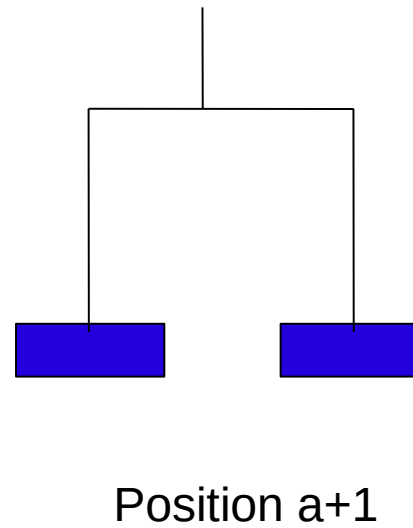
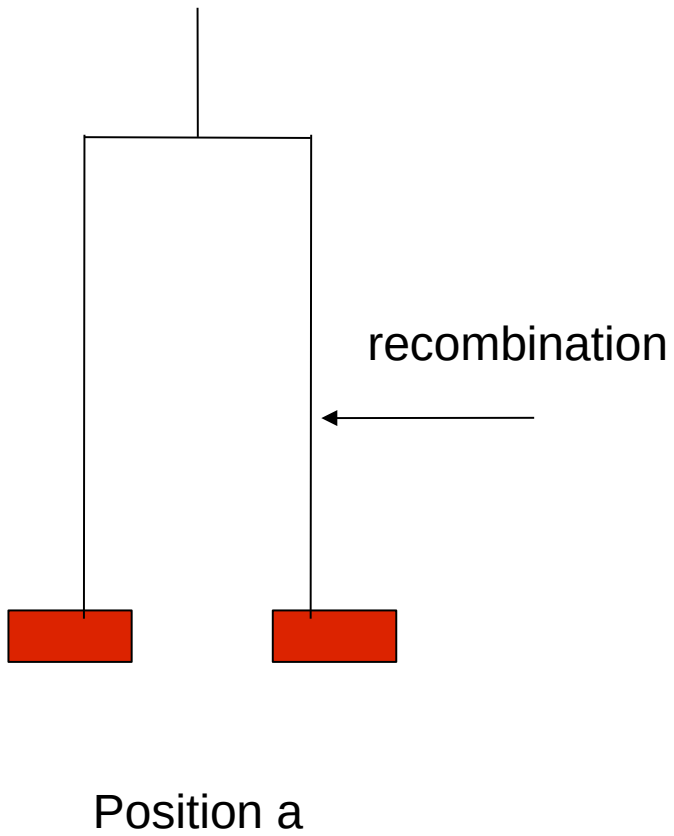
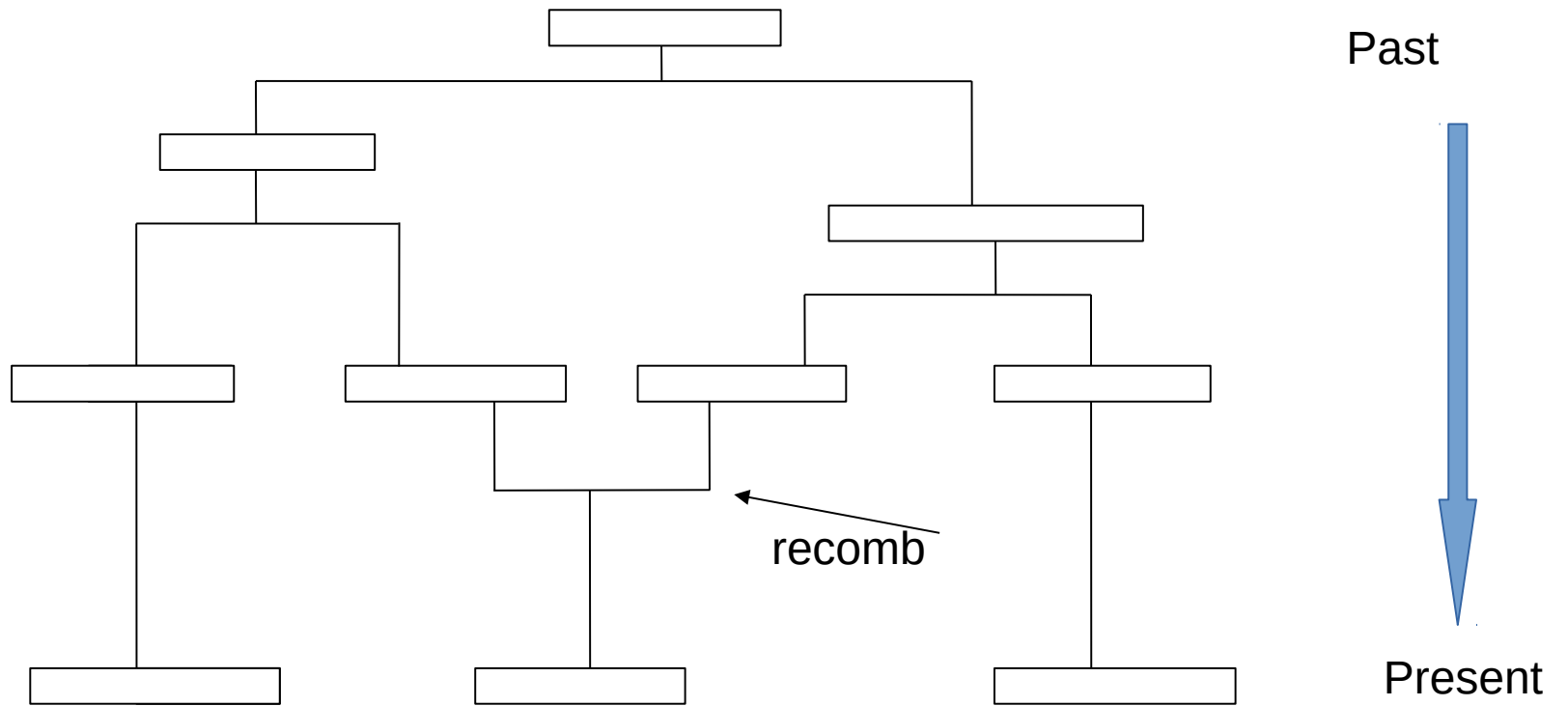


The coalescent with recombination and the Sequentially Markovian Coalescent (SMC)

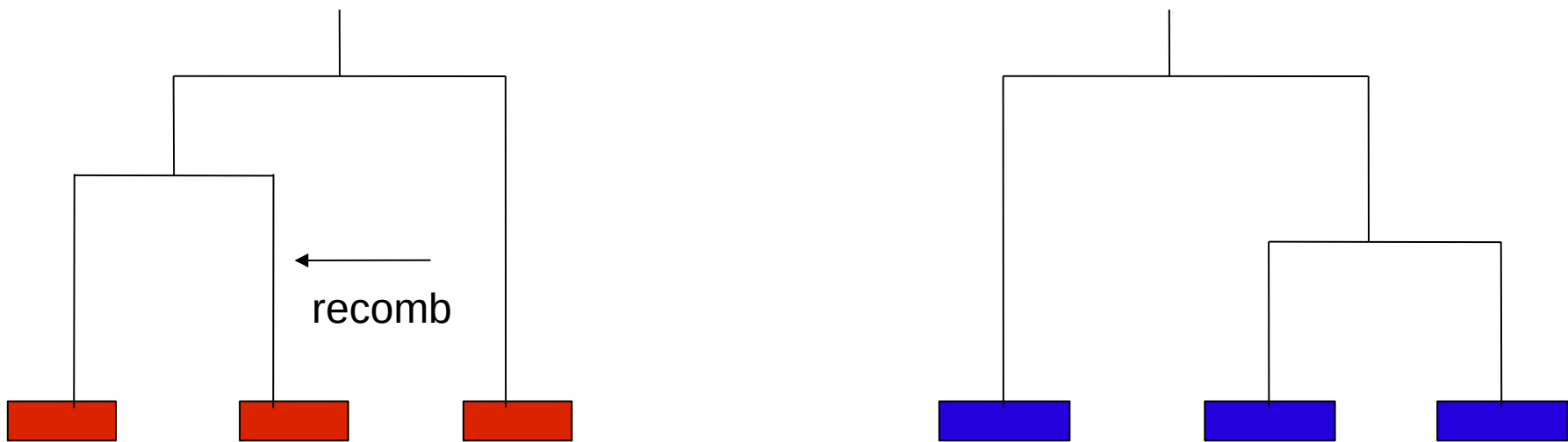
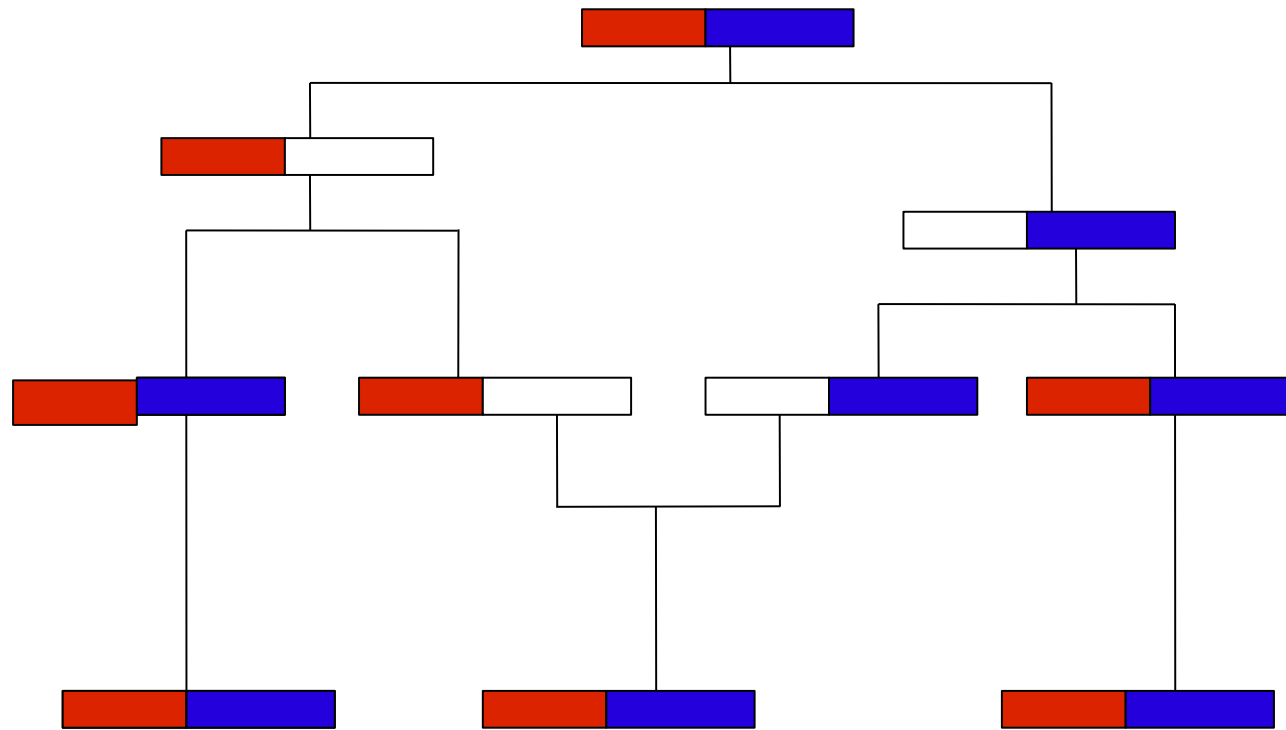
The Coalescent with recombination. Two genes ($n=2$)



The Coalescent with recombination



The Coalescent with recombination



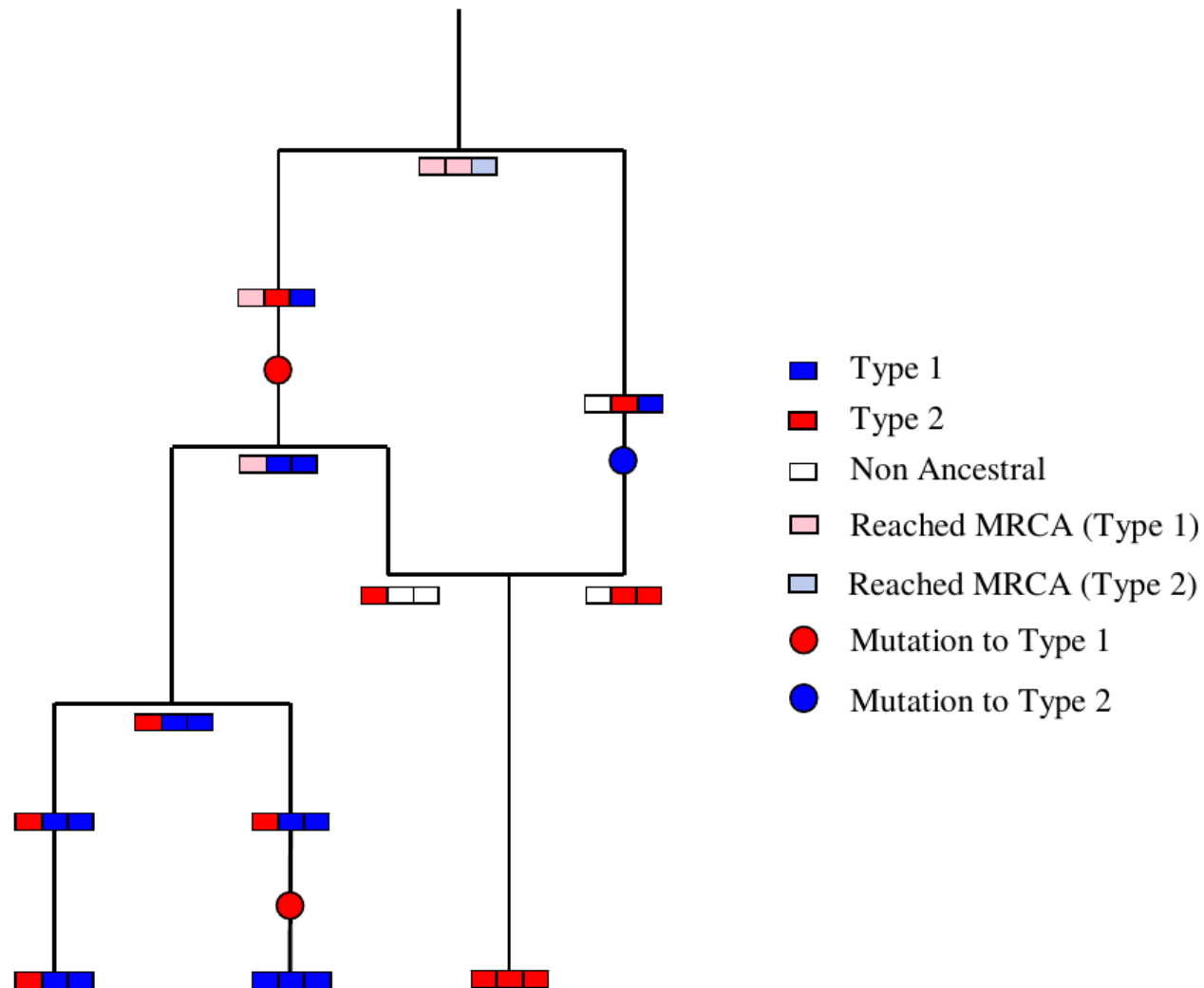


Figure 1.9: This diagram shows an example genealogy with both mutation and recombination events. Lighter colours at a site indicate that the marginal most recent common ancestor has been reached at that site.

Figure taken from Niall Cardin. *Approximating the Coalescent with Recombination*.

Sequentially Markovian Coalescent (SMC). Nial Cardin 2007

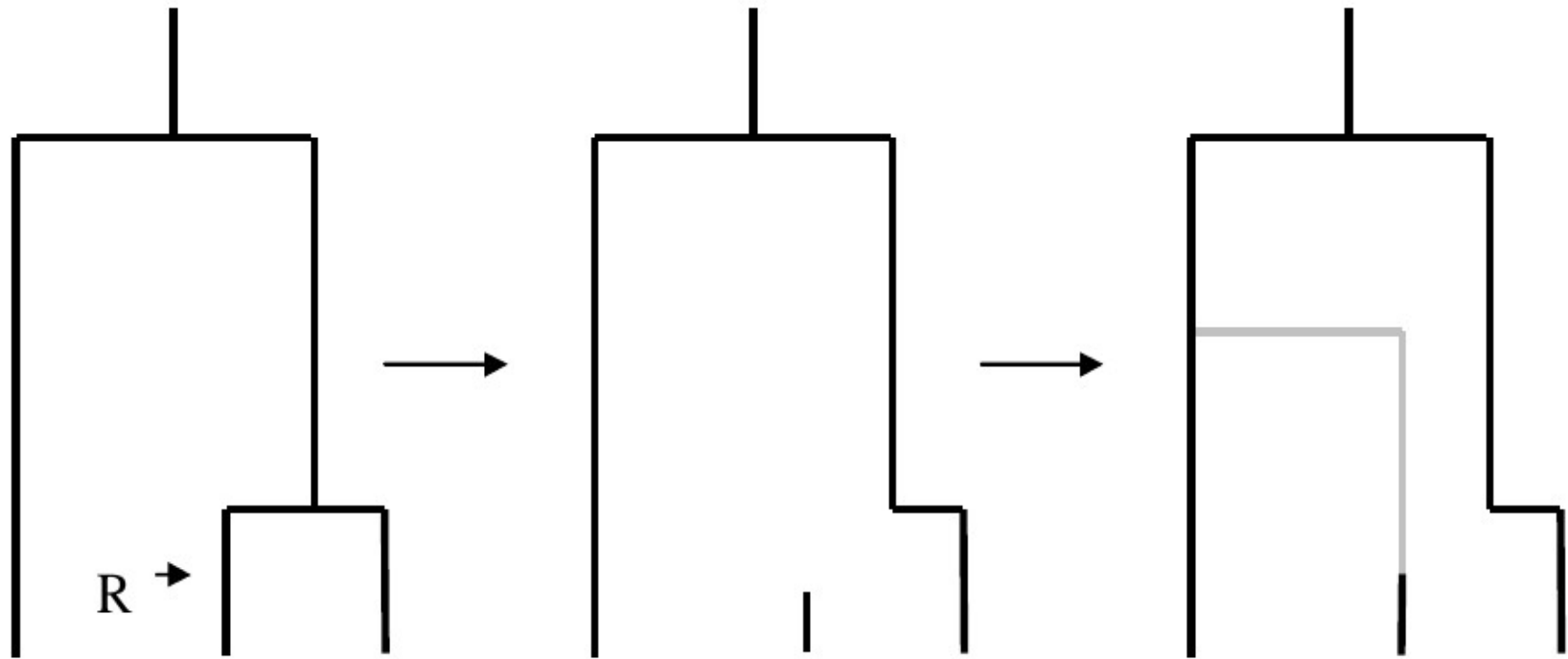


Figure 3.4: Simulating genealogies under the SMC while moving along a sequence. A recombination occurs on the first tree and the portion of the branch above the recombination is erased. This branch then coalesces onto the remaining branches.