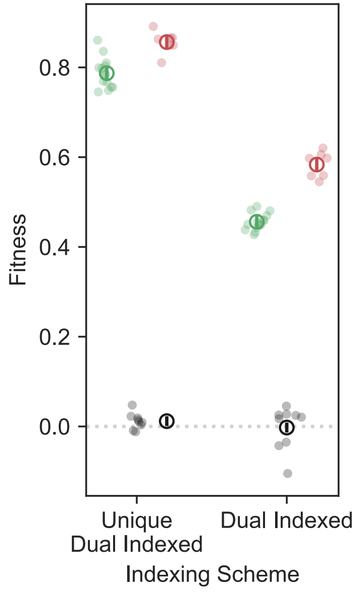
Nested unique dual indexing



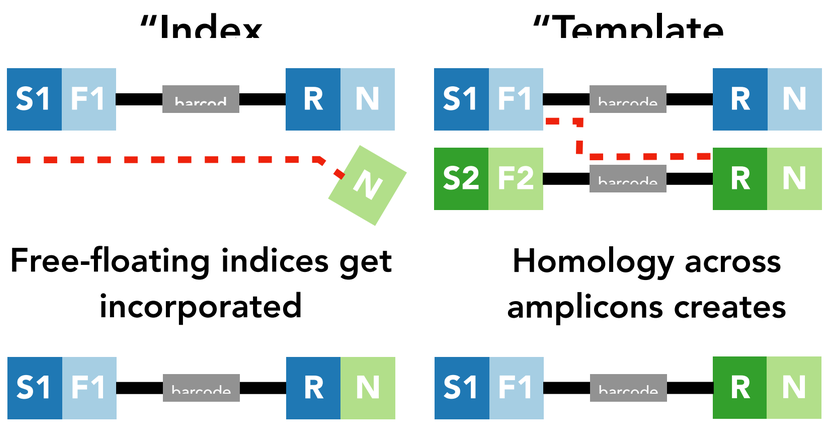
For 96 samples, need
12 F +12 N + 8 R + 8 S= 40 primers







Mechanisms for index hopping



Read out: single-index

Read out: combinations of otherwise correct pairs