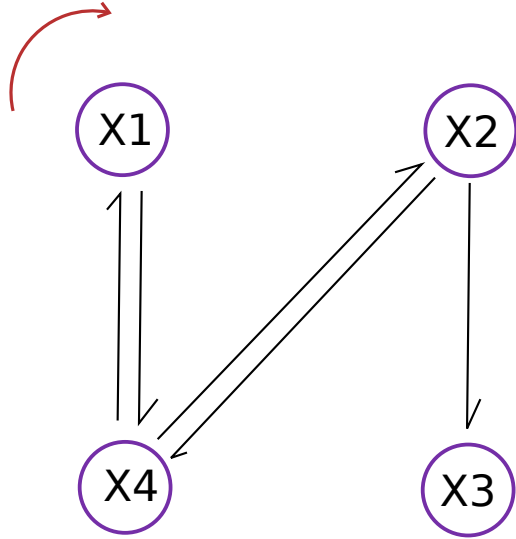


Relation Digraph



Valid HGTs

1. (X1, X4)
2. (X2, X3)
3. (X2, X4)
4. (X4, X2)
5. (X4, X1)*

* before-speciation relations

Symmetric Relations

$(X2, X3) \sim (X3, X2)$
 $(X2, X4) \sim (X3, X4)$
 $(X4, X2) \sim (X4, X3)$