

A) In an ideal world

clonal population



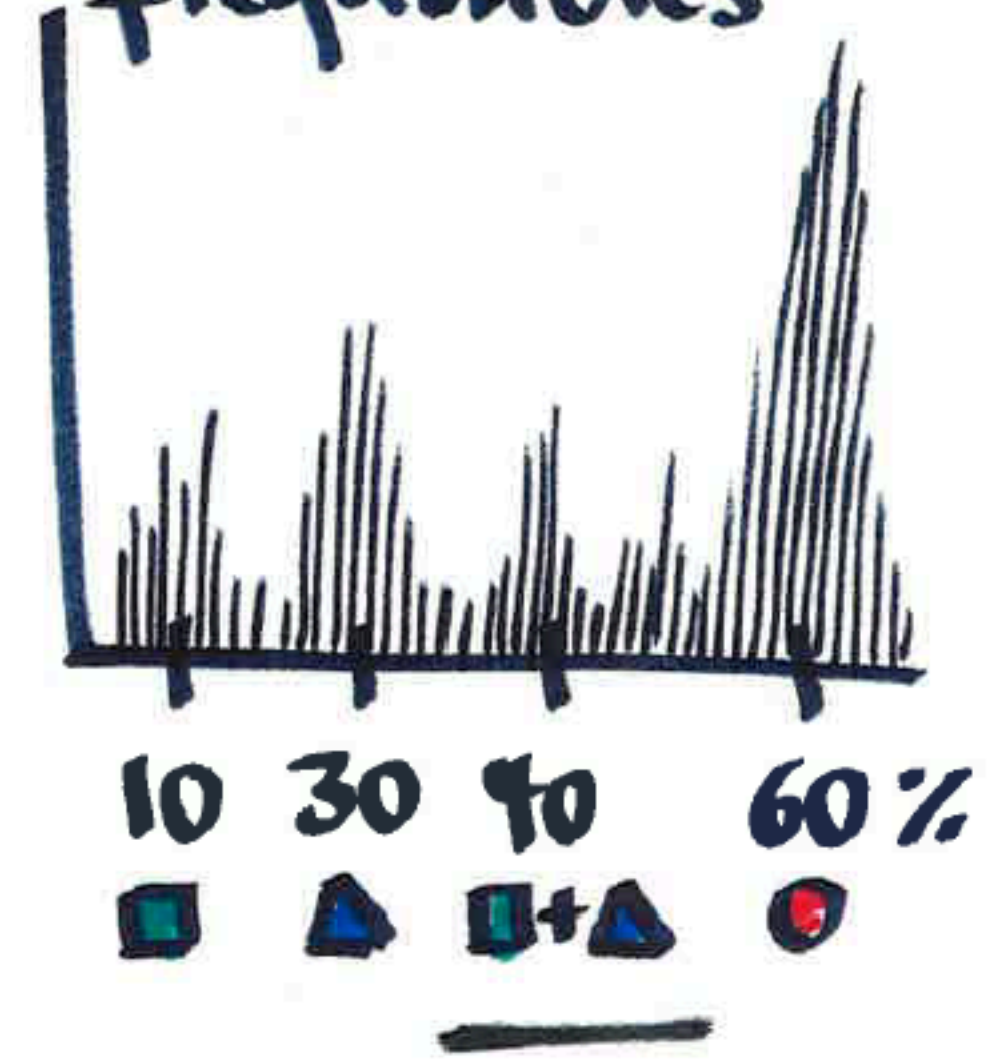
6x○
3x▲
1x■

evolutionary tree



A BC BD
● ▲ ■
genotypes

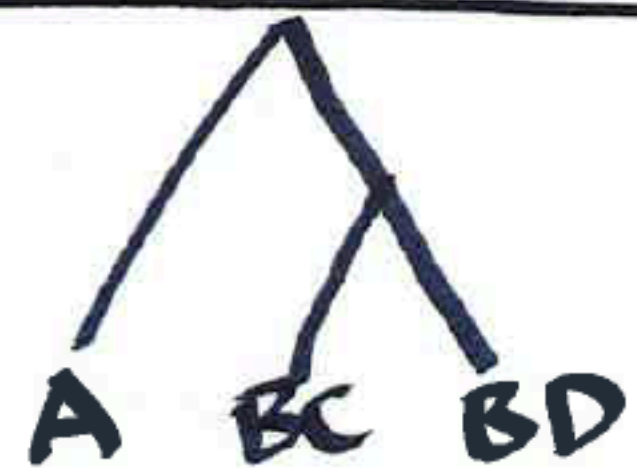
Mutation frequencies



B) Information for tree reconstruction



tree prior
Dirichlet mix



++
b c
+
a c

reads with multiple mutations