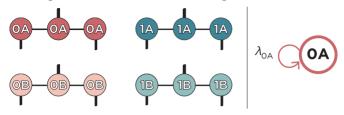
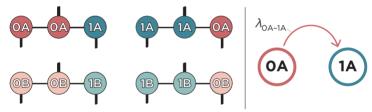
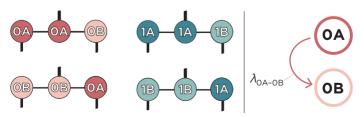
Cladogenesis with **no** trait change (HiSSE)



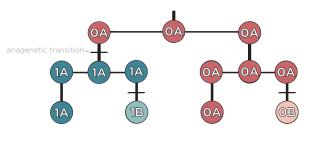
Cladogenesis with trait change but **not** between A & B states (ClaHiSSE)



Cladogenesis between states and traits (HiClass)

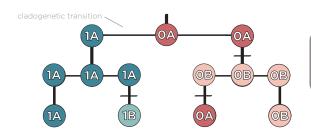


How it would have to happen in HiSSE



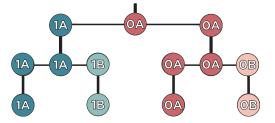
Transitions between states are **only** anagenetic

ClaHiSSE would allow for this option as well:



Trait changes between 0's and 1's **can** be cladogenetic but A's and B's are **only** anagenetic

HiClass does not restrict anagenetic or cladogenetic transitions between A & B states and would allow for this as well:

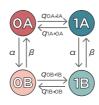


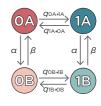
Trait changes between 0's and 1's and A's and B's can be cladogenetic or anagenetic.

Anagenetic transitions

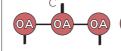




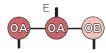












Anagenetic

Cladogenetic