Coalescent HMMs

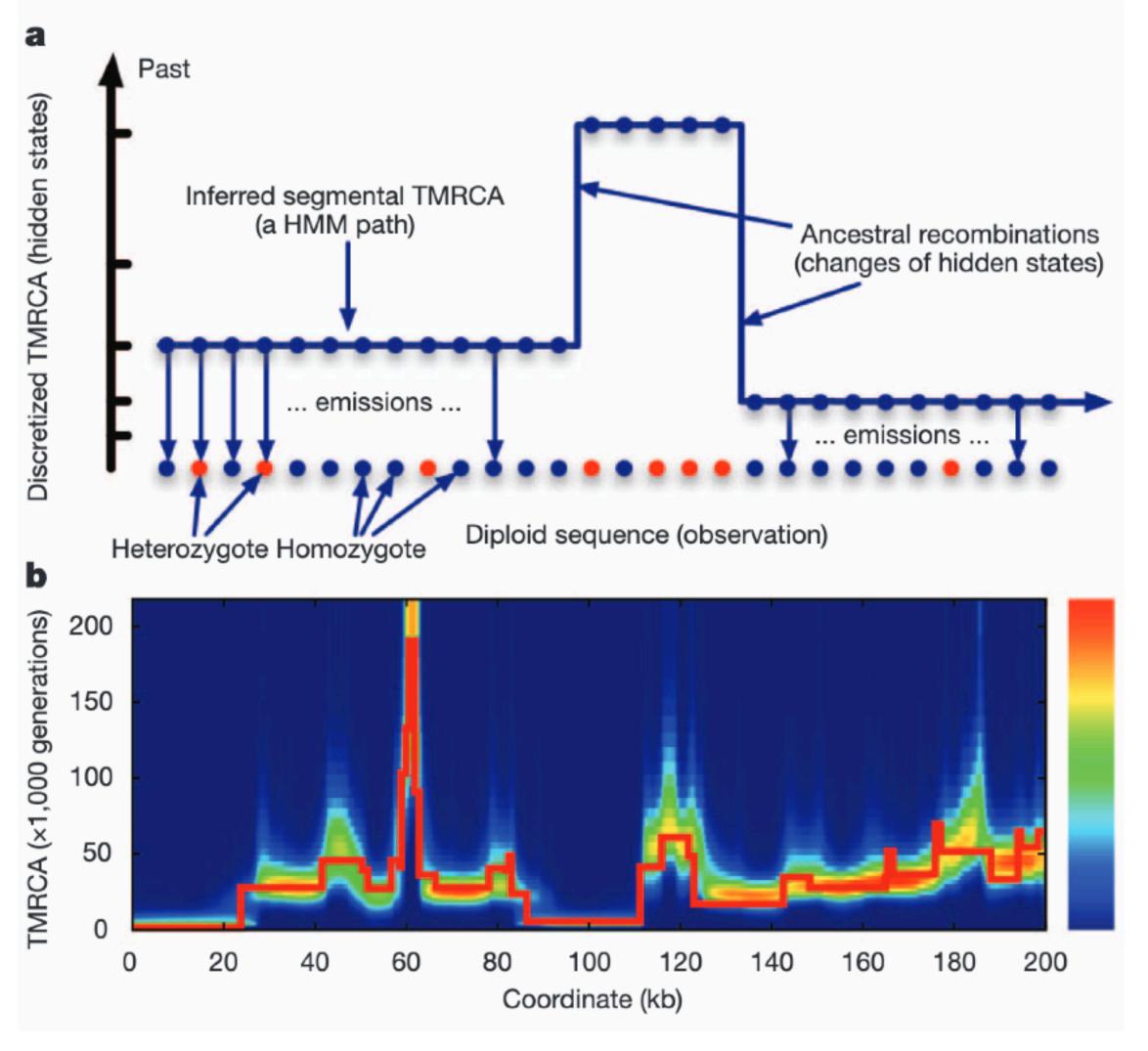
Pairwise sequential Markov coalescent (PSMC)

Hidden state: TMRCA

Emission: heterozyapsity 00100110,...

Transitions:
$$e^{-Ps}, s = t$$

$$p(t|s) = \begin{cases} (1-e^{-ps})q(t|s), s \neq t \\ conficated integral \\ of history N(t) \end{cases}$$



ARTICLE

A global reference for human genetic variation

The 1000 Genomes Project Consortium*

Averagina indv. estimator
to get pop estimator

N(E)

