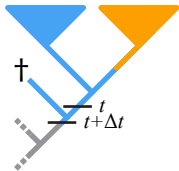


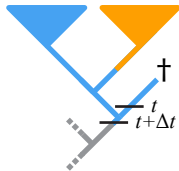
A) Scenarios for observed lineages



i. no speciation

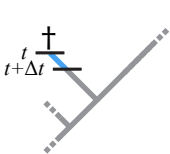


ii. speciation left branch,
subsequent extinction

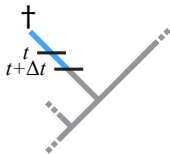


iii. speciation right branch,
subsequent extinction

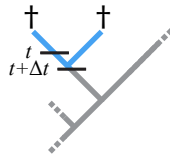
B) Scenarios for unobserved lineages



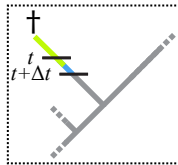
i. no rate shift,
no speciation,
extinction



ii. no rate shift,
no speciation,
subsequent extinction



iii. no rate shift,
speciation,
subsequent extinctions



iv. rate shift,
no speciation,
subsequent extinction